

**TENDER REFERENCE NO.  
(CT2108B016)  
DOCUMENT "C"  
Standard of Rates**

**TENDER FOR MAINTENANCE, REPAIR AND MINOR WORKS RELATING TO MECHANICAL AND ELECTRICAL SERVICES, BUILDING AND OTHER FACILITIES SERVICES FOR SATS MAINTENANCE CENTRE AND SATS RENTED PREMISES LOCATED AT PASSENGER TERMINAL BUILDINGS 1, 2, 3 AND 4, FOR THE PERIOD 25 NOV 2021 TO 24 NOV 2026 (WITH OPTION FOR FURTHER 2 YEARS EXTENSION)**

**DOCUMENT “C”**

**STANDARD OF RATES FOR**

- (I) PRICE SCHEDULE OF RATES I – BUILDING WORKS**
- (II) PRICE SCHEDULE OF RATES II – MECHANICAL WORKS**
- (III) PRICE SCHEDULE OF RATES III – ELECTRICAL WORKS**
- (IV) PRICE SCHEDULE OF RATES IV – PLUMBING AND SANITARY WORKS**

## CONTENTS

		<b>PAGE NO.</b>
VOL 1	Building Works	BW 1 – 143
VOL 2	Mechanical Works	MW 1 – 118
VOL 3	Electrical Works	EW 1 – 33
VOL 4	Plumbing and Sanitary	PS 1 – 196

**PRICE SCHEUDLE OF RATES I – BUILDING WORKS****1. EXCAVATE**

S/No	Description	Unit	Unit Cost (\$)
EX.1	Clear level or sloping site of tall grass, shrubs, bushes, undergrowth, etc. and small trees not exceeding 600 mm girth at a height of 1 metre above ground and grub up their roots and fill voids with earth obtained from Contractor's own sources and disposal of materials off site.	sq m	1.60
EX.2	Excavate surface to reduce level not exceeding 100 mm deep to average depth, get out, remove, deposit, spread, level and mechanically ram and consolidate on site or remove off site to a dump as directed by the University or deposit at contractor's own dumping ground.	sq m	2.00
EX.3	Excavate surface to reduce level exceeding 100 mm and not exceeding 200mm deep to average depth, get out, remove, deposit, spread, level and mechanically ram and consolidate on site or remove off site to a dump as directed by the University or deposit at contractor's own dumping ground.	sq m	2.20
EX.4	Excavate surface to reduce level exceeding 200 mm and not exceeding 300mm deep to average depth, get out, remove, deposit, spread, level and mechanically ram and consolidate on site or remove off site to a dump as directed by the University or deposit at contractor's own dumping ground.	sq m	3.30
EX.5	Excavate surface to reduce level exceeding 300 mm and not exceeding 1000mm deep to average depth, get out, remove, deposit, spread, level and mechanically ram and consolidate on site or remove off site to a dump as directed by the University or deposit at contractor's own dumping ground.	cu m	8.20
EX.6	Add for items 2 to 5 each additional 2.00 m in depth beyond the first 1.00m deep.	cu m	3.45
EX.7	Add for excavating by hand for which mechanical means is not possible for quantity which is less than 250 cu m in any single operation or for any other reason the use of mechanical plant is not possible for level n.e. 100 mm deep.	sq m	1.40
EX.8	Add for excavating by hand for which mechanical means is not possible for quantity which is less than 250 cu m in any single operation or for any other reason the use of mechanical plant is not possible for level exceeding 100mm & n.e. 200mm deep.	sq m	1.70
EX.9	Add for excavating by hand for which mechanical means is not possible for quantity which is less than 250 cu m in any single operation or for any other reason the use of mechanical plant is not possible for level exceeding 200mm & n.e. 300mm deep.	sq m	2.80
EX.10	Add for excavating by hand for which mechanical means is not possible for quantity which is less than 250 cu m in any single operation or for any other reason the use of mechanical plant is not possible for level exceeding 300mm & n.e. 1000 mm deep.	cu m	15.00
EX.11	Excavate in slopes or embankment and get out, remove, deposit, spread and level on Site and/or remove to ENV's approved dumping ground including trimming surfaces of slopes.	cu m	15.00
EX.12	Roll with power roller not exceeding one tonne or with approved hand roller.	sq m	0.70
EX.13	Trim undulating ground to form level surface or embankments or to required falls.	sq m	1.30
EX.14	Excavate trenches for surface water channels and drains not exceeding 525 mm width to an average depth not exceeding 750 mm, get out, backfill, remove surplus excavated materials off site and make good (length measured over sump pits)	m	8.10



S/No	Description	Unit	Unit Cost (\$)
EX.15	Excavate to form trenches for foundations, drains, culverts retaining walls, etc. not exceeding 2.00m deep and get out, part return, fill in and ram and remainder remove and deposit, spread and level on Site and/or remove to ENV's dumping ground.	cu m	15.00
EX.16	Excavate to form trenches for foundations, drains, culverts retaining walls, etc. exceeding 2.00m and not exceeding 4.00m deep and get out, part return, fill in and ram and remainder remove and deposit, spread and level on Site and/or remove to ENV's dumping ground.	cu m	18.00
EX.17	Excavate to form trenches for foundations, drains, culverts retaining walls, etc. exceeding 4.00m and not exceeding 6.00m deep and get out, part return, fill in and ram and remainder remove and deposit, spread and level on Site and/or remove to ENV's dumping ground.	cu m	44.85
EX.18	Excavate to form trenches for foundations, drains, culverts retaining walls, etc. exceeding 6.00m deep and get out, part return, fill in and ram and remainder remove and deposit, spread and level on Site and/or remove to ENV's dumping ground.	cu m	56.35
EX.19	Excavate for pier holes and the like not exceeding 1 cu m each and get out, remove, deposit, spread and level on site and/or remove to ENV's approved dumping ground.	no	23.00
EX.20	Extra over for excavating trenches in semi-hard ground not exceeding 2.00m deep.	cu m	25.90
EX.21	Extra over for excavating trenches in semi-hard ground exceeding 2.00m & not exceeding 4.00m deep.	cu m	32.80
EX.22	Extra over for excavating trenches in semi-hard ground exceeding 2.00m & not exceeding 6.00m deep.	cu m	67.30
EX.23	Extra over for excavating trenches in semi-hard ground exceeding 6.00m deep.	cu m	84.50
EX.24	Extra over for excavating pier holes in semi-hard ground.	cu m	34.50
EX.25	Extra over excavation for excavating trenches in hard ground not exceeding 2.00m deep (blasting will not be permitted. Work has to be carried out by pneumatic tools, etc.).	cu m	32.80
EX.26	Extra over excavation for excavating trenches in hard ground exceeding 2.00m & not exceeding 4.00m deep (blasting will not be permitted. Work has to be carried out by pneumatic tools, etc.).	cu m	41.50
EX.27	Extra over excavation for excavating trenches in hard ground exceeding 4.00m & not exceeding 6.00m deep (blasting will not be permitted. Work has to be carried out by pneumatic tools, etc.).	cu m	85.20
EX.28	Extra over excavation for excavating trenches in hard ground exceeding 6.00m deep (blasting will not be permitted. Work has to be carried out by pneumatic tools, etc.).	cu m	107.10
EX.29	Extra over excavation for excavating pier holes in hard ground (blasting will not be permitted. Work has to be carried out by pneumatic tools, etc.).	no	43.70
EX.30	Excavate pits, small holes, etc (i.e. holes not exceeding 1cu m) to receive bases of posts etc, get out, backfill, remove surplus excavated materials off site and make good.	no	21.50
EX.31	Timber left in excavation as directed including cutting runners below ground level (price to include wedges, cleats, etc.).	sqm	13.20
EX.32	Backfill and ram best of excavated material around foundations in 150 mm layers.	cu m	7.10
EX.33	Remove excavated material to a dump within site as directed by the University irrespective of distance.	cu m	8.30

S/No	Description	Unit	Unit Cost (\$)
EX.34	Remove excavated material to a dump off site as directed by the University irrespective of distance.	cu m	44.60
EX.35	Dry approved earth filling obtained from the Contractor's own sources, deposited, spread and consolidated by hand or mechanical means in layers of 300 mm and as directed to make up levels or banks.	cu m	9.30
EX.36	Dry approved earth filling obtained from the Contractor's own sources, in filling to slipped banks including taking out loose, muddy soil and all necessary hand or mechanical ramming as directed.	cu m	15.50
EX.37	Take out silt, loose muddy soil or other materials from existing running storewater channels, drains exceeding 150 mm deep, sump pits or cesspits and remove, deposit, spread and level in positions as directed by the University or remove off site.	cu m	47.30
EX.38	Take out silt, loose muddy soil or other materials from existing running storewater channels, drains exceeding 150 mm deep, sump pits or cesspits and remove, deposit, spread and level in positions as directed by the University or remove off site from shallow drains not exceeding 150 mm deep.	m	1.20
EX.39	Take out silt, loose muddy soil or other materials from existing running storewater channels drains exceeding 150 mm deep, sump pits or cesspits and remove, deposit, spread and level in positions as directed by the University or remove off site but including clearing grass on one or both sides of drains.	m	2.80
EX.40	Sand in bed, filling, etc. irrespective of thickness, deposited, spread, levelled and rammed with mechanical rammer, or rolled with hand roller.	cu m	107.20
EX.41	60 mm granite aggregate in beds, fillings, etc. irrespective of thickness, deposited, spread, levelled and rammed with mechanical rammer, or rolled with hand roller.	cu m	127.75
EX.42	40 mm granite aggregate in beds, fillings, etc. irrespective of thickness, deposited, spread, levelled and rammed with mechanical rammer, or rolled with hand roller.	cu m	107.10
EX.43	20 mm granite aggregate in beds, fillings, etc. irrespective of thickness, deposited, spread, levelled and rammed with mechanical rammer, or rolled with hand roller.	cu m	101.10
EX.44	12 mm granite aggregate in beds, fillings, etc. irrespective of thickness, deposited, spread, levelled and rammed with mechanical rammer, or rolled with hand roller.	cu m	94.75
EX.45	3 mm to 6 mm granite chipping in beds, filling, etc. irrespective of thickness, deposited, spread, levelled and rammed with mechanical rammer, or rolled with hand roller.	cu m	81.85
EX.46	Quarry waste in beds, filling, etc. irrespective of thickness, deposited, spread, levelled and rammed with mechanical rammer, or rolled with hand roller.	cu m	62.90
EX.47	Hardcore as specified in beds, making up levels, etc. and deposited, spread, levelled mechanically consolidated in (in layers of 300 mm thick if exceeding 300 mm thick) and top blinded with sand/granite dust.	cu m	80.40
EX.48	Breaking up for brick paving, tarmacadam including granite base course or other existing obstructions on the surface of the ground not exceeding 300 mm thick and removing debris off site.	sq m	20.50
EX.49	Breaking up for brick paving, tarmacadam including granite base course or other existing obstructions on the surface of the ground but exceeding 300 mm thick and removing debris off site.	cu m	77.40

S/No	Description	Unit	Unit Cost (\$)
EX.50	Break up concrete bases(including excavation around base) not exceeding 0.10 cu m to posts, gate stops, etc. break up concrete, remove debris off site and fill with earth to be obtained from Contractor's own sources and make good.	no	11.60
EX.51	Break up concrete bases(including excavation around base) exceeding 0.10cu m but not exceeding 0.30cu m to posts, gate stops, etc. break up concrete, remove debris off site and fill with earth to be obtained from Contractor's own sources and make good.	no	33.10
EX.52	Cutting of tarmacadam surface, brick pavement etc. using powered diamond cutter to achieve straight edge not exceeding 150 mm depth.	m	12.50
EX.53	Provide and assemble piling equipment on site to drive bakau pile including moving it around site, subsequent dismantling and removal on completion.	no	800.00
EX.54	Provide and assemble piling equipment on site to drive treated timber pile including moving it around site, subsequent dismantling and removal on completion.	no	1200.00
EX.55	Provide and assemble piling equipment on site to drive micro pile including moving it around site, subsequent dismantling and removal on completion.	no	3000.00
EX.56	Supply and drive 80 mm diameter bakau pile. Not exceeding 2.20m long including cutting of pile.	no	4.25
EX.57	Supply and drive 80 mm diameter bakau pile. Exceeding 2.20m but not exceeding 4.40m long including cutting of pile.	no	6.80
EX.58	Supply and drive 80 mm diameter bakau pile. Exceeding 4.40m but not exceeding 6.60m long including cutting of pile.	no	11.00
EX.59	Supply and drive 80 mm diameter bakau pile. Exceeding 4.40m but not exceeding 6.60m long including cutting of pile and mild steel pipe sleeves.	no	13.90
EX.60	Supply and drive 80 mm diameter bakau pile. Exceeding 6.60m but not exceeding 8.80m long including cutting of pile and mild steel pipe sleeves.	no	17.90
EX.61	Supply and drive 80 mm diameter bakau pile. Supply and lay 80mm diameter bakau roller.	m	1.40
EX.62	Supply and drive 100 mm x 100 mm pressure treated timber piles with an approved piling frame and monkey (transporting of piling frame to and from site measured separately)including maneuvering piling frame within site, testing, pitching, heading, pointing and splicing and driving down to an approved set and finally cutting off top of pile to the required level where necessary excavation and disposal of material displaced consequent upon the driving of the pile (Penetration length measured).	m	17.25
EX.63	Supply and drive 125mm x 125mm pressure treated timber piles with an approved piling frame and monkey(transporting of piling frame to and from site measured separately)including maneuvering piling frame within site, testing, pitching, heading, pointing and splicing and driving down to an approved set and finally cutting off top of pile to the required level where necessary excavation and disposal of material displaced consequent upon the driving of the pile (Penetration length measured).	m	19.55
EX.64	Supply and drive 150mm x 150mm pressure treated timber piles with an approved piling frame and monkey(transporting of piling frame to and from site measured separately)including maneuvering piling frame within site, testing, pitching, heading, pointing and splicing and driving down to an approved set and finally cutting off top of pile to the required level where necessary excavation and disposal of material displaced consequent upon the driving of the pile (Penetration length measured).	m	23.00

S/No	Description	Unit	Unit Cost (\$)
EX.65	Supply and drive 175mm x 175mm pressure treated timber piles with an approved piling frame and monkey (transporting of piling frame to and from site measured separately) including maneuvering piling frame within site, testing, pitching, heading, pointing and splicing and driving down to an approved set and finally cutting off top of pile to the required level where necessary excavation and disposal of material displaced consequent upon the driving of the pile (Penetration length measured).	m	29.90
EX.66	Supply and fix 5 mm thick mild steel welded box joint size 100 x 100 x 450 mm including all handling, cutting and spiking to pile.	no	16.10
EX.67	Supply and fix 5 mm thick mild steel welded box joint size 125 x 125 x 450 mm including all handling, cutting and spiking to pile.	no	18.40
EX.68	Supply and fix 5 mm thick mild steel welded box joint size 150 x 150 x 450 mm including all handling, cutting and spiking to pile.	no	20.70
EX.69	Supply and fix 5 mm thick mild steel welded box joint size 175 x 175 x 450 mm including all handling, cutting and spiking to pile.	no	24.20
EX.70	Strip turf average 50 mm deep, lay aside and preserve for re-use (preserving not exceeding 7 days).	sq m	2.50
EX.71	Take turf from stake and relay to level or slightly sloping ground (less than 45 degree) including 50 mm thick topsoil and sludge, top dressing, weeding out unwanted grass and weeds, cutting, watering and tending, and replacing when necessary until grass is established.	sq m	6.30
EX.72	Strip turf and remove off site (not extra over item).	sq m	1.60
EX.73	Cow-grass (Axonopus Compressors) obtained from Contractor's own sources laid on slightly sloping surfaces (less than 45 degrees) at 450 mm centres including 25 mm thick topsoil and sludge (1:1), top dressing, weeding out unwanted grass and weeds cutting, watering and tending and replacing when necessary until the grass is established (spot turfing).	sq m	4.00
EX.74	Cow-grass (Axonopus Compressors) obtained from Contractor's own sources laid on slightly sloping surfaces (less than 45 degrees) at 450 mm centres including 25 mm thick topsoil and sludge (1:1), top dressing, weeding out unwanted grass and weeds cutting, watering and tending and replacing when necessary until the grass is laid edge to edge (close turfing).	sq m	4.60
EX.75	25 mm thick (finished thickness) selected black soil obtained from Contractor's own sources, deposited, spread, levelled and rolled with a hand roller and including trimming and levelling formation.	sq m	1.30
EX.76	Add for each additional 25 mm thick (finished thickness) of selected black soil obtained from Contractor's own sources, deposited, spread, levelled and rolled with a hand roller and including trimming and levelling formation.	sq m	1.00
EX.77	25 mm thick topsoil and sludge mixture (3:1) obtained from Contractor's own sources, deposited, spread levelled and rolled with a hand roller.	sq m	0.90
EX.78	Add for each additional 25 mm thick of topsoil and sludge mixture (3:1) obtained from Contractor's own sources, deposited, spread levelled and rolled with a hand roller.	sq m	0.70
EX.79	Plough down not exceeding 300 mm deep with an approved disc plough, break up soil lumps as specified with approved tiller and mix sub-soil with sludge (proportion 6:1) as specified including trimming and leveling.	sq m	1.40
EX.80	Approved used sawn timber irrespective of sizes, for needling, strutting or shoring, including all hoop-iron (to be left in excavation).	sq m	56.60
EX.81	Approved used sawn timber for protective timber hoarding including erecting and dismantling after use-BCD drawing Type A(75) (where specially ordered, not related to the work and for protective timber hoarding required to be left in) - Appendix 1.	m	250.10

S/No	Description	Unit	Unit Cost (\$)
EX.82	Approved used sawn timber for protective timber hoarding including erecting and dismantling after use-BCD drawing Type B(75) (where specially ordered, not related to the work and for protective timber hoarding required to be left in) - Appendix 2.	m	153.10
EX.83	Approved used sawn timber for protective timber hoarding including erecting and dismantling after use-BCD drawing Type C(75) (where specially ordered, not related to the work and for protective timber hoarding required to be left in) - Appendix 3.	m	272.20

## 2. CONCRETE

S/No	Description	Unit	Unit Cost (\$)
Con.1	Concrete grade 15 as specified in bed, under foundations, column base, ground beams, in fillings, etc. irrespective of thickness.	cu m	247.50
Con.2	Concrete grade 20 as specified in foundations, beds, steps, slabs, aprons, footpath, etc. irrespective of sizes or thickness, including working around rod or fabric reinforcement, steel beams, stanchions, etc.	cu m	258.75
Con.3	Concrete grade 25 as specified in foundations, beds, suspended slabs, beams, columns, staircases, lintels, walls, suspended canopy, stiffeners etc. irrespective of sizes or thickness, including working around rod or fabric reinforcement, steel beams, stanchions, etc.	cu m	270.00
Con.4	Concrete grade 25 as specified in foundations each not exceeding 0.07cu m including all necessary formwork, excavation, removing surplus excavated material off site and backfilling.	no	22.50
Con.5	Concrete grade 25 as specified in foundations each exceeding 0.07cu m and not exceeding 0.15cu m including all necessary formwork, excavation, removing surplus excavated material off site and backfilling.	no	49.50
Con.6	Concrete grade 30 as specified in foundations, beds, slabs, beams, columns, staircases, retaining walls, ramp, engine beds, etc. irrespective of sizes or thickness, including working around rod or fabric reinforcement, steel beams, stanchions etc.	cu m	292.50
Con.7	Concrete grade 35 as specified in foundations, beds, slabs, beams, columns, staircases, retaining walls, etc. irrespective of sizes or thickness, including working around rod or fabric reinforcement, steel beams, stanchions etc.	cu m	303.75
Con.8	Concrete grade 40 as specified in foundations, beds, slabs, beams, columns, staircases, retaining walls, etc. irrespective of sizes or thickness, including working around rod or fabric reinforcement, steel beams, stanchions etc.	cu m	326.25
Con.9	Extra over labour for trowelling top surface of concrete to a smooth finish and finished to falls and currents or cambers including additional cement required.	sq m	3.75
Con.10	Extra over labour for trowelling top surface of concrete to a rough finish and finished to falls and currents or cambers including additional cement required.	sq m	3.00
Con.11	Ready-mix concrete, grade 10 as specified in foundations, beds, slabs, beams, columns, staircases, retaining walls, etc. irrespective of sizes or thickness including working around rod or fabric reinforcement, steel beams, stanchions etc.	cu m	202.50
Con.12	Ready-mix concrete, grade 20 as specified in foundations, beds, slabs, beams, columns, staircases, retaining walls, etc. irrespective of sizes or thickness including working around rod or fabric reinforcement, steel	cu m	225.00

S/No	Description	Unit	Unit Cost (\$)
	beams, stanchions etc.		
Con.13	Ready-mix concrete, grade 25 as specified in foundations, beds, slabs, beams, columns, staircases, retaining walls, etc. irrespective of sizes or thickness including working around rod or fabric reinforcement, steel beams, stanchions etc.	cu m	236.25
Con.14	Ready-mix concrete, grade 30 as specified in foundations, beds, slabs, beams, columns, staircases, retaining walls, etc. irrespective of sizes or thickness including working around rod or fabric reinforcement, steel beams, stanchions etc.	cu m	247.50
Con.15	Ready-mix concrete, grade 35 as specified in foundations, beds, slabs, beams, columns, staircases, retaining walls, etc. irrespective of sizes or thickness including working around rod or fabric reinforcement, steel beams, stanchions etc.	cu m	258.75
Con.16	Ready-mix concrete, grade 40 as specified in foundations, beds, slabs, beams, columns, staircases, retaining walls, etc. irrespective of sizes or thickness including working around rod or fabric reinforcement, steel beams, stanchions etc.	cu m	270.00
Con.17	Waterproofed concrete complying with BS 8110 with approved waterproofing compound G30.	cu m	262.50
Con.18	Waterproofed concrete complying with BS 8110 with approved waterproofing compound G35.	cu m	273.75
Con.19	Concrete (grade 20) in new surface water drain shall be 150 mm wide internally and not exceeding 150 mm deep to invert with 100 mm thick sides and semi-circular bottom, reinforced with approved fabric reinforcement, bottom, sides and top rendered with 15 mm thick cement and sand (1:3) including excavation, hardcore, removing surplus excavated material off site, formwork, laying to falls, bends, stopped ends, etc (note : for depth exceeding 300 mm deep the sides shall be 150 mm thick).	m	38.10
Con.20	Add for each additional stage of 25 mm depth to invert.	m	2.60
Con.21	Concrete (grade 20) in new surface water drain shall be 225 mm wide internally and not exceeding 225 mm deep to invert with 100 mm thick sides and semi-circular bottom, reinforced with approved fabric reinforcement, bottom, sides and top rendered with 15 mm thick cement and sand (1:3) including excavation, hardcore, removing surplus excavated material off site, formwork, laying to falls, bends, stopped ends, etc (note : for depth exceeding 300 mm deep the sides shall be 150 mm thick).	m	51.00
Con.22	Add for each additional stage of 25 mm depth to invert.	m	3.25
Con.23	Concrete (grade 20) in new surface water drain shall be 300 mm wide internally and not exceeding 225 mm deep to invert with 100 mm thick sides and semi-circular bottom, reinforced with approved fabric reinforcement, bottom, sides and top rendered with 15 mm thick cement and sand (1:3) including excavation, hardcore, removing surplus excavated material off site, formwork, laying to falls, bends, stopped ends, etc (note : for depth exceeding 300 mm deep the sides shall be 150 mm thick).	m	57.00
Con.24	Add for each additional stage of 25 mm depth to invert.	m	3.90

S/No	Description	Unit	Unit Cost (\$)
Con.25	Concrete (grade 20) in surface water drain shall be 150 mm wide internally and not exceeding 150 mm deep to invert with 100 mm thick sides and semi-circular bottom, reinforced with approved fabric reinforcement, bottom, sides and top rendered with 15 mm thick cement and sand (1:3) including excavation, hardcore, removing surplus excavated material off site, formwork, laying to falls, bends, stopped ends, etc (note : for depth exceeding 300 mm deep the sides shall be 150 mm thick). But in replacement including hacking up existing and temporarily diverting drains as necessary and making good (note: for depth exceeding 300 mm deep the sides should be 150 mm thick).	m	43.10
Con.26	Add for each additional stage of 25 mm depth to invert.	m	2.60
Con.27	Concrete (grade 20) in surface water drain shall be 225 mm wide internally and not exceeding 225 mm deep to invert with 100 mm thick sides and semi-circular bottom, reinforced with approved fabric reinforcement, bottom, sides and top rendered with 15 mm thick cement and sand (1:3) including excavation, hardcore, removing surplus excavated material off site, formwork, laying to falls, bends, stopped ends, etc (note : for depth exceeding 300 mm deep the sides shall be 150 mm thick). But in replacement including hacking up existing and temporarily diverting drains as necessary and making good (note: for depth exceeding 300 mm deep the sides should be 150 mm thick).	m	56.00
Con.28	Precast concrete (grade 20) in new or existing work with all exposed faces finished fair, bedded, jointed and pointed in cement mortar (1:3) or with edges bedded and pointed in putty or mastic including making good, removing debris, all necessary moulds, transporting, handling and fixing in 50 mm thick slab for footpath, paving or apron slabs in suitable sizes.	m	3.25
Con.29	Concrete (grade 20) in surface water drain shall be 300 mm wide internally and not exceeding 225 mm deep to invert with 100 mm thick sides and semi-circular bottom, reinforced with approved fabric reinforcement, bottom, sides and top rendered with 15 mm thick cement and sand (1:3) including excavation, hardcore, removing surplus excavated material off site, formwork, laying to falls, bends, stopped ends, etc (note : for depth exceeding 300 mm deep the sides shall be 150 mm thick). But in replacement including hacking up existing and temporarily diverting drains as necessary and making good (note: for depth exceeding 300 mm deep the sides should be 150 mm thick).	m	62.00
Con.30	Add for each additional stage of 25 mm depth to invert.	m	3.50
Con.31	Extra over surface water drain (any width) for forming cascade not exceeding 150 mm drop.	no	5.25
Con.32	Extra over surface water drain (any width) for forming cascade exceeding 150 mm but not exceeding 300 mm drop.	no	6.90
Con.33	Hack up existing surface water drain and remove debris off site.	m	6.45
Con.34	Cut out cracks in surface water channels or drains (any type & size) including removing silt and cutting grass on banks.	m	6.00
Con.35	Form 100 mm wide scupper drain in existing concrete floor, made to correct line and falls and form rebate to receive grating if any, render invert and sides with 15 mm cement and sand (1:3) and including hacking existing concrete of similar grade to floor below scupper drain, making good surrounds, form-work and clearing debris off site.	m	42.00

S/No	Description	Unit	Unit Cost (\$)
Con.36	Form 125 mm wide scupper drain in existing concrete floor, made to correct line and falls and form rebate to receive grating if any, render invert and sides with 15 mm cement and sand (1:3) and including hacking existing concrete of similar grade to floor below scupper drain, making good surrounds, form-work and clearing debris off site.	m	43.50
Con.37	Form 150 mm wide scupper drain in existing concrete floor, made to correct line and falls and form rebate to receive grating if any, render invert and sides with 15 mm cement and sand (1:3) and including hacking existing concrete of similar grade to floor below scupper drain, making good surrounds, form-work and clearing debris off site.	m	45.00
Con.38	Form 250 mm wide scupper drain in existing concrete floor, made to correct line and falls and form rebate to receive grating if any, render invert and sides with 15 mm cement and sand (1:3) and including hacking existing concrete of similar grade to floor below scupper drain, making good surrounds, form-work and clearing debris off site.	m	51.00
Con.39	Concrete (Grade 25) in curbs etc. irrespective of size in new or existing work including hacking, formwork, angles, ends, intersections, jointing to existing and removing debris per 1,000 sq. mm sectional area. Rate is for every 1,000 sq. mm in sectional area eg. 75 mm x 100 mm curb = 7,500 sq. mm in sectional area. Therefore rate is \$11.25 per lin. metre i.e. (7500 x 1.50)/1000.	m	3.25
Con.40	Concrete (Grade 25) in curbs rendered on both sides and top with 15 mm cement and sand rendering, (irrespective of size) in new or existing work including hacking, formwork, angles, ends, intersections, jointing to existing and removing debris per 1,000 sq mm in sectional area. Rate is for every 1,000 sq. mm in sectional area eg. 75 mm x 100 mm curb = 7,500 sq. mm in sectional area. Therefore rate is \$15.00 per lin. metre ie. (7500 x 2.00)/1000.	m	5.20
Con.41	Precast concrete (grade 20) in new or existing work with all exposed faces finished fair, bedded, jointed and pointed in cement mortar (1:3) or with edges bedded and pointed in putty or mastic including making good, removing debris, all necessary moulds, transporting, handling and fixing in posts, bollards, blocks, lintels, copings, cills, steps, strings, railings etc. irrespective of size including all temporary support and hoisting up to 3 m above ground level.	cu m	990.00
Con.42	Extra over above for each additional 1.50 m of hoisting.	cu m	30.00
Con.43	Precast concrete (grade 20) in new or existing work with all exposed faces finished fair, bedded, jointed and pointed in cement mortar (1:3) or with edges bedded and pointed in putty or mastic including making good, removing debris, all necessary moulds, transporting, handling and fixing in 60 mm thick louvered vents including spacer block.	sq m	288.00
Con.44	Precast concrete (grade 20) in new or existing work with all exposed faces finished fair, bedded, jointed and pointed in cement mortar (1:3) or with edges bedded and pointed in putty or mastic including making good, removing debris, all necessary moulds, transporting, handling and fixing in 50mm thick slabs over drains, sumps, septic tanks, etc complete with recesses, rebates, grooves, holes, hand-holds, mild steel flush lifting rings, etc. and reinforced with and including approved fabric reinforcement and top surface rendered smooth to falls.	sq m	38.34
Con.45	Add for each additional stage of 15 mm in thickness.	sq m	7.50
Con.46	Deduct for each additional stage of 15 mm in thickness.	sq m	7.50



S/No	Description	Unit	Unit Cost (\$)
Con.47	Precast concrete (grade 20) in new or existing work with all exposed faces finished fair, bedded, jointed and pointed in cement mortar (1:3) or with edges bedded and pointed in putty or mastic including making good, removing debris, all necessary moulds, transporting, handling and fixing in 50 mm thick slab for footpath, paving or apron slabs in suitable sizes.	sq m	63.00
Con.48	Add for each additional stage of 15 mm in thickness.	sq m	5.25
Con.49	Deduct for each additional stage of 15 mm in thickness.	sq m	5.25
Con.50	Supply and lay approved 120 mm thick precast concrete slabs, of any pattern laid to any pattern and fill all voids with top soil and turf including excavation and trimming to formation and removing surplus excavated materials off site (sand bed measured separately).	sq m	108.00
Con.51	Supply and lay approved 115 mm thick precast concrete slabs, of any pattern laid to any pattern and fill all voids with top soil and turf including excavation and trimming to formation and removing surplus excavated materials off site (sand bed measured separately).	sq m	99.00
Con.52	Supply and lay approved 100 mm thick precast concrete slabs, of any pattern laid to any pattern and fill all voids with top soil and turf including excavation and trimming to formation and removing surplus excavated materials off site (sand bed measured separately).	sq m	86.40
Con.53	Supply and lay approved 75 mm thick precast concrete slabs, of any pattern laid to any pattern and fill all voids with top soil and turf including excavation and trimming to formation and removing surplus excavated materials off site (sand bed measured separately).	sq m	75.60
Con.54	Supply and lay approved 65 mm thick precast concrete slabs, of any pattern laid to any pattern and fill all voids with top soil and turf including excavation and trimming to formation and removing surplus excavated materials off site (sand bed measured separately).	sq m	64.80
Con.55	Select from stack and lay aeration precast concrete slab including filling all voids with top soil and turf, excavating to formation, trimming and removing surplus excavated material off site.	sq m	4.10
Con.56	Take out existing precast slab and remove off site.	sq m	2.90
Con.57	Take out existing precast slab, stack up for re-use and remove damaged pieces off site.	sq m	3.45
Con.58	Select from stack and lay only precast slab including jointing in cement mortar(1:3) (new slabs measured separately).	sq m	5.00
Con.59	Hack out damaged pointing and repoint in cement mortar to existing precast slabs and pavements not exceeding 63 mm thick irrespective of widths of gaps between slabs and pavements.	m	3.75
Con.60	Type C1, Composite precast concrete (Grade 20) channel drain as per drawing shown in Appendix 4 laid to falls as directed on and including 75 mm thick sand bed, with joints grouted in cement mortar (1:3) not more than 20 mm thick including all necessary excavation, trimming, disposal of surplus excavated materials, backfilling, etc.	m	14.40
Con.61	Type C2, Composite precast concrete (Grade 20) channel drain as per drawing shown in Appendix 4 laid to falls as directed on and including 75 mm thick sand bed, with joints grouted in cement mortar (1:3) not more than 20 mm thick including all necessary excavation, trimming, disposal of surplus excavated materials, backfilling, etc.	m	27.00

S/No	Description	Unit	Unit Cost (\$)
Con.62	Type C3, Composite precast concrete (Grade 20) channel drain as per drawing shown in Appendix 4 laid to falls as directed on and including 75 mm thick sand bed, with joints grouted in cement mortar (1:3) not more than 20 mm thick including all necessary excavation, trimming, disposal of surplus excavated materials, backfilling, etc.	m	34.20
Con.63	Type C6, Composite precast concrete (Grade 20) channel drain as per drawing shown in Appendix 4 laid to falls as directed on and including 75 mm thick sand bed, with joints grouted in cement mortar (1:3) not more than 20 mm thick including all necessary excavation, trimming, disposal of surplus excavated materials, backfilling, etc.	m	48.60
Con.64	Type C7, Composite precast concrete (Grade 20) channel drain as per drawing shown in Appendix 4 laid to falls as directed on and including 75 mm thick sand bed, with joints grouted in cement mortar (1:3) not more than 20 mm thick including all necessary excavation, trimming, disposal of surplus excavated materials, backfilling, etc.	m	63.00
Con.65	Type C7A, Composite precast concrete (Grade 20) channel drain as per drawing shown in Appendix 4 laid to falls as directed on and including 75 mm thick sand bed, with joints grouted in cement mortar (1:3) not more than 20 mm thick including all necessary excavation, trimming, disposal of surplus excavated materials, backfilling, etc.	m	59.40
Con.66	Type C8A, Composite precast concrete (Grade 20) channel drain as per drawing shown in Appendix 4 laid to falls as directed on and including 75 mm thick sand bed, with joints grouted in cement mortar (1:3) not more than 20 mm thick including all necessary excavation, trimming, disposal of surplus excavated materials, backfilling, etc.	m	136.80
Con.67	Type C8B, Composite precast concrete (Grade 20) channel drain as per drawing shown in Appendix 4 laid to falls as directed on and including 75 mm thick sand bed, with joints grouted in cement mortar (1:3) not more than 20 mm thick including all necessary excavation, trimming, disposal of surplus excavated materials, backfilling, etc.	m	144.00
Con.68	Type C4, Composite precast concrete (Grade 20) channel drain as per drawing shown in Appendix 5 laid to falls as directed on and including 75 mm thick sand bed, with joints grouted in cement mortar (1:3) not more than 20 mm thick including all necessary excavation, trimming, disposal of surplus excavated materials, backfilling, etc.	m	28.80
Con.69	Type C5, Composite precast concrete (Grade 20) channel drain as per drawing shown in Appendix 5 laid to falls as directed on and including 75 mm thick sand bed, with joints grouted in cement mortar (1:3) not more than 20 mm thick including all necessary excavation, trimming, disposal of surplus excavated materials, backfilling, etc.	m	34.20
Con.70	Type C7B, Composite precast concrete (Grade 20) channel drain as per drawing shown in Appendix 4 laid to falls as directed on and including 75 mm thick sand bed, with joints grouted in cement mortar (1:3) not more than 20 mm thick including all necessary excavation, trimming, disposal of surplus excavated materials, backfilling, etc.	m	52.20
Con.71	Type B1, Composite precast concrete (Grade 20) channel drain as per drawing shown in Appendix 4 laid to falls as directed on and including 75 mm thick sand bed, with joints grouted in cement mortar (1:3) not more than 20 mm thick including all necessary excavation, trimming, disposal of surplus excavated materials, backfilling, etc.	m	55.80

S/No	Description	Unit	Unit Cost (\$)
Con.72	Type B2, Composite precast concrete (Grade 20) channel drain as per drawing shown in Appendix 4 laid to falls as directed on and including 75 mm thick sand bed, with joints grouted in cement mortar (1:3) not more than 20 mm thick including all necessary excavation, trimming, disposal of surplus excavated materials, backfilling, etc.	m	63.00
Con.73	Type B3, Composite precast concrete (Grade 20) channel drain as per drawing shown in Appendix 4 laid to falls as directed on and including 75 mm thick sand bed, with joints grouted in cement mortar (1:3) not more than 20 mm thick including all necessary excavation, trimming, disposal of surplus excavated materials, backfilling, etc.	m	153.00
Con.74	Type S1 scupper drain and pipe laid to even falls and jointed in cement and sand (1:3) mortar.	m	41.60
Con.75	Scupper drain and 230 mm diameter concrete pipe laid to even falls and jointed in cement and sand (1:3) mortar.	m	43.20
Con.76	Scupper drain and 300 mm diameter concrete pipe laid to even falls and jointed in cement and sand (1:3) mortar.	m	54.00
Con.77	Scupper drain and 250 mm diameter class AW" heavy duty PVC pipe laid to even falls and "jointed in cement and sand (1:3) mortar.	m	86.40
Con.78	Take out precast concrete surface water channel (any width and type) , trim earth to fall, remove debris off site; join up with cement mortar and temporarily divert drains as necessary and make good (rate not inclusive of new sand bed & channels).	m	7.50
Con.79	Extra over precast concrete surface water channel (any width) for forming cascade not exceeding 150 mm drop.	no	6.75
Con.80	Extra over precast concrete surface water channel (any width) for forming cascade exceeding 150 mm but not exceeding 300 mm drop.	no	13.50
Con.81	Precast concrete(grade 20) of 125 mm x 300 mm size Type K7/K7A in roadside kerbs and dividers as shown in the appendix 6 & 7 herein including all necessary excavation, removal of surplus excavated material, backfilling, laying, bedding, jointing and pointing in cement mortar (1:3) (concrete base measured separately).	m	24.66
Con.82	Precast concrete(grade 20) of 150 mm x 300 mm size Type D2 in roadside kerbs and dividers as shown in the appendix 6 & 7 herein including all necessary excavation, removal of surplus excavated material, backfilling, laying, bedding, jointing and pointing in cement mortar (1:3) (concrete base measured separately).	m	24.12
Con.83	Precast concrete(grade 20) of 200 mm x 380 mm size Type D4 in roadside kerbs and dividers as shown in the appendix 6 & 7 herein including all necessary excavation, removal of surplus excavated material, backfilling, laying, bedding, jointing and pointing in cement mortar (1:3) (concrete base measured separately).	m	43.02
Con.84	Extra over for 125 mm x 300 mm x 900 mm long kerb with scupper mouth.	no	2.40
Con.85	Take out and stack on site for reuse precast concrete kerbs (any size) and remove debris off site.	m	4.95
Con.86	Select from stack, lay and join divider/kerb in cement and sand (1:3) mortar.	m	6.75
Con.87	Take out existing precast concrete kerbs & remove off site.	m	3.75
Con.88	Precast concrete (Grade 20) lintel finished fair on all exposed surfaces, Size 115 x 150 mm high and reinforced with one 10 mm diameter mild steel bar.	m	19.62
Con.89	Precast concrete (Grade 20) lintel finished fair on all exposed surfaces, Size 115 x 225 mm high and reinforced with one 13 mm diameter mild steel bar.	m	25.20
Con.90	Precast concrete (Grade 20) lintel finished fair on all exposed surfaces, Size 225 x 150 mm high and reinforced with two 10 mm diameter mild steel bar.	m	30.60

S/No	Description	Unit	Unit Cost (\$)
Con.91	Precast concrete (Grade 20) lintel finished fair on all exposed surfaces, Size 225 x 225 mm high and reinforced with two 13 mm diameter mild steel bar.	m	37.62
Con.92	Timber formwork to plane surface in-situ concrete including strutting not exceeding 3.50m high.	sq m	40.50
Con.93	Timber formwork to curved surface in-situ concrete including strutting not exceeding 3.50m high.	sq m	45.00
Con.94	Timber formwork to plane surface to produce true and even concrete face in-situ concrete including strutting not exceeding 3.50m high.	sq m	42.00
Con.95	Timber formwork to curved surface to produce true and even concrete face in-situ concrete including strutting not exceeding 3.50m high.	sq m	49.50
Con.96	Extra over formwork for strutting exceeding 3.50 m high for each 1.50 m high.	sq m	4.50
Con.97	6 mm to 16 mm diameter mild steel rods in foundations, beams, slabs, stairs, canopies, etc including all labour forming stirup, links, spacer blocks etc to comply with SS18.	kg	2.25
Con.98	Over 16 mm diameter mild steel rods in foundations, beams, slabs, stairs, canopies, etc including all labour forming stirup, links, spacer blocks etc to comply with SS18.	kg	2.10
Con.99	9 mm to 16 mm diameter deformed high tensile steel rod in foundations, beams, slabs, stairs, canopies, etc including all labour forming stirups, links, spacer blocks etc to comply with SS2.	kg	2.25
Con.100	20 mm to 25 mm diameter deformed high tensile steel rod in foundations, beams, slabs, stairs, canopies, etc including all labour forming stirups, links, spacer blocks etc to comply with SS2.	kg	2.10
Con.101	Over 28 mm diameter deformed high tensile steel rod in foundations, beams, slabs, stairs, canopies, etc including all labour forming stirups, links, spacer blocks etc to comply with SS2.	kg	2.25
Con.102	200 x 200 mm x 1.54 kg/sq m approved fabric reinforcement to SS 32:1986 well lapped and tied at joints (Type A5).	sq m	4.20
Con.103	200 x 200 mm x 2.22 kg/sq m approved fabric reinforcement to SS 32:1986 well lapped and tied at joints (Type A6).	sq m	7.20
Con.104	200 x 200 mm x 3.02 kg/sq m approved fabric reinforcement to SS 32:1986 well lapped and tied at joints (Type A7).	sq m	7.50
Con.105	200 x 200 mm x 3.95 kg/sq m approved fabric reinforcement to SS 32:1986 well lapped and tied at joints (Type A8).	sq m	9.00
Con.106	200 x 200 mm x 4.99 kg/sq m approved fabric reinforcement to SS 32:1986 well lapped and tied at joints (Type A9).	sq m	12.00
Con.107	200 x 200 mm x 6.16 kg/sq m approved fabric reinforcement to SS 32:1986 well lapped and tied at joints (Type A10).	sq m	13.50
Con.108	100 x 400 mm x 2.61 kg/sq m approved fabric reinforcement to SS 32:1986 well lapped and tied at joints (Type C6).	sq m	7.50
Con.109	100 x 400 mm x 3.41 kg/sq m approved fabric reinforcement to SS 32:1986 well lapped and tied at joints (Type C7).	sq m	9.15
Con.110	100 x 400 mm x 4.34 kg/sq m approved fabric reinforcement to SS 32:1986 well lapped and tied at joints (Type C8).	sq m	10.50
Con.111	100 x 400 mm x 5.55 kg/sq m approved fabric reinforcement to SS 32:1986 well lapped and tied at joints (Type C9).	sq m	12.75
Con.112	100 x 400 mm x 6.72 kg/sq m approved fabric reinforcement to SS 32:1986 well lapped and tied at joints (Type C10).	sq m	15.00
Con.113	100 x 400 mm x 8.44 kg/sq m approved fabric reinforcement to SS 32:1986 well lapped and tied at joints (Type C11).	sq m	18.00

S/No	Description	Unit	Unit Cost (\$)
Con.114	100 x 400 mm x 9.87 kg/sq m approved fabric reinforcement to SS 32:1986 well lapped and tied at joints (Type C12).	sq m	21.00
Con.115	100 x 200 mm x 3.05 kg/sq m approved fabric reinforcement to SS 32:1986 well lapped and tied at joints (Type B5).	sq m	8.25
Con.116	100 x 200 mm x 3.73 kg/sq m approved fabric reinforcement to SS 32:1986 well lapped and tied at joints (Type B6).	sq m	9.00
Con.117	100 x 200 mm x 4.53 kg/sq m approved fabric reinforcement to SS 32:1986 well lapped and tied at joints (Type B7).	sq m	10.20
Con.118	100 x 200 mm x 5.93 kg/sq m approved fabric reinforcement to SS 32:1986 well lapped and tied at joints (Type B8).	sq m	13.05
Con.119	100 x 200 mm x 6.97 kg/sq m approved fabric reinforcement to SS 32:1986 well lapped and tied at joints (Type B9).	sq m	15.00
Con.120	100 x 200 mm x 8.14 kg/sq m approved fabric reinforcement to SS 32:1986 well lapped and tied at joints (Type B10).	sq m	18.00
Con.121	100 x 200 mm x 9.43 kg/sq m approved fabric reinforcement to SS 32:1986 well lapped and tied at joints (Type B11).	sq m	20.40
Con.122	100 x 200 mm x 10.90 kg/sq m approved fabric reinforcement to SS 32:1986 well lapped and tied at joints (Type B12).	sq m	24.30
Con.123	100 x 100 mm x 4.44 kg/sq m approved fabric reinforcement to SS 32:1986 well lapped and tied at joints (Type D6).	sq m	10.50
Con.124	100 x 100 mm x 6.04 kg/sq m approved fabric reinforcement to SS 32:1986 well lapped and tied at joints (Type D7).	sq m	13.50
Con.125	100 x 100 mm x 7.90 kg/sq m approved fabric reinforcement to SS 32:1986 well lapped and tied at joints (Type D8).	sq m	16.95
Con.126	100 x 100 mm x 9.98 kg/sq m approved fabric reinforcement to SS 32:1986 well lapped and tied at joints (Type D9).	sq m	21.45
Con.127	100 x 100 mm x 12.32 kg/sq m approved fabric reinforcement to SS 32:1986 well lapped and tied at joints (Type D10).	sq m	26.40
Con.128	100 x 100 mm x 14.91 kg/sq m approved fabric reinforcement to SS 32:1986 well lapped and tied at joints (Type D11).	sq m	31.50
Con.129	Mass or lightly reinforced (i.e. one layer of mesh reinforcement) concrete work such as slabs, aprons, steps, cooking bases, curbs etc. removing debris off site and making good works disturbed to match with existing OR breaking up the concrete into smaller pieces to form hardcore bed, cutting and removing reinforcement where necessary, providing sand, granite dust top blinding, leveling and mechanically consolidating, removing debris off site and making good works disturbed.	cu m	165.00
Con.130	Break up reinforced concrete columns, suspended beams, slabs and canopies, etc. including cutting reinforcement and removing debris off site and making good works disturbed to match with existing.	cu m	195.00
Con.131	Cutting of concrete pavement using powered diamond cutter to achieve a straight edge up to 150 mm deep.	m	9.00
Con.132	Cut through reinforced concrete floors or walls (any thickness) to form opening not exceeding 0.02cu m including making good, cutting reinforcement and removing debris off site.	no	12.00
Con.133	Cut through reinforced concrete floors or walls (any thickness) to form opening exceeding 0.02cu m and not exceeding 0.05cu m including making good, cutting reinforcement and removing debris off site.	no	24.00
Con.134	Cut through reinforced concrete floors or walls (any thickness) to form opening exceeding 0.05cu m and not exceeding 0.10cu m including making good, cutting reinforcement and removing debris off site.	no	45.00

S/No	Description	Unit	Unit Cost (\$)
Con.135	Cut through reinforced concrete floors or walls (any thickness) to form opening exceeding 0.10cu m and not exceeding 0.20cu m including making good, cutting reinforcement and removing debris off site.	no	67.50
Con.136	Cut through reinforced concrete floors or walls (any thickness) to form opening exceeding 0.20cu m including making good, cutting reinforcement and removing debris off site.	no	240.00
Con.137	Hot bitumen or mastic filling in 15 mm wide x 25 mm deep groove to form expansion joint and filling with weak cement mortar where necessary.	m	3.00
Con.138	Add for 15 mm in depth to form expansion joint.	m	0.60
Con.139	Deduct for 15 mm in depth to form expansion joint.	m	0.60
Con.140	Supply & apply polyurethane sealants 25 mm wide x 15 mm deep to joints including an expansion joint backing material.	m	20.55
Con.141	Supply & apply polyurethane sealants 25 mm wide x 25 mm deep to joints including an expansion joint backing material.	m	33.60
Con.142	Supply & apply polyurethane sealants 50 mm wide x 25 mm deep to joints including an expansion joint backing material.	m	64.35
Con.143	Supply & apply polyurethane sealants 100 mm wide x 15 mm deep to joints including an expansion joint backing material.	m	78.75
Con.144	Supply and fix bitumen impregnated fibre board expansion joint filler to 10 mm thick x 75 mm high joints.	m	2.25
Con.145	Supply and fix bitumen impregnated fibre board expansion joint filler to 13 mm thick x 75 mm high joints.	m	2.40
Con.146	Supply and fix bitumen impregnated fibre board expansion joint filler to 20 mm thick x 75 mm high joints.	m	4.05
Con.147	Supply and fix bitumen impregnated fibre board expansion joint filler to 25 mm thick x 75 mm high joints.	m	4.50
Con.148	Add for every stage of 25mm in width for 10 mm thick	m	0.75
Con.149	Deduct for every stage of 25mm in width for 10 mm thick	m	0.75
Con.150	Add for every stage of 25mm in width for 13 mm thick	m	0.80
Con.151	Deduct for every stage of 25mm in width for 13 mm thick	m	0.80
Con.152	Add for every stage of 25mm in width for 20 mm thick	m	1.35
Con.153	Deduct for every stage of 25mm in width for 20 mm thick	m	1.35
Con.154	Add for every stage of 25mm in width for 25 mm thick	m	1.50
Con.155	Deduct for every stage of 25mm in width for 25 mm thick	m	1.50
Con.156	Supply and apply silicone sealants including 25 mm diameter polyurethane foam rod to 25 mm x 15 mm joints all to manufacturer's instructions.	m	16.50
Con.157	Supply and apply silicone sealants including 25 mm diameter polyurethane foam rod to 25 mm x 25 mm joints all to manufacturer's instructions.	m	27.00
Con.158	Supply and apply silicone sealants to 6 mm x 6 mm joints without foam rod all to manufacturer's instructions.	m	3.45
Con.159	Supply and apply silicone sealants to 8 mm x 8 mm joints without foam rod all to manufacturer's instructions.	m	6.90
Con.160	Supply and apply silicone sealants to 25 mm x 15 mm joints without foam rod all to manufacturer's instructions.	m	9.90
Con.161	Supply and apply silicone sealants to 25 mm x 25 mm joints without foam rod all to manufacturer's instructions.	m	15.00
Con.162	Remove existing filling in groove not exceeding 50 mm x 50 mm deep, clean & prepare to receive new work.	m	1.95
Con.163	10 mm diameter closed cell polyethylene foam in circular section cords as bond breaking strip fixed into joint.	m	2.25
Con.164	12 mm diameter closed cell polyethylene foam in circular section cords as bond breaking strip fixed into joint.	m	3.00

S/No	Description	Unit	Unit Cost (\$)
Con.165	15 mm diameter closed cell polyethylene foam in circular section cords as bond breaking strip fixed into joint.	m	3.75
Con.166	25 mm diameter closed cell polyethylene foam in circular section cords as bond breaking strip fixed into joint.	m	4.20
Con.167	6 mm diameter x 450 mm long mild steel bonding tie with one end cast into concrete and hooked around reinforcement and joints of brickwork including forming perforations in formwork.	no	0.45
Con.168	Precast concrete Grade 20 heelstone 150 mm high to suit section of door frame and including 13 mm diameter mild steel dowel 100 mm long.	no	10.40
Con.169	Precast concrete Grade 25 heelstone 150 mm high to suit section of door frame and including 13 mm diameter mild steel dowel 100 mm long.	no	10.80
Con.170	Supply labour, materials, tools & equipments to construct heelstone to existing metal door frame with cement and sand to follow the profile of existing frame including taking down existing door panel, cutting of existing metal frame and apply anti-rust paint to the cut portion, painting to existing metal door frame with one primer coat and two finishing coats, and all necessary reinstatement works.	no	57.50
Con.171	Patch up opening for pipe/conduit not exceeding 100 mm diameter with water-proofed cement and sand mortar(1:3) in wall/floor not exceeding 225 mm thick including use of waterproof cement additive and making good to match existing.	no	11.50
Con.172	Patch up opening for pipe/conduit not exceeding 100 mm diameter with water-proofed cement and sand mortar(1:3) in wall/floor exceeding 225 mm thick including use of waterproof cement additive and making good to match existing.	no	15.80
Con.173	Patch up opening for pipe/conduit exceeding 100 mm diameter with water-proofed cement and sand mortar(1:3) in wall/floor not exceeding 225 mm thick including use of waterproof cement additive and making good to match existing.	no	13.00
Con.174	Patch up opening for pipe/conduit exceeding 100 mm diameter with water-proofed cement and sand mortar(1:3) in wall/floor exceeding 225 mm thick including use of waterproof cement additive and making good to match existing.	no	23.80
Con.175	One layer of heavy duty (Basis weight:527 g/sq m ) approved building paper laid under concrete slab and lapped 150 mm at joints.(Measured net. No allowance made for laps.).	sq m	7.90
Con.176	One layer of heavy duty (Basis weight:280 g/sq m) approved building paper laid under concrete slab and lapped 150 mm at joints. (Measured net. No allowance made for laps.).	sq m	4.10
Con.177	Supply and fix 200 mm wide UPVC water stop embedded in concrete.	m	34.50
Con.178	Supply and fix 230 mm wide UPVC water stop embedded in concrete.	m	39.00
Con.179	Supply and fix 150 mm width Combiflex Hypalon sealing strip, 1.5 mm thick, including preparation of surface and adhesive, or equivalent to construction joints.	m	41.30
Con.180	Supply and fix 200 mm width Combiflex Hypalon sealing strip, 1.5 mm thick, including preparation of surface and adhesive, or equivalent to construction joints.	m	75.00
Con.181	Supply and fix 300 mm width Combiflex Hypalon sealing strip, 1.5 mm thick, including preparation of surface and adhesive, or equivalent to construction joints.	m	112.50
Con.182	Supply and fix 150 mm width Combiflex Hypalon sealing strip, 2.00 mm thick, including preparation of surface and adhesive or equivalent, to construction joints.	m	71.30

S/No	Description	Unit	Unit Cost (\$)
Con.183	Supply and fix 200 mm width Combiflex Hypalon sealing strip, 2.00 mm thick, including preparation of surface and adhesive or equivalent, to construction joints.	m	90.00
Con.184	Supply and fix 300 mm width Combiflex Hypalon sealing strip, 2.00 mm thick, including preparation of surface and adhesive or equivalent, to construction joints.	m	127.50
Con.185	Cut out crack to form V-shape groove (minimum 25 mm x 25 mm), clean and prepare surface and pressure grout the crack with approved grouting materials with sufficient adhesive, compressive and tensile strength including provision for mobilization, grout pipe, fine wiremesh, pressure grouting pump, tools, all accessories, scaffolding and hacking and making good plastered or tiled finishes if any. Apply two coats of water and weather resistant protective/decorative coating as carbonation barrier all in accordance to grouting specialist's recommendation. Non-shrink cementitious grouting, on concrete floor, columns, vertical side of beam and the like (minimum one (1) metre total length within the building and per call).	m	75.00
Con.186	Cut out crack to form V-shape groove (minimum 25 mm x 25 mm), clean and prepare surface and pressure grout the crack with approved grouting materials with sufficient adhesive, compressive and tensile strength including provision for mobilization, grout pipe, fine wiremesh, pressure grouting pump, tools, all accessories, scaffolding and hacking and making good plastered or tiled finishes if any. Apply two coats of water and weather resistant protective/decorative coating as carbonation barrier all in accordance to grouting specialist's recommendation. Non-shrink cementitious grouting, in soffit of concrete slab, canopy, beam and the like (minimum one (1) metre total length within the building and per call).	m	90.00
Con.187	Cut out crack to form V-shape groove (minimum 25 mm x 25 mm), clean and prepare surface and pressure grout the crack with approved grouting materials with sufficient adhesive, compressive and tensile strength including provision for mobilization, grout pipe, fine wiremesh, pressure grouting pump, tools, all accessories, scaffolding and hacking and making good plastered or tiled finishes if any. Apply two coats of water and weather resistant protective/decorative coating as carbonation barrier all in accordance to grouting specialist's recommendation. Non-shrink cementitious grouting, in brick structure (minimum one (1) metre total length within the building and per call).	m	60.00
Con.188	Flexin" resin grouting (minimum one (1) metre total length within the building and per call). "	m	195.00
Con.189	Epoxy resin grouting on concrete floor, column, vertical side beam and the like (minimum one (1) metre total length within the building and per call).	m	60.00
Con.190	Epoxy resin grouting in soffit of concrete slab, canopy, beam and the like (minimum one (1) metre total length within the building and per call).	m	75.00
Con.191	Epoxy resin grouting around floor trap, rainwater down pipe, water pipe for various sizes (rate is for maximum of two (2) groute points).	no	150.00
Con.192	Cut out crack to form v-shape groove (25 mm x 25 mm) and form undercut in soffit of concrete slab, canopy, beam and the like. Clean and prepare surface of groove by using compressed air or wire brush. Prime all surfaces with a bonding agent and patch up groove with approved non-shrink cementitious mortar including fine wire mesh if necessary and making good affected areas with materials to match existing (minimum two (2) metres total length within the building and per call).	m	9.80



S/No	Description	Unit	Unit Cost (\$)
Con.193	Cut out crack to form v-shape groove (25 mm x 25 mm) and form undercut in vertical surfaces of concrete wall, columns, beams and the like. Clean and prepare surface of groove by using compressed air or wire brush. Prime all surfaces with a bonding agent and patch up groove with approved non-shrink cementitious mortar including fine wire mesh if necessary and making good affected areas with materials to match existing (minimum two (2) metres total length within the building and per call).	m	6.80
Con.194	Cut out crack to form v-shape groove (25 mm x 25 mm) and form undercut in brick structure. Clean and prepare surface of groove by using compressed air or wire brush. Prime all surfaces with a bonding agent and patch up groove with approved non-shrink cementitious mortar including fine wire mesh if necessary and making good affected areas with materials to match existing (minimum two (2) metres total length within the building and per call).	m	5.30
Con.195	Thoroughly remove spalled or loose concrete in patches in soffit of concrete slab, canopy, beam and the like until good concrete is reached. Thoroughly brush and clean all surfaces of concrete by using compressed air or chemicals. Prime all concrete surfaces with a bonding agent and patch up with approved non-shrink cementitious grout with sufficient adhesive, compressive and tensile strength including provisions for mobilization, grout pipe, fine wire mesh, pressure grouting pump, tools, all accessories, scaffolding and hacking and making good plaster or tiled finishes if any. Apply two coats of water and weather resistant protective/decorative coating as carbonation barrier all in accordance to grouting specialist's recommendation. Thickness of spalled or loose concrete not exceeding 30 mm thick (minimum one (1)sq m within the building and per call).	sq m	270.00
Con.196	Thoroughly remove spalled or loose concrete in patches in vertical surfaces of columns, walls and the like until good concrete is reached. Thoroughly brush and clean all surfaces of concrete by using compressed air or chemicals. Prime all concrete surfaces with a bonding agent and patch up with approved non-shrink cementitious grout with sufficient adhesive, compressive and tensile strength including provisions for mobilization, grout pipe, fine wire mesh, pressure grouting pump, tools, all accessories, scaffolding and hacking and making good plaster or tiled finishes if any. Apply two coats of water and weather resistant protective/decorative coating as carbonation barrier all in accordance to grouting specialist's recommendation. spalled or loose concrete not exceeding 30 mm thick (minimum one (1)sq m within the building and per call).	sq m	345.00
Con.197	Hack off spalled or loose concrete in patches until rusty reinforcement and good concrete is reached. Thoroughly brush rusty reinforcement to remove rust and scale, clean all surfaces of concrete and reinforcement by using wire brush and compressed air or chemicals. Prime all exposed reinforcement with approved rust and corrosion inhibitive primer. Apply a layer of approved bonding agent to concrete and reinforcement. Construct formwork props if necessary and patch up with approved grouting materials with sufficient adhesive, compressive and tensile strength including provision for mobilization, grout pipe, fine wire mesh, pressure grouting pump, tools, all accessories, scaffolding and hacking and making good plaster or tiled finishes if any, all in accordance to grouting specialist's recommendation. Remove formwork including props if any (minimum half (1/2)sq m within the complex and per call) inclusive of repair of all cracks by means of Flexin or equivalent injections. Non-shrink cementitious grouting in soffit of concrete slab, canopy, beam and the like.	sq m	660.00

S/No	Description	Unit	Unit Cost (\$)
Con.198	Hack off spalled or loose concrete in patches until rusty reinforcement and good concrete is reached. Thoroughly brush rusty reinforcement to remove rust and scale, clean all surfaces of concrete and reinforcement by using wire brush and compressed air or chemicals. Prime all exposed reinforcement with approved rust and corrosion inhibitive primer. Apply a layer of approved bonding agent to concrete and reinforcement. Construct formwork props if necessary and patch up with approved grouting materials with sufficient adhesive, compressive and tensile strength including provision for mobilization, grout pipe, fine wire mesh, pressure grouting pump, tools, all accessories, scaffolding and hacking and making good plaster or tiled finishes if any, all in accordance to grouting specialist's recommendation. Remove formwork including props if any (minimum half (1/2)sq m within the complex and per call) inclusive of repair of all cracks by means of Flexin or equivalent injections. Non-shrink cementitious grouting on concrete slab and in vertical surfaces of column and the like.	sq m	450.00
Con.199	Hack off spalled or loose concrete in patches until rusty reinforcement & good concrete is reached. Thoroughly brush rusty reinforcement to remove rust and scale, clean all surfaces of concrete & reinforcement by using wire brush & compressed air or chemicals. Prime exposed reinforcement with approved rust & corrosion inhibitive primer. Apply a layer of approved bonding agent to concrete & reinforcement. Construct formwork props & patch up with approved grouting materials with sufficient adhesive, compressive & tensile strength including provision for mobilization, grout pipe, fine wire mesh, pressure grouting pump, tools, all accessories, scaffolding & hacking & making good plaster or tiled finishes, accordance to grouting specialist's recommendation. Remove formwork including props (minimum half (1/2)sq m within complex & per call) inclusive of repair of all cracks by means of Flexin or equivalent injections. Epoxy resin grouting in soffit of concrete slabs, canopy, beam & the like.	sq m	1200.00
Con.200	Hack off spalled or loose concrete in patches until rusty reinforcement and good concrete is reached. Thoroughly brush rusty reinforcement to remove rust and scale, clean all surfaces of concrete and reinforcement by using wire brush and compressed air or chemicals. Prime all exposed reinforcement with approved rust and corrosion inhibitive primer. Apply a layer of approved bonding agent to concrete and reinforcement. Construct formwork props if necessary and patch up with approved grouting materials with sufficient adhesive, compressive and tensile strength including provision for mobilization, grout pipe, fine wire mesh, pressure grouting pump, tools, all accessories, scaffolding and hacking and making good plaster or tiled finishes if any, all in accordance to grouting specialist's recommendation. Remove formwork including props if any (minimum half (1/2)sq m within the complex and per call) inclusive of repair of all cracks by means of Flexin or equivalent injections. Epoxy resin grouting on concrete slab and in vertical surfaces of column and the like.	sq m	780.00

S/No	Description	Unit	Unit Cost (\$)
Con.201	Hack off spalled or loose concrete in patches until rusty reinforcement and good concrete is reached. Thoroughly brush rusty reinforcement to remove rust and scale, clean all surfaces of concrete and reinforcement by using wire brush and compressed air or surfaces of concrete and reinforcement by using wire brush and compressed air or chemicals. Prime all exposed reinforcement with approved rust and corrosion inhibitive primer. Apply a layer of approved bonding agent to concrete and reinforcement and patch up with approved non-shrink cementitious mortar to soffit of concrete slab or beam, including fine wire mesh, making good affected surfaces with matching materials, formwork, props, etc. all in accordance to manufacturer's instructions. Thickness spalled or loose concrete not exceeding 30 mm thick (minimum one (1)sq m within the building and per call).	sq m	330.00
Con.202	Hack off spalled or loose concrete in patches until rusty reinforcement and good concrete is reached. Thoroughly brush rusty reinforcement to remove rust and scale, clean all surfaces of concrete and reinforcement by using wire brush and compressed air or surfaces of concrete and reinforcement by using wire brush and compressed air or chemicals. Prime all exposed reinforcement with approved rust and corrosion inhibitive primer. Apply a layer of approved bonding agent to concrete and reinforcement and patch up with approved non-shrink cementitious mortar to soffit of concrete slab or beam, including fine wire mesh, making good affected surfaces with matching materials, formwork, props, etc. all in accordance to manufacturer's instructions. Thickness spalled or loose concrete not exceeding 30 mm thick in vertical surfaces of walls, column and the like (minimum one (1)sq m within the building and per call).	sq m	293.00
Con.203	Break up damaged half-round precast drain channels and relay 150 mm diameter new channels in cement mortar (1:3) to falls including making good sides of channels and removing debris to ENV's dumping ground.	m	15.00
Con.204	Break up damaged half-round precast drain channels and relay 225 mm diameter new channels in cement mortar (1:3) to falls including making good sides of channels and removing debris to ENV's dumping ground.	m	16.50
Con.205	Break up damaged half-round precast drain channels and relay 300 mm diameter new channels in cement mortar (1:3) to falls including making good sides of channels and removing debris to ENV's dumping ground.	m	19.50
Con.206	Labour and material re-rendering exposed surfaces of existing 150 mm to 300 mm wide concrete surface water channel of any depth and bottom finished to falls.	m	12.60
Con.207	Repair to 150 mm to 300 mm wide concrete surface water channel of any depth including breaking damaged or cracked portions and/ or patching up with concrete to match existing and re-rendering drains to proper falls in cement and sand mortar (1:3) and removing debris to ENV dumping ground.	m	36.00
Con.208	Take out, regrade, relay and repoint inverts of precast drains not exceeding 300 mm internal widths (new inverts measured separately) (Length of drain measured).	m	6.45
Con.209	Take out, regrade, relay and repoint inverts of precast drains exceeding 300 mm and not exceeding 450 mm width (new inverts measured separately) (Length of drain measured).	m	7.20
Con.210	Hack up and regrade inverts, sides and tops of in-situ drains not exceeding 300 mm internal widths (length of drain measured).	m	6.00
Con.211	Hack up and regrade inverts, sides and tops of in-situ drains exceeding 300 mm and not exceeding 450 mm width (length of drain measured).	m	7.50

S/No	Description	Unit	Unit Cost (\$)
Con.212	Cut rebate not exceeding 75 mm wide x 75 mm deep in concrete and render with 15 mm thick cement mortar (1:3).	m	5.10
Con.213	Cut groove not exceeding 75 mm wide x 75 mm deep in concrete and render with 15 mm thick cement mortar (1:3).	m	5.70
Con.214	Cut out crack to form V-groove in masonry work including cleaning out cut surfaces.	m	3.00
Con.215	Cut out cracks in concrete floor, beams, columns, etc. to a width of at least 15 mm form undercut edges, render with cement mortar (1:3) to match existing and remove debris off site.	m	3.75
Con.216	Supply and fix calibrated "tell-tale" glass to existing cracks on plastered walls, etc.	no	75.00
Con.217	Coring to brickwork or reinforced concrete wall or slab of dia 25mm, depth 100mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	38.00
Con.218	Coring to brickwork or reinforced concrete wall or slab of dia 25mm, depth 125mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	48.00
Con.219	Coring to brickwork or reinforced concrete wall or slab of dia 25mm, depth 150mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	53.00
Con.220	Coring to brickwork or reinforced concrete wall or slab of dia 25mm, depth 175mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	64.00
Con.221	Coring to brickwork or reinforced concrete wall or slab of dia 25mm, depth 200mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	68.00
Con.222	Coring to brickwork or reinforced concrete wall or slab of dia 25mm, depth 225mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	80.00
Con.223	Coring to brickwork or reinforced concrete wall or slab of dia 25mm, depth 250mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	82.00
Con.224	Coring to brickwork or reinforced concrete wall or slab of dia 25mm, depth 275mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	97.00
Con.225	Coring to brickwork or reinforced concrete wall or slab of dia 25mm, depth 300mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	100.00
Con.226	Coring to brickwork or reinforced concrete wall or slab of dia 50mm - 52mm, depth 100mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	41.00

S/No	Description	Unit	Unit Cost (\$)
Con.227	Coring to brickwork or reinforced concrete wall or slab of dia 50mm - 52mm, depth 125mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	43.50
Con.228	Coring to brickwork or reinforced concrete wall or slab of dia 50mm - 52mm, depth 150mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	55.00
Con.229	Coring to brickwork or reinforced concrete wall or slab of dia 50mm - 52mm, depth 175mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	58.00
Con.230	Coring to brickwork or reinforced concrete wall or slab of dia 50mm - 52mm, depth 200mm shall	no	69.00
Con.231	be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.		
Con.232	Coring to brickwork or reinforced concrete wall or slab of dia 50mm - 52mm, depth 225mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	70.00
Con.233	Coring to brickwork or reinforced concrete wall or slab of dia 50mm - 52mm, depth 250mm shall	no	77.00
Con.234	be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.		
Con.235	Coring to brickwork or reinforced concrete wall or slab of dia 50mm - 52mm, depth 275mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	82.00
Con.236	Coring to brickwork or reinforced concrete wall or slab of dia 50mm - 52mm, depth 300mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	104.00
Con.237	Coring to brickwork or reinforced concrete wall or slab of dia 65mm, depth 100mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	43.50
Con.238	Coring to brickwork or reinforced concrete wall or slab of dia 65mm, depth 125mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	50.00
Con.239	Coring to brickwork or reinforced concrete wall or slab of dia 65mm, depth 150mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	56.00
Con.240	Coring to brickwork or reinforced concrete wall or slab of dia 65mm, depth 175mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	62.00

S/No	Description	Unit	Unit Cost (\$)
Con.241	Coring to brickwork or reinforced concrete wall or slab of dia 65mm, depth 200mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	70.00
Con.242	Coring to brickwork or reinforced concrete wall or slab of dia 65mm, depth 225mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	77.00
Con.243	Coring to brickwork or reinforced concrete wall or slab of dia 65mm, depth 250mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	83.00
Con.244	Coring to brickwork or reinforced concrete wall or slab of dia 65mm, depth 275mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	89.00
Con.245	Coring to brickwork or reinforced concrete wall or slab of dia 65mm, depth 300mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	104.00
Con.246	Coring to brickwork or reinforced concrete wall or slab of dia 75mm - 77mm, depth 100mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	55.00
Con.247	Coring to brickwork or reinforced concrete wall or slab of dia 75mm - 77mm, depth 125mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	56.00
Con.248	Coring to brickwork or reinforced concrete wall or slab of dia 75mm - 77mm, depth 150mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	70.00
Con.249	Coring to brickwork or reinforced concrete wall or slab of dia 75mm - 77mm, depth 175mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	73.00
Con.250	Coring to brickwork or reinforced concrete wall or slab of dia 75mm - 77mm, depth 200mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	88.00
Con.251	Coring to brickwork or reinforced concrete wall or slab of dia 75mm - 77mm, depth 225mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	91.00
Con.252	Coring to brickwork or reinforced concrete wall or slab of dia 75mm - 77mm, depth 250mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	106.00
Con.253	Coring to brickwork or reinforced concrete wall or slab of dia 75mm - 77mm, depth 275mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	107.60

S/No	Description	Unit	Unit Cost (\$)
Con.254	Coring to brickwork or reinforced concrete wall or slab of dia 75mm - 77mm, depth 300mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	123.00
Con.255	Coring to brickwork or reinforced concrete wall or slab of dia 100mm - 108mm, depth 100mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	70.00
Con.256	Coring to brickwork or reinforced concrete wall or slab of dia 100mm - 108mm, depth 125mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	75.60
Con.257	Coring to brickwork or reinforced concrete wall or slab of dia 100mm - 108mm, depth 150mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	89.10
Con.258	Coring to brickwork or reinforced concrete wall or slab of dia 100mm - 108mm, depth 175mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	92.00
Con.259	Coring to brickwork or reinforced concrete wall or slab of dia 100mm - 108mm, depth 200mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	107.00
Con.260	Coring to brickwork or reinforced concrete wall or slab of dia 100mm - 108mm, depth 225mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	108.00
Con.261	Coring to brickwork or reinforced concrete wall or slab of dia 100mm - 108mm, depth 250mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	123.00
Con.262	Coring to brickwork or reinforced concrete wall or slab of dia 100mm - 108mm, depth 275mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	126.00
Con.263	Coring to brickwork or reinforced concrete wall or slab of dia 100mm - 108mm, depth 300mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	143.00
Con.264	Coring to brickwork or reinforced concrete wall or slab of dia 125mm - 132mm, depth 100mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	90.00
Con.265	Coring to brickwork or reinforced concrete wall or slab of dia 125mm - 132mm, depth 125mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	97.00
Con.266	Coring to brickwork or reinforced concrete wall or slab of dia 125mm - 132mm, depth 150mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	115.00

S/No	Description	Unit	Unit Cost (\$)
Con.267	Coring to brickwork or reinforced concrete wall or slab of dia 125mm - 132mm, depth 175mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	118.00
Con.268	Coring to brickwork or reinforced concrete wall or slab of dia 125mm - 132mm, depth 200mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	138.00
Con.269	Coring to brickwork or reinforced concrete wall or slab of dia 125mm - 132mm, depth 225mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	142.00
Con.270	Coring to brickwork or reinforced concrete wall or slab of dia 125mm - 132mm, depth 250mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	161.00
Con.271	Coring to brickwork or reinforced concrete wall or slab of dia 125mm - 132mm, depth 275mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	164.50
Con.272	Coring to brickwork or reinforced concrete wall or slab of dia 125mm - 132mm, depth 300mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	184.00
Con.273	Coring to brickwork or reinforced concrete wall or slab of dia 150mm - 152mm, depth 100mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	106.00
Con.274	Coring to brickwork or reinforced concrete wall or slab of dia 150mm - 152mm, depth 125mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	107.00
Con.275	Coring to brickwork or reinforced concrete wall or slab of dia 150mm - 152mm, depth 150mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	135.00
Con.276	Coring to brickwork or reinforced concrete wall or slab of dia 150mm - 152mm, depth 175mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	137.00
Con.277	Coring to brickwork or reinforced concrete wall or slab of dia 150mm - 152mm, depth 200mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	164.00
Con.278	Coring to brickwork or reinforced concrete wall or slab of dia 150mm - 152mm, depth 225mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	166.00
Con.279	Coring to brickwork or reinforced concrete wall or slab of dia 150mm - 152mm, depth 250mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	190.50



S/No	Description	Unit	Unit Cost (\$)
Con.280	Coring to brickwork or reinforced concrete wall or slab of dia 150mm - 152mm, depth 275mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	194.00
Con.281	Coring to brickwork or reinforced concrete wall or slab of dia 150mm - 152mm, depth 300mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	218.00
Con.282	Coring to brickwork or reinforced concrete wall or slab of dia 175mm - 182mm, depth 100mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	142.00
Con.283	Coring to brickwork or reinforced concrete wall or slab of dia 175mm - 182mm, depth 125mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	143.00
Con.284	Coring to brickwork or reinforced concrete wall or slab of dia 175mm - 182mm, depth 150mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	177.00
Con.285	Coring to brickwork or reinforced concrete wall or slab of dia 175mm - 182mm, depth 175mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	178.00
Con.286	Coring to brickwork or reinforced concrete wall or slab of dia 175mm - 182mm, depth 200mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	212.00
Con.287	Coring to brickwork or reinforced concrete wall or slab of dia 175mm - 182mm, depth 225mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	213.00
Con.288	Coring to brickwork or reinforced concrete wall or slab of dia 175mm - 182mm, depth 250mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	246.00
Con.289	Coring to brickwork or reinforced concrete wall or slab of dia 175mm - 182mm, depth 275mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	248.00
Con.290	Coring to brickwork or reinforced concrete wall or slab of dia 175mm - 182mm, depth 300mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	280.00
Con.291	Coring to brickwork or reinforced concrete wall or slab of dia 200mm - 202mm, depth 100mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	164.00
Con.292	Coring to brickwork or reinforced concrete wall or slab of dia 200mm - 202mm, depth 125mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	165.00

S/No	Description	Unit	Unit Cost (\$)
Con.293	Coring to brickwork or reinforced concrete wall or slab of dia 200mm - 202mm, depth 150mm	no	206.00
Con.294	shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.		
Con.295	Coring to brickwork or reinforced concrete wall or slab of dia 200mm - 202mm, depth 175mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor	no	208.00
Con.296	Coring to brickwork or reinforced concrete wall or slab of dia 200mm - 202mm, depth 200mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	269.00
Con.297	Coring to brickwork or reinforced concrete wall or slab of dia 200mm - 202mm, depth 225mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	273.00
Con.298	Coring to brickwork or reinforced concrete wall or slab of dia 200mm - 202mm, depth 250mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	292.00
Con.299	Coring to brickwork or reinforced concrete wall or slab of dia 200mm - 202mm, depth 275mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	294.00
Con.300	Coring to brickwork or reinforced concrete wall or slab of dia 200mm - 202mm, depth 300mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	334.00
Con.301	Coring to brickwork or reinforced concrete wall or slab of dia 225mm, depth 100mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	172.00
Con.302	Coring to brickwork or reinforced concrete wall or slab of dia 225mm, depth 125mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	195.00
Con.303	Coring to brickwork or reinforced concrete wall or slab of dia 225mm, depth 150mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	216.00
Con.304	Coring to brickwork or reinforced concrete wall or slab of dia 225mm, depth 175mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	240.00
Con.305	Coring to brickwork or reinforced concrete wall or slab of dia 225mm, depth 200mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	263.00

S/No	Description	Unit	Unit Cost (\$)
Con.306	Coring to brickwork or reinforced concrete wall or slab of dia 225mm, depth 225mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	286.00
Con.307	Coring to brickwork or reinforced concrete wall or slab of dia 225mm, depth 250mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	308.00
Con.308	Coring to brickwork or reinforced concrete wall or slab of dia 225mm, depth 275mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	329.00
Con.309	Coring to brickwork or reinforced concrete wall or slab of dia 225mm, depth 300mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	354.00
Con.310	Coring to brickwork or reinforced concrete wall or slab of dia 250mm, depth 100mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	228.00
Con.311	Coring to brickwork or reinforced concrete wall or slab of dia 250mm, depth 125mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	251.00
Con.312	Coring to brickwork or reinforced concrete wall or slab of dia 250mm, depth 150mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	275.00
Con.313	Coring to brickwork or reinforced concrete wall or slab of dia 250mm, depth 175mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	300.00
Con.314	Coring to brickwork or reinforced concrete wall or slab of dia 250mm, depth 200mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	321.00
Con.315	Coring to brickwork or reinforced concrete wall or slab of dia 250mm, depth 225mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	344.00
Con.316	Coring to brickwork or reinforced concrete wall or slab of dia 250mm, depth 250mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	366.00
Con.317	Coring to brickwork or reinforced concrete wall or slab of dia 250mm, depth 275mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	578.00
Con.318	Coring to brickwork or reinforced concrete wall or slab of dia 250mm, depth 300mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	580.00

S/No	Description	Unit	Unit Cost (\$)
Con.319	Coring to brickwork or reinforced concrete wall or slab of dia 275mm, depth 100mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	255.00
Con.320	Coring to brickwork or reinforced concrete wall or slab of dia 275mm, depth 125mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	275.00
Con.321	Coring to brickwork or reinforced concrete wall or slab of dia 275mm, depth 150mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	296.00
Con.322	Coring to brickwork or reinforced concrete wall or slab of dia 275mm, depth 175mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	317.00
Con.323	Coring to brickwork or reinforced concrete wall or slab of dia 275mm, depth 200mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	338.00
Con.324	Coring to brickwork or reinforced concrete wall or slab of dia 275mm, depth 225mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	358.00
Con.325	Coring to brickwork or reinforced concrete wall or slab of dia 275mm, depth 250mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	592.00
Con.326	Coring to brickwork or reinforced concrete wall or slab of dia 275mm, depth 275mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	594.00
Con.327	Coring to brickwork or reinforced concrete wall or slab of dia 275mm, depth 300mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	420.00
Con.328	Coring to brickwork or reinforced concrete wall or slab of dia 300mm, depth 100mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	280.00
Con.329	Coring to brickwork or reinforced concrete wall or slab of dia 300mm, depth 125mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	309.00
Con.330	Coring to brickwork or reinforced concrete wall or slab of dia 300mm, depth 150mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	338.00
Con.331	Coring to brickwork or reinforced concrete wall or slab of dia 300mm, depth 175mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	367.00

S/No	Description	Unit	Unit Cost (\$)
Con.332	Coring to brickwork or reinforced concrete wall or slab of dia 300mm, depth 200mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	396.00
Con.333	Coring to brickwork or reinforced concrete wall or slab of dia 300mm, depth 225mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	425.00
Con.334	Coring to brickwork or reinforced concrete wall or slab of dia 300mm, depth 250mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	453.00
Con.335	Coring to brickwork or reinforced concrete wall or slab of dia 300mm, depth 275mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	482.00
Con.336	Coring to brickwork or reinforced concrete wall or slab of dia 300mm, depth 300mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	612.00
Con.337	Coring to RC retaining wall, column or beam of dia 25mm, depth 100mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	42.00
Con.338	Coring to RC retaining wall, column or beam of dia 25mm, depth 125mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	53.00
Con.339	Coring to RC retaining wall, column or beam of dia 25mm, depth 150mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	59.00
Con.340	Coring to RC retaining wall, column or beam of dia 25mm, depth 175mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	71.00
Con.341	Coring to RC retaining wall, column or beam of dia 25mm, depth 200mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	75.00
Con.342	Coring to RC retaining wall, column or beam of dia 25mm, depth 225mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	89.00
Con.343	Coring to RC retaining wall, column or beam of dia 25mm, depth 250mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	90.00
Con.344	Coring to RC retaining wall, column or beam of dia 25mm, depth 275mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	107.00

S/No	Description	Unit	Unit Cost (\$)
Con.345	Coring to RC retaining wall, column or beam of dia 25mm, depth 300mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	111.00
Con.346	Coring to RC retaining wall, column or beam of dia 50mm - 52mm, depth 100mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	46.00
Con.347	Coring to RC retaining wall, column or beam of dia 50mm - 52mm, depth 125mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	48.00
Con.348	Coring to RC retaining wall, column or beam of dia 50mm - 52mm, depth 150mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	60.00
Con.349	Coring to RC retaining wall, column or beam of dia 50mm - 52mm, depth 175mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	64.00
Con.350	Coring to RC retaining wall, column or beam of dia 50mm - 52mm, depth 200mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	76.00
Con.351	Coring to RC retaining wall, column or beam of dia 50mm - 52mm, depth 225mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	77.00
Con.352	Coring to RC retaining wall, column or beam of dia 50mm - 52mm, depth 250mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	84.00
Con.353	Coring to RC retaining wall, column or beam of dia 50mm - 52mm, depth 275mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	91.00
Con.354	Coring to RC retaining wall, column or beam of dia 50mm - 52mm, depth 300mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	115.00
Con.355	Coring to RC retaining wall, column or beam of dia 65mm, depth 100mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	48.00
Con.356	Coring to RC retaining wall, column or beam of dia 65mm, depth 125mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	55.00
Con.357	Coring to RC retaining wall, column or beam of dia 65mm, depth 150mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	62.00

S/No	Description	Unit	Unit Cost (\$)
Con.358	Coring to RC retaining wall, column or beam of dia 65mm, depth 175mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	68.00
Con.359	Coring to RC retaining wall, column or beam of dia 65mm, depth 200mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	77.00
Con.360	Coring to RC retaining wall, column or beam of dia 65mm, depth 225mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	84.00
Con.361	Coring to RC retaining wall, column or beam of dia 65mm, depth 250mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	91.00
Con.362	Coring to RC retaining wall, column or beam of dia 65mm, depth 275mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	98.00
Con.363	Coring to RC retaining wall, column or beam of dia 65mm, depth 300mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	115.00
Con.364	Coring to RC retaining wall, column or beam of dia 75mm - 77mm, depth 100mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	60.00
Con.365	Coring to RC retaining wall, column or beam of dia 75mm - 77mm, depth 125mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	62.00
Con.366	Coring to RC retaining wall, column or beam of dia 75mm - 77mm, depth 150mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	77.00
Con.367	Coring to RC retaining wall, column or beam of dia 75mm - 77mm, depth 175mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	80.00
Con.368	Coring to RC retaining wall, column or beam of dia 75mm - 77mm, depth 200mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	97.00
Con.369	Coring to RC retaining wall, column or beam of dia 75mm - 77mm, depth 225mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	100.00
Con.370	Coring to RC retaining wall, column or beam of dia 75mm - 77mm, depth 250mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	116.00

S/No	Description	Unit	Unit Cost (\$)
Con.371	Coring to RC retaining wall, column or beam of dia 75mm - 77mm, depth 275mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	119.00
Con.372	Coring to RC retaining wall, column or beam of dia 75mm - 77mm, depth 300mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	135.00
Con.373	Coring to RC retaining wall, column or beam of dia 100mm - 108mm, depth 100mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	77.00
Con.374	Coring to RC retaining wall, column or beam of dia 100mm - 108mm, depth 125mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	83.00
Con.375	Coring to RC retaining wall, column or beam of dia 100mm - 108mm, depth 150mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	98.00
Con.376	Coring to RC retaining wall, column or beam of dia 100mm - 108mm, depth 175mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	101.00
Con.377	Coring to RC retaining wall, column or beam of dia 100mm - 108mm, depth 200mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	119.00
Con.378	Coring to RC retaining wall, column or beam of dia 100mm - 108mm, depth 225mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	120.00
Con.379	Coring to RC retaining wall, column or beam of dia 100mm - 108mm, depth 250mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	135.00
Con.380	Coring to RC retaining wall, column or beam of dia 100mm - 108mm, depth 275mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	139.00
Con.381	Coring to RC retaining wall, column or beam of dia 100mm - 108mm, depth 300mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	158.00
Con.382	Coring to RC retaining wall, column or beam of dia 125mm - 132mm, depth 100mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	99.00
Con.383	Coring to RC retaining wall, column or beam of dia 125mm - 132mm, depth 125mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	107.00



S/No	Description	Unit	Unit Cost (\$)
Con.384	Coring to RC retaining wall, column or beam of dia 125mm - 132mm, depth 150mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	126.00
Con.385	Coring to RC retaining wall, column or beam of dia 125mm - 132mm, depth 175mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	130.00
Con.386	Coring to RC retaining wall, column or beam of dia 125mm - 132mm, depth 200mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	153.00
Con.387	Coring to RC retaining wall, column or beam of dia 125mm - 132mm, depth 225mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	156.00
Con.388	Coring to RC retaining wall, column or beam of dia 125mm - 132mm, depth 250mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	178.00
Con.389	Coring to RC retaining wall, column or beam of dia 125mm - 132mm, depth 275mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	181.00
Con.390	Coring to RC retaining wall, column or beam of dia 125mm - 132mm, depth 300mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	203.00
Con.391	Coring to RC retaining wall, column or beam of dia 150mm - 152mm, depth 100mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	116.00
Con.392	Coring to RC retaining wall, column or beam of dia 150mm - 152mm, depth 125mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	119.00
Con.393	Coring to RC retaining wall, column or beam of dia 150mm - 152mm, depth 150mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	148.00
Con.394	Coring to RC retaining wall, column or beam of dia 150mm - 152mm, depth 175mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	150.00
Con.395	Coring to RC retaining wall, column or beam of dia 150mm - 152mm, depth 200mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	180.00
Con.396	Coring to RC retaining wall, column or beam of dia 150mm - 152mm, depth 225mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	182.00

S/No	Description	Unit	Unit Cost (\$)
Con.397	Coring to RC retaining wall, column or beam of dia 150mm - 152mm, depth 250mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	209.00
Con.398	Coring to RC retaining wall, column or beam of dia 150mm - 152mm, depth 275mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	213.00
Con.399	Coring to RC retaining wall, column or beam of dia 150mm - 152mm, depth 300mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	239.00
Con.400	Coring to RC retaining wall, column or beam of dia 175mm - 182mm, depth 100mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	156.00
Con.401	Coring to RC retaining wall, column or beam of dia 175mm - 182mm, depth 125mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	157.00
Con.402	Coring to RC retaining wall, column or beam of dia 175mm - 182mm, depth 150mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	195.00
Con.403	Coring to RC retaining wall, column or beam of dia 175mm - 182mm, depth 175mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	196.00
Con.404	Coring to RC retaining wall, column or beam of dia 175mm - 182mm, depth 200mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	233.00
Con.405	Coring to RC retaining wall, column or beam of dia 175mm - 182mm, depth 225mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	235.00
Con.406	Coring to RC retaining wall, column or beam of dia 175mm - 182mm, depth 250mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	271.00
Con.407	Coring to RC retaining wall, column or beam of dia 175mm - 182mm, depth 275mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	273.00
Con.408	Coring to RC retaining wall, column or beam of dia 175mm - 182mm, depth 300mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	308.00
Con.409	Coring to RC retaining wall, column or beam of dia 200mm - 202mm, depth 100mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	180.00

S/No	Description	Unit	Unit Cost (\$)
Con.410	Coring to RC retaining wall, column or beam of dia 200mm - 202mm, depth 125mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	182.00
Con.411	Coring to RC retaining wall, column or beam of dia 200mm - 202mm, depth 150mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	227.00
Con.412	Coring to RC retaining wall, column or beam of dia 200mm - 202mm, depth 175mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	229.00
Con.413	Coring to RC retaining wall, column or beam of dia 200mm - 202mm, depth 200mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	296.00
Con.414	Coring to RC retaining wall, column or beam of dia 200mm - 202mm, depth 225mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	301.00
Con.415	Coring to RC retaining wall, column or beam of dia 200mm - 202mm, depth 250mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	321.00
Con.416	Coring to RC retaining wall, column or beam of dia 200mm - 202mm, depth 275mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	323.00
Con.417	Coring to RC retaining wall, column or beam of dia 200mm - 202mm, depth 300mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	368.00
Con.418	Coring to RC retaining wall, column or beam of dia 225mm, depth 100mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	189.00
Con.419	Coring to RC retaining wall, column or beam of dia 225mm, depth 125mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	214.00
Con.420	Coring to RC retaining wall, column or beam of dia 225mm, depth 150mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	238.00
Con.421	Coring to RC retaining wall, column or beam of dia 225mm, depth 175mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	264.00
Con.422	Coring to RC retaining wall, column or beam of dia 225mm, depth 200mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	289.00

S/No	Description	Unit	Unit Cost (\$)
Con.423	Coring to RC retaining wall, column or beam of dia 225mm, depth 225mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	314.00
Con.424	Coring to RC retaining wall, column or beam of dia 225mm, depth 250mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	314.00
Con.425	Coring to RC retaining wall, column or beam of dia 225mm, depth 275mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	362.00
Con.426	Coring to RC retaining wall, column or beam of dia 225mm, depth 300mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	389.00
Con.427	Coring to RC retaining wall, column or beam of dia 250mm, depth 100mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	251.00
Con.428	Coring to RC retaining wall, column or beam of dia 250mm, depth 125mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	276.00
Con.429	Coring to RC retaining wall, column or beam of dia 250mm, depth 150mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	303.00
Con.430	Coring to RC retaining wall, column or beam of dia 250mm, depth 175mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	330.00
Con.431	Coring to RC retaining wall, column or beam of dia 250mm, depth 200mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	353.00
Con.432	Coring to RC retaining wall, column or beam of dia 250mm, depth 225mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	378.00
Con.433	Coring to RC retaining wall, column or beam of dia 250mm, depth 250mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	403.00
Con.434	Coring to RC retaining wall, column or beam of dia 250mm, depth 275mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	428.00
Con.435	Coring to RC retaining wall, column or beam of dia 250mm, depth 300mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	453.00

S/No	Description	Unit	Unit Cost (\$)
Con.436	Coring to RC retaining wall, column or beam of dia 275mm, depth 100mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	280.00
Con.437	Coring to RC retaining wall, column or beam of dia 275mm, depth 125mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	303.00
Con.438	Coring to RC retaining wall, column or beam of dia 275mm, depth 150mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	326.00
Con.439	Coring to RC retaining wall, column or beam of dia 275mm, depth 175mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	349.00
Con.440	Coring to RC retaining wall, column or beam of dia 275mm, depth 200mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	371.00
Con.441	Coring to RC retaining wall, column or beam of dia 275mm, depth 225mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	394.00
Con.442	Coring to RC retaining wall, column or beam of dia 275mm, depth 250mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	417.00
Con.443	Coring to RC retaining wall, column or beam of dia 275mm, depth 275mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	440.00
Con.444	Coring to RC retaining wall, column or beam of dia 275mm, depth 300mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	462.00
Con.445	Coring to RC retaining wall, column or beam of dia 300mm, depth 100mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	308.00
Con.446	Coring to RC retaining wall, column or beam of dia 300mm, depth 125mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	339.00
Con.447	Coring to RC retaining wall, column or beam of dia 300mm, depth 150mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	371.00
Con.448	Coring to RC retaining wall, column or beam of dia 300mm, depth 175mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	403.00

S/No	Description	Unit	Unit Cost (\$)
Con.449	Coring to RC retaining wall, column or beam of dia 300mm, depth 200mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	435.00
Con.450	Coring to RC retaining wall, column or beam of dia 300mm, depth 225mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	467.00
Con.451	Coring to RC retaining wall, column or beam of dia 300mm, depth 250mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	499.00
Con.452	Coring to RC retaining wall, column or beam of dia 300mm, depth 275mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	531.00
Con.453	Coring to RC retaining wall, column or beam of dia 300mm, depth 300mm shall be at the rates stipulated. No mobilisation charge for total coring works value above \$300/-. Rates above includes the provision of electricity, scaffolding & water supply etc by Contractor.	no	565.00
Con.454	Add mobilisation charge for total coring works value below \$300/-.	no	120.00
Con.455	150 mm wide pvc water-stop embeded in concrete.	m	33.00
Con.456	200 mm wide pvc water-stop embeded in concrete.	m	39.30
Con.457	230 mmm wide pvc water-stop embeded in concrete	m	45.75
Con.458	12 mm thick closed cell expanded polyethylene filler board to joint including all necessary formwork	sq m	150.20
Con.459	20 mm thick closed cell expanded polyethylene filler board to joint including all necessary formwork	sq m	170.00
Con.460	25 mm thick closed cell expanded polyethylene filler board to joint including all necessary formwork.	sq m	231.40
Con.461	Polysulphide sealer squeezed into 25 x 15 mm joint.	m	17.10
Con.462	Polysulphide sealer squeezed into 25 x 25 mm joint.	m	27.45
Con.463	Polysulphide sealer squeezed into 50 x 15 mm joint.	m	44.25
Con.464	Concrete (Grade 20) heelstone cast to suit section of door frame including one 100 x 13 mm diameter mild steel dowel and 150 mm high.	no	12.60

### 3. BRICKWORK

S/No	Description	Unit	Unit Cost (\$)
BW.1	Brick-on-edge wall with brickwork in common bricks	sq m	26.30
BW.2	Half brick thick wall (102.5 mm thick) with brickwork in common bricks.	sq m	38.00
BW.3	One brick wall (215 mm thick) with brickwork in common bricks.	sq m	71.20
BW.4	Half brick thick built honeycomb in common bricks with joints raked out and pointed in tinted cement as the work proceeds.	sq m	34.50
BW.5	Extra over common brickwork for building fair face with joints raked out and pointed in tinted cement as the work proceeds (one side only).	sq m	5.20
BW.6	Extra over common brickwork for building for facing in first quality clay facing bricks (one side only).	sq m	11.50

S/No	Description	Unit	Unit Cost (\$)
BW.7	Extra over common brickwork for building for facing in clinker facing bricks (one side only).	sq m	30.00
BW.8	Extra over common brickwork for building for facing in sand face /perforated facing bricks or plainface perforated facing bricks (one side only).	sq m	13.20
BW.9	90 mm thick brickwork in cement/sand/concrete bricks (15 mn/sq m).	sq m	31.70
BW.10	190 mm thick brickwork in cement/sand/concrete bricks (15 mn/sq m).	sq m	58.70
BW.11	290 mm thick brickwork in cement/sand/concrete bricks (15 mn/sq m).	sq m	73.60
BW.12	Half brick thick (102.5 mm thick) engineering bricks.	sq m	59.20
BW.13	One brick thick (215 mm thick) engineering bricks.	no	112.80
BW.14	Half brick thick built honeycomb brickwork built entirely in first quality clay facing bricks one side with joints raked out and pointed in tinted cement as the work proceeds.	sq m	32.70
BW.15	Half brick thick (102.5 mm thick) brickwork built entirely in first quality clay facing bricks one side with joints raked out and pointed in tinted cement as the work proceeds.	sq m	46.80
BW.16	One brick thick (215 mm thick) brickwork built entirely in first quality clay facing bricks one side with joints raked out and pointed in tinted cement as the work proceeds.	sq m	84.50
BW.17	Half brick thick honeycomb brickwork built entirely in clinker facing bricks one side with joints raked out and pointed in tinted cement as the work proceeds.	sq m	42.20
BW.18	Half brick thick brickwork built entirely in clinker facing bricks one side with joints raked out and pointed in tinted cement as the work proceeds.	sq m	59.30
BW.19	One brick thick brickwork built entirely in clinker facing bricks one side with joints raked out and pointed in tinted cement as the work proceeds.	sq m	108.90
BW.20	Half brick thick honeycomb brickwork built entirely in sandface/plain-face perforated facing bricks one side with joints raked out and pointed in tinted cement as the work proceeds.	sq m	33.90
BW.21	Half brick thick brickwork built entirely in sandface/plain-face perforated facing bricks one side with joints raked out and pointed in tinted cement as the work proceeds.	sq m	48.40
BW.22	One brick thick brickwork built entirely in sandface/plain-face perforated facing bricks one side with joints raked out and pointed in tinted cement as the work proceeds.	sq m	87.60
BW.23	Half brick thick honeycomb brickwork built both sides entirely in first quality clay facing bricks with joints raked out and pointed in tinted cement as the work proceeds.	sq m	37.10
BW.24	Half brick thick brickwork built both sides entirely in first quality clay facing bricks with joints raked out and pointed in tinted cement as the work proceeds.	sq m	52.40
BW.25	One brick thick brickwork built both sides entirely in first quality clay facing bricks with joints raked out and pointed in tinted cement as the work proceeds.	sq m	92.10
BW.26	Half brick thick built honeycomb brickwork built both sides entirely in clinker facing bricks with joints raked out and pointed in tinted cement as the work proceeds.	sq m	46.60
BW.27	Half brick thick brickwork built both sides entirely in clinker facing bricks with joints raked out and pointed in tinted cement as the work proceeds.	sq m	64.90
BW.28	One brick thick brickwork built both sides entirely in clinker facing bricks with joints raked out and pointed in tinted cement as the work proceeds.	sq m	117.10

S/No	Description	Unit	Unit Cost (\$)
BW.29	Half brick thick built honeycomb brickwork built both sides entirely in sandface perforated facing bricks/plain-face perforated facing bricks with joints raked out and pointed in tinted cement as the work proceeds.	sq m	34.90
BW.30	Half brick thick brickwork built both sides entirely in sandface perforated facing bricks/plain-face perforated facing bricks with joints raked out and pointed in tinted cement as the work proceeds.	sq m	53.90
BW.31	One brick thick brickwork built both sides entirely in sandface perforated facing bricks/plain-face perforated facing bricks with joints raked out and pointed in tinted cement as the work proceeds.	sq m	95.00
BW.32	Wash existing pointed brickwalls or blockwalls with caustic soda or other similar chemical cleaning liquid and removing dirt, grease, stains, fungus, etc.	sq m	1.30
BW.33	Hack out damaged pointing in joints and re-point in cement mortar or neat tinted cement as necessary to match existing (one side only).	sq m	1.80
BW.34	75 mm thick aerated concrete blocks (4.1 n/sq mm) in partition, infill panel and the like.	sq m	30.50
BW.35	100 mm thick aerated concrete blocks (4.1 n/sq mm) in partition, infill panel and the like.	sq m	38.50
BW.36	75 mm thick hollow concrete blocks laid in cement mortar(1:4) with 10mm joints including cutting, toothing, bonding, waste and preparing existing wall to receive new and reinforced at every course with and including "Exmet" or other equal and approved brick reinforcement.	sq m	20.40
BW.37	100 mm thick hollow concrete blocks laid in cement mortar(1:4) with 10mm joints including cutting, toothing, bonding, waste and preparing existing wall to receive new and reinforced at every course with and including "Exmet" or other equal and approved brick reinforcement..	sq m	23.70
BW.38	150 mm thick hollow concrete blocks laid in cement mortar(1:4) with 10mm joints including cutting, toothing, bonding, waste and preparing existing wall to receive new and reinforced at every course with and including "Exmet" or other equal and approved brick reinforcement.	sq m	28.20
BW.39	Extra over blockwork for building fairface with joints raked out and pointed in cement as the works proceeds (one side only).	sq m	2.90
BW.40	Extra over for filling 75 mm thick block solid with concrete (grade 15 ).	sq m	1.60
BW.41	Extra over for filling 100 mm thick block solid with concrete (grade 15 ).	sq m	1.60
BW.42	Extra over for filling 150 mm thick block solid with concrete (grade 15 ).	sq m	4.10
BW.43	100 mm thick concrete vent block in grille blockwall consisting of rain-proof concrete vent blocks (any size) bedded and jointed in cement mortar (1:6) reinforced every course with and including approved galvanised brick reinforcement.	sq m	64.30
BW.44	113 mm thick concrete vent block in grille blockwall consisting of rain-proof concrete vent blocks (any size) bedded and jointed in cement mortar (1:6) reinforced every course with and including approved galvanised brick reinforcement.	sq m	66.20
BW.45	150 mm thick concrete vent block in grille blockwall consisting of rain-proof concrete vent blocks (any size) bedded and jointed in cement mortar (1:6) reinforced every course with and including approved galvanised brick reinforcement.	sq m	79.70
BW.46	Hammer dressed random rubble wall in selected granite blocks laid in cement mortar (1:3) including raking out joints and pointing in plain or white cement as work proceeds.	cu m	236.60
BW.47	Render top of granite wall with cement mortar (1:3) average 50 mm thick including layer of mesh reinforcement.	sq m	17.00



S/No	Description	Unit	Unit Cost (\$)
BW.48	Extra over for setting granite blocks against slipped banks.	cu m	23.90
BW.49	112.5 mm wide 3 ply bituminous felt horizontal damp proof course complying with BS 743 Type B in cement mortar (1:4) with mortar plasticiser to wall.	m	0.70
BW.50	225 mm wide 3 ply bituminous felt horizontal damp proof course complying with BS 743 Type B in cement mortar (1:4) with mortar plasticiser to wall.	m	1.40
BW.51	Exceeding 300 mm wide 3 ply bituminous felt horizontal damp proof course complying with BS 743 Type B in cement mortar (1:4) with mortar plasticiser to wall.	sq m	14.80
BW.52	0.6 mm thick polythylene moisture barrier laid to top, side or underside of concrete structure.	sq m	8.10
BW.53	0.8 mm thick polythylene moisture barrier laid to top, side or underside of concrete structure.	sq m	12.70
BW.54	Sisaltheene '300' heavy weight building paper laid to top, side or underside of concrete structure.	sq m	3.00
BW.55	Sisalkraft '355' medium weight building paper laid to top, side or underside of concrete structure.	sq m	4.80
BW.56	1.5 mm thick Trocal type 'T' membrane with 2 layers of geotextile fleece laid to top, side or underside of concrete structure.	sq m	54.00
BW.57	2.0 mm thick Trocal type 'T' membrane with 2 layers of geotextile fleece laid to top, side or underside of concrete structure.	sq m	59.80
BW.58	Supply and apply one coat of "DRIWAL" colourless waterproof compound to exposed surfaces of fair-faced brickwall.	sq m	4.00
BW.59	Supply and apply additional coating of "DRIWAL" colourless waterproof compound to exposed surfaces of fair-faced brickwall.	sq m	3.45
BW.60	Prepare and apply "Colpave" sealer along the crack line on walls or slabs to cure leaks.	m	8.10
BW.61	38 mm x 3 mm galvanised wrought iron or primed mild steel holdfast 225 mm long, one end turned up and screwed to timber and other end spilt and built into brickwork.	no	1.20
BW.62	38 mm x 3 mm galvanised wrought iron or primed mild steel holdfast 150 mm long, one end turned up and screwed to timber and other end spilt and built into brickwork.	no	0.90
BW.63	Hack off existing brickwork and/or blockwork, clear of site and stack good bricks aside for re-use and including all necessary minor shoring.	cu m	105.80
BW.64	Hack off existing granite rubble wall, clear off site or stack good blocks aside for re-use and cart debris off site and including all necessary minor shoring.	cu m	117.80
BW.65	Take from stack and rebuilt granite random rubble wall in cement mortar (1:3) with joints raked out and pointed in plain or white cement as the work proceeds.	cu m	190.40
BW.66	One course brick-on-edge laid in cement mortar (1:3) with 10 mm joints in steps, sills, copings, footpaths etc (Plan area measured).	sq m	55.00
BW.67	Replace all broken and missing brick-on-edge in steps, sills, copings and the like with new one in cement mortar (1:3) to match existing.	sq m	41.20
BW.68	One course plain quarry tiles (any sizes) laid on cement mortar (1:3) with 10 mm joints in sills, weatherings or copings.	sq m	30.70
BW.69	Two courses plain quarry tiles (any sizes) laid on cement mortar (1:3) with 10 mm joints in sills, weatherings or copings.	sq m	61.90
BW.70	Cut chases in existing rendered, tiled or fair face brickwork or concrete work, clear away debris and make existing in the following cross sections, not exceeding 2,500 sq mm.	m	7.00

S/No	Description	Unit	Unit Cost (\$)
BW.71	Cut chases in existing rendered, tiled or fair face brickwork or concrete work, clear away debris and make existing in the following cross sections, over 2,500 and not exceeding 8,000 sq mm.	m	9.10
BW.72	Cut chases in existing rendered, tiled or fair face brickwork or concrete work, clear away debris and make existing in the following cross sections, over 8,000 and not exceeding 16,000 sq mm.	m	10.50
BW.73	Cut chases in existing rendered, tiled or fair face brickwork or concrete work, clear away debris and make existing in the following cross sections, over 16,000 and not exceeding 24,000 sq mm.	m	12.20
BW.74	Cut chases in existing rendered, tiled or fair face brickwork or concrete work, clear away debris and make existing in the following cross sections, over 24,000 and not exceeding 32,000 sq mm.	m	14.00
BW.75	Form holes for small pipe not exceeding 50 mm diameter in existing or new brickwork or blockwork not exceeding 65 mm thick, clear away debris and make good surrounds to match existing.	no	2.30
BW.76	Add for each additional stage of 25 mm thick wall, floor, etc. for item BW092.	no	0.90
BW.77	Form holes for pipe exceeding 50 mm diameter and not exceeding 200 mm diameter in existing or new brickwork or blockwork not exceeding 65 mm thick, clear away debris and make good surrounds to match existing.	no	6.10
BW.78	Add for each additional stage of 25 mm thick wall, floor, etc. for item (BW094).	no	2.30
BW.79	Cut small opening (ie not exceeding 0.50sq m) in existing or new brick or block walls not exceeding 150 mm thick (total thickness) and remove debris off site.	no	17.30
BW.80	Add for each additional stage of 25 mm thick wall, floor, etc. for item (BW096).	no	2.90
BW.81	Cut large opening (ie exceeding 0.50sq m and not exceeding 2sq m) in existing or new brick or block walls not exceeding 150 mm thick (total thickness) and remove debris off site.	no	55.70
BW.82	Add for each additional stage of 25 mm thick wall, floor, etc. for item (BW098).	no	3.50
BW.83	Below 25 mm diameter unplasticised PVC non-pressure pipe not exceeding 150 mm long with one end splayed and built in wall.	no	1.60
BW.84	25 mm to 50 mm diameter unplasticised PVC non-pressure pipe not exceeding 150 mm long with one end splayed and built in wall.	no	2.40
BW.85	50 mm to 75 mm diameter unplasticised PVC non-pressure pipe not exceeding 150 mm long with one end splayed and built in wall.	no	3.50
BW.86	75 mm to 100 mm diameter unplasticised PVC non-pressure pipe not exceeding 150 mm long with one end splayed and built in wall.	no	4.70
BW.87	Add for each 25 mm in length for item BW100.	no	0.25
BW.88	Deduct for each 25 mm in length for item BW100.	no	-0.20
BW.89	Add for each 25 mm in length for item BW101.	no	0.35
BW.90	Deduct for each 25 mm in length for item BW101.	no	-0.30
BW.91	Add for each 25 mm in length for item BW102	no	0.45
BW.92	Deduct for each 25 mm in length for item BW102.	no	-0.40
BW.93	Add for each 25 mm in length for item BW103.	no	0.70
BW.94	Deduct for each 25 mm in length for item BW103.	no	-0.60
BW.95	100 mm diameter clay earthenware weep pipes built in wall.	m	21.60
BW.96	150 mm diameter clay earthenware weep pipes built in wall.	m	26.50
BW.97	Lay only 80 mm thick hollow glass block (any type) with approved horizontal joint reinforcing placed at every course including mortar and pointing with cement.	sq m	32.90

S/No	Description	Unit	Unit Cost (\$)
BW.98	Supply and lay 80 mm thick hollow glass block (any type) with approved horizontal joint reinforcing placed at every course including mortar and pointing with cement.	sq m	287.50
BW.99	Lay only 100 mm thick hollow glass block (any type) with approved horizontal joint reinforcing placed at every course including mortar and pointing with cement.	sq m	37.30
BW.100	Supply and lay 100 mm thick hollow glass block (any type) with approved horizontal joint reinforcing placed at every course including mortar and pointing with cement.	sq m	340.70
BW.101	Carefully remove existing glass bricks (any size) from 80 mm or 100 mm thick walls, vents, etc. clear off site or cart to store area or stack good bricks aside for re-use and cart away debris.	sq m	9.90
BW.102	Take from stack and rebuilt glass brick walls in cement mortar (1:6) and pointed in tinted cement as the work proceeds.	sq m	28.20

#### 4. AMENDMENTS TO THE TENDER DOCUMENTS

S/No	Description	Unit	Unit Cost (\$)
RF.1	0.47mm high tensile profile patent/kliplok galvanized steel sheet roof decking , wall cladding,fascia. etc . fixed to timber or steel purlins or angle, rail etc. including all necessary fixing clips, screws, etc. and stop to open rib ends of deck, labour in flange bending to form turn- ups at ridge or turn-down at eaves, all cutting and waste , and all necessary materials , with the manufacturer's printed instructions (Net area measured).	sq m	24.00
RF.2	0.47 mm high tensile profile colourbond/colourcote steel sheet roof decking, wall cladding, fascia, etc. fixed to timber or steel purlins or angle, rail etc. including all necessary fixing clips, screws, etc. and stops to open rib ends of deck, labour in flange bending to form turn-ups at ridge or turn-down at eaves, all cutting and waste, and all necessary materials, equipment and labour for hoisting and fixing in accordance with the manufacturer's printed instructions.(Net area measured)	sq m	28.80
RF.3	0.53 mm high tensile profile patent kliplock galvanized steel sheet roof decking, wall cladding fascia, etc. fixed to timber or steel purlins or angle, rail etc. including all necessary fixing clips, screws, etc. and stops to open rib ends of deck, labour in flange bending to form turn-ups at ridge or turn-down at eaves, all cutting and waste, and all necessary materials, equipment and labour for hoisting and fixing in accordance with the manufacturer's printed instructions.(Net area measured)	sq m	30.00
RF.4	0.53 mm high tensile profile colourbond/colourcote steel sheet roof decking, wall cladding fascia, etc. fixed to timber or steel purlins or angle, rail etc. including all necessary fixing clips, screws, etc. and stops to open rib ends of deck, labour in flange bending to form turn-ups at ridge or turn-down at eaves, all cutting and waste, and all necessary materials, equipment and labour for hoisting and fixing in accordance with the manufacturer's printed instructions.(Net area measured)	sq m	33.00
RF.5	0.65 mm profile patent galvanized kliplok steel roof decking, wall cladding fascia, etc. fixed to timber or steel purlins or angle, rail etc. including all necessary fixing clips, screws, etc. and stops to open rib ends of deck, labour in flange bending to form turn-ups at ridge or turn-down at eaves, all cutting and waste, and all necessary materials, equipment and labour for hoisting and fixing in accordance with the manufacturer's printed instructions.(Net area measured)	sq m	34.70

S/No	Description	Unit	Unit Cost (\$)
RF.6	0.65 mm profile colourbond/colourcote steel roof decking, wall cladding fascia, etc. fixed to timber or steel purlins or angle, rail etc. including all necessary fixing clips, screws, etc. and stops to open rib ends of deck, labour in flange bending to form turn-ups at ridge or turn-down at eaves, all cutting and waste, and all necessary materials, equipment and labour for hoisting and fixing in accordance with the manufacturer's printed instructions.(Net area measured)	sq m	39.50
RF.7	0.75 mm profile patent galvanized kliplok sheet roof decking, wall cladding, fascia, etc. fixed to timber or steel purlins or angle, rail etc. including all necessary fixing clips, screws, etc. and stops to open rib ends of deck, labour in flange bending to form turn-ups at ridge or turn-down at eaves, all cutting and waste, and all necessary materials, equipment and labour for hoisting and fixing in accordance with the manufacturer's printed instructions.(Net area measured)	sq m	40.80
RF.8	0.75 mm profile colourbond /colourcote sheet roof decking, wall cladding, fascia, etc. fixed to timber or steel purlins or angle, rail etc. including all necessary fixing clips, screws, etc. and stops to open rib ends of deck, labour in flange bending to form turn-ups at ridge or turn-down at eaves, all cutting and waste, and all necessary materials, equipment and labour for hoisting and fixing in accordance with the manufacturer's printed instructions. (Net area measured).	sq m	46.60
RF.9	Flashing for galvanized steel profile patterns roof including bending, joints, beaded edges, dressing, cutting chase in masonry work, ceiling chase with cementitious mortar, etc.	sq m	46.00
RF.10	Flashing for colourbond/colourcote steel profile patterns roof including bending, joints, beaded edges, dressing, cutting chase in masonry work, ceiling chase with cementitious mortar, etc. (Net area measured).	sq m	52.10
RF.11	Supply and install "Decrabond" flashing with baked enamel finish of girth 300 mm	m	14.80
RF.12	Supply and install "Decrabond" ridge and hip fitting with baked enamel finish	m	14.40
RF.13	Used corrugated sheet fixed to purlins with one corrugation side laps and minimum 150 mm end laps as specified. (Net area measured).	sq m	6.20
RF.14	Approved non-abestos corrugated sheet fixed to purlins with one corrugation side laps and minimum 150 mm end laps as specified. (Net area measured).	sq m	21.60
RF.15	Used Pattern clay roofing tiles, best quality of approved brand, laid and fixed to existing timber battens and including wiring or nailing tiles to battens at every alternate course (Net area measured).	sq m	10.00
RF.16	Used Pattern clay roofing tiles, best quality of approved brand, laid and including new kapur battens with two coats of approved preservative coating and including wiring or nailing tiles to battens at every alternate course (Net area measured).	sq m	22.20
RF.17	Redland or other equal and approved ordinary colour (red, brown, grey) standard interlocking tiles to match existing if in replacement and laid on and including tandalized sawn kapur battens with copper nails at every alternate course (Net area measured).	sq m	38.00
RF.18	Redland or other equal and approved ordinary colour (red, brown, grey) standard interlocking tiles to match existing if in replacement and laid on including new kapur battens with two coats of approved preservative coating and including tandalized sawn kapur battens with copper nails at every alternate course (Net area measured).	sq m	40.60

S/No	Description	Unit	Unit Cost (\$)
RF.19	Redland or other equal and approved ordinary colour (red, brown, grey) standard interlocking tiles to match existing if in replacement and laid on existing battens (Net area measured).	sq m	21.00
RF.20	Scantile panel or their equal and approved 0.66 mm thick high tensile steel continuous hot dipped galvanized with Kynar 500 Polyvinylidene (PVF2) coating fixed to timber or steel etc. including all necessary materials, equipment and labour for hoisting and fixing in accordance with the manufacturer's printed instructions (Net area measured)	sq m	58.40
RF.21	Redland or other equal and approved special colour (green, yellow, white) standard interlocking tiles to match existing if in replacement and laid on and including tanzitized sawn kapur battens with copper nails at every alternate course (Net area measured).	sq m	39.20
RF.22	Redland or other equal and approved special colour (green, yellow, white) standard interlocking tiles to match existing if in replacement and laid on including new kapur battens with two coats of approved preservative coating and including tanzitized sawn kapur battens with copper nails at every alternate course (Net area measured).	sq m	41.80
RF.23	Redland or other equal and approved special colour (green, yellow, white) standard interlocking tiles to match existing if in replacement and laid on existing battens (Net area measured).	sq m	22.20
RF.24	Monier or other equal and approved ordinary colour pantile to match existing if in replacement and laid on and including tanzitized sawn kapur battens, and nailing to battens with copper nails at every course (Net area measured).	sq m	29.30
RF.25	Monier or other equal and approved ordinary colour pantile to match existing if in replacement and laid on and include new kapur battens with two coats of approved preservative coating and including tanzitized sawn kapur battens, and nailing to battens with copper nails at every course (Net area measured).	sq m	32.40
RF.26	Monier or other equal and approved ordinary colour pantile to match existing if in replacement and laid on laid on existing battens (Net area measured).	sq m	17.30
RF.27	Monier or other equal and approved special colour pantile to match existing if in replacement and laid on and including tanzitized sawn kapur battens, and nailing to battens with copper nails at every course (Net area measured).	sq m	30.70
RF.28	Monier or other equal and approved special colour pantile to match existing if in replacement and laid on and include new kapur battens with two coats of approved preservative coating and including tanzitized sawn kapur battens, and nailing to battens with copper nails at every course (Net area measured).	sq m	33.80
RF.29	Monier or other equal and approved special colour pantile to match existing if in replacement and laid on laid on existing battens (Net area measured).	sq m	18.70
RF.30	Decrabond interlocking roofing tiles as specified including hips and ridges fixed on to and including 38 mm x 50 mm tanzitized sawn kapur battens according to manufacturer's instructions	sq m	55.60
RF.31	Decrabond interlocking roofing tiles as specified including hips and ridges fixed on and including new kapur battens with two coats of approved preservative coating.	sq m	60.50
RF.32	Decrabond interlocking roofing tiles as specified including hips and ridges laid on existing battens.	sq m	43.80

S/No	Description	Unit	Unit Cost (\$)
RF.33	Translucent corrugated fiberglass sheeting weighing 1.82 kg per sq. metre fixed to purlins or rails etc. with two corrugations side laps and with end laps minimum 150 mm including all necessary drive nails and washer or hook bolts and washers, all cutting and fixing all in accordance with manufacturer's instructions (Net area measured)	sq m	72.70
RF.34	Translucent corrugated fiberglass sheeting weighing 2.43 kg per sq. metre fixed to purlins or rails etc. with two corrugations side laps and with end laps minimum 150 mm including all necessary drive nails and washer or hook bolts and washers, all cutting and fixing all in accordance with manufacturer's instructions (Net area measured)	sq m	105.70
RF.35	PVC transparent corrugated sheeting of the same profile to match corrugated asbestos, metal or bituminous roofing sheets fixed to purlins or rails etc. with two corrugations side laps and with minimum 150 mm end laps including all necessary drive nails and washers or hook bolts and washers, all in accordance with manufacturer's instructions (Net area measured).	sq m	23.00
RF.36	Supply only used Chinese tile to match existing with 2 corrugation side laps & 150mm end laps.	no	0.70
RF.37	Supply and fix 0.5mm gauge corrugated aluminium roofing sheet with 125mm side lamps complete with fixing accessories & 150mm minimum end laps. (Measured nett, no allowance made for laps)	sq m	18.00
RF.38	Supply and fix 0.5mm gauge corrugated aluminium roofing sheet with 125mm side lamps complete with fixing accessories & 225mm minimum end laps. (Measured nett, no allowance made for laps)	sq m	21.60
RF.39	Supply and fix 0.5mm gauge corrugated aluminium roofing sheet with 125mm side lamps complete with fixing accessories & 300mm minimum end laps. (Measured nett, no allowance made for laps)	sq m	25.20
RF.40	Supply and fix 0.5mm gauge corrugated aluminium roofing sheet with 125mm side lamps complete with fixing accessories in ridges or hips. (Measured nett, no allowance made for laps)	m	6.60
RF.41	Labour and material replacing Alocrome corrugated roofing sheets including takingdown existing damaged corrugated roofing sheets and removing debris to ENV's dumping ground.	sq m	37.20
RF.42	Labour and material fixing Dico aluminium roofing sheet to roof including taking down existing damaged roofing sheets and removing debris to ENV's dumping ground.	sq m	26.40
RF.43	Supply and fix 0.4mm gauge corrugated galvanised iron roofing sheet with 125mm side laps and complete with fixing accessories & 150mm minimum end laps. (Measured nett, no allowance made for laps).	sq m	17.80
RF.44	Supply and fix 0.5mm gauge corrugated galvanised iron roofing sheet with 125mm side laps and complete with fixing accessories & 150mm minimum end laps. (Measured nett, no allowance made for laps).	sq m	18.40
RF.45	Supply and fix 0.6mm gauge corrugated galvanised iron roofing sheet with 125mm side laps and complete with fixing accessories & 150mm minimum end laps. (Measured nett, no allowance made for laps).	sq m	19.10
RF.46	Supply and fix 0.6mm gauge corrugated galvanised iron roofing sheet with 125mm side laps and complete with fixing accessories & 225mm minimum end laps. (Measured nett, no allowance made for laps).	sq m	19.50
RF.47	Supply and fix 0.6mm gauge corrugated galvanised iron roofing sheet with 125mm side laps and complete with fixing accessories & 300mm minimum end laps. (Measured nett, no allowance made for laps)	sq m	19.80

S/No	Description	Unit	Unit Cost (\$)
RF.48	Supply and fix corrugated galvanised iron roofing sheet with 125mm side laps and complete with fixing accessories in ridges or hips. (Measured nett, no allowance made for laps)	sq m	9.60
RF.49	Supply and fix matching 'J' -hooks to existing corrugated roofing sheets, not exceeding 10 nos. at any one time.	no	6.00
RF.50	Supply and fix matching 'J' -hooks to existing corrugated roofing sheets, exceeding 10 nos. at any one time.	no	4.80
RF.51	Prepare and seal with silicon compound to screw holes of roofing sheets of quantities not exceeding 20 nos.	no	1.20
RF.52	Prepare and seal with silicon compound to screw holes of roofing sheets of quantities exceeding 20 nos.	no	0.80
RF.53	Prepare and seal with silicon compound to defective side-lamps of roofing sheets, flashings, cappings, etc of quantities not exceeding 10m.	m	15.60
RF.54	Prepare and seal with silicon compound to defective side-lamps of roofing sheets, flashings, cappings, etc of quantities exceeding 10m.	m	10.80
RF.55	Labour and material cleaning 50mm wide joints of existing roofing sheets/valley gutters and sealed up with 'Expandite Instantseal'.	m	4.30
RF.56	Labour and material cleaning 75mm wide joints of existing roofing sheets/valley gutters and sealed up with 'Expandite Instantseal'.	m	5.40
RF.57	Labour and material cleaning 100mm wide joints of existing roofing sheets/valley gutters and sealed up with 'Expandite Instantseal'.	m	6.10
RF.58	Labour and materials driving to existing sheeting self-tapping screws not exceeding 13mm diameter x 17mm long including necessary tools.	no	0.60
RF.59	Labour for taking down and removing existing damaged metal roofing sheets to ENV's dumping ground.(Inclusive of ENV dumping charges)	sq m	4.80
RF.60	Labour and material for patching up nail holes in metal roofing sheets with mastic and one layer of bituminous felt.	no	3.00
RF.61	Galvanized steel profile patterns standard ridges capping for pitch roof, notched and dressed down between ribs and fix with approved fasteners (measured net).	m	13.00
RF.62	Galvanized steel profile patterns standard ridges capping for flat roof, notched and dressed down between ribs and fix with approved fasteners (measured net).	m	16.30
RF.63	Galvanized steel profile colourbond ridges capping for pitch roof, notched and dressed down between ribs and fix with approved fasteners (measured net).	m	15.80
RF.64	Galvanized steel profile colourbond ridges capping for flat roof, notched and dressed down between ribs and fix with approved fasteners (measured net).	m	19.60
RF.65	Used clay ridge or hip tiles including bedding and pointing in cement mortar (1:3)	m	4.70
RF.66	Ordinary colour concrete ridge or hip tiles including bedding and pointing in cement mortar (1:3).	m	7.20
RF.67	Special colour concrete ridge or hip tiles including bedding and pointing in cement mortar (1:3).	m	7.70
RF.68	Galvanized iron ridges or hips pieces 300 mm wide fixed complete.	m	6.80
RF.69	Approved non-asbestos close fitting two pieces ridges or hips (measured net).	m	22.80
RF.70	Half round ridge tiles for "Scantile" roof system.	m	34.80
RF.71	Ridge tile end cap for "Scantile" roof system.	no	7.40
RF.72	Gable trim (300 mm girth) for "Scantile" roof system.	m	17.90
RF.73	Wall flashing (240 mm girth) for "Scantile" roof system.	m	20.30
RF.74	Eaves trim (170 mm girth) for "Scantile" roof system.	m	18.60
RF.75	Valley gutter (600 mm girth)	m	28.30

S/No	Description	Unit	Unit Cost (\$)
RF.76	Take out existing valley gutters, flashings, etc. remove off site and prepare to receive new (Rate for new gutters etc. under Section F Structural Steelworks and Metalwork).	sq m	6.20
RF.77	Take out existing eaves gutters including brackets where necessary, remove off site and make good work disturbed.	m	1.40
RF.78	150 mm half-round eaves gutter fabricated from 2.0 mm thick aluminium sheeting with beaded edges and soldered joints, bends, stopped ends, outlets, balloon grating and fixing with and including brackets and connecting to existing gutters and rainwater down pipes.	m	18.60
RF.79	225 mm half-round eaves gutter fabricated from 2.0 mm thick aluminium sheeting with beaded edges and soldered joints, bends, stopped ends, outlets, balloon grating and fixing with and including brackets and connecting to existing gutters and rainwater down pipes.	m	24.60
RF.80	Box/eave gutter and flashing , fitments etc to any sizes and shapes in 2.0 mm thick aluminium sheeting with beaded edges and soldered joints, bends, stopped ends, outlets, balloon grating and fixing with and including brackets and connecting to existing gutters and rainwater down pipes.	sq m	83.40
RF.81	Box/eave gutter and flashing , fitments etc to any sizes and shapes in 1.5 mm thick aluminium sheeting with beaded edges and soldered joints, bends, stopped ends, outlets, balloon grating and fixing with and including brackets and connecting to existing gutters and rainwater down pipes.	sq m	54.60
RF.82	Box/eave gutter and flashing , fitments etc to any sizes and shapes in 1.0 mm thick aluminium sheeting with beaded edges and soldered joints, bends, stopped ends, outlets, balloon grating and fixing with and including brackets and connecting to existing gutters and rainwater down pipes.	sq m	48.60
RF.83	Supply and fix box/eave gutter and flashing , fitments etc to any sizes and shapes from 0.75mm thick aluminium sheeting with beaded edges and soldered joints, bends, stopped ends, outlets balloon grating and fixing with and including brackets and connecting to existing gutters and rainwater down pipes.	sq m	48.00
RF.84	Supply and fix box/eave gutter and flashing , fitments etc to any sizes and shapes from 0.55mm thick aluminium sheeting with beaded edges and soldered joints, bends, stopped ends, outlets balloon grating and fixing with and including brackets and connecting to existing gutters and rainwater down pipes.	sq m	37.80
RF.85	Supply and fix box/eave gutter and flashing , fitments etc to any sizes and shapes from 0.5mm thick stainless steel sheeting with beaded edges and soldered joints, bends, stopped ends, outlets balloon grating and fixing with and including brackets and connecting to existing gutters and rainwater down pipes.	sq m	42.70
RF.86	Supply and fix box/eave gutter and flashing , fitments etc to any sizes and shapes from 0.75mm thick stainless steel sheeting with beaded edges and soldered joints, bends, stopped ends, outlets balloon grating and fixing with and including brackets and connecting to existing gutters and rainwater down pipes.	sq m	85.80
RF.87	Supply and fix box/eave gutter and flashing , fitments etc to any sizes and shapes from 1mm thick stainless steel sheeting with beaded edges and soldered joints, bends, stopped ends, outlets balloon grating and fixing with and including brackets and connecting to existing gutters and rainwater down pipes.	sq m	100.20



S/No	Description	Unit	Unit Cost (\$)
RF.88	Supply and fix box/eave gutter and flashing , fitments etc to any sizes and shapes from 1.5mm thick stainless steel sheeting with beaded edges and soldered joints, bends, stopped ends, outlets balloon grating and fixing with and including brackets and connecting to existing gutters and rainwater down pipes.	sq m	126.60
RF.89	200 mm x 200 mm square trough shaped approved UPVC gutter with solvent cement joint including all necessary mitre joints, caps and mild steel brackets and balloon grating.	m	66.00
RF.90	250 mm x 125 mm square trough shaped approved UPVC gutter with solvent cement joint including all necessary mitre joints, caps and mild steel brackets and balloon grating.	m	56.60
RF.91	150mm diameter half round shaped approved UPVC gutter with solvent cement joint including all necessary mitre joints, caps and mild steel brackets and balloon grating.	m	16.80
RF.92	Clean out and remove rubbish from roof gutters including outlets.	m	1.00
RF.93	0.75 mm thick, 150 mm half-round gutters fabricated from stainless steel sheet complete with bends, stopped ends, balloons grating, outlets and fixing with and including brackets and connecting to existing gutters and rainwater downpipe (Rate Per Metre).	m	31.10
RF.94	1mm thick, 150 mm half-round gutter fabricated from stainless steel sheet complete with bends, stopped ends, balloons grating, outlets and fixing with and including brackets and connecting to existing gutters and rainwater downpipe (Rate Per Metre).	m	36.40
RF.95	1.5mm thick, 150 mm half-round gutter fabricated from stainless steel sheet complete with bends, stopped ends, balloons grating, outlets and fixing with and including brackets and connecting to existing gutters and rainwater downpipe (Rate Per Metre).	m	43.30
RF.96	0.75mm thick, 225 mm half-round gutter fabricated from stainless steel sheet complete with bends, stopped ends, balloons grating, outlets and fixing with and including brackets and connecting to existing gutters and rainwater downpipe (Rate Per Metre).	m	43.80
RF.97	1mm thick, 225 mm half-round gutter fabricated from stainless steel sheet complete with bends, stopped ends, balloons grating, outlets and fixing with and including brackets and connecting to existing gutters and rainwater downpipe (Rate Per Metre).	m	52.10
RF.98	1.5mm thick, 225 mm half-round gutter fabricated from stainless steel sheet complete with bends, stopped ends, balloons grating, outlets and fixing with and including brackets and connecting to existing gutters and rainwater downpipe (Rate Per Metre).	m	60.40
RF.99	Supply and install 100 mm diameter cast iron dome grating and fluted flange including joining to rainwater down pipes and setting in concrete slab to form a water tight joint	no	28.60
RF.100	Supply and install 150 mm diameter cast iron dome grating and fluted flange including joining to rainwater down pipes and setting in concrete slab to form a water tight joint	no	45.40
RF.101	Take out existing rainwater down pipes/scupper drain pipes (any type and size), remove off site and make good work disturbed including necessary cutting in position	m	1.10
RF.102	Take out existing metal holderbats for pipe, ( any diameter ) remove off site and make good work disturbed.	no	0.60

S/No	Description	Unit	Unit Cost (\$)
RF.103	Supply labour and all necessary tools for cleaning choked rain water down pipe/scupper drain pipe (rate per sta no Scaffolding to charge separately if exceeds one sty height.		
RF.104	Supply and install 50 mm diameter UPVC scupper drain pipe/rainwater down pipe.	m	10.20
RF.105	75 mm diameter UPVC rainwater down pipe/scupper drain pipe ditto cement solvent joint including all necessary brackets or fixing straps, down spouts, joiners, elbows, shoes, etc.	m	11.40
RF.106	100 mm diameter UPVC rainwater down pipe/scupper drain pipe(any type and size), remove off site and make good work disturbed including necessary cutting in position.	m	13.80
RF.107	150 mm diameter UPVC rainwater down pipe/scupper drain pipe(any type and size), remove off site and make good work disturbed including necessary cutting in position.	m	25.80
RF.108	150 mm x 100 mm UPVC rainwater down pipe/scupper drain pipe(any type and size), remove off site and make good work disturbed including necessary cutting in position.	m	31.90
RF.109	Take out existing rainwater head (any type and size) and remove off site.	no	2.20
RF.110	Supply and install 75 mm diameter UPVC scupper drain cover to scupper drain outlet including jointing material.	no	2.40
RF.111	Supply and install 100 mm diameter UPVC scupper drain cover to scupper drain outlet including jointing material.	no	3.00
RF.112	Supply and install 75 mm diameter UPVC domed-shape drain cover to drain outlet.	no	22.20
RF.113	Supply and install 100 mm diameter UPVC domed-shape drain cover to drain outlet.	no	24.00
RF.114	Supply and install domed-shape roof outlet, diameter of 'A' measuring approximately 300 mm and rainwater down pipe 'B' measured at a range of 75 mm to 125 mm in diameter (Appendix 8).	no	168.00
RF.115	Fix only any size/shape outlet to roof	no	2.40
RF.116	6 mm thick steel roof trap door with 38 mm x 38 mm mild steel angle framing all round complete with hinges, hasp and staple (padlock measured separately) rest on and including 50 mm x 50 mm mild steel angle fixed to concrete work or the like and three coats painting.	sq m	276.80
RF.117	Take out and cart away existing trap roof door and make good work disturbed.	sq m	26.60
RF.118	Take out and recondition roof trap door.	no	48.00
RF.119	Roof trap door with 18 mm thick water-proof plywood backing, and covered all round with 24 G aluminium sheeting, complete with hinges, hasp and staple (padlock measured) 50 mm x 50 mm x 6 mm mild steel angle fixed to concrete work or the like and three coats painting to angle.	sq m	132.00
RF.120	Strip existing galvanized steel profiled sheeting including ridges and remove off site.	sq m	1.40
RF.121	Strip existing Chinese tiles including ridge and hip tiles and remove off site.	sq m	1.00
RF.122	Strip existing Chinese tiles including ridge and hip tiles including battens and remove off site.	sq m	1.70
RF.123	Strip existing corrugated non-asbestos or trafford type asbestos or including ridges and hips and remove off site.	sq m	0.80
RF.124	Strip existing corrugated metal, bituminous, PVC or Decrabond sheeting including ridges and hips and remove off site.	sq m	0.80
RF.125	Strip existing pattern clay, glass roofing tiles or concrete interlocking tiles including ridge and hip tiles and remove off site.	sq m	1.00

S/No	Description	Unit	Unit Cost (\$)
RF.126	Strip existing pattern clay, glass roofing tiles or concrete interlocking tiles including ridge and hip tiles including battens and remove off site.	sq m	1.60
RF.127	Strip existing galvanized steel sheeting including ridges and carefully stack aside where directed for re-use.	sq m	1.90
RF.128	Strip existing Chinese tiles including ridges and hip tiles and carefully stack aside where directed for re-use.	sq m	1.30
RF.129	Strip existing Chinese tiles including ridges and hip tiles, including taking out battens and removing battens off site and carefully stack aside where directed for re-use.	sq m	2.00
RF.130	Strip existing corrugated non-asbestos or trafford type asbestos including ridges and hips and carefully stack aside where directed for re-use.	sq m	1.00
RF.131	Strip existing corrugated metal, bituminous, PVC or Decrabond sheeting including ridges and hips and carefully stack aside where directed for re-use.	sq m	1.00
RF.132	Strip existing pattern clay, glass roofing tiles or concrete interlocking tiles, pantiles, including ridges and hips and carefully stack aside where directed for re-use.	sq m	1.10
RF.133	Strip existing pattern clay, glass roofing tiles or concrete interlocking tiles, pantiles, including ridges and hips & including taking out battens and removing battens off site and carefully stack aside where directed for re-use.	sq m	1.90
RF.134	Take from stack relay existing galvanized steel profiled pattern sheeting including ridges fixed with new clips, screws etc. where necessary. (New sheet measured separately).	sq m	4.10
RF.135	Take from stack relay existing Chinese tiles including ridge and hip tiles and filling and pointing ends of crowns of tiles with cement mortar (1:3) at 1000 mm intervals. (New sheet measured separately).	sq m	5.00
RF.136	Take from stack relay existing Chinese tiles including ridge and hip tiles and filling and pointing ends of crowns of tiles with cement mortar (1:3) at 1000 mm intervals including new kapur battens with two coats of approved preservative coating. (New sheet measured separately).	sq m	27.20
RF.137	Take from stack relay existing non-asbestos (any type) metal, bituminous, PVC or Decrabond interlocking roofing tiles laid with adequate side and end laps fixed with new galvanized drive nails and washers or new galvanized hook bolts and washers. (New sheet measured separately).	sq m	5.20
RF.138	Take from stack relay existing non- asbestos (any type) metal, bituminous, PVC or Decrabond interlocking roofing tiles laid with adequate side and end laps fixed with new galvanized drive nails and washers or new galvanized hook bolts and washers including bedding side and end laps with approved adhesive. (New sheet measured separately).	sq m	11.20
RF.139	Take from stack relay existing pattern clay tile, glass roofing tile, concrete standard interlocking tile or concrete pantile including new copper nails. (New sheet measured separately).	sq m	5.20
RF.140	Take from stack relay existing pattern clay tile, glass roofing tile, concrete standard interlocking tile or concrete pantile including new copper nails including new kapur battens with two coats of approved preservative coating. (New sheet measured separately).	sq m	26.90
RF.141	Take from stack relay existing clay or concrete ridge/ hip tiles including bedding and pointing in cement mortar (1:3). (New sheet measured separately).	m	3.70
RF.142	Take from stack relay existing cement or metal or bituminous or Decrabond ridges and hips fixed complete. (New sheet measured separately).	m	5.90

S/No	Description	Unit	Unit Cost (\$)
RF.143	Supply and installation of 50mm thick Insulfoam MRB-32 or other equal and approved moulded expanded polystyrene board (laid to falls) with self-interlocking system as described laid in strict accordance with Manufacturer's instructions	sq m	25.20
RF.144	Saturated bitumen two-ply felt as specified in two layer weighing 35.5 kg per 20 sq m roll laid, sealed and bonded with hot bitumen on flat roofs (net area measured).	sq m	13.20
RF.145	Saturated bitumen two-ply felt as specified in two layer weighing 35.5 kg per 20sq m roll laid, sealed and bonded with hot bitumen on flat roofs in skirting, upstands, eaves, edges, gutters, etc. (net area measured).	sq m	23.00
RF.146	Saturated bitumen two-ply felt as specified in one layer weighing 35.5 kg per 20sq m roll laid, sealed and bonded with hot bitumen on flat roofs (net area measured).	sq m	7.70
RF.147	Saturated bitumen one-ply felt as specified in one layer weighing 35.5 kg per 20sq m roll laid, sealed and bonded with hot bitumen on flat roofs in skirting, upstands, eaves, edges, gutters (net area measured).	sq m	13.30
RF.148	Saturated bitumen one-ply felt as specified weighing 17.75 kg per 20sq m roll laid, sealed and bonded with hot bitumen on roofs (net area measured).	sq m	6.70
RF.149	Saturated bitumen one-ply felt as specified weighing 17.75 kg per 20sq m roll laid, sealed and bonded with hot bitumen on roofs in skirting, upstands, eaves, edges, gutters (net area measured).	sq m	12.50
RF.150	Extra labour and material to dressing to outlets fitting etc.	no	22.80
RF.151	6 mm thick layer of granite chips (3 mm size) laid shoulder to shoulder on and including hot bitumen dressing compound to flat roofs.	sq m	3.00
RF.152	One coat of hot bituminous compound laid at 1.5 kg per 10sq m.	sq m	2.00
RF.153	Supply and lay ONE layer of 4mm thick "Torch On " waterproofing membrane on concrete flat roof including one coat of bitumen black primer and 150mm height upturn for skirting.	sq m	24.00
RF.154	Patent panel roofing comprising three layers bituminous felt, the first and second layers each weighing 27 kg per 20sq m roll (1 ply) and the third layer weighing 45 kg per 20sq m roll (3 ply) laid on flat roof in accordance with specialist recommendations.	sq m	19.90
RF.155	Patent panel roofing comprising three layers bituminuos felt,the first and second layers each weighing 27 kg per 20sq m roll (1 ply) and the third layer weighing 45 kg per 20sq m roll (3 ply) laid in skirting, upstands, eaves, edges, gutters, etc.	sq m	35.80
RF.156	Average 25 mm thick waterproof cement and sand (1:3) topping laid in panels of 750 x 750 mm to slope or flat roof all in accordance with specialist recommendation including steel trowelled and finished to falls.	sq m	18.70
RF.157	Average 25 mm thick waterproof cement and sand (1:3) topping laid in panels of 750 x 750 mm to slope or flat roof all in accordance with specialist recommendation including steel trowelled and finished to falls in skirting, upstands, eaves, edges, gutters, etc.	sq m	24.40
RF.158	Add for each additional 5 mm thick waterproof of cement and sand topping as before described.	sq m	3.10
RF.159	Remove existing felt roofing including chipping, if any. Prepare surface to receive new and debris off site.	sq m	4.20
RF.160	Remove existing cement panels and if necessary prepare surface to receive new and debris off site.	sq m	6.00
RF.161	Hack up existing cement panels and make good in patches, each patch not exceeding 2 panels and 25 mm thick and debris off site (rate per patch).	no	4.00

S/No	Description	Unit	Unit Cost (\$)
RF.162	Hack up existing cement panels and make good in patches, each patch not exceeding 2 panels and 25 mm thick including replacement of 3 layers roofing felts as before specified and cement panels in patches and debris off site (rate per patch).	no	47.30
RF.163	Approved bituminous liquid solution fillings to expansion joints of panel roofing, crevices, cracks, etc. approximately 15 mm wide x 22 mm deep to panel roofing including forming groove if necessary.	m	1.30
RF.164	Approved bituminous liquid solution fillings to expansion joints of panel roofing, crevices, cracks, etc. approximately 15 mm wide x 22 mm deep to panel roofing including forming groove if necessary, in replacement including hacking existing fillings and carting away debris on completion.	m	2.20
RF.165	Investigate and cure leak in tiled roof including providing new tiles not exceeding 0.50sq m in area to match existing for 1st spot of leak (NOTE: Individual block of building considered separately).	no	28.80
RF.166	Investigate and cure leak in tiled roof including providing new tiles not exceeding 0.50sq m in area to match existing for each additional spot of leak (NOTE: Individual block of building considered separately).	no	17.20
RF.167	Seal existing nail or bolts heads with bituminous sealing compound on corrugated roofing sheets (Measured net area from mid-point of nail heads).	sq m	1.60
RF.168	Seal existing nail or bolts heads with liquid-applied membrane of heavy duty acrylic polymer reinforced fiber glass on corrugated roofing sheets (Measured net area from mid-point of nail heads).	sq m	4.80
RF.169	Seal existing side and end laps with bituminous sealing compound irrespective of girth inclusive of cement mortar where necessary.	m	1.60
RF.170	Seal existing side and end laps with liquid applied membrane of heavy duty acrylic polymer reinforced by fiber glass.	m	5.00
RF.171	Supply labour and material to bend deck flange at existing metal roof decking.	m	2.90
RF.172	Take out existing roof sheeting, seal side and end laps with sealing compound and relay including new drive nails and washers or hook bolts and washers (new roof sheeting measured separately).	sq m	12.10
RF.173	Remove existing dead light including frame, glass, etc. and make good to surrounds to receive new, or tiles or roofing sheets to match existing and including removing debris off site (Tiles, roofing sheets and extra roofing joists measured separately).	sq m	25.90
RF.174	Remove existing lantern light including frame, glass, etc. and make good to surrounds to receive new, or tiles or roofing sheets to match existing and including removing debris off site (Tiles, roofing sheets and extra roofing joists measured separately) (measured on plan).	sq m	38.90
RF.175	Supply and fix 16 mm diameter steel sag rod exceeding 500 mm and n.e. 800 m long including bolts, nuts and washers.	no	7.90
RF.176	Supply and install 150 mm wide "Emfiband" to roof.	m	10.20
RF.177	Formstar clear/coloured weather proof coatings system on flat surfaces laid to fall not exceeding 50sq m.	sq m	20.20
RF.178	Formstar clear/coloured weather proof coatings system on flat surfaces laid to fall exceeding 50sq m.	sq m	18.60
RF.179	Formstar clear/coloured weather proof coatings system on wall, parapet wall, plinth gutter, skirting, upstand and the like exceeding 150 mm girth.	sq m	21.00
RF.180	Prepare new roof decking and apply 2 coats of Flinkote PF 4 or Shellkote Type 3.	sq m	9.10
RF.181	Prepare new metal or concrete roof decking and apply 2 coats of bitumen solution and 2 coats santex-matt coating.	sq m	10.60

S/No	Description	Unit	Unit Cost (\$)
RF.182	Prepare existing metal or concrete roof decking previously painted with sandtex-matt coating, clean and apply 2 coats of sandtex-matt coating.	sq m	9.10
RF.183	Prepare new wall cladding and apply 2 coats of Flinkote PF 4 or Shellkote Type 3.	sq m	9.70
RF.184	Prepare new wall cladding and apply 2 coats of bitumen solution and 2 coats santex-matt coating.	sq m	11.20
RF.185	Prepare existing wall cladding previously painted with sandtex-matt coating, clean and apply 2 coats of sandtex-matt coating.	sq m	9.70
RF.186	Brush down and apply one coat of approved bituminous base aluminium solution formulated with high grade bitumen and finely divided aluminium on surfaces of roofing felt, asphalt, concrete, etc.	sq m	5.50
RF.187	Brush down and apply 3 coats of rubberized flat paint on cement rendering surface	sq m	17.30
RF.188	Prepare existing surfaces of cement rendering, etc. and wash down to receive finishing.	sq m	1.70
RF.189	Supply and apply Vandex waterproofing compound to concrete surface including labour and materials for surface preparation, etc. in accordance with manufacturer's instructions.	sq m	24.00
RF.190	Supply and apply QUIC-seal 102 water proofing compound to concrete surfaces including labour and materials for surface preparation, etc. in accordance with manufacturer's instructions.	sq m	14.30
RF.191	Supply and apply QUIC-seal 102 waterproofing compound to concrete surfaces including labour and materials for surface preparation, etc. in accordance with manufacturer's instructions.	sq m	17.40
RF.192	Supply and lay Bituthene 3000 waterproofing membrane to concrete surface including labour and materials for surface preparation and apply one coat of bituthene primer to receive waterproofing membrane, all as specified and in accordance with the manufacturer's instructions (rate inclusive of the provision of a 10-year warranty).	sq m	13.80
RF.193	Prepare and apply Bituthene EM3000 elastomeric sealant in and including forming of 25 mm width chases in concrete structure, all in accordance with manufacturer's instructions.	m	7.30
RF.194	Supply and lay approved felt as protective cover to Bituthene 3000 waterproofing membrane including EM3000 mastic adhesive.	sq m	7.80
RF.195	Supply and lay over flat roof in 1mx1m x25mm thick panels in cement and sand (1:2) mortar mixed with Sika waterproofing compound as per manufacturer's instructions in the proportion of 2.3 kg of waterproofing compound to 45 kg of cement and 10 m joints subsequently filled with and including bituminous compound.	sq m	21.60
RF.196	Break up existing cement panels, clean up surface and remove debris, hack to form key and supply and lay one layer of Bituprimer and one layer of Asbestumen, each layer is to be about 1.6 mm thick; supply and lay over the Bituprima layer 25 mm thick cement and sand (1:2) mortar mixed with waterproofing compound of Sika or other approved waterproofing compound in accordance with the manufacturer's instructions. The cement and sand mortar shall be laid in panels of not more than 1 m x 1 m square with joints 10 mm wide filled with and including bituminous compound.	sq m	48.00
RF.197	Supply and lay new Bituflex BF-160 self-adhesive waterproof membrane to existing roof surfaces all in accordance with the manufacturer's instructions.	sq m	19.80
RF.198	Supply and lay one coat of Bituprima or Bituproof prior to the application of bitumastic compound as a base.	sq m	4.20

S/No	Description	Unit	Unit Cost (\$)
RF.199	Supply and lay one layer of Bituprima and one layer of Asbestumen bitumastic solution to an average thickness of 1.6 mm each layer.	sq m	7.40
RF.200	Prepare existing flat roof by removing all bituminous joints, plants, debris, etc., cleaning and filling up grooves, cracks etc. with approved sealant and wash clean to receive new roofing. (NOTE: New screed measured separately).	sq m	5.80
RF.201	On flat surfaces laid to fall not exceeding 50sq m, 2.1 mm thick "Nuralite" roof covering system laid in panels of 2.40 m x 0.90 m.	sq m	57.00
RF.202	On flat surfaces laid to fall not exceeding 50sq m, 2.00 mm thick "Carbofol" roof covering system.	sq m	44.40
RF.203	On flat surfaces laid to fall not exceeding 50sq m, 1.00 mm thick "Skellurup Butyclad" roof covering system.	sq m	63.00
RF.204	On flat surfaces laid to fall not exceeding 50sq m, Traffigard roof covering.	sq m	47.90
RF.205	On flat surfaces laid to fall not exceeding 50sq m, Formstar Clear/Colour roof covering.	sq m	20.20
RF.206	On flat surfaces laid to fall not exceeding 50sq m, 4 mm thick "Polygum" roof covering system.	sq m	47.20
RF.207	On flat surfaces laid to fall not exceeding 50sq m, 4 mm thick "Index" roof covering system.	sq m	23.30
RF.208	On flat surfaces laid to fall not exceeding 50sq m, 4.50 mm thick "Index Mineral Green" roof covering system.	sq m	33.40
RF.209	Supply & lay on wall, parapet wall, conc. plinth, rc gutter, skirting, upstand and the like not exceeding 50sq m, 2.1 mm thick "Nuralite" roof covering system laid in panels of 2.40 m x 0.90m.	sq m	62.80
RF.210	Supply & lay on wall, parapet wall, conc. plinth, rc gutter, skirting, upstand and the like not exceeding 50sq m, 2.00 mm thick "Carbofol" roof covering system.	sq m	48.80
RF.211	Supply & lay on wall, parapet wall, conc. plinth, rc gutter, skirting, upstand and the like not exceeding 50sq m, 1.00 mm thick "Skellurup Butyclad" roof covering system.	sq m	69.40
RF.212	Supply & lay on wall, parapet wall, conc. plinth, rc gutter, skirting, upstand and the like not exceeding 50sq m, Traffigard roof covering.	sq m	52.70
RF.213	Supply & lay on wall, parapet wall, conc. plinth, rc gutter, skirting, upstand and the like not exceeding 50sq m, Formstar Clear/Colour roof covering.	sq m	21.00
RF.214	Supply & lay on wall, parapet wall, conc. plinth, rc gutter, skirting, upstand and the like not exceeding 50sq m, 4 mm thick "Polygum" roof covering system.	sq m	50.30
RF.215	Supply & lay on wall, parapet wall, conc. plinth, rc gutter, skirting, upstand and the like not exceeding 50sq m, 4 mm thick "Index" roof covering system.	sq m	25.60
RF.216	Supply & lay on wall, parapet wall, conc. plinth, rc gutter, skirting, upstand and the like not exceeding 50sq m, 4.50 mm thick "Index Mineral Green" roof covering system.	sq m	36.70
RF.217	On flat surfaces laid to fall exceeding 50sq m, 2.1 mm thick "Nuralite" roof covering system laid in panels of 2.40 m x 0.90 m.	sq m	41.60
RF.218	On flat surfaces laid to fall exceeding 50sq m, 2.00 mm thick "Carbofol" roof covering system.	sq m	37.00
RF.219	On flat surfaces laid to fall exceeding 50sq m, 1.00 mm thick "Skellurup Butyclad" roof covering system.	sq m	58.00
RF.220	On flat surfaces laid to fall exceeding 50sq m, Traffigard roof covering.	sq m	32.80
RF.221	On flat surfaces laid to fall exceeding 50sq m, Formstar Clear/Colour roof covering.	sq m	18.60

S/No	Description	Unit	Unit Cost (\$)
RF.222	On flat surfaces laid to fall exceeding 50sq m, 4 mm thick "Polygum" roof covering system.	sq m	38.80
RF.223	On flat surfaces laid to fall exceeding 50sq m, 4 mm thick "Index" roof covering system.	sq m	21.50
RF.224	On flat surfaces laid to fall exceeding 50sq m, 4.50 mm thick "Index Mineral Green" roof covering system.	sq m	30.80
RF.225	Supply & lay on wall, parapet wall, conc. plinth, rc gutter, skirting, upstand and the like exceeding 50sq m, 2.1 mm thick "Nuralite" roof covering system laid in panels of 2.40 m x 0.90 m.	sq m	45.40
RF.226	Supply & lay on wall, parapet wall, conc. plinth, rc gutter, skirting, upstand and the like exceeding 50sq m, 2.00 mm thick "Carbofol" roof covering system.	sq m	40.70
RF.227	Supply & lay on wall, parapet wall, conc. plinth, rc gutter, skirting, upstand and the like exceeding 50sq m, 1.00 mm thick "Skellurup Butyclad" roof covering system.	sq m	63.00
RF.228	Supply & lay on wall, parapet wall, conc. plinth, rc gutter, skirting, upstand and the like exceeding 50sq m, Traffigard roof covering.	sq m	35.30
RF.229	Supply & lay on wall, parapet wall, conc. plinth, rc gutter, skirting, upstand and the like exceeding 50sq m, Formstar Clear/Colour roof covering.	sq m	19.40
RF.230	Supply & lay on wall, parapet wall, conc. plinth, rc gutter, skirting, upstand and the like exceeding 50sq m, 4 mm thick "Polygum" roof covering system.	sq m	47.90
RF.231	Supply & lay on wall, parapet wall, conc. plinth, rc gutter, skirting, upstand and the like exceeding 50sq m, 4 mm thick "Index" roof covering system.	sq m	24.50
RF.232	Supply & lay on wall, parapet wall, conc. plinth, rc gutter, skirting, upstand and the like exceeding 50sq m, 4.50 mm thick "Index Mineral Green" roof covering system.	sq m	35.30
RF.233	Dressing around vent pipes/rainwater outlets and the like, 2.1 mm thick "Nuralite" roof covering system laid in panels of 2.40 m x 0.90 m.	no	21.80
RF.234	Dressing around vent pipes/rainwater outlets and the like, 2.00 mm thick "Carbofol" roof covering system.	no	21.80
RF.235	Dressing around vent pipes/rainwater outlets and the like, 1.00 mm thick "Skellurup Butyclad" roof covering system.	no	13.90
RF.236	Dressing around vent pipes/rainwater outlets and the like, Traffigard roof covering.	no	11.00
RF.237	Dressing around vent pipes/rainwater outlets and the like, 4 mm thick "Polygum" roof covering system.	no	21.80
RF.238	Dressing around vent pipes/rainwater outlets and the like, 4 mm thick "Index" roof covering system.	no	21.80
RF.239	Dressing around vent pipes/rainwater outlets and the like, 4.50 mm thick "Index Mineral Green" roof covering system.	no	21.80
RF.240	On flat surfaces laid to fall not exceeding 50sq m, 0.9mm "Hypalon Uniroof Membrane" - Fibre Backed roof covering system.	sq m	42.20
RF.241	On flat surfaces laid to fall not exceeding 50sq m, 1.2mm "Hypalon Uniroof Membrane" - Fibre Backed roof covering system.	sq m	47.90
RF.242	On flat surfaces laid to fall not exceeding 50sq m, 0.9mm "Hypalon Uniroof Reinforced Membrane" roof covering system.	sq m	50.20
RF.243	On flat surfaces laid to fall not exceeding 50sq m, 1.2mm "Hypalon Uniroof Reinforced Membrane" roof covering system.	sq m	51.70
RF.244	On flat surfaces laid to fall not exceeding 50sq m, 3mm "Uniflame" Polyester Based Torch-On roof covering system.	sq m	34.10
RF.245	On flat surfaces laid to fall not exceeding 50sq m, 4mm "Uniflame" Polyester Based Torch-On roof covering system.	sq m	36.60



S/No	Description	Unit	Unit Cost (\$)
RF.246	On flat surfaces laid to fall not exceeding 50sq m, "Durarroof" Polyurethane Based Liquid Membrane roof covering system.	sq m	39.10
RF.247	Supply & lay on wall, parapet wall, conc. Plinth, rc gutter, skirting, upstands and the like not exceeding 50sq m, 0.9mm "Hypalon Uniroof Membrane" - Fibre Backed roof covering system.	sq m	46.40
RF.248	Supply & lay on wall, parapet wall, conc. Plinth, rc gutter, skirting, upstands and the like not exceeding 50sq m, 1.2mm "Hypalon Uniroof Membrane" - Fibre Backed roof covering system.	sq m	52.70
RF.249	Supply & lay on wall, parapet wall, conc. Plinth, rc gutter, skirting, upstands and the like not exceeding 50sq m, 0.9mm "Hypalon Uniroof Reinforced Membrane" roof covering system.	sq m	55.20
RF.250	Supply & lay on wall, parapet wall, conc. Plinth, rc gutter, skirting, upstands and the like not exceeding 50sq m, 1.2mm "Hypalon Uniroof Reinforced Membrane" roof covering system.	sq m	56.90
RF.251	Supply & lay on wall, parapet wall, conc. Plinth, rc gutter, skirting, upstands and the like not exceeding 50sq m, 3mm "Uniflame" Polyester Based Torch-On roof covering system.	sq m	37.40
RF.252	Supply & lay on wall, parapet wall, conc. Plinth, rc gutter, skirting, upstands and the like not exceeding 50sq m, 4mm "Uniflame" Polyester Based Torch-On roof covering system.	sq m	40.30
RF.253	Supply & lay on wall, parapet wall, conc. Plinth, rc gutter, skirting, upstands and the like not exceeding 50sq m, "Durarroof" Polyurethane Based Liquid Membrane roof covering system.	sq m	43.10
RF.254	On flat surfaces laid to fall exceeding 50sq m, 0.9mm "Hypalon Uniroof Membrane" - Fibre Backed roof covering system.	sq m	41.60
RF.255	On flat surfaces laid to fall exceeding 50sq m, 1.2mm "Hypalon Uniroof Membrane" - Fibre Backed roof covering system.	sq m	46.70
RF.256	On flat surfaces laid to fall exceeding 50sq m, 0.9mm "Hypalon Uniroof Reinforced Membrane" roof covering system.	sq m	47.90
RF.257	On flat surfaces laid to fall exceeding 50sq m, 1.2mm "Hypalon Uniroof Reinforced Membrane" roof covering system.	sq m	50.40
RF.258	On flat surfaces laid to fall exceeding 50sq m, 3mm "Uniflame" Polyester Based Torch-On roof covering system.	sq m	32.40
RF.259	On flat surfaces laid to fall exceeding 50sq m, 4mm "Uniflame" Polyester Based Torch-On roof covering system.	sq m	33.60
RF.260	On flat surfaces laid to fall exceeding 50sq m, "Durarroof" Polyurethane Based Liquid Membrane roof covering system.	sq m	37.80
RF.261	Supply & lay on wall, parapet wall, conc. Plinth, rc gutter, skirting, upstands and the like exceeding 50sq m, 0.9mm "Hypalon Uniroof Membrane" - Fibre Backed roof covering system.	sq m	45.80
RF.262	Supply & lay on wall, parapet wall, conc. Plinth, rc gutter, skirting, upstands and the like exceeding 50sq m, 1.2mm "Hypalon Uniroof Membrane" - Fibre Backed roof covering system.	sq m	51.40
RF.263	Supply & lay on wall, parapet wall, conc. Plinth, rc gutter, skirting, upstands and the like exceeding 50sq m, 0.9mm "Hypalon Uniroof Reinforced Membrane" roof covering system.	sq m	52.70
RF.264	Supply & lay on wall, parapet wall, conc. Plinth, rc gutter, skirting, upstands and the like exceeding 50sq m, 1.2mm "Hypalon Uniroof Reinforced Membrane" roof covering system.	sq m	55.40
RF.265	Supply & lay on wall, parapet wall, conc. Plinth, rc gutter, skirting, upstands and the like exceeding 50sq m, 3mm "Uniflame" Polyester Based Torch-On roof covering system.	sq m	35.60

S/No	Description	Unit	Unit Cost (\$)
RF.266	Supply & lay on wall, parapet wall, conc. Plinth, rc gutter, skirting, upstands and the like exceeding 50sq m, 4mm "Uniflame" Polyester Based Torch-On roof covering system.	sq m	37.00
RF.267	Supply & lay on wall, parapet wall, conc. Plinth, rc gutter, skirting, upstands and the like exceeding 50sq m, "Durarroof" Polyurethane Based Liquid Membrane roof covering system.	sq m	41.60
RF.268	Dressing around vent pipes/rainwater outlets and the like, 0.9mm "Hypalon Uniroof Membrane" - Fibre Backed roof covering system.	no	21.80
RF.269	Dressing around vent pipes/rainwater outlets and the like, 1.2mm "Hypalon Uniroof Membrane" - Fibre Backed roof covering system.	no	21.80
RF.270	Dressing around vent pipes/rainwater outlets and the like, 0.9mm "Hypalon Uniroof Reinforced Membrane" roof covering system.	no	21.80
RF.271	Dressing around vent pipes/rainwater outlets and the like, 1.2mm "Hypalon Uniroof Reinforced Membrane" roof covering system.	no	21.80
RF.272	Dressing around vent pipes/rainwater outlets and the like, 3mm "Uniflame" Polyester Based Torch-On roof covering system.	no	21.80
RF.273	Dressing around vent pipes/rainwater outlets and the like, 4mm "Uniflame" Polyester Based Torch-On roof covering system.	no	21.80
RF.274	Dressing around vent pipes/rainwater outlets and the like, "Durarroof" Polyurethane Based Liquid Membrane roof covering system.	no	21.80
RF.275	On flat surfaces laid to fall not exceeding 50sq m, "Chevaline Dextx" Liquid Applied Membrane Roof Covering System.	sq m	33.00
RF.276	On flat surfaces laid to fall not exceeding 50sq m, "Vulken 801" Liquid Applied Elastomeric Membrane Roof Covering System.	sq m	52.90
RF.277	On flat surfaces laid to fall not exceeding 50sq m, 2 mm thick "L & M Santac" Sheet.	sq m	50.60
RF.278	On flat surfaces laid to fall not exceeding 50sq m, 3mm "Impec" Roof Covering System.	sq m	24.00
RF.279	On flat surfaces laid to fall not exceeding 50sq m, 4mm "Impec" Roof Covering System.	sq m	25.80
RF.280	On flat surfaces laid to fall not exceeding 50sq m, 4.5 mm thick "Imper" Mineral Green Roof Covering System.	sq m	34.20
	Supply & lay on wall, parapet wall, conc. Plinth, rc gutter, skirting, upstands and the like not exceeding 50sq m, "Chevaline Dextx" Liquid Applied Membrane Roof Covering System.	sq m	36.40
RF.281	Supply & lay on wall, parapet wall, conc. Plinth, rc gutter, skirting, upstands and the like not exceeding 50sq m, "Vulken 801" Liquid Applied Elastomeric Membrane Roof Covering System.	sq m	58.20
RF.282	Supply & lay on wall, parapet wall, conc. Plinth, rc gutter, skirting, upstands and the like not exceeding 50sq m, 2 mm thick "L & M Santac" Sheet.	sq m	56.30
RF.283	Supply & lay on wall, parapet wall, conc. Plinth, rc gutter, skirting, upstands and the like not exceeding 50sq m, 3mm "Impec" Roof Covering System.	sq m	26.40
RF.284	Supply & lay on wall, parapet wall, conc. Plinth, rc gutter, skirting, upstands and the like not exceeding 50sq m, 4mm "Impec" Roof Covering System.	sq m	27.60
RF.285	Supply & lay on wall, parapet wall, conc. Plinth, rc gutter, skirting, upstands and the like not exceeding 50sq m, 4.5 mm thick "Imper" Mineral Green Roof Covering System.	sq m	36.60
RF.286	On flat surfaces laid to fall exceeding 50sq m, "Chevaline Dextx" Liquid Applied Membrane Roof Covering System.	sq m	30.40

S/No	Description	Unit	Unit Cost (\$)
RF.287	On flat surfaces laid to fall exceeding 50sq m, "Vulken 801" Liquid Applied Elastomeric Membrane Roof Covering System.	sq m	47.30
RF.288	On flat surfaces laid to fall exceeding 50sq m, 2 mm thick "L & M Santac" Sheet.	sq m	47.90
RF.289	On flat surfaces laid to fall exceeding 50sq m, 3mm "Impec" Roof Covering System.	sq m	21.60
RF.290	On flat surfaces laid to fall exceeding 50sq m, 4mm "Impec" Roof Covering System.	sq m	23.40
RF.291	On flat surfaces laid to fall exceeding 50sq m, 4.5 mm thick "Imper" Mineral Green Roof Covering System.	sq m	32.40
RF.292	Supply & lay on wall, parapet wall, conc. Plinth, rc gutter, skirting, upstands and the like exceeding 50sq m, "Chevaline Dextx" Liquid Applied Membrane Roof Covering System.	sq m	33.40
RF.293	Supply & lay on wall, parapet wall, conc. Plinth, rc gutter, skirting, upstands and the like exceeding 50sq m, "Vulken 801" Liquid Applied Elastomeric Membrane Roof Covering System.	sq m	52.10
RF.294	Supply & lay on wall, parapet wall, conc. Plinth, rc gutter, skirting, upstands and the like exceeding 50sq m, 2 mm thick "L & M Santac" Sheet.	sq m	52.70
RF.295	Supply & lay on wall, parapet wall, conc. Plinth, rc gutter, skirting, upstands and the like exceeding 50sq m, 3mm "Impec" Roof Covering System.	sq m	24.00
RF.296	Supply & lay on wall, parapet wall, conc. Plinth, rc gutter, skirting, upstands and the like exceeding 50sq m, 4mm "Impec" Roof Covering System.	sq m	25.80
RF.297	Supply & lay on wall, parapet wall, conc. Plinth, rc gutter, skirting, upstands and the like exceeding 50sq m, 4.5 mm thick "Imper" Mineral Green Roof Covering System.	sq m	34.80
RF.298	Dressing around vent pipes/rainwater outlets and the like, "Chevaline Dextx" Liquid Applied Membrane Roof Covering System.	sq m	21.80
RF.299	Dressing around vent pipes/rainwater outlets and the like, "Vulken 801" Liquid Applied Elastomeric Membrane Roof Covering System.	sq m	11.00
RF.300	Dressing around vent pipes/rainwater outlets and the like, 2 mm thick "L & M Santac" Sheet.	sq m	18.00
RF.301	Dressing around vent pipes/rainwater outlets and the like, 3mm "Impec" Roof Covering System.	sq m	17.40
RF.302	Dressing around vent pipes/rainwater outlets and the like, 4mm "Impec" Roof Covering System.	sq m	17.40
RF.303	Dressing around vent pipes/rainwater outlets and the like, 4.5 mm thick "Imper" Mineral Green Roof Covering System.	sq m	18.60

## 5. CARPENTER

S/No	Description	Unit	Unit Cost (\$)
CP.1	Timber fixed in sawn Chengal	cu m	573.10
CP.2	Timber fixed in wrot Chengal	cu m	3000.00
CP.3	Timber fixed in sawn Kapur	cu m	1720.70
CP.4	Timber fixed in wrot Kapur	cu m	1920.00
CP.5	Timber fixed in sawn Balau	cu m	2123.60
CP.6	Timber fixed in wrot Balau	cu m	2530.00
CP.7	Timber fixed in sawn Keruing	cu m	1430.00
CP.8	Timber fixed in wrot Keruing	cu m	1650.00
CP.9	Timber fixed in sawn Kempas	cu m	1386.70
CP.10	Timber fixed in wrot Kempas	cu m	1540.00

S/No	Description	Unit	Unit Cost (\$)
CP.11	Add to items (CP001) to (CP005) above if in prefabricated roof trusses for transporting, hoisting and fixing in position not exceeding 6 m high and including bolts, screws, fixing plates etc.	cu m	211.80
CP.12	Add to items (CP001) to (CP005) above if in prefabricated roof trusses for transporting, hoisting and fixing in position exceeding 6 m and not exceeding 9m high and including bolts, screws, fixing plates etc.	cu m	222.40
CP.13	Add to items (CP001) to (CP005) above if in prefabricated roof trusses for transporting, hoisting and fixing in position exceeding 9 m and not exceeding 12m high and including bolts, screws, fixing plates etc.	cu m	233.00
CP.14	Add to items (CP001) to (CP005) above if fixed in repairs to replace old and decayed timber, remove off site and including all strutting, steel straps splicing etc and making good damaged or missing.	cu m	264.00
CP.15	Add to items (CP001) to (CP005) if pressure impregnated timber is used.	cu m	108.80
CP.16	Extra over structural timber for pressure impregnation with a suitable wood preservative to an average dry sact retention of 5.6 kg/cu m and complying with SS 72 and treated in accordance with SS CP1.	cu m	73.70
CP.17	19mm wrot plain Chengal square edge boarding to floors, shelves, fitments, partitions, ceiling, etc in new or existing work (in patches) well cramped up, nailed or screwed to bearers (bearers measured separately)	sq m	48.40
CP.18	25mm wrot plain Chengal square edge boarding to floors, shelves, fitments, partitions, ceiling, etc in new or existing work (in patches) well cramped up, nailed or screwed to bearers (bearers measured separately)	sq m	56.10
CP.19	28mm wrot plain Chengal square edge boarding to floors, shelves, fitments, partitions, ceiling, etc in new or existing work (in patches) well cramped up, nailed or screwed to bearers (bearers measured separately)	sq m	61.60
CP.20	38mm wrot plain Chengal square edge boarding to floors, shelves, fitments, partitions, ceiling, etc in new or existing work (in patches) well cramped up, nailed or screwed to bearers (bearers measured separately)	sq m	72.60
CP.21	19mm wrot plain Kapur square edge boarding to floors, shelves, fitments, partitions, ceiling, etc in new or existing work (in patches) well cramped up, nailed or screwed to bearers (bearers measured separately)	sq m	37.50
CP.22	25mm wrot plain Kapur square edge boarding to floors, shelves, fitments, partitions, ceiling, etc in new or existing work (in patches) well cramped up, nailed or screwed to bearers (bearers measured separately)	sq m	42.40
CP.23	28mm wrot plain Kapur square edge boarding to floors, shelves, fitments, partitions, ceiling, etc in new or existing work (in patches) well cramped up, nailed or screwed to bearers (bearers measured separately)	sq m	44.00
CP.24	38mm wrot plain Kapur square edge boarding to floors, shelves, fitments, partitions, ceiling, etc in new or existing work (in patches) well cramped up, nailed or screwed to bearers (bearers measured separately)	sq m	48.40
CP.25	19mm wrot plain Balau square edge boarding to floors, shelves, fitments, partitions, ceiling, etc in new or existing work (in patches) well cramped up, nailed or screwed to bearers (bearers measured separately)	sq m	27.50
CP.26	25mm wrot plain Balau square edge boarding to floors, shelves, fitments, partitions, ceiling, etc in new or existing work (in patches) well cramped up, nailed or screwed to bearers (bearers measured separately)	sq m	45.10
CP.27	28mm wrot plain Balau square edge boarding to floors, shelves, fitments, partitions, ceiling, etc in new or existing work (in patches) well cramped up, nailed or screwed to bearers (bearers measured separately)	sq m	52.80
CP.28	38mm wrot plain Balau square edge boarding to floors, shelves, fitments, partitions, ceiling, etc in new or existing work (in patches) well cramped up, nailed or screwed to bearers (bearers measured separately)	sq m	57.20

S/No	Description	Unit	Unit Cost (\$)
CP.29	Take out existing plain edge board (any thickness) and remove off site.	sq m	2.50
CP.30	Take out existing plain edge board (any thickness) in floor, partition, table top, fitment, etc relay and recrap (bearer and new boarding measured separately).	sq m	8.50
CP.31	50 x 25mm sawn kapur, balau or keruing battens for tiles including tanalising or two coats wood preservative and removal of old battens if necessary	m	1.70
CP.32	50 x 40mm sawn kapur, balau or keruing battens for tiles including tanalising or two coats wood preservative and removal of old battens if necessary	m	2.20
CP.33	75 x 25mm sawn kapur, balau or keruing battens for tiles including tanalising or two coats wood preservative and removal of old battens if necessary	m	2.40
CP.34	Fascia or barge boards including taking down existing members.	cu m	1124.20
CP.35	13mm thick wrot Chengal tongued and grooved boarding to floors, shelves, fitments, partitions, ceiling, etc in new or existing work (in patches) well cramped up, nailed or screwed to bearers (bearers measured separately)	sq m	45.00
CP.36	19mm thick wrot Chengal tongued and grooved boarding to floors, shelves, fitments, partitions, ceiling, etc in new or existing work (in patches) well cramped up, nailed or screwed to bearers (bearers measured separately)	sq m	56.10
CP.37	25mm thick wrot Chengal tongued and grooved boarding to floors, shelves, fitments, partitions, ceiling, etc in new or existing work (in patches) well cramped up, nailed or screwed to bearers (bearers measured separately)	sq m	64.90
CP.38	28mm thick wrot Chengal tongued and grooved boarding to floors, shelves, fitments, partitions, ceiling, etc in new or existing work (in patches) well cramped up, nailed or screwed to bearers (bearers measured separately)	sq m	71.50
CP.39	38mm thick wrot Chengal tongued and grooved boarding to floors, shelves, fitments, partitions, ceiling, etc in new or existing work (in patches) well cramped up, nailed or screwed to bearers (bearers measured separately)	sq m	84.70
CP.40	13mm thick wrot Kapur tongued and grooved boarding to floors, shelves, fitments, partitions, ceiling, etc in new or existing work (in patches) well cramped up, nailed or screwed to bearers (bearers measured separately)	sq m	33.00
CP.41	19mm thick wrot Kapur tongued and grooved boarding to floors, shelves, fitments, partitions, ceiling, etc in new or existing work (in patches) well cramped up, nailed or screwed to bearers (bearers measured separately)	sq m	42.90
CP.42	25mm thick wrot Kapur tongued and grooved boarding to floors, shelves, fitments, partitions, ceiling, etc in new or existing work (in patches) well cramped up, nailed or screwed to bearers (bearers measured separately)	sq m	49.50
CP.43	28mm thick wrot Kapur tongued and grooved boarding to floors, shelves, fitments, partitions, ceiling, etc in new or existing work (in patches) well cramped up, nailed or screwed to bearers (bearers measured separately)	sq m	56.10
CP.44	38mm thick wrot Kapur tongued and grooved boarding to floors, shelves, fitments, partitions, ceiling, etc in new or existing work (in patches) well cramped up, nailed or screwed to bearers (bearers measured separately)	sq m	60.50
CP.45	13mm thick wrot Balau tongued and grooved boarding to floors, shelves, fitments, partitions, ceiling, etc in new or existing work (in patches) well cramped up, nailed or screwed to bearers (bearers measured separately)	sq m	28.60
CP.46	19mm thick wrot Balau tongued and grooved boarding to floors, shelves, fitments, partitions, ceiling, etc in new or existing work (in patches) well cramped up, nailed or screwed to bearers (bearers measured separately)	sq m	34.10
CP.47	25mm thick wrot Balau tongued and grooved boarding to floors, shelves, fitments, partitions, ceiling, etc in new or existing work (in patches) well cramped up, nailed or screwed to bearers (bearers measured separately)	sq m	52.80

S/No	Description	Unit	Unit Cost (\$)
CP.48	28mm thick wrot Balau tongued and grooved boarding to floors, shelves, fitments, partitions, ceiling, etc in new or existing work (in patches) well cramped up, nailed or screwed to bearers (bearers measured separately)	sq m	59.40
CP.49	38mm thick wrot Balau tongued and grooved boarding to floors, shelves, fitments, partitions, ceiling, etc in new or existing work (in patches) well cramped up, nailed or screwed to bearers (bearers measured separately)	sq m	68.20
CP.50	Take out existing tongued and grooved boarding (any thickness) and remove off site.	sq m	3.00
CP.51	Extra over for pressure impreganted timber boards (any thickness).	sq m	2.60
CP.52	20mm thick tongued and grooved ramin boarding including sanding and polishing surface all according to specialist's instructions.	sq m	105.60
CP.53	20mm thick tongued and grooved ramin boarding including sanding and polishing surface all according to specialist's instructions including bearers below.	sq m	111.10
CP.54	Sawn Kapur, ledged and braced shutters or doors with 19mm butt jointed boarding on 19 mm ledges and braces hung in frames.(Rate does not include framess, glazing, wire gauze and ironmongery)	sq m	65.10
CP.55	Wrot Kapur, ledged and braced shutters or doors with 19mm butt jointed boarding on 19 mm ledges and braces hung in frames. (Rate does not include framess, glazing, wire gauze and ironmongery)	sq m	80.10
CP.56	25mm thick wrot Chengal framed, ledged and braced shutters or doors (partly glazed if necessary) comprising of tongued, grooved and v-jointed match boarding fixed to frames, ledges and braces to make up the total thickness stated including hanging onto door frames.	sq m	137.50
CP.57	38mm thick wrot Chengal framed, ledged and braced shutters or doors (partly glazed if necessary) comprising of tongued, grooved and v-jointed match boarding fixed to frames, ledges and braces to make up the total thickness stated including hanging onto door frames.	sq m	160.60
CP.58	44mm thick wrot Chengal framed, ledged and braced shutters or doors (partly glazed if necessary) comprising of tongued, grooved and v-jointed match boarding fixed to frames, ledges and braces to make up the total thickness stated including hanging onto door frames.	sq m	171.60
CP.59	50mm thick wrot Chengal framed, ledged and braced shutters or doors (partly glazed if necessary) comprising of tongued, grooved and v-jointed match boarding fixed to frames, ledges and braces to make up the total thickness stated including hanging onto door frames.	sq m	176.00
CP.60	25mm thick wrot Kapur framed, ledged and braced shutters or doors (partly glazed if necessary) comprising of tongued, grooved and v-jointed match boarding fixed to frames, ledges and braces to make up the total thickness stated including hanging onto door frames.	sq m	96.80
CP.61	38mm thick wrot Kapur framed, ledged and braced shutters or doors (partly glazed if necessary) comprising of tongued, grooved and v-jointed match boarding fixed to frames, ledges and braces to make up the total thickness stated including hanging onto door frames.	sq m	113.30
CP.62	44mm thick wrot Kapur framed, ledged and braced shutters or doors (partly glazed if necessary) comprising of tongued, grooved and v-jointed match boarding fixed to frames, ledges and braces to make up the total thickness stated including hanging onto door frames.	sq m	119.90
CP.63	50mm thick wrot Kapur framed, ledged and braced shutters or doors (partly glazed if necessary) comprising of tongued, grooved and v-jointed match boarding fixed to frames, ledges and braces to make up the total thickness stated including hanging onto door frames.	sq m	129.80

S/No	Description	Unit	Unit Cost (\$)
CP.64	25mm thick wrot Chengal framed, ledged and braced shutters or doors (partly glazed if necessary) comprising of butt jointed boarding fixed to frames, ledges and braces to make up the total thickness stated including hanging onto door frames.	sq m	129.80
CP.65	38mm thick wrot Chengal framed, ledged and braced shutters or doors (partly glazed if necessary) comprising of butt jointed boarding fixed to frames, ledges and braces to make up the total thickness stated including hanging onto door frames.	sq m	148.50
CP.66	44mm thick wrot Chengal framed, ledged and braced shutters or doors (partly glazed if necessary) comprising of butt jointed boarding fixed to frames, ledges and braces to make up the total thickness stated including hanging onto door frames.	sq m	154.00
CP.67	50mm thick wrot Chengal framed, ledged and braced shutters or doors (partly glazed if necessary) comprising of butt jointed boarding fixed to frames, ledges and braces to make up the total thickness stated including hanging onto door frames.	sq m	158.40
CP.68	25mm thick wrot Kapur framed, ledged and braced shutters or doors (partly glazed if necessary) comprising of butt jointed boarding fixed to frames, ledges and braces to make up the total thickness stated including hanging onto door frames.	sq m	82.50
CP.69	38mm thick wrot Kapur framed, ledged and braced shutters or doors (partly glazed if necessary) comprising of butt jointed boarding fixed to frames, ledges and braces to make up the total thickness stated including hanging onto door frames.	sq m	101.20
CP.70	44mm thick wrot Kapur framed, ledged and braced shutters or doors (partly glazed if necessary) comprising of butt jointed boarding fixed to frames, ledges and braces to make up the total thickness stated including hanging onto door frames.	sq m	107.80
CP.71	50mm thick wrot Kapur framed, ledged and braced shutters or doors (partly glazed if necessary) comprising of butt jointed boarding fixed to frames, ledges and braces to make up the total thickness stated including hanging onto door frames.	sq m	117.70
CP.72	25mm thick Chengal casement or door in panels open to receive glass, waterproof plywood or wire gauze with rebated and moulded rails, stiles, glazing or diving bars and pinned heads including hanging onto door frames (nb: infill panels of glass/plywood/wire gauze, etc to be measured separately)	sq m	92.40
CP.73	38 mm thick Chengal casement or door in panels open to receive glass, waterproof plywood or wire gauze with rebated and moulded rails, stiles, glazing or diving bars and pinned heads including hanging onto door frames (nb: infill panels of glass/plywood/wire gauze, etc to be measured separately)	sq m	104.50
CP.74	44 mm thick Chengal casement or door in panels open to receive glass, waterproof plywood or wire gauze with rebated and moulded rails, stiles, glazing or diving bars and pinned heads including hanging onto door frames (nb: infill panels of glass/plywood/wire gauze, etc to be measured separately)	sq m	108.90
CP.75	50 mm thick Chengal casement or door in panels open to receive glass, waterproof plywood or wire gauze with rebated and moulded rails, stiles, glazing or diving bars and pinned heads including hanging onto door frames (nb: infill panels of glass/plywood/wire gauze, etc to be measured separately)	sq m	113.30

S/No	Description	Unit	Unit Cost (\$)
CP.76	25mm thick Kapur casement or door in panels open to receive glass, waterproof plywood or wire gauze with rebated and moulded rails, stiles, glazing or diving bars and pinned heads including hanging onto door frames (nb: infill panels of glass/plywood/wire gauze, etc to be measured separately)	sq m	74.80
CP.77	38 mm thick Kapur casement or door in panels open to receive glass, waterproof plywood or wire gauze with rebated and moulded rails, stiles, glazing or diving bars and pinned heads including hanging onto door frames (nb: infill panels of glass/plywood/wire gauze, etc to be measured separately)	sq m	82.50
CP.78	44 mm thick Kapur casement or door in panels open to receive glass, waterproof plywood or wire gauze with rebated and moulded rails, stiles, glazing or diving bars and pinned heads including hanging onto door frames (nb: infill panels of glass/plywood/wire gauze, etc to be measured separately)	sq m	86.90
CP.79	50 mm thick Kapur casement or door in panels open to receive glass, waterproof plywood or wire gauze with rebated and moulded rails, stiles, glazing or diving bars and pinned heads including hanging onto door frames (nb: infill panels of glass/plywood/wire gauze, etc to be measured separately)	sq m	91.30
CP.80	25mm thick Chengal panelled casement or door partly panelled with solid timber or plywood not exceeding 12mm thick partly open for glazing with rebated and moulded rails, stiles, glazing beads including hanging onto door frames (glass panel measured separately).	sq m	113.30
CP.81	38 mm thick Chengal panelled casement or door partly panelled with solid timber or plywood not exceeding 12mm thick partly open for glazing with rebated and moulded rails, stiles, glazing beads including hanging onto door frames (glass panel measured sepa	sq m	117.70
CP.82	44 mm thick Chengal panelled casement or door partly panelled with solid timber or plywood not exceeding 12mm thick partly open for glazing with rebated and moulded rails, stiles, glazing beads including hanging onto door frames (glass panel measured separately).	sq m	123.20
CP.83	50 mm thick Chengal panelled casement or door partly panelled with solid timber or plywood not exceeding 12mm thick partly open for glazing with rebated and moulded rails, stiles, glazing beads including hanging onto door frames (glass panel measured sepa	sq m	129.80
CP.84	25mm thick Kapur panelled casement or door partly panelled with solid timber or plywood not exceeding 12mm thick partly open for glazing with rebated and moulded rails, stiles, glazing beads including hanging onto door frames (glass panel measured separately)	sq m	83.60
CP.85	38 mm thick Kapur panelled casement or door partly panelled with solid timber or plywood not exceeding 12mm thick partly open for glazing with rebated and moulded rails, stiles, glazing beads including hanging onto door frames (glass panel measured separately)	sq m	92.40
CP.86	44 mm thick Kapur panelled casement or door partly panelled with solid timber or plywood not exceeding 12mm thick partly open for glazing with rebated and moulded rails, stiles, glazing beads including hanging onto door frames (glass panel measured separately)	sq m	96.80
CP.87	50 mm thick Kapur panelled casement or door partly panelled with solid timber or plywood not exceeding 12mm thick partly open for glazing with rebated and moulded rails, stiles, glazing beads including hanging onto door frames (glass panel measured separately)	sq m	101.20



S/No	Description	Unit	Unit Cost (\$)
CP.88	38mm thick Chengal louvred casement or comprising of twice splayed louvres fixed at an angle of 60 degrees not more than 40mm apart and rebated and moulded and stiles including hanging onto frames.	sq m	111.10
CP.89	44 mm thick Chengal louvred casement or comprising of twice splayed louvres fixed at an angle of 60 degrees not more than 40mm apart and rebated and moulded and stiles including hanging onto frames.	sq m	117.70
CP.90	50 mm thick Chengal louvred casement or comprising of twice splayed louvres fixed at an angle of 60 degrees not more than 40mm apart and rebated and moulded and stiles including hanging onto frames.	sq m	122.10
CP.91	38mm thick Kapur louvred casement or comprising of twice splayed louvres fixed at an angle of 60 degrees not more than 40mm apart and rebated and moulded and stiles including hanging onto frames.	sq m	88.00
CP.92	44 mm thick Kapur louvred casement or comprising of twice splayed louvres fixed at an angle of 60 degrees not more than 40mm apart and rebated and moulded and stiles including hanging onto frames.	sq m	92.40
CP.93	50 mm thick Kapur louvred casement or comprising of twice splayed louvres fixed at an angle of 60 degrees not more than 40mm apart and rebated and moulded and stiles including hanging onto frames.	sq m	93.50
CP.94	21mm thick covered on both sides with 4 mm thick waterproof plywood hollow flush door or cupboard door comprising of kapur skeleton framing and lipping all round including hanging onto door frames	sq m	51.00
CP.95	27mm thick covered on both sides with 6 mm thick waterproof plywood hollow flush door or cupboard door comprising of kapur skeleton framing and lipping all round including hanging onto door frames	sq m	82.50
CP.96	31mm thick covered on both sides with 6 mm thick waterproof plywood hollow flush door or cupboard door comprising of kapur skeleton framing and lipping all round including hanging onto door frames	sq m	88.00
CP.97	40mm thick covered on both sides with 6 mm thick waterproof plywood hollow flush door or cupboard door comprising of kapur skeleton framing and lipping all round including hanging onto door frames	sq m	99.00
CP.98	43mm thick covered on both sides with 9 mm thick waterproof plywood hollow flush door or cupboard door comprising of kapur skeleton framing and lipping all round including hanging onto door frames	sq m	110.00
CP.99	37mm thick Kapur hollow flush door comprising of Kapur skeleton framing and lipping all round covered on both sides with waterproof plywood as shown in Appendices 9/10/11including hanging onto door frames	sq m	92.40
CP.100	43mm thick Kapur hollow flush door comprising of Kapur skeleton framing and lipping all round covered on both sides with waterproof plywood as shown in Appendices 9/10/11including hanging onto door frames	sq m	96.80
CP.101	48mm thick Kapur hollow flush door comprising of Kapur skeleton framing and lipping all round covered on both sides with waterproof plywood as shown in Appendices 9/10/11including hanging onto door frames	sq m	100.50
CP.102	Extra over above items (CP073 to CP080) for constructing fixed aluminium louvre as shown in Appendices 10C/10D/12/14	sq m	11.60
CP.103	Extra over above items (CP073 to CP080) for glazed peephole as shown in Appendices 10A/10B/10C/13/14	sq m	6.90
CP.104	39mm thick Kapur semi-flush door comprising of hardwood skeleton framing lipping all round including hanging onto door frame including rebated V-jointed Kapur panel as shown in Appendix 15	sq m	109.80
CP.105	48mm thick Kapur semi-flush door comprising of hardwood skeleton framing lipping all round including hanging onto door frame including rebated V-jointed Kapur panel as shown in Appendix 15	sq m	117.80

S/No	Description	Unit	Unit Cost (\$)
CP.106	39mm thick Chengal semi-flush comprising of hardwood skeleton framing lipping all round including hanging onto door frame including rebated V-jointed Chengal panel as shown in Appendix 15	sq m	167.50
CP.107	48mm thick Chengal semi-flush door comprising of hardwood skeleton framing lipping all round including hanging onto door frame including rebated V-jointed Chengal panel as shown in Appendix 15	sq m	182.50
CP.108	38 mm thick Kapur solid core flush door as shown in Appendix 16 comprising of hardwood lipping all round, core strips, plywood and reinforcing bars including hanging onto door frames	sq m	225.00
CP.109	50 mm thick Kapur solid core flush door as shown in Appendix 16 comprising of hardwood lipping all round, core strips, plywood and reinforcing bars including hanging onto door frames	sq m	285.00
CP.110	38 mm thick Chengal solid core flush door as shown in Appendix 16 comprising of hardwood lipping all round, core strips, plywood and reinforcing bars including hanging onto door frames	sq m	290.00
CP.111	50 mm thick Chengal solid core flush door as shown in Appendix 16 comprising of hardwood lipping all round, core strips, plywood and reinforcing bars including hanging onto door frames	sq m	295.00
CP.112	38 mm thick Kapur solid panel door as shown in Appendix 17 comprising tongued and grooved battens including reinforcing bars, and hanging onto door frames	sq m	228.00
CP.113	50 mm thick Kapur solid panel door as shown in Appendix 17 comprising tongued and grooved battens including reinforcing bars, and hanging onto door frames	sq m	310.00
CP.114	38 mm thick Chengal solid panel door as shown in Appendix 17 comprising tongued and grooved battens including reinforcing bars, and hanging onto door frames	sq m	375.00
CP.115	50 mm thick Chengal solid panel door as shown in Appendix 17 comprising tongued and grooved battens including reinforcing bars, and hanging onto door frames	sq m	385.00
CP.116	38mm thick Kapur solid panel door including glazed panel as shown in Appendix 18 comprising tongued and grooved battens including reinforcing bars, and hanging onto door frames.	sq m	235.00
CP.117	50mm thick Kapur solid panel door including glazed panel as shown in Appendix 18 comprising tongued and grooved battens including reinforcing bars, and hanging onto door frames.	sq m	320.00
CP.118	38mm thick Chengal solid panel door including glazed panel as shown in Appendix 18 comprising tongued and grooved battens including reinforcing bars, and hanging onto door frames.	sq m	385.00
CP.119	50mm thick Chengal solid panel door including glazed panel as shown in Appendix 18 comprising tongued and grooved battens including reinforcing bars, and hanging onto door frames.	sq m	392.00
CP.120	Supply and install approved PVC folding door	sq m	110.00
CP.121	Supply and install approved UPVC flush door c/w approved lock and hinges.	sq m	116.10
CP.122	Supply and install a complete set of UPVC door frame.	set	148.50
CP.123	900 x 2100 x 45mm thick, single leaf, Polynorm 1/2 hour rated timber fire door complying with SS 332 complete with fire proofed cylinder lockset, stainless steel ball bearing hinges, flush bolt, door closer and frame	no	935.00
CP.124	900 x 2100 x 46mm thick, single leaf, Pyropanel 1/2 hour rated timber fire door complying with SS 332 complete with fire proofed cylinder lockset, stainless steel ball bearing hinges, flush bolt, door closer and frame	no	990.00

S/No	Description	Unit	Unit Cost (\$)
CP.125	1200 x 2100 x 45mm thick, double unequal leaf, Polynorm 1/2 hour rated timber fire door complying with SS 332 complete with fire proofed cylinder lockset, stainless steel ball bearing hinges, flush bolt, door closer and frame	no	1628.00
CP.126	1200 x 2100 x 48mm thick, double unequal leaf, Pyropanel 1/2 hour rated timber fire door complying with SS 332 complete with fire proofed cylinder lockset, stainless steel ball bearing hinges, flush bolt, door closer and frame	no	1265.00
CP.127	900 x 2100 x 48mm thick, single leaf, Pyropanel 1 hour rated timber fire door complying with SS 332 complete with fire proofed cylinder lockset, stainless steel ball bearing hinges, flush bolt, door closer and frame	no	1285.90
CP.128	1200 x 2100 x 48 mm thick, single leaf, Pyropanel 1 hour rated timber fire door complying with SS 332 complete with fire proofed cylinder lockset, stainless steel ball bearing hinges, flush bolt, door closer and frame	no	1493.80
CP.129	900 x 2100 x 48mm thick, single leaf, Pyropanel 2 hour rated timber fire door complying with SS 332 complete with fire proofed cylinder lockset, stainless steel ball bearing hinges, flush bolt, door closer and frame	no	1417.90
CP.130	2100 x 2100 x 48mm thick, double unequal leaf, Pyropanel 2 hour rated timber fire door complying with SS 332 complete with fire proofed cylinder lockset, stainless steel ball bearing hinges, flush bolt, door closer and frame	no	1645.60
CP.131	900x2400x50mm thk, single leaf laminated semi-solid timber flush door with complete ironmongeries (except lockset)	no	680.00
CP.132	1200x2150x50mm thk, 11/4 leaf laminated semi-solid timber flush door with complete ironmongeries (except lockset)	no	910.00
CP.133	1800x2400x50mm thk, double equal leaf laminated semi-solid timber door with complete ironmongery (except lockset)	no	1040.00
CP.134	Supply and fix 36 mm approved fibreglass door c/w approved lock and hinges.	sq m	145.20
CP.135	Labour and materials for cutting glazed peephole in door (any size and shape).	no	33.00
CP.136	Labour and materials for cutting hole in door (any size and shape) and fixed with louvres.	no	77.00
CP.137	Take out ledged and braced shutters or doors not exceeding 3.00sq m (Chengal, Kapur, Keruing, Meranti) replace not more than three ledges and/or braces by new and rehang including carting away old materials (area of door measured).	sq m	20.80
CP.138	Take out ledged and braced shutters or doors exceeding 3.00sq m (Chengal, Kapur, Keruing, Meranti) replace not more than three ledges and/or braces by new and rehang including carting away old materials (area of door measured).	sq m	27.10
CP.139	Replace small (not exceeding 0.20sq m) amounts of boarding (Chengal, Kapur, Keruing, Meranti) in ledged/lipping and braced shutters or doors not exceeding 3.00 sq m including taking down, rehang and carting away old materials (area of door measured).	sq m	20.80
CP.140	Replace small (not exceeding 0.20sq m) amounts of boarding (Chengal, Kapur, Keruing, Meranti) in ledged/lipping and braced shutters or doors exceeding 3.00 sq m including taking down, rehang and carting away old materials (area of door measured).	sq m	31.80
CP.141	Take down framed, ledged/lipping and braced shutters not exceeding 3.00sq m (any type) replace not more than three ledges, frames and/or braces, glazing bars by new and rehang including carting away old materials (area of door measured).	sq m	24.00

S/No	Description	Unit	Unit Cost (\$)
CP.142	Take down framed, ledged/lipping and braced shutters exceeding 3.00sq m (any type) replace not more than three ledges, frames and/or braces, glazing bars by new and rehang including carting away old materials (area of door measured).	sq m	30.60
CP.143	Replacement small (not exceeding 0.20 sq m) amounts of boarding (any type) in framed ledged and braced shutters or door not exceeding 3.00sq m including taking down, rehang and removing old boards off site (area of door measured).	sq m	29.60
CP.144	Replacement small (not exceeding 0.20 sq m) amounts of boarding (any type) in framed ledged and braced shutters or door exceeding 3.00sq m including taking down, rehang and removing old boards off site (area of door measured).	sq m	38.40
CP.145	Take down casement window, shutter or door, etc remove ironmongery and remove remainder off site, or cart away off site. (Rate per leaf not exceeding 3.00 sq m)	no	5.70
CP.146	Take down casement window, shutter or door, etc remove ironmongery and remove remainder off site, or cart away off site. (Rate per leaf exceeding 3.00 sq m)	sq m	1.40
CP.147	Take down casement window, shutter or door, etc not exceeding 3.00sq m, replace wedges, cramp up secure all joints, refix, rehang and adjust ironmongery (new ironmongery measured separately).	no	16.60
CP.148	Take down existing alumin door frames and refix to another new position including the provision of all necessary new accessories and making good all works disturbed	no	12.00
CP.149	Take down casement window, shutter or door, etc exceeding 3.00sq m, replace wedges, cramp up secure all joints, refix, rehang and adjust ironmongery (new ironmongery measured separately).(Area of door measured.)	sq m	6.90
CP.150	Fix and hang only casement window shutter or door, not exceeding 3.00sq m (excluding supply of new ironmongery and frame).	no	8.10
CP.151	Fix and hang only casement window shutter or door, exceeding 3.00sq m (excluding supply of new ironmongery and frame).(area of door measured.)	sq m	3.40
CP.152	Take down casement window or door not exceeding 3.00sq m (any type) take out some or all panels or louvres, prepare rail, styles and muntins as necessary for glazing (including providing beads), replace wedges, cramp up, secure all joints, refix, rehang and adjust ironmongery. (New ironmongery measured separately.)	no	54.30
CP.153	Take down casement window or door exceeding 3.00sq m (any type) take out some or all panels or louvres, prepare rail, styles and muntins as necessary for glazing (including providing beads), replace wedges, cramp up, secure all joints, refix, rehang and adjust ironmongery. (New ironmongery measured separately.)(area of door measured)	sq m	22.70
CP.154	Take down existing timber door not exceeding 3.00sq m, trim to reduce height or width not exceeding 50mm, including making good paintwork, adjust door and rehang. (New ironmongery measured separately.)	no	28.90
CP.155	Trim to reduce height or width not exceeding 50mm(for door not exceeding 3 sq m), including making good paintwork, adjust door and rehang without taking down existing door. (New ironmongery measured separately.)	no	8.80
CP.156	Take down existing timber door exceeding 3.00sq m trim to reduce height or width not exceeding 50mm, including making good paintwork and adjust door. (New ironmongery measured separately.)(area of door measured)	sq m	12.10

S/No	Description	Unit	Unit Cost (\$)
CP.157	Take out one only of either style, muntin or glazing bar in wrot panelled, glazed or louvred casement, shutter or doors (any type) not exceeding 3.00sq m, remove off site and replace the rail, etc by new to match including taking down, splicing, framing up and rehang as necessary (new ironmongery measured separately)	no	35.90
CP.158	Replace plywood (any thickness) panels or solid wrot timber panels in windows, shutters or doors exceeding 3.00sq m including taking down, framing up and rehang as necessary, and removing old panels off site (new ironmongery measured separately) (area of door measured)	sq m	22.10
CP.159	Replace small area (not exceeding 3 louvres) of louvres in windows, shutters or doors exceeding 3.00sq m including taking down, framing up and rehang as necessary, and removing old panels off site (new ironmongery measured separately) (area of door measured)	sq m	24.00
CP.160	Ease/adjust and trim (when necessary) doors and windows (any type and size) including taking down, rehang and make good disturbed areas as necessary.	no	24.20
CP.161	Ease/adjust and trim (when necessary) doors and windows (any type and size) without taking down existing door including making good disturbed areas as necessary.	no	12.80
CP.162	Labour for preparing existing door jamb to receive new work.	no	4.60
CP.163	Supply & install 12mm thick clear tempered glass door 1950mmHx975mmW c/w Dorma bottom pivot hinge	no	1496.00
CP.164	Service Dorma operated auto-swing glass system including EM lock (exclude part replacement)	no	198.00
CP.165	S & I Dorma ED200 motor assembly for each auto-swing glass door leaf	no	1980.00
CP.166	Supply & install Dorma bottom pivot hinge including taking down & fix back door leaf, motor and accessories	no	715.00
CP.167	Supply & install Dorma EM lock including take down & dispose existing part(s) & make good	no	748.00
CP.168	Supply and replace ED200A board for 'DORMA' auto glass door.	no	445.50
CP.169	Extra for encasing new door with 0.5 mm aluminium or glavanised iron sheeting including pinning with non-ferrous nails.	sq m	25.20
CP.170	Extra for encasing new door with 0.8 mm aluminium or glavanised iron sheeting including pinning with non-ferrous nails.	sq m	28.70
CP.171	Extra for encasing existing door with 0.5 mm aluminium or glavanised iron sheeting including pinning with non-ferrous nails, preparation, taking down and rehang door.	sq m	28.50
CP.172	Extra for encasing existing door with 0.8 mm aluminium or glavanised iron sheeting including pinning with non-ferrous nails, preparation, taking down and rehang door.	sq m	32.10
CP.173	1 mm thick stainless steel plate fixed to new or existing door, partition etc with approved screws.	sq m	157.30
CP.174	2 mm thick stainless steel plate fixed to new or existing door, partition etc with approved screws.	sq m	193.60
CP.175	3 mm thick stainless steel plate fixed to new or existing door, partition etc with approved screws.	sq m	239.60
CP.176	Frame, head, mullion, transome, studs, cill fitments, joinery, etc in wrot Ramin timber worked to the required shape including forming grooves, rebated, throats, weathered edges etc (Frame not exceeding 2,000sq mm cross-sectional area)	m	9.90
CP.177	Frame, head, mullion, transome, studs, cill fitments, joinery, etc in wrot Kapur timber worked to the required shape including forming grooves, rebated, throats, weathered edges etc (Frame not exceeding 2,000sq mm	m	9.80

S/No	Description	Unit	Unit Cost (\$)
	cross-sectional area)		
CP.178	Frame, head, mullion, transome, studs, cill fitments, joinery, etc in wrot Chengal timber worked to the required shape including forming grooves, rebated, throats, weathered edges etc (Frame not exceeding 2,000sq mm cross-sectional area)	m	10.50
CP.179	Frame, head, mullion, transome, studs, cill fitments, joinery, etc in wrot Balau timber worked to the required shape including forming grooves, rebated, throats, weathered edges etc (Frame not exceeding 2,000sq mm cross-sectional area)	m	9.40
CP.180	Frame, head, mullion, transome, studs, cill fitments, joinery, etc in wrot Ramin timber worked to the required shape including forming grooves, rebated, throats, weathered edges etc (Frame exceeding 2,000sq mm and not exceeding 4,000sq mm cross-sectional area)	m	15.50
CP.181	Frame, head, mullion, transome, studs, cill fitments, joinery, etc in wrot Kapur timber worked to the required shape including forming grooves, rebated, throats, weathered edges etc (Frame exceeding 2,000sq mm and not exceeding 4,000sq mm cross-sectional area)	m	13.50
CP.182	Frame, head, mullion, transome, studs, cill fitments, joinery, etc in wrot Chengal timber worked to the required shape including forming grooves, rebated, throats, weathered edges etc (Frame exceeding 2,000sq mm and not exceeding 4,000sq mm cross-sectional area)	m	14.90
CP.183	Frame, head, mullion, transome, studs, cill fitments, joinery, etc in wrot Balau timber worked to the required shape including forming grooves, rebated, throats, weathered edges etc (Frame exceeding 2,000sq mm and not exceeding 4,000sq mm cross-sectional area)	m	14.30
CP.184	Frame, head, mullion, transome, studs, cill fitments, joinery, etc in wrot Ramin timber worked to the required shape including forming grooves, rebated, throats, weathered edges etc (Frame exceeding 4,000sq mm and not exceeding 6,000sq mm cross-sectional area)	m	24.80
CP.185	Frame, head, mullion, transome, studs, cill fitments, joinery, etc in wrot Kapur timber worked to the required shape including forming grooves, rebated, throats, weathered edges etc (Frame exceeding 4,000sq mm and not exceeding 6,000sq mm cross-sectional area)	m	21.80
CP.186	Frame, head, mullion, transome, studs, cill fitments, joinery, etc in wrot Chengal timber worked to the required shape including forming grooves, rebated, throats, weathered edges etc (Frame exceeding 4,000sq mm and not exceeding 6,000sq mm cross-sectional area)	m	26.80
CP.187	Frame, head, mullion, transome, studs, cill fitments, joinery, etc in wrot Balau timber worked to the required shape including forming grooves, rebated, throats, weathered edges etc (Frame exceeding 4,000sq mm and not exceeding 6,000sq mm cross-sectional area)	m	26.40
CP.188	Frame, head, mullion, transome, studs, cill fitments, joinery, etc in wrot Ramin timber worked to the required shape including forming grooves, rebated, throats, weathered edges etc (Frame exceeding 6,000sq mm cross-sectional area)	m	27.00
CP.189	Frame, head, mullion, transome, studs, cill fitments, joinery, etc in wrot Kapur timber worked to the required shape including forming grooves, rebated, throats, weathered edges etc (Frame exceeding 6,000sq mm cross-sectional area)	m	34.40

S/No	Description	Unit	Unit Cost (\$)
CP.190	Frame, head, mullion, transome, studs, cill fitments, joinery, etc in wrot Chengal timber worked to the required shape including forming grooves, rebated, throats, weathered edges etc (Frame exceeding 6,000sq mm cross-sectional area)	m	37.40
CP.191	Frame, head, mullion, transome, studs, cill fitments, joinery, etc in wrot Balau timber worked to the required shape including forming grooves, rebated, throats, weathered edges etc (Frame exceeding 6,000sq mm cross-sectional area)	m	36.30
CP.192	Add to any of above items (CP145 to CP160) if pressure impregnated.	m	0.80
CP.193	Cut out lengths of framing not exceeding 2,000sq mm cross-sectional area to existing door, window, partition, studding, staircase, joinery, fitment etc remove off site, and where necessary prepare cut surface to receive new	m	3.30
CP.194	Cut out lengths of framing exceeding 2,000sq mm and not exceeding 4,000sq mm cross-sectional area to existing door, window, partition, studding, staircase, joinery, fitment etc remove off site, and where necessary prepare cut surface to receive new	m	4.40
CP.195	Cut out lengths of framing exceeding 4,000sq mm cross-sectional area to existing door, window, partition, studding, staircase, joinery, fitment etc remove off site, and where necessary prepare cut surface to receive new (Appendix 19).	m	5.00
CP.196	Labour cutting existing frame to form grooves, rebates, throats, etc not exceeding 1,500sq mm in sectional area.	m	4.00
CP.197	Take out existing frame for door, window, etc provide temporary support if necessary, remove off site and make good reveal.	m	41.80
CP.198	Take out existing frame for door, window, etc cramp up re-wedge joint and refix, provide temporary support if necessary, remove off site and make good reveal.	no	50.60
CP.199	Beads, picture rails, skirtings, architraves, fillets, etc in wrot Remin timber not exceeding 500sq mm in sectional area (irrespective of profile).	m	9.50
CP.200	Add CP168 for each additional increase of 500sq mm sectional area	m	1.10
CP.201	Beads, picture rails, skirtings, architraves, fillets, etc in wrot Chengal timber not exceeding 500sq mm in sectional area (irrespective of profile).	m	9.90
CP.202	Add CP170 for each additional increase of 500sq mm sectional area	m	1.10
CP.203	Beads, picture rails, skirtings, architraves, fillets, etc in wrot Kapur timber not exceeding 500sq mm in sectional area (irrespective of profile).	m	9.20
CP.204	Add CP172 for each additional increase of 500sq mm sectional area	m	0.90
CP.205	Add to any of the above items (CP168 to CP173) if pressure impregnated.	m	0.80
CP.206	Cut out lengths of existing beads, picture rails skirtings, architraves, fillets, etc (any size) remove off site and where necessary prepare cut surface to receive new.	m	2.00
CP.207	Supply and install standard partition comprising sawn Kapur framing not exceeding 4,000sq mm in sectional area fixed at 600mm centre both ways (lining measured separately).	sq m	17.60
CP.208	Supply and install standard partition comprising sawn Kapur framing exceeding 4,000sq mm and not exceeding 6,500sq mm in sectional area fixed at 600mm centre both ways (lining measured separately).	sq m	19.80
CP.209	Supply and install standard partition comprising Chengal sawn framing not exceeding 4,000sq mm in sectional area fixed at 600mm centre both ways (lining measured separately)	sq m	22.20
CP.210	Supply and install standard partition comprising Chengal sawn framing exceeding 4,000sq mm and not exceeding 6,500sq mm in sectional area fixed at 600mm centre both ways (lining measured separately)	sq m	29.60

S/No	Description	Unit	Unit Cost (\$)
CP.211	Take down existing timber partition and remove off site.	sq m	8.50
CP.212	Take down existing timber partition but rebuild in large section using the same material and cart away remaining off site.	sq m	19.40
CP.213	Labour and material for cutting opening in partition to receive ducts, telephone tray, etc (any size) and including additional bearers (new opening frame and telephone tray/ducting measured separately).	no	64.10
CP.214	Making opening in existing timber partition and fix frame (any size) for air-conditioner including making good surrounds and cart away debris off site (rate inclusive of new opening frame).	no	69.00
CP.215	Supply and install approved toilet compartment consisting of 10mm thick solid compact laminate finished with melamine on both sides c/w stainless steel leg supports etc. (colour of lamination to be approved)	sq m	259.90
CP.216	Supply and install approved toilet compartment consisting of 13mm thick solid compact laminate finished with melamine on both sides c/w stainless steel leg supports etc. (colour of lamination to be approved)	sq m	308.00
CP.217	Supply and install door consisting of 10mm thick solid compact laminate finished with melamine on both sides and c/w stainless steel leg supports, heavy duty gravity hinges, indicator bolt, aluminium trimmings, etc.	sq m	279.50
CP.218	Supply and install door consisting of 13mm thick solid compact laminate finished with melamine on both sides and c/w stainless steel leg supports, heavy duty gravity hinges, indicator bolt, aluminium trimmings, etc.	sq m	326.70
CP.219	Dismantle toilet partitions and remove off site including make good affected areas.	no	9.90
CP.220	Supply and fix 20mm thick fibreglass door or hardboard door to WC compartment including 1.5 pairs of 100 x 75mm stainless steel butt hinges.	sq m	154.00
CP.221	Supply and fix in replacement Moflex toilet partitions 10mm thick, model Ardmoie including all necessary accessories and of approved colour.	sq m	198.00
CP.222	Supply and fix in replacement Moflex toilet cubicle door 10mm thick of approved colour complete with hinges	sq m	220.00
CP.223	Supply and fix 1200 x 200 x 3mm thick black common rubber sheet to edge of toilet partition including 25 x 6mm thick aluminium strip and 6mm diameter x 13mm long bolts and nuts.	no	23.10
CP.224	Take out existing Chengal treads and risers, remove off site and replace with new to match existing including wedging, screwing, blocking and bracketting as necessary.	sq m	100.10
CP.225	Take out existing Kapur treads and risers, remove off site and replace with new to match existing including wedging, screwing, blocking and bracketting as necessary.	sq m	63.50
CP.226	Take out existing Balau treads and risers, remove off site and replace with new to match existing including wedging, screwing, blocking and bracketting as necessary.	sq m	68.80
CP.227	Cut out length of existing string to Chengal staircase, remove off site and replace with new to match including all necessary splicing joints, forming housing for treads and risers, refixing balusters and under-pinning	cu m	2009.70
CP.228	Cut out length of existing string to Kapur staircase, remove off site and replace with new to match including all necessary splicing joints, forming housing for treads and risers, refixing balusters and under-pinning	cu m	1299.40
CP.229	Cut out length of existing string to Balau staircase, remove off site and replace with new to match including all necessary splicing joints, forming housing for treads and risers, refixing balusters and under-pinning	cu m	1605.50



S/No	Description	Unit	Unit Cost (\$)
CP.230	Cut out length of Chengal wall hand-rail or handrail to balustrade including frames, bends, etc remove off site and replace with new to match including all necessary splicing joints to existing brackets and joints to dowels and balusters.	cu m	2427.80
CP.231	Cut out length of Balau wall hand-rail or handrail to balustrade including frames, bends, etc remove off site and replace with new to match including all necessary splicing joints to existing brackets and joints to dowels and balusters.	cu m	1692.10
CP.232	Take out existing chengal baluster, remove off site and replace with new to match including housing at both ends.	no	26.40
CP.233	Take out existing Kapur baluster, remove off site and replace with new to match including housing at both ends.	no	21.80
CP.234	Take out existing balau baluster, remove off site and replace with new to match including housing at both ends.	no	26.80
CP.235	Cut out short length of existing chengal newel (not exceeding 10,000sq mm cross-sectional area), remove off site and replace with new to match including temporary support if necessary and housing for handrails, string etc.	m	37.40
CP.236	Cut out short length of existing Kapur newel (not exceeding 10,000sq mm cross-sectional area), remove off site and replace with new to match including temporary support if necessary and housing for handrails, string etc.	m	36.30
CP.237	Cut out short length of existing Balau newel (not exceeding 10,000sq mm cross-sectional area), remove off site and replace with new to match including temporary support if necessary and housing for handrails, string etc.	m	38.00
CP.238	Take down existing balustrade and rebuild using the same material including new wedges for joints, glueing, cramping etc.	no	48.50
CP.239	Secure existing handrail to existing wall bracket or to existing newel or other support.	no	9.70
CP.240	Secure one end of loose baluster.	no	2.30
CP.241	6mm thick calcium silicate board reinforced with cellulose for internal use only and including fixing to bearers. (Bearers measured separately).	sq m	19.00
CP.242	9mm thick calcium silicate board reinforced with cellulose for internal use only and including fixing to bearers. (Bearers measured separately).	sq m	23.30
CP.243	12mm thick calcium silicate board reinforced with cellulose for internal use only and including fixing to bearers. (Bearers measured separately).	sq m	29.20
CP.244	15mm thick calcium silicate board reinforced with cellulose for internal use only and including fixing to bearers. (Bearers measured separately).	sq m	53.70
CP.245	4.5mm thick calcium silicate board reinforced with selected fibres and fillers for internal and external use and including fixing to bearers (bearers measured separately).	sq m	30.00
CP.246	6mm thick calcium silicate board reinforced with selected fibres and fillers for internal and external use and including fixing to bearers (bearers measured separately).	sq m	38.90
CP.247	9mm thick calcium silicate board reinforced with selected fibres and fillers for internal and external use and including fixing to bearers (bearers measured separately).	sq m	59.80
CP.248	12mm thick calcium silicate board reinforced with selected fibres and fillers for internal and external use and including fixing to bearers (bearers measured separately).	sq m	108.20

S/No	Description	Unit	Unit Cost (\$)
CP.249	6mm thick top grade fibre resistance calcium silicate board reinforced with selected fibres and fillers for internal use and including fixing to bearers (bearers measured separately).	sq m	26.40
CP.250	9mm thick top grade fibre resistance calcium silicate board reinforced with selected fibres and fillers for internal use and including fixing to bearers (bearers measured separately).	sq m	33.00
CP.251	12mm thick top grade fibre resistance calcium silicate board reinforced with selected fibres and fillers for internal use and including fixing to bearers (bearers measured separately).	sq m	37.60
CP.252	4.5mm thick fibre-reinforced cement building board fixed to bearers (bearers measured separately).	sq m	17.60
CP.253	6mm thick fibre-reinforced cement building board fixed to bearers (bearers measured separately).	sq m	19.10
CP.254	9mm thick fibre-reinforced cement building board fixed to bearers (bearers measured separately).	sq m	32.70
CP.255	12mm thick fibre-reinforced cement building board fixed to bearers (bearers measured separately).	sq m	26.40
CP.256	6mm thick top grade fire-resistance fibre-reinforced cement building board fixed to bearers (bearers measured separately)	sq m	27.50
CP.257	9mm thick top grade fire-resistance fibre-reinforced cement building board fixed to bearers (bearers measured separately)	sq m	38.30
CP.258	12mm thick top grade fire-resistance fibre-reinforced cement building board fixed to bearers (bearers measured separately)	sq m	46.60
CP.259	6mm thick cement building board fixed to bearers (Bearers measured separately).	sq m	16.60
CP.260	8mm thick cement building board fixed to bearers (Bearers measured separately).	sq m	18.00
CP.261	10mm thick cement building board fixed to bearers (Bearers measured separately).	sq m	19.70
CP.262	12mm thick cement building board fixed to bearers (Bearers measured separately).	sq m	23.10
CP.263	16mm thick cement building board fixed to bearers (Bearers measured separately).	sq m	29.70
CP.264	18mm thick cement building board fixed to bearers (Bearers measured separately).	sq m	37.00
CP.265	24mm thick cement building board fixed to bearers (Bearers measured separately).	sq m	43.60
CP.266	10mm thick approved gypsum board pinned to bearers or fixed with brass screws to bearers (Bearers measured separately)	sq m	15.80
CP.267	13mm thick approved gypsum board pinned to bearers or fixed with brass screws to bearers (Bearers measured separately)	sq m	17.60
CP.268	2mm thick lead sheet lining covered with and including laminated gypsum board.	sq m	261.40
CP.269	3mm thick lead sheet lining covered with and including laminated gypsum board.	sq m	332.80
CP.270	13mm thick approved termite-proof fibre-board fixed to bearers with and including galvanised clout headed nail set out symmetrically and finished with V-shaped butt joints (bearers measured separately)	sq m	7.70
CP.271	13mm thick fibre board ceiling lining or wall panelling (timber framing and painting measured separately).	sq m	15.40
CP.272	Extra over fibreboard lining for junction piece not exceeding 75mm x 13mm fixed to bearers with and including galvanised clout headed nail set out symmetrically and finished with V-shaped butt joints (bearers measured	m	1.50

S/No	Description	Unit	Unit Cost (\$)
	separately).		
CP.273	3mm thick approved quality hardboard pinned or fixed to bearers (bearers measured separately).	sq m	7.40
CP.274	4.8mm thick approved quality hardboard pinned or fixed to bearers (bearers measured separately)	sq m	8.80
CP.275	6mm thick approved quality hardboard pinned or fixed to bearers (bearers measured separately)	sq m	10.00
CP.276	3mm thick approved quality perforated hardboard pinned or fixed to bearers (bearers measured separately).	sq m	7.60
CP.277	3mm thick clear perspex sheet	sq m	74.80
CP.278	5mm thick clear perspex sheet.	sq m	84.30
CP.279	12mm thick clear perspex sheet	sq m	144.80
CP.280	4mm thick ordinary plywood fixed and glued with an approved adhesive compound as panelling or pinned or fixed to bearers with brass screws (bearers measured separately).	sq m	6.30
CP.281	6mm thick ordinary plywood fixed and glued with an approved adhesive compound as panelling or pinned or fixed to bearers with brass screws (bearers measured separately).	sq m	8.00
CP.282	9mm thick ordinary plywood fixed and glued with an approved adhesive compound as panelling or pinned or fixed to bearers with brass screws (bearers measured separately).	sq m	11.10
CP.283	12mm thick ordinary plywood fixed and glued with an approved adhesive compound as panelling or pinned or fixed to bearers with brass screws (bearers measured separately).	sq m	12.90
CP.284	15mm thick ordinary plywood fixed and glued with an approved adhesive compound as panelling or pinned or fixed to bearers with brass screws (bearers measured separately).	sq m	16.40
CP.285	18mm thick ordinary plywood fixed and glued with an approved adhesive compound as panelling or pinned or fixed to bearers with brass screws (bearers measured separately).	sq m	17.70
CP.286	25mm thick ordinary plywood fixed and glued with an approved adhesive compound as panelling or pinned or fixed to bearers with brass screws (bearers measured separately).	sq m	23.10
CP.287	4mm thick plywood with Teak, or other veneer on one face pinned or screwed with brass screws to bearers or glued with an approved adhesive compound as panelling (bearers measured separately).	sq m	15.60
CP.288	5mm thick plywood with Teak, or other veneer on one face pinned or screwed with brass screws to bearers or glued with an approved adhesive compound as panelling (bearers measured separately).	sq m	16.40
CP.289	6mm thick plywood with Teak, or other veneer on one face pinned or screwed with brass screws to bearers or glued with an approved adhesive compound as panelling (bearers measured separately).	sq m	17.20
CP.290	4mm thick approved waterproof plywood fixed and glued with an approved adhesive compound as panelling or pinned or fixed to bearers with brass screw (Bearers measured separately).	sq m	10.20
CP.291	6mm thick approved waterproof plywood fixed and glued with an approved adhesive compound as panelling or pinned or fixed to bearers with brass screw (Bearers measured separately).	sq m	11.80

S/No	Description	Unit	Unit Cost (\$)
CP.292	9mm thick approved waterproof plywood fixed and glued with an approved adhesive compound as panelling or pinned or fixed to bearers with brass screw (Bearers measured separately).	sq m	14.10
CP.293	12mm thick approved waterproof plywood fixed and glued with an approved adhesive compound as panelling or pinned or fixed to bearers with brass screw (Bearers measured separately).	sq m	15.45
CP.294	15mm thick approved waterproof plywood fixed and glued with an approved adhesive compound as panelling or pinned or fixed to bearers with brass screw (Bearers measured separately).	sq m	17.20
CP.295	18mm thick approved waterproof plywood fixed and glued with an approved adhesive compound as panelling or pinned or fixed to bearers with brass screw (Bearers measured separately).	sq m	18.50
CP.296	25mm thick approved waterproof plywood fixed and glued with an approved adhesive compound as panelling or pinned or fixed to bearers with brass screw (Bearers measured separately).	sq m	23.30
CP.297	3mm thick approved marine plywood fixed and glued with an approved compound as panelling or pinned or fixed to bearers with brass screws (Bearers measured separately).	sq m	15.20
CP.298	6mm thick approved marine plywood fixed and glued with an approved compound as panelling or pinned or fixed to bearers with brass screws (Bearers measured separately).	sq m	21.50
CP.299	12mm thick approved marine plywood fixed and glued with an approved compound as panelling or pinned or fixed to bearers with brass screws (Bearers measured separately).	sq m	35.00
CP.300	15mm thick approved marine plywood fixed and glued with an approved compound as panelling or pinned or fixed to bearers with brass screws (Bearers measured separately).	sq m	41.00
CP.301	18mm thick approved marine plywood fixed and glued with an approved compound as panelling or pinned or fixed to bearers with brass screws (Bearers measured separately).	sq m	49.50
CP.302	25mm thick approved marine plywood fixed and glued with an approved compound as panelling or pinned or fixed to bearers with brass screws (Bearers measured separately).	sq m	66.00
CP.303	Decorative vinyl or veneer (any thickness) to gypsum board, plywood, etc.	sq m	7.60
CP.304	0.8mm thick laminated plastic lining fixed to timber surfaces with approved adhesive compound including preparing surface.	sq m	19.40
CP.305	1mm thick laminated plastic lining fixed to timber surfaces with approved adhesive compound including preparing surface.	sq m	22.20
CP.306	1.3 mm thick laminated plastic lining fixed to timber surfaces with approved adhesive compound including preparing surface.	sq m	25.10
CP.307	1mm thick decorative steel plate formica fixed to timber surfaces with approved adhesive compound including preparing surface	sq m	101.60
CP.308	Strip existing laminated plastic veneer lining, remove off site and prepare surfaces to receive new.	sq m	3.90
CP.309	10mm thick (at mid-point) Ramin panel comprising of 75mm wide or 100mm wide Ramin strips shaoed to required sizes and design, fixed to timber bearers (Bearers measured separately).	sq m	104.00
CP.310	Take out existing lining (any type and thickness) from partition, counter tops, fitments, wall panels and the like, remove old boards off site and prepare surrounds to receive new.	sq m	2.60

S/No	Description	Unit	Unit Cost (\$)
CP.311	Take out existing lining (any type and thickness) from partition, counter tops, fitments, wall panels and the like, set aside old boards for reuse and prepare surrounds to receive new.	sq m	2.20
CP.312	Take from stock and refix old lining (not exceeding 6mm thick) including new fasteners.	sq m	4.10
CP.313	Take from stock and refix old lining (exceeding 6mm thick and not exceeding 15mm thick) including new fasteners.	sq m	5.10
CP.314	Take from stock and refix old lining (exceeding 15mm thick) including new fasteners.	sq m	6.10
CP.315	Refix only existing plastic lamination after all necessary surface preparations using approved adhesive (Min. 0.5sq m)	sq m	5.50
CP.316	Supply and install 50mm thick light weight partitions all in accordance with the manufacturer's instructions.	sq m	69.30
CP.317	Supply and install cushion lining to peddle cell walls and floor consisting of 6mm thk plywood backing, 50mm foam rubber infill, 1 layer of PVC sheet and 1 layer of canvas dressing, each panel not exceeding 600mm width including lining around squatting pan, observation opening.	sq m	76.20
CP.318	Supply and fix nylon fly-proof netting (14 mesh x 31 gauge) to window, door, panels, etc.	sq m	4.70
CP.319	Supply & Install fly-proof netting 640mm x 410mm magnetic screen for Hostel door louvres.	no	110.00
CP.320	Take out and cart away nylon fly-proof netting (14 mesh x 31 gauge) and prepare surrounds to receive new.	sq m	0.80
CP.321	Take out existing chicken wire netting in fence including any framing or posts (any type) with foundations, remove off site and including making good work disturbed.	sq m	1.50
CP.322	Take out existing chicken wire netting, cart away from site or lay aside for re-use.	sq m	1.20
CP.323	Take from stock and fix only chicken wire netting.	sq m	2.80
CP.324	24 gauge galvanised iron hex chicken wire netting (13 mm each) (fillets measured separately)	sq m	5.70
CP.325	Supply only 13mm x 13mm x 1.2mm thick stainless steel chicken wire mesh.	sq m	34.70
CP.326	Install only stainless steel chicken wire mesh.	sq m	5.50
CP.327	Expanded steel ornamesh 16mm x 38mm x 1mm thick in vents grille work, undersides of eaves etc (fixed to timber or metal frames) (fillets measured separately)	sq m	5.80
CP.328	Expanded steel ornamesh 22mm x 57mm x 2mm thick in vents grille work, undersides of eaves etc (fixed to timber or metal frames) (fillets measured separately)	sq m	14.70
CP.329	Expanded steel ornamesh 35mm x 76mm x 2mm thick in vents grille work, undersides of eaves etc (fixed to timber or metal frames) (fillets measured separately)	sq m	10.20
CP.330	Expanded steel ornamesh 35mm x 76mm x 3mm thick in vents grille work, undersides of eaves etc (fixed to timber or metal frames) (fillets measured separately)	sq m	24.40
CP.331	Expanded steel balustrade mesh 25mm x 4mm x 3mm thick in vents grille work, undersides of eaves etc (fixed to timber or metal frames) (fillets measured separately)	sq m	20.90
CP.332	Expanded steel balustrade mesh 33mm x 102mm x 3mm thick in vents grille work, undersides of eaves etc (fixed to timber or metal frames) (fillets measured separately)	sq m	13.80

S/No	Description	Unit	Unit Cost (\$)
CP.333	Expanded steel Gridmesh 43mm x 135mm x 5mm thick in vents grille work, undersides of eaves etc (fixed to timber or metal frames) (fillets measured separately)	sq m	49.70
CP.334	Expanded steel Gridmesh 30mm x 75mm x 3mm thick in vents grille work, undersides of eaves etc (fixed to timber or metal frames) (fillets measured separately)	sq m	44.20
CP.335	Expanded steel gridmesh 30mm x 75mm x 5mm thick in vents grille work, undersides of eaves etc (fixed to timber or metal frames) (fillets measured separately)	sq m	87.30
CP.336	Square weldmesh 50mm x 50mm x 3.25mm thick in vents grille work, undersides of eaves etc (fixed to timber or metal frames) (fillets measured separately)	sq m	5.70
CP.337	Square weldmesh 50mm x 50mm x 4.10mm thick in vents grille work, undersides of eaves etc (fixed to timber or metal frames) (fillets measured separately)	sq m	8.10
CP.338	Finemesh 12.5mm x 12.5mm x 1.5mm thick in vents grille work, undersides of eaves etc (fixed to timber or metal frames) (fillets measured separately)	sq m	6.70
CP.339	Finemesh 12.5mm x 12.5mm x 1.2mm thick in vents grille work, undersides of eaves etc (fixed to timber or metal frames) (fillets measured separately)	sq m	5.50
CP.340	Finemesh 12.5mm x 25mm x 1.5mm thick in vents grille work, undersides of eaves etc (fixed to timber or metal frames) (fillets measured separately)	sq m	5.30
CP.341	Finemesh 12.5mm x 25mm x 1.2mm thick in vents grille work, undersides of eaves etc (fixed to timber or metal frames) (fillets measured separately)	sq m	3.90
CP.342	Finemesh 25mm x 25mm x 1.5mm thick in vents grille work, undersides of eaves etc (fixed to timber or metal frames) (fillets measured separately)	sq m	3.90
CP.343	Finemesh 25mm x 25mm x 1.2mm thick in vents grille work, undersides of eaves etc (fixed to timber or metal frames) (fillets measured separately)	sq m	2.80
CP.344	Finemesh 50mm x 50mm x 1.5mm thick in vents grille work, undersides of eaves etc (fixed to timber or metal frames) (fillets measured separately)	sq m	2.10
CP.345	Finemesh 50mm x 50mm x 2.0mm thick in vents grille work, undersides of eaves etc (fixed to timber or metal frames) (fillets measured separately)	sq m	4.70
CP.346	Finemesh 50mm x 50mm x 2.0mm thick in vents grille work, undersides of eaves etc (fixed to timber or metal frames) (fillets measured separately)	sq m	3.50
CP.347	Roof mesh 75mm x 75mm x 1.5mm thick in vents grille work, undersides of eaves etc (fixed to timber or metal frames) (fillets measured separately)	sq m	1.50
CP.348	Extra over above items (CP293 to CP312) for tack welding to metal frames (area of mesh measured) (welding equipment measured separately).	sq m	3.30
CP.349	Take out existing weldmesh and the like including or excluding beadings, carting away from site and making good surrounding.	sq m	2.00
CP.350	Tinned wire gauge cut to required sizes and fixed complete including metal or wooden beads and 2 coats paint to bead.	sq m	10.10
CP.351	Aluminium, brass or copper woven wire cut to required sizes and fixed complete including metal or wooden beads and 2 coats paint to bead.	sq m	18.00
CP.352	Perforated zinc cut to required sizes and fixed complete including metal or wooden beads and 2 coats paint to bead.	sq m	5.60
CP.353	Take out existing including beading and cart away.	sq m	0.60
CP.354	Supply and install 50mm thick fibreglass of density 13 - 16kg/cu m insulation.	sq m	7.70
CP.355	Supply and install 50mm thick fibreglass of density 32kg/cu m insulation.	sq m	9.60
CP.356	Supply and install 50mm thick fibreglass of density 48kg/cu m insulation.	sq m	17.10
CP.357	Supply and install 25mm thick mineral wood of density 100 kg/cu m insulation.	sq m	10.10

S/No	Description	Unit	Unit Cost (\$)
CP.358	Supply and install 50mm thick mineral wool of density 50kg/cu m insulation.	sq m	12.50
CP.359	Supply and install 50mm thick mineral wool of density 60kg/cu m insulation.	sq m	13.00
CP.360	Supply and install 50mm thick mineral wool of density 80kg/cu m insulation.	sq m	16.80
CP.361	Supply and install 50 mm thick mineral wool density 100kg/cu m insulation.	sq m	19.00
CP.362	Add to above items (CP319 to CP326) laminated with aluminium foil.	sq m	6.40
CP.363	Supply and install 25mm thick woodwool slab pinned or screwed to bearers (bearers measured separately).	sq m	19.90
CP.364	Supply and install 50mm thick woodwool slab pinned or screwed to bearers (bearers measured separately).	sq m	23.70
CP.365	Supply and install 75mm thick woodwool slab pinned or screwed to bearers (bearers measured separately).	sq m	33.10
CP.366	One layer of 'Sisalation 450' or other equal and approved double sided, double reinforced fire resistant aluminium foil, lapped 150mm at joint, including extra labour dressing insulation sheet over roof purlins, bearers of ceilings, partitions etc (measured nett, no allowance made for laps).	sq m	5.00
CP.367	One layer of 'Sisalation 431' or other equal and approved double sided, double reinforced fire resistant aluminium foil, lapped 150mm at joint, including extra labour dressing insulation sheet over roof purlins, bearers of ceilings, partitions etc (measured nett, no allowance made for laps).	sq m	4.00
CP.368	One layer of 'Sisalation 525' or other equal and approved double sided, double reinforced fire resistant aluminium foil, lapped 150mm at joint, including extra labour dressing insulation sheet over roof purlins, bearers of ceilings, partitions etc (measured nett, no allowance made for laps).	sq m	4.30
CP.369	One layer of 'Sisalation 901' single sided, double reinforced fire resistant aluminium foil, lapped 150mm at joint, including extra labour dressing insulation sheet over roof purlins, bearers of ceilings, partitions etc (measured nett, no allowance made for laps).	sq m	2.30
CP.370	One layer of 'Thermofoil 750' or other equal and approved double sided, reinforced aluminium foil, lapped 150mm at joints, including extra labour dressing over roof purlins, bearers of ceilings, partitions etc (measured nett, no allowance made for laps).	sq m	4.30
CP.371	One layer of 'Thermofoil 731' or other equal and approved double sided, reinforced aluminium foil, lapped 150mm at joints, including extra labour dressing over roof purlins, bearers of ceilings, partitions etc (measured nett, no allowance made for laps).	sq m	3.60
CP.372	One layer of 'Thermofoil 600' single-sided, reinforced aluminium foil, lapped 150mm at joints, including extra labour dressing over roof purlins, bearers of ceilings, partitions etc (measured nett, no allowance made for laps).	sq m	2.80
CP.373	Supply new or in replacement approved type Kapur pelmet, 150mm wide x 150mm deep to curtain rail, sliding partitions, etc	m	8.10
CP.374	Supply new or in replacement approved type Kapur pelmet with Teak ply, 150mm wide x 150mm deep to curtain rail, sliding partitions, etc	m	10.10
CP.375	White plastic curtain rail for light weight fabric curtain c/w brackets, stop and gliders.	m	13.60
CP.376	White plastic curtain rail for heavy fabric curtain c/w brackets, stop and gliders.	m	20.00
CP.377	White plastic curtain rail for heavy fabric curtain c/w brackets, stop and gliders but double tracks.	m	38.50

S/No	Description	Unit	Unit Cost (\$)
CP.378	TOSO' to other equal and approved aluminium 'Elite' type curtain rails for light weight fabric curtain c/w fittings and chord.	m	16.30
CP.379	TOSO' to other equal and approved aluminium 'Delac' type for heavy draperies curtain rails for light weight fabric curtain c/w fittings and chord.	m	24.30
CP.380	TOSO' to other equal and approved aluminium 'Theatrac' type for heavy draperies for stage curtain in schools, halls, etc for light weight fabric curtain c/w fittings and chord.	m	49.70
CP.381	TOSO' to other equal and approved aluminium 'Partrac II' type straight track only c/w fittings, chord and adjustable rod hangers.	m	39.10
CP.382	Extra over straight track for 400 x 400mm single curve rail section including extra hanger rod where necessary	no	29.00
CP.383	Extra over straight track for 910 x 910mm single curve rail section including extra hanger rod where necessary	no	39.10
CP.384	Extra over straight track for double connector including extra hanger rod where necessary	no	96.80
CP.385	Take out existing pelmet and remove off site.	m	2.10
CP.386	Take out existing curtain rail and cart away off site.	m	0.70
CP.387	Take out existing curtain rail and refix.	m	2.60
CP.388	To remove/hang single-draw curtain (any type/size) from or onto the track	per set	1.70
CP.389	To remove/hang double-draw curtain (any type/size) from or onto the track	per set	2.80
CP.390	19mm diameter chromium plated rails for bathroom curtain including wall flanges, hooks and rings.	m	26.60
CP.391	25mm diameter chromium plated rails for bathroom curtain including wall flanges, hooks and rings.	m	31.50
CP.392	Supply and install 90 degree Curvature Monstrack including aluminium slid track, suspension cover, tube suspension collar c/w fittings.	m	80.60
CP.393	Supply and install velvet curtain c/w black cloth backing, tracks and other necessary accessories.	sq m	66.00
CP.394	Supply and install PVC curtain c/w tracks and other necessary accessories.	sq m	30.80
CP.395	Supply and install velvet curtain c/w black cloth both internally and externally and complete with suspension tube.	sq m	101.20
CP.396	Take out existing, supply and fix new felt (any colour) only for noticeboard	sq m	20.00
CP.397	To supply and install new projector screen (manual) approved type size 177.8cm x 177.8 cm c/w installation brackets, ceiling or wall mounted	set	198.00
CP.398	Supply and install OS/AM-1818, OS 1800 x 1800mm wall or ceiling mounted screen (manual) c/w all necessary accessories.	set	198.00
CP.399	Supply and install approved motorized projection screen with motor, high and low limit switch and control switch or remote control, size L2000mm x H2700mm	set	800.00
CP.400	Supply and install approved motorized projection screen, size more than L2000mm with approved motor, high and low limit switch and control switch or remote control with difference type of size includes set up staging for the work	sq m	180.00
CP.401	Supply and install additional control switch for motorized projection screen with all necessary wiring, drilling of hole etc at teaching console or wall	set	100.00
CP.402	Supply and replace existing screen only w/o replacement of brackets including removal and disposal	set	165.00
CP.403	Take out existing projector screen (manual) stack aside or remove off site and make good surrounding.	no	10.60
CP.404	Fix only projector screen (manual) by using approved fasteners (projector screen provided separately)	no	2.80



S/No	Description	Unit	Unit Cost (\$)
CP.405	U-channel top rail for sliding glass panel.	m	1.70
CP.406	Runner for sliding glass panel.	m	2.20
CP.407	Sliding track for sliding glass panel.	m	1.70
CP.408	Wheel for runner.	no	1.10
CP.409	Take out existing defective U-channel, top rail, runner or sliding track.	m	1.10
CP.410	Take out only existing 4.8mm Timsonplate wall mounted 'SS' chalkboard including hardboard backing c/w anodised aluminium frame or kapur timber frame and chalk ledge stack aside or remove off site and make good surround.	no	10.60
CP.411	Take out only existing 4.8mm Timsonplate wall mounted 'SS' chalkboard including hardboard backing c/w anodised aluminium frame or kapur timber frame and chalk ledge and refix including providing new fasteners.	no	24.20
CP.412	Installation of 4.8mm Timsonplate wall mounted 'SS' chalkboard including hardboard backing c/w anodised aluminium frame or kapur timber frame and chalk ledge including providing new fasteners.	no	1.10
CP.413	4.8mm Timsonplate wall mounted 'SS' 600 x 900mm chalkboard including hardboard backing c/w anodised aluminium frame and chalk ledge	no	41.80
CP.414	4.8mm Timsonplate wall mounted 'SS' 600 x 900mm chalkboard including hardboard backing c/w kapur frame and chalk ledge	no	30.80
CP.415	4.8mm Timsonplate wall mounted 'SS' 900 x 1200mm chalkboard including hardboard backing c/w anodised aluminium frame and chalk ledge	no	83.60
CP.416	4.8mm Timsonplate wall mounted 'SS' 900 x 1200mm chalkboard including hardboard backing c/w kapur frame and chalk ledge	no	63.80
CP.417	4.8mm Timsonplate wall mounted 'SS' 900 x 1500mm chalkboard including hardboard backing c/w anodised aluminium frame and chalk ledge	no	104.50
CP.418	4.8mm Timsonplate wall mounted 'SS' 900 x 1500mm chalkboard including hardboard backing c/w kapur frame and chalk ledge	no	79.20
CP.419	4.8mm Timsonplate wall mounted 'SS' 900 x 1800mm chalkboard including hardboard backing c/w anodised aluminium frame and chalk ledge	no	125.40
CP.420	4.8mm Timsonplate wall mounted 'SS' 900 x 1800mm chalkboard including hardboard backing c/w kapur frame and chalk ledge	no	95.70
CP.421	4.8mm Timsonplate wall mounted 'SS' 1200 x 1500mm chalkboard including hardboard backing c/w anodised aluminium frame and chalk ledge	no	140.80
CP.422	4.8mm Timsonplate wall mounted 'SS' 1200 x 1500mm chalkboard including hardboard backing c/w kapur frame and chalk ledge	no	106.70
CP.423	4.8mm Timsonplate wall mounted 'SS' 1200 x 1800mm chalkboard including hardboard backing c/w anodised aluminium frame and chalk ledge	no	167.20
CP.424	4.8mm Timsonplate wall mounted 'SS' 1200 x 1800mm chalkboard including hardboard backing c/w kapur frame and chalk ledge	no	128.70
CP.425	4.8mm Timsonplate wall mounted 'SS' 1200 x 2400mm chalkboard including hardboard backing c/w anodised aluminium frame and chalk ledge	no	224.40
CP.426	4.8mm Timsonplate wall mounted 'SS' 1200 x 2400mm chalkboard including hardboard backing c/w kapur frame and chalk ledge	no	171.60
CP.427	4.8mm Timsonplate wall mounted 'SS' 1200 x 3600 mm chalkboard including hardboard backing c/w anodised aluminium frame and chalk ledge	no	334.40
CP.428	4.8mm Timsonplate wall mounted 'SS' 1200 x 3600mm chalkboard including hardboard backing c/w kapur frame and chalk ledge	no	257.40
CP.429	Provide and fix in brickwork or concrete wooden plugs of class 'B' timber treated with wood preservative or approved plastic.	no	0.30

S/No	Description	Unit	Unit Cost (\$)
CP.430	Fix only noticeboards whiteboards/chalkboards etc by using approved 'HILTI' fasteners.	no	5.50
CP.431	Modify existing timber window (any type and size) provide new transome and bearers including taking out and rehanging window. Fit in air-condition frame (frame supplied separately) between the window sill and the new transome and block up the opening on both sides of the frames with 6mm thick plywood including 3 coats of paint and making good work disturbed.	no	132.00
CP.432	Modify existing aluminium window/vent (any type and size) for the installation of air-condition, including take out existing window /vent, cut out existing mullion, install air-condition frame and new aluminium mullion to two sides of air-condition frame, fixing fixed glass panel to surrounding of air-condition frame including all necessary aluminium 'C' channel hollow section etc.	no	176.00
CP.433	Modify existing adjustable metal louvred frame (any type and size) and including taking out louvres etc. Fit in air-condition frame (frame supplied separately) and block up the openings on both sides of the frames with 6mm thick plywood including 3 coats of paint and making good work disturbed.	no	121.00
CP.434	Fabricate, supply and deliver window unit type air condition frame comprising of 100mm x 50mm wrot Kapur including three coats of selected paint.	no	33.00
CP.435	Key box overall size 150 x 150 x 50mm wide constructed of wrot Kapur frames 38 x 25mm thick rebated to receive and including 6mm thick plywood backing and sizes and c/w glazed framed door, 25mm padlock with keys, hasps and staples, hinges and painted with three coats of selected paint and mounted on the wall.	no	77.00
CP.436	Emergency keybox with break glass (any type and size)	no	27.50
CP.437	Take out existing keybox with break glass (any type and size)	no	2.20
CP.438	Remove existing timber railing (any design and height), cart away and make good area disturbed.	m	1.40
CP.439	Remove existing timber railing (any design and height), but replace any damaged portion (but not exceeding 2 balusters per m run or 0.5m run of handrail) cramp and secure all joints and refix (any design and height).	m	17.60
CP.440	Slatted panels consisting of Kapur battens not exceeding 1000sq mm sectional area fixed not more than 20mm apart on and including 6mm thick plywood backing.	sq m	32.30
CP.441	Slatted panels consisting of on timber bearers (bearers measured separately) not exceeding 1000sq mm sectional area fixed not more than 20mm apart on and including 6mm thick plywood backing.	sq m	25.40
CP.442	Shaped drawer pull handle (any shape, length and type of timber screwed to drawer front).	no	2.20
CP.443	Drawers consisting of Teak timber 19mm front, 13mm sides and back and butt jointed bottom, all dovetailed housed and glued together to a depth of between 75mm to 200mm internally and the bottom shall be 9mm thick Teak timber. The internal and external finishes shall be painted or finished with laminated plastic with internal area not exceeding 0.10sq m.	no	41.50
CP.444	Drawers consisting of Teak timber 19mm front, 13mm sides and back and butt jointed bottom, all dovetailed housed and glued together to a depth of between 75mm to 200mm internally and the bottom shall be 9mm thick Teak timber. The internal and external finishes shall be painted or finished with laminated plastic with internal area exceeding 0.10 sq m & not exceeding 0.20 sq m.	no	59.30

S/No	Description	Unit	Unit Cost (\$)
CP.445	Drawers consisting of Teak timber 19mm front, 13mm sides and back and butt jointed bottom, all dovetailed housed and glued together to a depth of between 75mm to 200mm internally and the bottom shall be 9mm thick Teak timber. The internal and external finishes shall be painted or finished with laminated plastic with internal area exceeding 0.20 sq m & not exceeding 0.30 sq m.	no	69.10
CP.446	Add for CP443 each additional 0.10sq m in internal area	no	13.00
CP.447	Add for CP443 each additional 75mm in depth	no	5.40
CP.448	Drawers consisting of plywood with Polyken 19mm front, 13mm sides and back and butt jointed bottom, all dovetailed housed and glued together to a depth of between 75mm to 200mm internally and the bottom shall be 9mm thick plywood with Polyken. The internal and external finishes shall be painted or finished with laminated plastic with internal area not exceeding 0.10sq m.	no	22.10
CP.449	Drawers consisting of plywood with Polyken 19mm front, 13mm sides and back and butt jointed bottom, all dovetailed housed and glued together to a depth of between 75mm to 200mm internally and the bottom shall be 9mm thick plywood with Polyken. The internal and external finishes shall be painted or finished with laminated plastic with internal area exceeding 0.10 sq m & not exceeding 0.20 sq m.	no	31.00
CP.450	Drawers consisting of plywood Polyken 19mm front, 13mm sides and back and butt jointed bottom, all dovetailed housed and glued together to a depth of between 75mm to 200mm internally and the bottom shall be 9mm thick plywood with Polyken. The internal and external finishes shall be painted or finished with laminated plastic with internal area exceeding 0.20 sq m & not exceeding 0.30 sq m.	no	36.70
	Add for CP444 each additional 0.10sq m in internal area	no	5.80
CP.451	Add for CP444 each additional 75mm in depth	no	2.00
CP.452	Drawers consisting of Kapur timber 19mm front, 13mm sides and back and butt jointed bottom, all dovetailed housed and glued together to a depth of between 75mm to 200mm internally and the bottom shall be 9mm thick Kapur plywood. The internal and external finishes shall be painted or finished with laminated plastic with internal area not exceeding 0.10sq m.	no	17.30
CP.453	Drawers consisting of Kapur timber 19mm front, 13mm sides and back and butt jointed bottom, all dovetailed housed and glued together to a depth of between 75mm to 200mm internally and the bottom shall be 9mm thick Kapur plywood. The internal and external finishes shall be painted or finished with laminated plastic with internal area exceeding 0.10 sq m & not exceeding 0.20 sq m.	no	23.40
CP.454	Drawers consisting of Kapur timber 19mm front, 13mm sides and back and butt jointed bottom, all dovetailed housed and glued together to a depth of between 75mm to 200mm internally and the bottom shall be 9mm thick Kapur plywood. The internal and external finishes shall be painted or finished with laminated plastic with internal area exceeding 0.20 sq m & not exceeding 0.30 sq m.	no	28.20
CP.455	Add for CP445 each additional 0.10sq m in internal area	no	4.50
CP.456	Add for CP445 each additional 75mm in depth	no	0.70
CP.457	Drawers consisting of Dark Red Meranti 19mm front, 13mm sides and back and butt jointed bottom, all dovetailed housed and glued together to a depth of between 75mm to 200mm internally and the bottom shall be 9mm thick Dark Red Meranti plywood. The internal and external finishes shall be painted or finished with laminated plastic with internal area not exceeding 0.10sq m.	no	13.90

S/No	Description	Unit	Unit Cost (\$)
CP.458	Drawers consisting of Dark Red Meranti 19mm front, 13mm sides and back and butt jointed bottom, all dovetailed housed and glued together to a depth of between 75mm to 200mm internally and the bottom shall be 9mm thick Dark Red Meranti plywood. The internal and external finishes shall be painted or finished with laminated plastic with internal area exceeding 0.10 sq m & not exceeding 0.20 sq m.	no	19.00
CP.459	Drawers consisting of Dark Red Meranti 19mm front, 13mm sides and back and butt jointed bottom, all dovetailed housed and glued together to a depth of between 75mm to 200mm internally and the bottom shall be 9mm thick Dark Red Meranti plywood. The internal and external finishes shall be painted or finished with laminated plastic with internal area exceeding 0.20 sq m & not exceeding 0.30 sq m.	no	23.00
CP.460	Add for CP446 each additional 0.10sq m in internal area	no	4.40
CP.461	Add for CP446 each additional 75mm in depth	no	0.70
CP.462	Upper level wrot 'Kapur' kitchen cabinet (Type D) not exceeding 800mm high and 290mm wide and 2100mm length as shown in Appendix 19D fixed to wall including all necessary ironmongery	no	472.60
CP.463	Lower level wrot 'Kapur' kitchen cabinet (Type E) not exceeding 850mm high and 600mm wide and 6100mm length as shown in Appendix 19D fixed to wall including all necessary ironmongery (6mm hollow block wall to support sink and 100 x 100 x 6mm thick white wall tile finishes measured separately)	no	2059.20
CP.464	Wrot 'Kapur' kitchen cabinet (Type F) as shown in Appendix 19E fixed to wall and concrete base including all necessary ironmongery (100 x 100 x 6mm thick white tiles measured separately)	no	1905.00
CP.465	Built-in wrot 'Kapur' wardrobe not exceeding 600mm wide with height to soffit of ceiling as shown in Appendix 19F fixed to wall and concrete base including all necessary ironmongery.	m	550.00
CP.466	Wrot 'Kapur' kitchen cabinet full height (upper and lower level) fixed to wall and concrete base as shown in Appendix 19G including necessary sealants to abutting worktop and ironmongery.	m	660.00
CP.467	Wrot 'Kapur' kitchen cabinet (lower level) as shown in Appendix 19H fixed to wall and concrete base including all necessary ironmongery and sealants to abutting worktop.	m	495.00
CP.468	Supply, fabricate and install built-in cabinet with sliding doors approx.size L3100mm x W600mm x H950mm, 20mm thick solid plywood with approved lamination, ABS edging and wooden trimming, adjustable shelves with key-alike lockable sliding doors c/w heavy duty roller and sliding track.	no	900.00
CP.469	Take out existing counter (any type)/kitchen cabinet and remove off site.	m	7.30
CP.470	Repair to existing counter, kitchen sink cabinet and the like not exceeding 1 metre wide by replacing short lengths of damaged timber, plywood or formica lining not exceeding 0.5sq m per spot and recamp drawers or doors. (short lengths not exceeding 750mm long. Hollow black wall and white wall tile finishing measured separately)	m	68.60
CP.471	Repair to existing cabinet, wardrobe, counter, etc including stripping the existing veneer lining and prepare surface to receive new finishes.	sq m	28.00
CP.472	Dismantle existing cabinet, wardrobe, counter, etc and reinstall to new location.	m	35.00
CP.473	Make opening (any size) in new or existing counter top for sit-in sink including additional bearers and making good.	no	42.90

S/No	Description	Unit	Unit Cost (\$)
CP.474	Extra over counter, kitchen cabinet, shelves or other prefabricated joinery fitments which are rated against the break down items for extra handling , transportation, prefabrication, etc (length of fitments measured irrespective of width and height).	m	92.40
CP.475	Supply and fix water-resistant decorative postformed worktops of standard sizes 600mm x 3000mm x 40mm thick (marine ply base measured separately).	m	89.20
CP.476	Supply and fix water-resistant decorative postformed worktops of standard sizes 600mm x 3000mm x 20mm thick (marine ply base measured separately).	m	56.70
CP.477	Rubber felt lining to door frames.	m	4.40
CP.478	Fibre felt lining to door frames.	m	4.70
CP.479	Take out existing felt lining and prepare to receive new.	m	1.50
CP.480	Remove existing timber or steel or stone table, stools any size, etc and cart away off site including making good floor and wall finishes to match existing.	no	21.10
CP.481	Approved black rubber shoe to fitments etc.	no	2.20
CP.482	Approved door seal to sides of door or window.	m	7.70
CP.483	Approved door brush to top or bottom of doors.	m	8.80
CP.484	Louvre blades not exceeding 2,000sq mm in sectional area including fixing fillets	m	3.40
CP.485	Add to above item CP470 for each additional increase of 2,000sq mm in sectional area	m	3.00
CP.486	Hat and coat rail not exceeding 2,000sq mm in sectional area chamfered all round and screwed to wall	m	3.40
CP.487	Add to above item CP472 for each additional increase of 2,000sq mm in sectional area	m	3.00
CP.488	Take out existing hinges and remove off site.	no	0.70
CP.489	Fix only hinges	no	1.20
CP.490	Take out existing hinges and refix.	no	1.90
CP.491	Supply and install 35mm diameter nylon chrome plated concealed hinges	no	3.30
CP.492	Supply and install 35mm diameter stainless steel concealed hinges	no	4.40
CP.493	Supply and install 4 ball bearing type stainless steel butt hinges 127 x 89.3mm with stainless screws	no	14.50
CP.494	Supply and install 2 ball bearing type stainless steel butt hinges 127 x 89.3mm with stainless screws	no	11.50
CP.495	Supply & fix 50mm butt medium pressed steel hinges. (Rate per pair of two)	pair	1.10
CP.496	Supply & fix 65mm butt medium pressed steel hinges. (Rate per pair of two)	pair	2.00
CP.497	Supply & fix 75mm butt medium pressed steel hinges. (Rate per pair of two)	pair	3.30
CP.498	Supply & fix 90mm butt medium pressed steel hinges. (Rate per pair of two)	pair	3.30
CP.499	Supply & fix 100mm butt medium pressed steel hinges. (Rate per pair of two)	pair	4.00
CP.500	Supply & fix 125mm butt medium pressed steel hinges. (Rate per pair of two)	pair	5.80
CP.501	Supply & fix 150mm butt medium pressed steel hinges. (Rate per pair of two)	pair	7.70
CP.502	Supply & fix 50mm heavy pressed steel hinges. (Rate per pair of two)	pair	2.20
CP.503	Supply & fix 65mm heavy pressed steel hinges. (Rate per pair of two)	pair	3.30
CP.504	Supply & fix 75mm heavy pressed steel hinges. (Rate per pair of two)	pair	4.60
CP.505	Supply & fix 90mm heavy pressed steel hinges. (Rate per pair of two)	pair	5.30
CP.506	Supply & fix 100mm heavy pressed steel hinges. (Rate per pair of two)	pair	7.20
CP.507	Supply & fix 125mm heavy pressed steel hinges. (Rate per pair of two)	pair	8.30
CP.508	Supply & fix 150mm heavy pressed steel hinges. (Rate per pair of two)	pair	9.50

S/No	Description	Unit	Unit Cost (\$)
CP.509	Supply & fix 75mm stainless steel hinges. (Rate per pair of two)	pair	14.00
CP.510	Supply & fix 90mm stainless steel hinges. (Rate per pair of two)	pair	22.40
CP.511	Supply & fix 100mm stainless steel hinges. (Rate per pair of two)	pair	16.10
CP.512	Supply and fix 125mm stainless steel hinges	pair	28.20
CP.513	Supply & fix 50mm solid drawn brass with steel pins hinges. (Rate per pair of two)	pair	5.50
CP.514	Supply & fix 65mm solid drawn brass with steel pins hinges. (Rate per pair of two)	pair	6.40
CP.515	Supply & fix 75mm solid drawn brass with steel pins hinges. (Rate per pair of two)	pair	7.30
CP.516	Supply & fix 90mm solid drawn brass with steel pins hinges. (Rate per pair of two)	pair	7.30
CP.517	Supply & fix 100mm solid drawn brass with steel pins hinges. (Rate per pair of two)	pair	8.70
CP.518	Supply & fix 125mm solid drawn brass with steel pins hinges. (Rate per pair of two)	pair	22.00
CP.519	Supply & fix 150mm solid drawn brass with steel pins hinges. (Rate per pair of two)	pair	36.30
CP.520	Supply & fix 100mm WISS stainless steel ball bearing butt hinges. (Rate per pair of two)	pair	35.20
CP.521	Supply & fix 100mm nylon chrom plated butt hinges. (Rate per pair of two)	pair	6.30
CP.522	Supply & fix 75mm counter back flap, solid drawn brass with steel pins butt hinges. (Rate per pair of two)	pair	16.50
CP.523	Supply & fix 90mm counter back flap, solid drawn brass with steel pins butt hinges. (Rate per pair of two)	pair	19.00
CP.524	Supply & fix 100mm counter back flap, solid drawn brass with steel pins butt hinges. (Rate per pair of two)	pair	20.50
CP.525	Supply & fix 75mm Parliament hinges solid drawn brass with steel pins. (Rate per pair of two)	pair	21.00
CP.526	Supply & fix 90mm Parliament hinges solid drawn brass with steel pins. (Rate per pair of two)	pair	25.30
CP.527	Supply & fix 100mm Parliament hinges solid drawn brass with steel pins. (Rate per pair of two)	pair	45.70
CP.528	Supply & fix 75mm Japanned steel helical spring-hinges single action. (Rate per pair of two)	pair	8.80
CP.529	Supply & fix 100mm Japanned steel helical spring-hinges single action. (Rate per pair of two)	pair	11.00
CP.530	Supply & fix 150mm Japanned steel helical spring-hinges single action. (Rate per pair of two)	pair	14.30
CP.531	Supply & fix 75mm Japanned steel helical spring-hinges double action. (Rate per pair of two)	pair	19.80
CP.532	Supply & fix 100mm Japanned steel helical spring-hinges double action. (Rate per pair of two)	pair	30.80
CP.533	Supply & fix 150mm Japanned steel helical spring-hinges double action. (Rate per pair of two)	pair	44.00
CP.534	Supply & fix 75mm Brass/chromium plated steel helical spring hinges, single action. (Rate per pair of two)	pair	7.70
CP.535	Supply & fix 100mm Brass/chromium plated steel helical spring hinges, single action. (Rate per pair of two)	pair	9.40
CP.536	Supply & fix 150mm Brass/chromium plated steel helical spring hinges, single action. (Rate per pair of two)	pair	20.40

S/No	Description	Unit	Unit Cost (\$)
CP.537	Supply & fix 75mm Brass/chromium plated steel helical spring hinges, double action. (Rate per pair of two)	pair	18.70
CP.538	Supply & fix 100mm Brass/chromium plated steel helical spring hinges, double action. (Rate per pair of two)	pair	22.00
CP.539	Supply & fix 150mm Brass/chromium plated steel helical spring hinges, double action. (Rate per pair of two)	pair	33.00
CP.540	Supply & fix 75mm Aluminium spring hinges. (Rate per pair of two)	pair	6.10
CP.541	Supply & fix 100mm Aluminium spring hinges. (Rate per pair of two)	pair	7.20
CP.542	Supply & fix 150mm Aluminium spring hinges. (Rate per pair of two)	pair	8.30
CP.543	Supply & fix 200mm Japanned Tee hinges. (Rate per pair of two)	pair	3.20
CP.544	Supply & fix 250mm Japanned Tee hinges. (Rate per pair of two)	pair	4.80
CP.545	Supply & fix 300mm Japanned Tee hinges. (Rate per pair of two)	pair	5.80
CP.546	Supply & fix 450mm Japanned Tee hinges. (Rate per pair of two)	pair	12.40
CP.547	Supply & fix 600mm Japanned Tee hinges. (Rate per pair of two)	pair	15.70
CP.548	Supply & fix 300mm Japanned strap hinges with all necessary bolts and nuts. (Rate per pair of two)	pair	1.80
CP.549	Supply & fix 375mm Japanned strap hinges with all necessary bolts and nuts. (Rate per pair of two)	pair	2.90
CP.550	Supply & fix 450mm Japanned strap hinges with all necessary bolts and nuts. (Rate per pair of two)	pair	4.00
CP.551	Supply & fix 525mm Japanned strap hinges with all necessary bolts and nuts. (Rate per pair of two)	pair	4.70
CP.552	Supply & fix 600mm Japanned strap hinges with all necessary bolts and nuts. (Rate per pair of two)	pair	5.70
CP.553	Supply and fix 38mm diameter brass ring fitments hinges.	pair	8.70
CP.554	Supply and fix 44mm long brass arch fitments hinges.	pair	9.50
CP.555	Supply and fix 44mm long nylon arch fitments hinges.	pair	8.00
CP.556	Supply and fix purpose-made mild steel machined pivot hinge with side welded to steel gate and hook welded to tubular gate post	pair	29.00
CP.557	Supply and fix piano hinges (stainless steel)	m	13.90
CP.558	Supply only 'Union' double action floor spring with shoe fixing and top centre (8512 - 122AS) (per set of two).	set	423.50
CP.559	Supply only 'Union' duo-check single-action heavy duty floor springs (per set of two)	set	361.90
CP.560	Supply only single action (No 8524 - 135AS or No 8524 - 546AS) (per set of two)	set	332.60
CP.561	Supply only DT 22 Ohtori Kilco double action floor spring (per set of two)	set	336.70
CP.562	Supply only Dorma BTS 75V (non hold or hold open) floor spring c/w door straps, extended spindle, stainless steel cover plate and screw pack	no	460.00
CP.563	Supply only Dorma BTS 84 (non holder or hold open) floor spring c/w door strap, AL receiver, AL top pivot or centre, stainless steel cover plate and screw pack	no	360.00
CP.564	Supply only Dorma BTS 80 heavy duty floor spring with backcheck, hold open, stainless steel cover plate and screw pack	no	803.00
CP.565	Fix only floor spring including preparing floor to receive floor spring, making good work disturbed and rehanging door leaf (floor spring provided separately)	set	71.50
CP.566	Take out existing floor spring and remove off site including taking down door leaf and making good work disturbed.	set	60.50
CP.567	Take out existing floor spring, repair/service without replacing any components, fix back floor spring including taking down and rehanging door leaf and making good work disturbed.	set	121.00

S/No	Description	Unit	Unit Cost (\$)
CP.568	To provide labour, tools and transport etc to fix only closer any type and size including taking down glass door, rehang and re-alignment of glass door.	set	110.00
CP.569	Supply only Dorma BTS84 floor spring body c/w stainless steel cover plate and screw pack (non- hold or hold open)	no	360.00
CP.570	Supply only Dorma BTS75V floor spring body only (non-hold or hold open)	no	460.00
CP.571	Supply only Dorma BTS75V stainless steel cover plate c/w screw pack	no	57.20
CP.572	Supply only Dorma BTS80 heavy duty floor spring body only	no	770.00
CP.573	Supply only Dorma BTS80 stainless steel cover plate c/w screw pack	no	69.30
CP.574	Supply only Dorma PT10 insert for patch - fitting glass doors	no	66.00
CP.575	Supply only Dorma PT10 lower patch c/w insert , base and cover for patch-fitting glass doors	no	132.00
CP.576	Supply only Dorma PT20 insert for patch - fitting glass doors	no	66.00
CP.577	Supply only Dorma PT20 upper patch c/w insert, base and cover for patch - fitting glass doors	no	132.00
CP.578	Supply only Dorma PT24 top pivot for patch - fitting glass doors	no	66.00
CP.579	Supply only Dorma PC91 cylinder - Nikel for patch - fitting glass doors	no	99.00
CP.580	Supply only Dorma AL door strap - 7422 for timber door/ aluminium for glass doors	no	66.00
CP.581	Supply only Dorma AL top centre for timber door/ aluminium for glass doors	no	66.00
CP.582	Supply only Dorma AL receiver for timber door/ aluminium for glass doors	no	66.00
CP.583	Supply only Dorma GD door strap- 8023 for top and bottom APG Shoe for glass door	no	66.00
CP.584	Supply only Dorma GD top centre for top and bottom APG Shoe for glass door	no	66.00
CP.585	Supply only Dorma GD receiver for top and bottom APG Shoe for glass door	no	66.00
CP.586	Supply only Dorma door strap - 7421 for top and bottom APG Shoe for glass door	no	66.00
CP.587	Supply and fix 150mm stainless steel flush bolt	no	9.70
CP.588	Supply and fix 225mm stainless steel flush bolt	no	11.40
CP.589	Supply and fix chrome plated indicating bolt (Alpha 630)	no	11.10
CP.590	Fix only indicating bolt (bolt provided)	no	5.30
CP.591	Fix only barrel or flush bolt (bolt provided)	no	2.60
CP.592	Take out existing barrel, flush or indicating bolt, cart away and make good work disturbed.	no	0.70
CP.593	Supply & fix 75mm Japanned barrel/pad/shoot/tower bolts with polished shoot (straight or neck)	no	2.20
CP.594	Supply & fix 100mm Japanned barrel/pad/shoot/tower bolts with polished shoot (straight or neck)	no	3.10
CP.595	Supply & fix 150mm Japanned barrel/pad/shoot/tower bolts with polished shoot (straight or neck)	no	3.30
CP.596	Supply & fix 200mm Japanned barrel/pad/shoot/tower bolts with polished shoot (straight or neck)	no	4.10
CP.597	Supply & fix 250mm Japanned barrel/pad/shoot/tower bolts with polished shoot (straight or neck)	no	5.00
CP.598	Supply & fix 300mm Japanned barrel/pad/shoot/tower bolts with polished shoot (straight or neck)	no	6.20
CP.599	Supply & fix 375mm Japanned barrel/pad/shoot/tower bolts with polished shoot (straight or neck)	no	2.20
CP.600	Supply & fix 450mm Japanned barrel/pad/shoot/tower bolts with polished shoot (straight or neck)	no	8.10



S/No	Description	Unit	Unit Cost (\$)
CP.601	Supply & fix 600mm Japanned barrel/pad/shoot/tower bolts with polished shoot (straight or neck)	no	9.40
CP.602	Supply & fix 75mm Brass barrel/pad/shoot/tower bolts with polished shoot (straight or neck)	no	3.90
CP.603	Supply & fix 100mm Brass barrel/pad/shoot/tower bolts with polished shoot (straight or neck)	no	4.70
CP.604	Supply & fix 150mm Brass barrel/pad/shoot/tower bolts with polished shoot (straight or neck)	no	5.90
CP.605	Supply & fix 200mm Brass barrel/pad/shoot/tower bolts with polished shoot (straight or neck)	no	6.60
CP.606	Supply & fix 250mm Brass barrel/pad/shoot/tower bolts with polished shoot (straight or neck)	no	7.20
CP.607	Supply & fix 300mm Brass barrel/pad/shoot/tower bolts with polished shoot (straight or neck)	no	8.60
CP.608	Supply & fix 375mm Brass barrel/pad/shoot/tower bolts with polished shoot (straight or neck)	no	13.00
CP.609	Supply & fix 450mm Brass barrel/pad/shoot/tower bolts with polished shoot (straight or neck)	no	15.80
CP.610	Supply & fix 600mm Brass barrel/pad/shoot/tower bolts with polished shoot (straight or neck)	no	18.40
CP.611	Supply & fix 75mm Brass slide pattern flush bolt with brass shoot (straight or neck)	no	5.20
CP.612	Supply & fix 100mm Brass slide pattern flush bolt with brass shoot (straight or neck)	no	7.00
CP.613	Supply & fix 150mm Brass slide pattern flush bolt with brass shoot (straight or neck)	no	9.10
CP.614	Supply & fix 200mm Brass slide pattern flush bolt with brass shoot (straight or neck)	no	13.60
CP.615	Supply & fix 75mm aluminium slide pattern flush bolt	no	9.90
CP.616	Supply & fix 100mm aluminium slide pattern flush bolt	no	12.50
CP.617	Supply & fix 150mm aluminium slide pattern flush bolt	no	20.50
CP.618	Supply & fix 200mm aluminium slide pattern flush bolt	no	24.90
CP.619	Supply & fix 100mm Stainless steel slide pattern flush bolt	no	10.20
CP.620	Supply & fix 150mm Stainless steel slide pattern flush bolt	no	10.50
CP.621	Supply & fix 200mm Stainless steel slide pattern flush bolt	no	13.90
CP.622	Supply & fix 250mm Stainless steel slide pattern flush bolt	no	14.30
CP.623	Supply & fix 300mm Stainless steel slide pattern flush bolt	no	15.40
CP.624	Supply & fix 450mm Stainless steel slide pattern flush bolt	no	17.60
CP.625	Supply & fix 600mm Stainless steel slide pattern flush bolt	no	28.60
CP.626	Supply and fix extra strong 150mm Japanned padlock bolt eyelets & security fastened with nuts & with 16mm diameter polished shoot (excluding padlock)	no	4.00
CP.627	Supply and fix extra strong 200mm Japanned padlock bolt eyelets & security fastened with nuts & with 16mm diameter polished shoot (excluding padlock)	no	5.50
CP.628	Supply and fix extra strong 300mm Japanned padlock bolt eyelets & security fastened with nuts & with 16mm diameter polished shoot (excluding padlock)	no	6.60
CP.629	Supply and fix extra strong 450mm Japanned padlock bolt eyelets & security fastened with nuts & with 16mm diameter polished shoot (excluding padlock)	no	8.60
CP.630	Take out existing panic bolt, remove off site and making good work disturbed.	no	4.80

S/No	Description	Unit	Unit Cost (\$)
CP.631	Fix only panic bolt.	no	24.20
CP.632	Supply only 'Union' panic bolt for single door, sliver enamel (No 80121 SE)	set	122.10
CP.633	Supply only 'Union' panic bolt for double rebated door (No 80131SE)	set	175.50
CP.634	Supply and fix purposed-made mild steel drop bolt 19mm diameter x 406mm long complete with tubular guides welded on to gate to fit into and including 25mm x 152mm long socket set in and including concrete (Grade 15) base 152mm x 152mm x 228mm deep including all necessary excavation and disposal of excavated materials.	no	18.20
CP.635	Supply and fix purpose-made mild steel shoot bolt consisting of 19mm diameter mild steel bar 190mm long with tubular guides welded on to gate complete with 3mm thick mild steel slotted handle welded on to gate including drilling gate members as necessary.	no	16.90
CP.636	Supply only door selector	no	35.20
CP.637	Install and adjust door selector(door selector supplied)	no	5.50
CP.638	Remove door selector off site and make good surface	no	2.80
CP.639	Supply and fix Showa 1100P stainless steel indicating bolts.	no	24.30
CP.640	Supply and fix 75mm chromium plated indicating bolt to toilets door.	no	13.20
CP.641	Supply and fix 100mm chromium plated indicating bolt to toilets door.	no	15.20
CP.642	Supply and fix Union 8094 indicating bolt to public toilet door with English wordings ENGAGED and VACANT	no	22.00
CP.643	Supply and fix Delta 6000 indicating bolt in replacement.	no	11.10
CP.644	Supply and fix M & B stainless steel indicating bolt for toilet cubicle	no	37.40
CP.645	Supply and fix "Besco" privacy thumbturn bolt for toilet cubicle door	no	18.70
CP.646	Supply and fix DYNAFLEX DF13 series Nylon lockset for toilet cubicle.	no	19.80
CP.647	Supply and fix DYNAFLEX DF13 series Nylon door knob for toilet cubicle.	no	15.40
CP.648	Supply and fix DYNAFLEX DF13 series Nylon cock hook for toilet cubicle.	no	7.70
CP.649	Supply and fix DYNAFLEX DF13 series Nylon hinges (Auto) for toilet cubicle.	no	22.00
CP.650	Supply and fix DYNAFLEX DF13 series Nylon hinges (Free) for toilet cubicle.	no	18.70
CP.651	Take out existing casement stay, cart away and make good work disturbed	no	0.80
CP.652	Fix only casement stay (stay provided separately)	no	2.60
CP.653	Supply and fix 200mm Art black malleable iron casement stay	no	3.60
CP.654	Supply and fix 250mm Art black malleable iron casement stay	no	4.80
CP.655	Supply and fix 300mm Art black malleable iron casement stay	no	5.80
CP.656	Supply and fix 250mm Art black galvanised steel casement stay	no	6.80
CP.657	Supply and fix 300mm Art black galvanised steel casement stay	no	8.70
CP.658	Supply and fix 200mm Art black brass casement stay	no	10.10
CP.659	Supply and fix 250mm Art black brass casement stay	no	12.50
CP.660	Supply and fix 300mm Art black brass casement stay	no	13.10
CP.661	Supply and fix 250mm Art black anodised silver casement stay	no	16.00
CP.662	Supply and fix 300mm Art black anodised silver casement stay	no	17.60
CP.663	Supply and fix Art black malleable iron heavy casement fastener with hook plate or mortice plate	no	5.60
CP.664	Supply and fix Aluminium sliding window semi-circular catch with or without lock	no	5.00
CP.665	Supply and fix Brass sliding window semi-circular catch with or without lock	no	11.90
CP.666	Supply and fix Satin chrome sliding window semi-circular catch with or without lock	no	13.40
CP.667	Supply and fix Anodised sliver sliding window semi-circular catch with or without lock	no	15.60
CP.668	Supply only stainless steel bolt for sliding window.	no	19.80
CP.669	Take out existing casement stay or casement fastener, cart away and make good work disturbed.	no	0.80

S/No	Description	Unit	Unit Cost (\$)
CP.670	Fix only casement fastener (Fastener provided)	no	2.60
CP.671	Supply and fix 300mm long galvanised steel 'whitco' jumbo or other equal and approved combination of casement hinge and stay for heavy casement	set	14.40
CP.672	Supply and fix 500mm long galvanised steel 'whitco' jumbo or other equal and approved combination of casement hinge and stay for heavy casement	set	25.00
CP.673	Supply and fix 300mm long brass 'whitco' jumbo or other equal and approved combination of casement hinge and stay for heavy casement	set	41.50
CP.674	Supply and fix 400mm long brass 'whitco' jumbo or other equal and approved combination of casement hinge and stay for heavy casement	set	52.30
CP.675	Fix only rim lock latch, deadlock or night latch etc complete with handle or knob, if any (lock or latch provided)	no	9.20
CP.676	Fix only rebate type rim lock latch, deadlock or night latch etc complete with handle or knob, if any (lock or latch provided)	no	10.60
CP.677	Fix only mortice lock or latch complete with handle or knob, if any (lock or latch provided)	no	11.20
CP.678	Fix only rebate type mortice lock or latch complete with handle or knob, if any (lock or latch provided)	no	12.50
CP.679	Fix only cupboard or drawer lock (lock provided)	no	5.50
CP.680	Take out existing lock (any type and size) including furniture, cart away and make good work disturbed.	no	4.40
CP.681	Take out existing latch (any type and size) including furniture, cart away and make good work disturbed.	no	2.60
CP.682	Take out existing lock (any type and size) but clean, oil and refix	no	14.50
CP.683	Take out existing latch (any type and size) but clean, oil and refix	no	7.70
CP.684	Open up lock, recondition and refix it	no	24.20
CP.685	Fix only roller shutter lock (any type and any size)	no	7.70
CP.686	Supply only two levers, mortice sash lock with enamelled black case and chromium plated forend, striking plate and lever handle (Union No 2295) including two keys	no	18.20
CP.687	Supply only two levers, rebated mortice sash lock with enamelled black case and chromium plated forend, striking plate and lever handle (Union No 2242) including two keys	no	31.90
CP.688	Supply only three levers, mortice sash lock with enamelled silver case and satin finish forend striking plate and lever handles (Union No 2277) including two keys	no	33.00
CP.689	Supply only three levers, rebated mortice sash lock with enamelled silver case and satin finish forend striking plate and lever handles (Union No 2279) including two keys	no	57.80
CP.690	Supply only single or double cylinder mortice sash lock with enamelled silver case and satin finish forend, striking plate and lever handles (Union No 2241 or 22241) including two keys	no	66.00
CP.691	Supply only single or double cylinder rebated mortice sash lock with enamelled silver case and satin finish forend, striking plate and lever handles (Union No 2245 or 22245) including two keys	no	86.40
CP.692	Supply only single or double cylinder mortice lockset with anodised aluminium lever handle furniture, concealed fixing (Union Raven Suite No 643-46-41AS or 643-46-241AS) including two keys	no	69.60
CP.693	Supply only single or double cylinder rebated mortice lock set with anodised aluminium lever handle furniture, concealed fixing (Union Raven Suite No 643-46-45AS or 643-43-245AS) including two keys	no	86.40
CP.694	Supply only UNION single cylinder lock calibrated to suit master key system	no	46.20

S/No	Description	Unit	Unit Cost (\$)
CP.695	Supply only mortice locket (Yale 7011-S20-40) including two keys	no	42.40
CP.696	Supply only rebated mortice lockset (Yale 7011-S20-40) including two keys	no	54.50
CP.697	Supply only mortice lock complete with handles (Showa Model CL-05-3000) including two keys	no	76.20
CP.698	Supply only integral mortice c/w key and thumb turn (Showa IS-05-DA-US32D-90mm) including two keys	no	52.80
CP.699	Supply only mortice lockset c/w aluminium lever handle and outside key only (Showa CL-35- 3000-US32D) including two keys	no	64.90
CP.700	Supply only mortice lockset c/w aluminium lever handle (Showa CL-U15-3000-US32D) including two keys	no	64.90
CP.701	Supply only mortice lockset c/w single cylinder and thumb turn (Union 2241SC/2.50/3K) including two keys	no	60.00
CP.702	Supply only mortice lockset c/w key and thumb turn (Goal PS5S-12/70mm polished stainless steel) including two keys	no	169.40
CP.703	Supply only mortice lockset c/w key and aluminium level handle (Lockwood, 572-512 SC) (Right hand Reversible Plainlatch) including two keys	no	176.00
CP.704	Supply only Union Cameo series complete with knob set including two keys	no	50.80
CP.705	Supply only Showa model Ss-G25 lockset including two keys	no	49.00
CP.706	Supply only Union 626-46-3 cylinder handle including two keys	no	23.70
CP.707	Supply only Yale Euro profile 214A. 66 (i.e. 66mm long) one side thumbturn-one side key way or both sides key way cylinder.	no	22.00
CP.708	Supply only Yale Euro profile 210.62 (i.e. 62mm long) one side thumbturn-one side key way or both sides key way cylinder (any colour).	no	22.00
CP.709	Supply only Yale Euro profile 23030 (74mm long) double cylinder ( any colour)	no	40.70
CP.710	Supply only Yale Euro profile 33030 (74mm long), one side thumbturn and one side key way cylinder (any colour)	no	40.70
CP.711	Supply only Yale Euro profile 212.40 (40 mm long) single cylinder (any colour)	no	22.00
CP.712	Supply only rim deadlock with black enamelled case, and staple and knob handles (Union No 1116) including two keys	no	20.90
CP.713	Supply only three levers rim deadlock with black enamelled case, and staple and knob handles(Union No 1439) including two keys	no	40.70
CP.714	Supply only two levers rim deadlock with black enamelled case, and staple and knob handles (Union No 1445) including two keys	no	23.70
CP.715	Supply only single or double cylinder mortice deadlock complete with handles (Union No 2141 or 21241) including two keys	no	53.80
CP.716	Supply only single or double cylinder rebated with mortice deadlock complete with handles (Union No 2145 or 21245) including two keys	no	77.00
CP.717	Supply only double cylinder, mortice deadlock for aluminium door (Union 21253) including two keys	no	62.70
CP.718	Supply only single or double mortice deadlock complete with handles (Showa No 393) including two keys	no	25.30
CP.719	Supply only single or double cylinder mortice deadlock (Showa 397-35-R-25-MK-36W) including two keys	no	45.80
CP.720	Supply only both side keyway entrance knobset (Showa SS-G26-UA-US32D-70mm) including two keys	no	47.30
CP.721	Supply only both side keyway (Showa 397-26-US32D-50mm deadlock) including two keys	no	46.20
CP.722	Supply only double cylinder, mortice deadlock for aluminium door (Union No 21253) including two keys	no	62.70

S/No	Description	Unit	Unit Cost (\$)
CP.723	Supply only single or double mortice deadlock complete with handles (Showa No 393) including two keys	no	25.30
CP.724	Supply only single or double cylinder mortice deadlock(Showa 397-35-R-25-MK- 36W) including two keys	no	45.80
CP.725	Supply only both side keyway entrance knobset(Showa SS-G26-UA-US32D-70 mm) including two keys	no	47.30
CP.726	Supply only both side keyway (Showa 397-26-US32D-50 mm deadlock) including two keys	no	46.20
CP.727	Supply only single or double cylinder mortice deadlock c/w handles and two sets of keys (Goal ADP 511 or equivalent)	no	55.00
CP.728	Take out the existing cylinder of a mortice lockset and replace with new (new mortice lockset provided)	no	4.40
CP.729	Supply only mortice plain latch set complete with handles (Union Raven Series 643-94-48AS) including two keys	no	27.00
CP.730	Supply only standard pattern cylinder rim night latch, enamelled silver case and staple and brass knob (Union No 1022) including two keys	no	35.40
CP.731	Supply only single or double cylinder mortice night latch (Union No 23332/23232) including two keys	no	65.80
CP.732	Supply only Anodised aluminium tubular lock sets for internal doors, inside turnbutton outside emergency cylinder and complete with handles (Viro No 69014) including two keys	no	52.80
CP.733	Take out door chain latch	no	1.70
CP.734	Brass doorchain latch (Supply and install)	no	5.50
CP.735	Supply only Showa SS-U65-Ua-US32D-70 mm knobset c/w emergency slot and push button	no	30.80
CP.736	Supply only 150 mm black japanned locking bar	no	5.00
CP.737	Supply only 200 mm black japanned locking bar	no	5.50
CP.738	Supply only 250 mm black japanned locking bar	no	6.30
CP.739	Supply only 300 mm black japanned locking bar	no	7.70
CP.740	Supply only 350 mm black japanned locking bar	no	8.90
CP.741	Supply only 450 mm black japanned locking bar	no	10.20
CP.742	Supply only 13 mm diameter x 200 mm long locking bar for meter room including bolts and nuts and removing existing damaged one	no	7.50
CP.743	Supply only 360 mm long purpose made mild steel locking bar of 25 mm mild steel rod welded to 75 x 100 x 5 mm thick flat handle with slot including all necessary hooks and shoots	no	6.90
CP.744	Supply only 460 mm long purpose made mild steel locking bar of 25 mm mild steel rod welded to 75 x 100 x 5 mm thick flat handle with slot including all necessary hooks and shoots	no	8.10
CP.745	Supply only 600 mm long purpose made mild steel locking bar of 25 mm mild steel rod welded to 75 x 100 x 5 mm thick flat handle with slot including all necessary hooks and shoots	no	9.10
CP.746	Supply only 750 mm long purpose made mild steel locking bar of 25 mm mild steel rod welded to 75 x 100 x 5 mm thick flat handle with slot including all necessary hooks and shoots	no	10.90
CP.747	Supply only mortice bathroom lock with enamelled black case, chromium plated forend, striking plate and handles (Union No. 2294) including two keys	no	20.90
CP.748	Supply only spring loaded sliding glass door lock including two keys	no	5.50
CP.749	Supply only drawer lock (Union 4046) including two keys	no	16.00
CP.750	Supply only cupboard/drawer lock (Union 4137) including two keys	no	21.00
CP.751	Supply only cupboard lock (Union 4138 or 4148) including two keys	no	16.70

S/No	Description	Unit	Unit Cost (\$)
CP.752	Supply only cupboard lock (Union 4146) including two keys	no	16.00
CP.753	Supply only cupboard lock (Union 4147) including two keys	no	25.00
CP.754	Supply only sliding cupboard lock (Union 4346) including two keys	no	31.90
CP.755	Supply only cupboard lock (Viro 1055) including two keys	no	9.10
CP.756	Supply only cupboard/drawer lock (Viro No 69032 or 69033) or equivalent including two keys	no	11.60
CP.757	Supply and install cupboard/drawer lock (Globe or Diamond)	no	2.80
CP.758	Supply and install cupboard lock (Ocean Camlock)	no	5.50
CP.759	Supply and install metal cabinet lockset (AIKO, GODREJ, etc.) c/w locking rods, including take out existing lockset (any type), prepare to receive new lockset.	set	44.00
CP.760	Supply and install double cylinder mortice sliding door lock for aluminium door (Union No 24253)	no	59.60
CP.761	Take out existing cupboard/drawer lock and remove off site	no	1.10
CP.762	Take out existing cupboard/drawer lock but repair and refix	no	2.20
CP.763	Supply and fix zinc till cupboard lock (deck drawer)	no	14.10
CP.764	Supply only double cylinder mortice sliding door lock for aluminium door (Union No 24253)	no	59.60
CP.765	Supply only single cylinder sliding door lock (Union No 2441)	no	53.90
CP.766	Supply only rebated single cylinder sliding door lock (Union No 2445)	no	72.60
CP.767	Supply only single cylinder sliding door lock (Showa No 376-05-50)	no	61.30
CP.768	Supply only single cylinder sliding door lock (Showa No 376-05-MK-40W)	no	65.30
CP.769	Supply only single cylinder sliding door lock complete with aluminium lever handle (Showa No CL-05-3002)	no	68.20
CP.770	Supply only double cylinder sliding door lock (Showa 376-26-50)	no	64.70
CP.771	Supply only double cylinder sliding door lock complete with stainless steel lever handle (Showa CL-26-2510)	no	86.70
CP.772	Supply hydraulic cylinder for refuse chute	no	99.60
CP.773	Supply only sliding glass door lock (YKK YB 3K-6311B)	no	33.00
CP.774	Supply only sliding glass door lock (Reliance J-6)	no	28.60
CP.775	Supply only flush lock (Alpha 5A11)	no	27.50
CP.776	Supply only Aluminium sliding grille gate lock (DLC or equivalent)	no	13.20
CP.777	Supply only roller shutter lock (Viro 8202/8203)	no	30.00
CP.778	Supply and install Viro central lockset	no	49.50
CP.779	Supply and install Viro left and right lockset	pair	36.30
CP.780	Supply only 'CHUBB' Battleship Padlock IK 11 with 3 keys	no	132.00
CP.781	Supply only 'CHUBB' Cruiser Padlock IK 21 with 2 keys	no	88.00
CP.782	Supply only 'CHUBB' AVA Padlock IK 42 complete with keys	no	62.70
CP.783	Supply only 38 mm padlock (Union No 3102)	no	14.30
CP.784	Supply only 50 mm padlock (Union No 3102)	no	19.80
CP.785	Supply only 63 mm padlock (Union No 3102)	no	25.90
CP.786	Supply only 30 mm marine padlock (Viro 69060)	no	15.40
CP.787	Supply only 40 mm marine padlock shackle 20 mm (Viro 69061)	no	18.70
CP.788	Supply only 40 mm marine padlock shackle 40 mm (Viro 69062)	no	20.90
CP.789	Supply only 50 mm marine padlock (Viro 69063)	no	25.30
CP.790	Supply only 31 mm padlock (Abloy 3015)	no	15.80
CP.791	Supply and install Kaba 4828.000.13 night latch (72mm) In SSS c/w SP with 60mm backset (Left/Right)	set	135.00
CP.792	Supply and install Kaba 4641 passage lock (72mm) In SSS c/w SP with 60mm backset (Left/Right)	set	135.00
CP.793	Supply and install Kaba 4626 security deadlock (72mm) In SSS c/w SP with 60mm backset (Left/Right)	set	135.00

S/No	Description	Unit	Unit Cost (\$)
CP.794	Supply and install 8503 - D-Serels KS863 Lever Handle In SSS, c/w 8mm rose and bolt through screws (Left/Right)	set	80.00
CP.795	Supply and install Kaba (Gemini 'S') Single cylinder 35mm in Euro profile standard nickel plating finish with 3 keys	set	90.00
CP.796	Supply and install Kaba (Gemini 'S') Double cylinder 35/35mm In Euro profile standard nickel plating finish with 3 keys	set	100.00
CP.797	Supply and install Kaba (Gemini 'S') Thumbturn cylinder 35/35mm In Euro profile standard nickel plating finish with 3 keys	set	110.00
CP.798	Supply and install Kaba (Gemini 'S') 1112 Roller Shutter cylinder In standard nickel plating finish c/w 2 keys	set	90.00
CP.799	Kaba (Gemini 'S') Key Duplication	no	25.00
CP.800	Kaba (Gemini 'S') Eloglegic Key Duplication	set	50.00
CP.801	Supply and install Kaba (Gemini 'S') 2010C padlock with 2 keys	set	130.00
CP.802	Supply and install Kaba B113 Roller Shutter Lockcose (Left/Right)	set	75.00
CP.803	Supply and install Glutz 4828 nightlatch (72mm) in SSS c/w SP with 60mm backset (Right or Left)	set	80.00
CP.804	Supply and install Glutz 4829 sashlock (72mm) in SSS c/w SP with 60mm backset (Right or Left)	set	80.00
CP.805	Supply and install Glutz 4641 passage lock (72mm) in SSS c/w SP with 60mm backset (Right or Left)	set	75.00
CP.806	Supply and install Glutz 4826 security deadlock (72mm) in SSS c/w SP with 60mm backset (Right or Left)	set	75.00
CP.807	Supply and install Glutz 4872 heavy duty roller latch (72mm) in SSS c/w SP with 60mm backset (Right or Left)	set	80.00
CP.808	Supply and install Glutz 4000 series Rebated kit in aluminium rectangular	no	10.00
CP.809	Supply and install Glutz Escutcheons (Euro Profile)	pair	10.00
CP.810	Supply and install Glutz 4821 Sashlock 72mm) in SSS c/w SP with 60mm backset (Right or Left)	set	80.00
CP.811	Supply only 47 mm padlock (Abloy 3041)	no	27.60
CP.812	Supply only 56 mm padlock (Abloy 3085)	no	64.00
CP.813	Supply only 70 mm padlock (Abloy 3065)	no	76.20
CP.814	Supply and install approved Keylex 700 series, model 22703AS mechanical lock, including take out existing lockset (any type), prepare to receive new mechanical lock.	no	440.00
CP.815	Supply and install approved Keylex 1000 series, model 22523M mechanical lock c/w key bypass including take out existing lockset (any type), prepare to receive new mechanical lock.	no	836.00
CP.816	Supply and install approved Keylex 1100 series, model 22623M mechanical lock, including take out existing lockset (any type), prepare to receive new mechanical lock.	no	1045.00
CP.817	Supply and install approved Keylex 2100 series, model 22403M mechanical lock, including take out existing lockset (any type), prepare to receive new mechanical lock.	no	1265.00
CP.818	Supply and install "Digital" or equal and approved mechanical lock, including take out existing lockset (any type), prepare to receive new mechanical lock. Supply and fix "Digital" or other approved and equivalent pushbutton door lock.	no no	330.00 242.00
CP.819	Supply only 25mm padlock (Tricycle)	no	2.80
CP.820	Take out door closer or bracket, cart away or stack aside and make good work disturbed	no	2.20
CP.821	Fix only door closer or bracket to door and frame (door closer provided)	no	7.70

S/No	Description	Unit	Unit Cost (\$)
CP.822	Fix only concealed type door closer or bracket to door and frame (door closer provided)	no	12.10
CP.823	Supply only enamel door closer (Ryobi 61)	no	33.00
CP.824	Supply only 47 mm padlock (Abloy 3041)	no	27.60
CP.825	Supply only 56 mm padlock (Abloy 3085)	no	64.00
CP.826	Supply only 70 mm padlock (Abloy 3065)	no	76.20
CP.827	Take out existing door closer, service, adjust and refix in position	no	3.90
CP.828	Supply only door closer (Yale 2003)	no	45.10
CP.829	Supply only door closer, silver anodised finish (Union No 8850AS)	no	111.10
CP.830	Supply only door closer with hold open arm (Union 88502AS)	no	123.20
CP.831	Supply only door closer with hold open arm for door opening out (Union No 8835AS)	no	111.10
CP.832	Supply only door closer of (Briton 2000 series)	no	96.80
CP.833	Supply only door closer of (Briton 2005 series)	no	190.30
CP.834	Supply only door closer (Delta 80 series)	no	38.20
CP.835	Supply only door closer (Delta 60 series)	no	127.10
CP.836	Supply and replace Dorma TS83 Hold Open type Door closer	set	300.00
CP.837	Supply and replace Dorma TS73VF Door closer	no	190.00
CP.838	Supply and replace Dorma TS73VF hold open type Door closer	no	230.00
CP.839	Supply and replace Dorma TS73VF slide arm and channel Door closer	no	270.00
CP.840	Supply and replace Dorma TS83 Door closer	no	230.00
CP.841	Supply and replace Dorma TS83 slide arm and channel Door closer	no	350.00
CP.842	Supply only parallel arm bracket	no	9.40
CP.843	Supply only door closer with open arm (NHN 183)	no	66.00
CP.844	Supply only door closer with open arm (NHN 182)	no	60.50
CP.845	Supply only door closer (NHN 84)	no	84.70
CP.846	Supply only door closer (NHN 82)	no	52.80
CP.847	Supply only door closer (NHN 1083) with slide arm and channel type	no	88.00
CP.848	Minor repairs including adjusting, refixing and resecuring excluding replacement of parts/ironmongery	no	6.40
CP.849	Minor repairs including adjusting, refixing and rescuring and replacement of short lengths eg rotten wood, plywood lining, veneer or laminated plastic finish, painting excluding upholstering	no	17.60
CP.850	Repairs only to drawer including replacing veneer or laminated plastic front, replacing lock, handle steel drawer track, painting and recamping as required	no	17.60
CP.851	Supply and fix round bakelite roses and steel spindle,knobs 44 mm diameter for rim and mortice locks and latches	no	4.80
CP.852	Supply and fix round bakelite roses and steel spindle,knobs 50 mm diameter for rim and mortice locks and latches	no	5.50
CP.853	Supply and fix round bakelite roses and steel spindle,knobs 44 mm diameter case pressed brass or steel brass or bronze finish for rim and mortice locks and latches	no	9.70
CP.854	Supply and fix door knob ER1 (English Rose Collection)	no	176.00
CP.855	Supply and fix door knob ER2 (English Rose Collection)	no	163.90
CP.856	Supply and fix 'BESCO' black door knob for toilet cubicle door	no	14.90
CP.857	Supply and fix chromium plated aluminium alloy, brass or bronze lever handles	no	26.40
CP.858	Supply and fix chrome plated brass or bronze drawer or cupboard dead knob 25 mm diameter	no	4.80
CP.859	Supply and fix chrome plated brass or bronze drawer or cupboard dead knob 38 mm diameter	no	6.10



S/No	Description	Unit	Unit Cost (\$)
CP.860	Supply and fix chrome plated brass or bronze drawer or cupboard dead knob 50 mm diameter	no	7.30
CP.861	Supply and fix plastic cupboard or drawer knob, 40 mm diameter	no	4.80
CP.862	Supply and fix 'U' plastic drawer handle	no	6.10
CP.863	Supply and fix nylon bow handles without plate 100 mm long or 'U' shaped door handles	no	1.70
CP.864	Supply and fix aluminium bow handles without plate 100 mm long or 'U' shaped door handles	no	2.20
CP.865	Supply and fix brass bow handles without plate 100 mm long or 'U' shaped door handles	no	11.70
CP.866	Supply and fix chromium plated bow handles without plate 100 mm long or 'U' shaped door handles	no	6.20
CP.867	Supply and fix aluminium bow handles without plate 150 mm long or 'U' shaped door handles	no	7.90
CP.868	Supply and fix brass bow handles without plate 150 mm long or 'U' shaped door handles	no	12.50
CP.869	Supply and fix chromium plated bow handles without plate 150 mm long or 'U' shaped door handles	no	7.30
CP.870	Supply and fix aluminium bow handles without plate 200 mm long or 'U' shaped door handles	no	9.50
CP.871	Supply and fix brass bow handles without plate 200 mm long or 'U' shaped door handles	no	24.50
CP.872	Supply and fix chromium plated bow handles without plate 200 mm long or 'U' shaped door handles	no	7.70
CP.873	Supply and fix aluminium drawer pull 100 mm long	no	3.20
CP.874	Supply and fix brass drawer pull 100 mm long	no	4.00
CP.875	Supply and fix chromium plated drawer pull 100 mm long	no	5.30
CP.876	Supply and fix aluminium flush pull (fitment)	no	4.50
CP.877	Supply and fix brass flush pull (fitment)	no	4.40
CP.878	Supply and fix chromium plated flush pull (fitment)	no	5.30
CP.879	Supply and fix aluminium flush pull (entrance door)	no	7.30
CP.880	Supply and fix aluminium 100 mm angle handle to drawers	no	6.10
CP.881	Supply and fix 300 mm Stainless steel flush pull	no	16.50
CP.882	Supply & install 25mm diameter, 300mm long stainless steel glass door handles (per set of two), including take out existing handles.	set	165.00
CP.883	Supply 32mm dia stainless steel flush pull handle (any shape) of length 600mm	pair	88.00
CP.884	Supply and fix 100 mm Black japanned bow handle	no	1.70
CP.885	Supply and fix 150 mm Black japanned bow handle	no	2.10
CP.886	Supply and fix 100 mm Brass bow handle	no	3.40
CP.887	Supply and fix 150 mm Brass bow handle	no	5.50
CP.888	Supply and fix anodised aluminium lever handle	no	6.40
CP.889	Supply and fix Union 5562 306 mm extrude aluminium door handle	no	33.00
CP.890	Supply and fix 1000 m Aluminium pivot window handle	no	5.50
CP.891	Supply and fix 200 x 115 mm extruded aluminium door pull/handle	no	7.70
CP.892	Supply and fix rubber door stop not exceeding 40 mm diameter and fixing to wood, concrete or brickwork	no	2.20
CP.893	Supply and fix rubber door stop exceeding 40 mm diameter and fixing to wood, concrete or brickwork	no	3.30
CP.894	Supply and fix Stainless steel door stop fixed to floor or wall	no	14.30
CP.895	Supply and fix Brass floor spring stopper fixed to floor or wall	no	28.60
CP.896	Supply and fix Baked enamel magnetic catch fixed to wall	no	6.60

S/No	Description	Unit	Unit Cost (\$)
CP.897	Supply and fix Brass door stopper with rubber buffer	no	9.60
CP.898	Supply and fix Steel door stopper with rubber buffer	no	8.00
CP.899	Fix only stopper (any type) to wall/floor/door	no	2.00
CP.900	Supply and fix approved plastic or steel ball catch or magnetic catch for fitment	no	5.50
CP.901	Supply and fix approved steel ball catch or magnetic catch for fitment	no	4.40
CP.902	Supply and fix Black japanned door chain and slot catch	no	3.30
CP.903	Supply and fix Ball catch	no	1.00
CP.904	Supply and fix cupboard catch	no	1.80
CP.905	Supply and fix wall type door catch complete with spring clip adjustable by turning, fixing screws hot pressed in stainless steel chromium plated finish	no	20.90
CP.906	Supply and fix 75 mm x 300 mm x 1.5 mm anodised aluminium push plate	no	7.40
CP.907	Supply and fix 100 mm x 300 mm x 1.5 mm anodised aluminium push plate	no	9.20
CP.908	Supply and fix 200 mm x 200 mm x 1.5 mm anodised aluminium push plate	no	9.50
CP.909	Supply and fix 200 mm x 300 mm x 1.5 mm anodised aluminium push plate	no	20.40
CP.910	Supply and fix 200 mm x 900 mm x 1.5 mm anodised aluminium push plate	no	49.50
CP.911	Supply and fix 200 mm x 300 mm x 1.5 mm anodised aluminium kicking plate	no	20.40
CP.912	Supply and fix 230 mm x 900 mm x 1.5 mm anodised aluminium kicking plate	no	49.50
CP.913	Supply and fix any size but 2mm thick anodised (18 micron) aluminium plated on both surfaces	sq m	66.00
CP.914	Take out damaged sliding tracks, cart away and make good work disturbed (size of opening measured)	m	0.30
CP.915	Take out loose sliding track and refix (size of opening measured)	m	0.80
CP.916	Brass or Aluminium cupboard or cabinet sliding top and bottom tracks (size of opening measured)	m	14.30
CP.917	Nylon cupboard or cabinet sliding top and bottom tracks (size of opening measured)	m	12.10
CP.918	Plastic drawer track	no	6.10
CP.919	PVC coated metal drawer track complete with roller	no	6.60
CP.920	Supply and fix Henderson or other equal and approved sliding and folding door gear complete with track, channel brackets, hanger, guides and accessories including fixing to timber door. (Any width and height of door)(Rate per metre of door opening)	m	358.30
CP.921	Take out sliding door gear complete, remove of site and make good work disturbed	set	19.80
CP.922	Take out parts of sliding door gear as necessary, adjust, refix, oil and bring to working good, taking down and rehang door as necessary (per door opening)	no	93.50
CP.923	Supply and fix sliding door gear complete with tracks, channel brackets, hanger, guides and accessories	no	218.80
CP.924	Supply 'Henderson' 21 K hanger	no	41.80
CP.925	Supply 'Henderson' 106R/94 guide	no	5.20
CP.926	Supply & fix 75mm common wire cabin hooks & eyes	no	1.40
CP.927	Supply & fix 150mm common wire cabin hooks & eyes	no	1.40
CP.928	Supply & fix 225mm common wire cabin hooks & eyes	no	2.10
CP.929	Supply & fix 300mm common wire cabin hooks & eyes	no	2.60
CP.930	Supply & fix 75mm Japanned malleable iron 'very strong' pattern cabin hooks & eyes	no	2.20
CP.931	Supply & fix 150mm Japanned malleable iron 'very strong' pattern cabin hooks & eyes	no	2.90

S/No	Description	Unit	Unit Cost (\$)
CP.932	Supply & fix 225mm Japanned malleable iron 'very strong' pattern cabin hooks & eyes	no	4.40
CP.933	Supply & fix 300mm Japanned malleable iron 'very strong' pattern cabin hooks & eyes	no	6.30
CP.934	Supply & fix 375mm Japanned malleable iron 'very strong' pattern cabin hooks & eyes	no	8.50
CP.935	Supply & fix 450mm Japanned malleable iron 'very strong' pattern cabin hooks & eyes	no	10.70
CP.936	Supply & fix 75mm brass cabin hooks & eyes	no	4.50
CP.937	Supply & fix 150mm brass cabin hooks & eyes	no	7.00
CP.938	Supply & fix 200mm brass cabin hooks & eyes	no	10.50
CP.939	Supply & fix 250mm brass cabin hooks & eyes	no	13.10
CP.940	Supply & fix 300mm brass cabin hooks & eyes	no	17.30
CP.941	Supply & fix 75 mm Japanned steel wire loop, hinged to plate with hasp and staple or plate	no	2.40
CP.942	Supply & fix 100mm Japanned steel wire loop, hinged to plate with hasp and staple or plate	no	2.50
CP.943	Supply & fix 125mm Japanned steel wire loop, hinged to plate with hasp and staple or plate	no	2.90
CP.944	Supply & fix 150mm Japanned steel wire loop, hinged to plate with hasp and staple or plate	no	3.70
CP.945	Supply & fix 200mm Japanned steel wire loop, hinged to plate with hasp and staple or plate	no	3.90
CP.946	Supply & fix 75 mm Japanned flat bar 38 x 3 mm with hinged joint hasps and staples	no	2.50
CP.947	Supply & fix 100mm Japanned flat bar 38 x 3 mm with hinged joint hasps and staples	no	2.90
CP.948	Supply & fix 125mm Japanned flat bar 38 x 3 mm with hinged joint hasps and staples	no	3.10
CP.949	Supply & fix 150mm Japanned flat bar 38 x 3 mm with hinged joint hasps and staples	no	6.20
CP.950	Supply & fix 75 mm Brass flat bar 38 x 3 mm with hinged joint hasps and staples	no	13.40
CP.951	Supply & fix 100mm Brass flat bar 38 x 3 mm with hinged joint hasps and staples	no	16.20
CP.952	Supply & fix 125mm Brass flat bar 38 x 3 mm with hinged joint hasps and staples	no	21.20
CP.953	Supply and fix 135 x 65 mm Brass hasps and staples	no	30.80
CP.954	Supply and fix 200 x 75 x 3 mm Brass hasps and staples	no	28.60
CP.955	Supply and fix 125 x 65 x 6 mm Brass hasps and staples	no	29.70
CP.956	Supply and fix 135 x 65 x 6mm Brass hasps and staples	no	30.80
CP.957	Supply and fix 150 x 65 x 6 mm Brass hasps and staples	no	33.00
CP.958	Take off existing hook (any type) eye or hasp and staple, remove off site and make good work disturbed	no	0.70
CP.959	Fix only cabin hook and eye or hasp and staple/toilet roll holder	no	2.00
CP.960	Supply and fix 150 mm anodised aluminium coat hook with black inserts	no	4.00
CP.961	Supply and fix 150 mm black Japanned coat hooks	no	1.90
CP.962	Supply and fix 150 mm chromium plated brass coat hooks	no	4.70
CP.963	Supply and fix 150 mm Stainless steel coat hook	no	5.50
CP.964	Supply and fix 150 mm Stainless steel hat and coat hook with rubber buffer	no	6.40
CP.965	Supply and fix 50 mm Aluminium hat and coat hooks	no	2.30
CP.966	Supply and fix 100 mm Brass cabin hook and eye	no	2.30

S/No	Description	Unit	Unit Cost (\$)
CP.967	Supply and fix 150 mm Brass cabin hook and eye	no	2.50
CP.968	Supply and fix 200 mm Brass cabin hook and eye	no	2.80
CP.969	Supply and fix 100 mm Black japanned cabin hook and eye	no	2.20
CP.970	Supply and fix 150 mm Black japanned cabin hook and eye	no	2.20
CP.971	Supply and fix 200 mm Black japanned cabin hook and eye	no	2.30
CP.972	Supply and fix 250 mm Black japanned cabin hook and eye	no	2.40
CP.973	Supply and fix 300 mm Black japanned cabin hook and eye	no	2.60
CP.974	Supply and fix approved nylon brackets for adjustable shelves including drilling holes	no	0.30
CP.975	Supply and fix approved steel plug for adjustable shelves including drilling holes	no	0.60
CP.976	Supply and fix Black Japanned brackets for shelves, 225 mm x 225 mm including matching screws	no	3.60
CP.977	Supply and fix Black Japanned brackets for shelves, 300 mm x 300 mm including matching screws	no	7.30
CP.978	Approved aluminium letter slot 150 mm long and fixed to timber including making hole in doors, partition, etc	no	26.40
CP.979	Labour for pulling out existing nails, hooks, screws, etc from timber, and fill up holes with putty or other approved material and touch up with paint to match existing	no	1.10
CP.980	Labour filling up door lock holes, hinges rebates, etc with and including timber, sand papering and knotting surface, and painting to match existing	no	5.50
CP.981	Plugging to walls and soffits complete for wood fillets, ground, moulding etc for fixing picture rails, name or number plates	no	0.40
CP.982	Labour taking down and refixing cover fillets after renewal or frames of expanded metal doors and windows	m	0.60
CP.983	Labour taking down and removing decayed balusters, cover fillets, etc	m	0.30
CP.984	Supply and fix sawn Seriah timber of any size for rough barricading works	cu m	330.00
CP.985	Supply and fix BRC 228 (50 x 50 x 4 mm diameter) galvanised weldmesh panels to wood frames with and including fillets, dismantling damaged corroded mesh, removing debris and painting to approval	sq m	13.80
CP.986	Supply and fix temporary partition constructed of timber framings and 6 mm thick plywood on One side and removal after use	sq m	13.20
CP.987	Supply and fix 1.3 mm thick, cigarette proof laminated plastic veneer pressed onto timber surfaces, etc with adhesive compound	sq m	31.90
CP.988	Marley' or other equal and approved vinyl handrail of approved colour fixed to 50 mm x 10 mm mild steel flat cove rail (measured separately) including joining and forming bend, ends, etc	m	28.1
CP.989	25 mm x 3 mm thick galvanised wrought iron water bar bedded and jointed in white lead	m	1.70
CP.990	6 mm thick steel chain not exceeding 600 mm long to secure existing fire hose reel (padlock measured separately)	no	2.80
CP.991	Supply labour for replacing lock, hinges, casement stay, etc in metal casement, door, etc including taking out glass and refixing where necessary (Welding and cutting apparatus measured separately)	no	7.20
CP.992	Supply and fix 75 mm diameter swivel rubber castors	no	9.60
CP.993	Supply and fix 50 mm diameter swivel rubber castors	no	8.80
CP.994	Supply and fix polyurethane twin-wheel swivel castor wheel (any diameter)	no	3.30
CP.995	Supply and fix pneumatic 'chair height adjustment' gas cylinder (any approved type)	no	52.80
CP.996	Supply and fix 25 mm diameter, 600 mm long stainless steel grab bar	no	84.70

S/No	Description	Unit	Unit Cost (\$)
CP.997	20 mm x 20 mm x 5 mm x 1 mm thick nylon 'U' shaped channel or 'L' shaped fixed to and including adhesive to edge of fitment door	m	5.80
CP.998	35 mm x 15 mm x 5 mm x 1 mm thick nylon 'U' shaped channel fixed to and including adhesive to edge of drawer	m	8.40
CP.999	To fix existing loose door knobs/handles or new knobs/handles c/w new screws to match existing	no	2.20
CP.1000	Take out existing handles, knobs, etc to door fitments etc and remove off site	no	1.30
CP.1001	Supply and fix 30 mm diameter brass pulley	no	36.30
CP.1002	Supply and fix 20 mm diameter stainless steel bar including holders	no	6.60
CP.1003	Supply and fix 25 mm diameter stainless steel bar including holders	no	7.70
CP.1004	Refix round stainless steel bars or any material of any length	no	1.70
CP.1005	Remove door selector and make good surface	no	2.80
CP.1006	Supply and fix 20 mm aluminium hollow bar including holder	set	6.60
CP.1007	Supply and fix aluminium holder	pair	3.30
CP.1008	Calibrating 'Master or Key-alike System' single or double cylinder lock.	no	13.20
CP.1009	Duplicate keys for locksets	no	3.30
CP.1010	Duplicate keys for 'KABA' lockset	no	33.00
CP.1011	Duplicate keys for 'EWA DPI' security lockset 8181X series	no	19.80
CP.1012	Supply and fix straps on bed batten strip	no	7.70
CP.1013	Supply and fix glass holder (125 mm to 150 mm)	pair	6.60
CP.1014	Fix 'Master Key System' locks (labour only)	no	2.20
CP.1015	Supply and fix 25 mm right angle brass key hook	no	0.70
CP.1016	Supply and fix pop-rivet	no	1.70
CP.1017	Supply and form one key lock with missing keys including taking out lock if necessary and refix same	no	13.20
CP.1018	Labour only for opening door to gain access into premises where keys have been lost	no	9.90
CP.1019	Labour only for opening letter box lock (any type and size)	no	6.60
CP.1020	Labour only for opening locker lock (any type and size)	no	2.80
CP.1021	Supply and fix 25 mm diameter metal pulley to flag pole including taking down existing defective pulley and all necessary welding	no	5.10
CP.1022	Supply and fix approved venetian blind complete with all necessary accessories for size not exceeding 1sq m	sq m	36.30
CP.1023	Supply and fix approved venetian blind complete with all necessary accessories for size exceeding 1sq m and not exceeding 2.00sq m	sq m	35.20
CP.1024	Supply and fix approved venetian blind complete with all necessary accessories exceeding 2.00sq m	sq m	34.10
CP.1025	Take down existing venetian blinds including brackets and cut away off site	set	1.10
CP.1026	Take down existing venetian blinds, repair without replacing any accessories and refix	sq m	3.90
CP.1027	Take down existing venetian blinds, repair and refix including replacing the necessary cord lock, ladder cord, string, tilter rod etc (not more than three (3) components for each set)	set	13.20
CP.1028	Without taking down existing venetian blinds, repair and refix including replacing the necessary cord lock, ladder cord, string, tilter rod etc (not more than 1 component for each set)	set	2.80
CP.1029	Supply and installation of metal brackets or clips of any type to match existing venetian blinds, rawl plugged to concrete or brickwall	no	3.30
CP.1030	Supply and install plastic bracket/clip to match existing venetian blinds, plugged to concrete / brick wall	no	2.80
CP.1031	Rehang any set of venetian blinds	set	2.20

S/No	Description	Unit	Unit Cost (\$)
CP.1032	Supply and install Bamboo chicks of approved brand fixed complete with top and bottom members, PVC backing, brass cleats, pulleys, nylon cord, etc	sq m	71.50
CP.1033	Supply and install Bamboo chicks w/o PVC backing of approved brand fixed come with top and bottom members, brass cleats, pull nylon cord, etc.	sq m	66.00
CP.1034	Supply and fix unpainted and unlined split Bertam chicks properly and strongly constructed with ropes of No. 8 white glaze cord or nylon cord, 25 mm dia galvanised pulleys, puleys secured to galvanised screw hooks, size 18 mm x 100mm brass cleat or cup hooks are to be provided and securely fixed at the bottom of the chicks on the outside to prevent the chicks been blown out. Rate includes for all cutting and plugging to brickwork, concrete, etc required and for all making good of plaster, woodwork and decoration as necessary.	sq m	21.60
CP.1035	Add to above item CP881 for painting one side with one (1) coat of primer, one (1) undercoat and one (1) finishing coat of enamel paint	sq m	5.50
CP.1036	Add to above item CP881 for lining one side with first quality approved blue drill cloth or approved plastic cloth including properly binding the edges and allowing for all	sq m	5.50
CP.1037	Take down and cart away chicks and make good to work disturbed (any size)	no	3.20
CP.1038	Supply and fix plastic chicks of approved brand fixed complete with to and bottom members, brass cleats, pulleys, nylon, cord, etc	sq m	33.00
CP.1039	Take out as necessary, repair and fix the plastic chicks including replacing all the necessary accessories	sq m	13.20
CP.1040	Take down existing chicks, repair new ropes or nylon chord, pulleys, cleats, etc as necessary but excluding painting and lining	sq m	8.70
CP.1041	Take down existing chicks and refix only in new or same position as directed	sq m	5.20
CP.1042	Take down existing chicks and refix only in new or same position as directed including cleaning down one side of existing chicks, reconditioning, touching up with primer and applying one (1) coat of undercoat and finishing coat	sq m	11.00
CP.1043	Take down existing chicks and refix only in new or same position as directed including two (2) coats of painting and lining on the other side	sq m	17.20
CP.1044	Nylon rope 6 mmm diameter	m	1.10
CP.1045	Replace metal pulley for chicks (Taking down and refixing chick measured separately)	no	1.90
CP.1046	Supply and fix approved vertical blinds complete with all necessary accessories	sq m	49.50
CP.1047	Supply and fix the following components (vertical blind)(Rate shall be inclusive of taking out and disposing existing): Louvres	sq m	44.00
CP.1048	Supply and fix the following components (vertical blind)(Rate shall be inclusive of taking out and disposing existing): Head unit control ball chain	no	6.60
CP.1049	Supply and fix the following components (vertical blind)(Rate shall be inclusive of taking out and disposing existing): Carrier	no	3.10
CP.1050	Supply and fix the following components (vertical blind)(Rate shall be inclusive of taking out and disposing existing): Louvre hanger	no	0.60
CP.1051	Supply and fix the following components (vertical blind)(Rate shall be inclusive of taking out and disposing existing): Polyester ball chain with clip	m	4.40
CP.1052	Supply and fix the following components (vertical blind)(Rate shall be inclusive of taking out and disposing existing): Polyester ball chain Connector	m	0.80

S/No	Description	Unit	Unit Cost (\$)
CP.1053	Supply and fix the following components (vertical blind)(Rate shall be inclusive of taking out and disposing existing): Weight	no	3.30
CP.1054	Supply and fix the following components (vertical blind)(Rate shall be inclusive of taking out and disposing existing): Drawing cord	m	1.10
CP.1055	Check and service the vertical blinds (excluding change the components) necessary accessories	set	5.50
CP.1056	Supply and fix approved vertical blinds complete with all necessary accessories	sq m	66.00
CP.1057	Supply and fix approved roller blind c/w all necessary accessories	sq m	60.50
CP.1058	Take down existing roller blind including brackets and cut away off site.	set	5.50
CP.1059	Rehang any set of roller blind.	set	11.00
CP.1060	Supply and install 'ECO' sliding indicator latch ( Type 2 )	no	38.50
CP.1061	Supply & installation of wooden louveres at bottom of existing door	no	180.00
CP.1062	Supply and install 40-90mm SN thumbturn cylinder key differ, Accord 1405, GMK1/GMK2, MK01/MK02/MK03/MK04/MK05	no	40.00
CP.1063	Supply and install 40-90mm SN thumbturn cylinder with master key, Accord 1405, GMK1/GMK2., MK01/MK02/MK03/MK04/MK05	no	29.00
CP.1064	Supply and install 40-90mm SN thumbturn cylinder PUB MK 48, Accord 1405	no	28.00
CP.1065	Supply and install 40-90mm SN double cylinder under with master key Accord 1406,GMK1/GMK2, MK01/MK02/MK03/MK04/MK05	no	30.00
CP.1066	Supply and install Hooklock key thumbturn cylinder, Accord 4510, 4813/1403 Key alike/Key differ	no	28.00
CP.1067	Supply and install SN half cylinder Key alike, Accord 1404, GMK1 or GMK2,MK01/MK02/MK03/MK04/MK05	no	20.00
CP.1068	Supply and install SS mortice nightlatch lock c/w strike & box	no	17.00
CP.1069	Supply only rebated part for mortice sashlock	no	5.00
CP.1070	Supply only concealed door closer	no	125.00
CP.1071	Supply only power adjustable exposed door closer with delay action	no	145.00
CP.1072	Supply and install 0.60mm Satin stainless steel mortice sashlock c/w strike and box	no	33.00
CP.1073	Supply and install 0.80mm Satin stainless steel sashlock clw strike & box	no	80.00
CP.1074	Supply and install 205mm x 19mm ss pull handle	no	13.20
CP.1075	Supply and install SS recessed pull handle	no	7.20
CP.1076	Supply only SS cup handle	no	6.00
CP.1077	Supply only SS latchset c/w both side cup handle	no	15.00
CP.1078	Supply and install SS Dust Proof Socket	no	6.00
CP.1079	Supply and install SS Escutcheon	no	3.40
CP.1080	Fabricate, supply and install acoustic curtains of approved colour to the required size including curtain track and	m2	130.00
CP.1081	rail, all necessary fixing accessories, all to the University's approval Supply and install manually operated blackout blinds complete with pelmets, tracks, pull cords etc	m2	30.00
CP.1082	Motorised perforated window blackout blinds c/w motorised mechanism	m2	100.00
CP.1083	Design, fabricate, supply and install aluminium sun-shading louver in powder coated finish complete with 40 x 40mm mild steel square hollow section, 0.6mm thick aluminium alloy, necessary fixing accessories and to the University's approval	m2	260.00
CP.1084	Supply Abloy Sentry Padlock, 20mm shackle c/w 2 Sentry keys PL321B/20(Controlled Key)	no	95.00
CP.1085	Supply Abloy Sentry Padlock, 50mm shackle c/w 2 Sentry keys PL321B/50(Controlled Key)	no	100.00

S/No	Description	Unit	Unit Cost (\$)
CP.1086	Supply Abloy Sentry Padlock, 25mm shackle c/w 2 Sentry keys PL330B/25(Controlled Key)	no	130.00
CP.1087	Supply Abloy Sentry Padlock, 50mm shackle c/w 2 Sentry keys PL330B/50(Controlled Key)	no	140.00
CP.1088	Supply Abloy Sentry Padlock, 25mm shackle c/w 2 Sentry keys PL341B/25(Controlled Key)	no	160.00
CP.1089	Supply Abloy Sentry Padlock, 50mm shackle c/w 2 Sentry keys PL341B/50(Controlled Key)	no	165.00
CP.1090	Supply AOBA SS420-3435 Stainless Steel Padlock, 36mm Shackle c/w 2 program & 3 user keys, laser engraved on padlock and keys. (Controlled)	no	60.00
CP.1091	Supply AOBA SS420-5038 Stainless Steel Padlock, 38mm Shackle c/w 2 program & 3 user keys, laser engraved on padlock and keys. (Controlled)	no	70.00
CP.1092	Supply AOBA SS420-5560 Stainless Steel Padlock, 60mm Shackle c/w 2 program & 3 user keys, laser engraved on padlock and keys. (Controlled)	no	85.00

## 6. STEELWORK

S/No	Description	Unit	Unit Cost (\$)
SW.1	Mild steel rod, plate, angle, channel, flats, etc. cut in lengths including all labour, bending, welding, drilling and painting one coat of inhibitive primer before delivery.	kg	3.50
SW.2	Wrought iron rod, plate, angle, channel, flats, etc cut in lengths including all labour, bending, welding, drilling and painting one coat of inhibitive primer before delivery.	kg	3.00
SW.3	Roll steel of any section or size including cutting, welding, and painting one coat of inhibitive primer before delivery, in stanchions, beams, girders, roof trusses, purlins, cleats, brackets, etc.	kg	3.30
SW.4	Mild steel tubular or rectangular or square hollow section of any section or size including cutting, welding, and painting one coat of inhibitive primer before delivery, in stanchions, beams, girders, roof trusses, purlins, cleats, brackets, etc.	kg	3.50
SW.5	Light gauge steel channel section etc in purlins, rafters, cleats, brackets, etc.	kg	3.50
SW.6	Mild steel bright tubular, square or rectangular hollow section of any section or size including cutting, welding, and painting one coat of inhibitive primer before delivery in framing to joinery, fitments and fittings.	kg	3.50
SW.7	Weld joints, any thickness of steel or weld (length of girth of joint measured) (welding machine measured separately).	m	2.10
SW.8	Spot weld ie. ends of wire to frames (welding machine measured separately).	no	0.30
SW.9	Grouting up gap not exceeding 300mm wide x 50mm thick between RSJ and brickwall with dry-pack-cement mortar (1:1) to the satisfaction of SO and clean surrounds.	m	5.30
SW.10	Grouting up gap exceeding 300mm wide x 50mm thick between RSJ and brickwall with dry-pack-cement mortar (1:1) to the satisfaction of SO and clean surrounds.	m	11.30
SW.11	25mm thick dry-pack-cement mortar grouting (1:1) under steel stanchion base plate.	sq m	41.40
SW.12	Cut off existing projecting metal hollow section, T-bearers, I-beam, etc not exceeding 100mm girth (Rate measured per spot) (cutting machine measured separately).	no	7.50
SW.13	Add for each 25mm increase in girth.	no	0.60



S/No	Description	Unit	Unit Cost (\$)
SW.14	Cut off existing projecting reinforcing bar (any size) and remove debris off site (hacking up concrete and cutting machine measured separately).	no	1.80
SW.15	Build end of steel joists, bearers, etc into concrete work, brickwork, etc and make good surround with and including materials to match (making holes measured separately).	no	9.00
SW.16	Hot-dipped galvanising to steel members.	kg	1.20
SW.17	Hot-dipped galvanising to mild steel grating (Type A)	m	8.70
SW.18	0.7mm aluminium sheet for fabricating valley gutters, box gutters, eaves gutters, flashing, fitments, etc (brackets for gutter measured separately) including joints welded seams, beaded edges, galvanised nails, dressing and bending, cutting, chase in wall, sealing compound and cement mortar, forming outlets, stop ends, etc (measured nett, no allowance made for laps).	sq m	48.50
SW.19	1.00mm aluminium sheet for fabricating valley gutters, box gutters, eaves gutters, flashing, fitments, etc (brackets for gutter measured separately) including joints welded seams, beaded edges, galvanised nails, dressing and bending, cutting, chase in wall, sealing compound and cement mortar, forming outlets, stop ends, etc (measured nett, no allowance made for laps).	sq m	62.90
SW.20	1.32mm aluminium sheet for fabricating valley gutters, box gutters, eaves gutters, flashing, fitments, etc (brackets for gutter measured separately) including joints welded seams, beaded edges, galvanised nails, dressing and bending, cutting, chase in wall, sealing compound and cement mortar, forming outlets, stop ends, etc (measured nett, no allowance made for laps).	sq m	71.70
SW.21	2.00mm aluminium sheet for fabricating valley gutters, box gutters, eaves gutters, flashing, fitments, etc (brackets for gutter measured separately) including joints welded seams, beaded edges, galvanised nails, dressing and bending, cutting, chase in wall, sealing compound and cement mortar, forming outlets, stop ends, etc (measured nett, no allowance made for laps).	sq m	108.30
SW.22	0.794mm stainless steel sheet for fabricating valley gutters, box gutters, caves gutter, flashing, fitments, etc to any size and shape, (Brackets for gutters measured separately).	sq m	142.50
SW.23	1.00mm stainless steel sheet for fabricating valley gutters, box gutters, caves gutter, flashing, fitments, etc to any size and shape, (Brackets for gutters measured separately).	sq m	163.50
SW.24	1.32mm stainless steel sheet for fabricating valley gutters, box gutters, caves gutter, flashing, fitments, etc to any size and shape, (Brackets for gutters measured separately).	sq m	210.00
SW.25	2.00mm stainless steel sheet for fabricating valley gutters, box gutters, caves gutter, flashing, fitments, etc to any size and shape, (Brackets for gutters measured separately).	sq m	243.80
SW.26	3.00mm stainless steel sheet for fabricating valley gutters, box gutters, caves gutter, flashing, fitments, etc to any size and shape, (Brackets for gutters measured separately).	sq m	312.00
SW.27	Approved 75mm diameter aluminium alloy holderbats/for pipe (round or box type) fixed new or to match existing.	no	2.40
SW.28	Approved 100mm diameter aluminium alloy holderbats/for pipe (round or box type) fixed new or to match existing.	no	2.70
SW.29	Approved 150mm diameter aluminium alloy holderbats/for pipe (round or box type) fixed new or to match existing.	no	3.00

S/No	Description	Unit	Unit Cost (\$)
SW.30	Approved 100mm x 100mm diameter aluminium alloy holderbats/for pipe (round or box type) fixed new or to match existing.	no	3.80
SW.31	Approved 100mm x 150mm diameter aluminium alloy holderbats/for pipe (round or box type) fixed new or to match existing.	no	3.80
SW.32	Approved 150mm x 150mm diameter aluminium alloy holderbats/for pipe (round or box type) fixed new or to match existing.	no	4.20
SW.33	Approved 150mm x 200mm diameter aluminium alloy holderbats/for pipe (round or box type) fixed new or to match existing.	no	4.70
SW.34	Take out existing metal holderbats for pipe, (any diameter) remove off site and make good work disturbed.	no	0.80
SW.35	Take out existing brackets to eaves, gutters, remove off site and make good work disturbed.	no	0.80
SW.36	3mm thick x 25mm wide mild steel flat bar bent to the shape of bracket to receive gutter including fixing to fascia and 3 coats paint to match.	m	6.00
SW.37	3mm thick x 25mm wide stainless steel bent to the shape of bracket to receive gutter including fixing to fascia.	m	18.20
SW.38	40mm mesh x 10 SWG (3.25mm) galvanised chain link mesh with strand of 6 SWG straining wire at 600mm centres fencing in new work or fixed on top of existing fence including linking to existing, comprising combination of some of the following items (nett area measured).	sq m	15.00
SW.39	50mm mesh x 10 SWG (3.25mm) galvanised chain link mesh with strand of 6 SWG straining wire at 600mm centres fencing in new work or fixed on top of existing fence including linking to existing, comprising combination of some of the following items (nett area measured).	sq m	12.30
SW.40	50mm mesh x 9 SWG (3.66mm) galvanised chain link mesh with strand of 6 SWG straining wire at 600mm centres fencing in new work or fixed on top of existing fence including linking to existing, comprising combination of some of the following items (nett area measured).	sq m	14.00
SW.41	50mm mesh x 8 SWG (4.06mm) galvanised chain link mesh with strand of 6 SWG straining wire at 600mm centres fencing in new work or fixed on top of existing fence including linking to existing, comprising combination of some of the following items (nett area measured).	sq m	16.20
SW.42	63mm mesh x 8 SWG (4.06mm) galvanised chain link mesh with strand of 6 SWG straining wire at 600mm centres fencing in new work or fixed on top of existing fence including linking to existing, comprising combination of some of the following items (nett area measured).	sq m	14.40
SW.43	50mm mesh x 10 SWG (3.25mm) (total thickness) galvanised chain link mesh with strand of 6 SWG (4.88mm) (total thickness) straining wire at 600mm centres both coated with polyvinyl	sq m	13.80
SW.44	chloride (NB: Wire thickness 13 SWG or 2.34mm). 50mm mesh x 9 SWG (3.66mm) (total thickness) galvanised chain link mesh with strand of 6 SWG (4.88mm) (total thickness) straining wire at 600mm centres both coated with polyvinyl chloride (NB: Wire thickness 12 SWG or 2.64mm).	sq m	16.10
SW.45	50mm mesh x 8 SWG (4.06mm) (total thickness) galvanised chain link mesh with strand of 6 SWG (4.88mm) (total thickness) straining wire at 600mm centres both coated with polyvinyl chloride (NB: Wire thickness 11 SWG or 2.95mm).	sq m	17.90
SW.46	Extra over all above items for infilling the mesh one way aluminium slate including 2 coats of synthetic enamel paint on both sides.	sq m	31.20
SW.47	Extra over all above items for infilling the mesh double way aluminium slate including 2 coats of synthetic enamel paint on both sides.	sq m	39.30

S/No	Description	Unit	Unit Cost (\$)
SW.48	Posts for fence (any type ) consisting of 50mm x 50mm x 6mm thick mild steel angles placed not more than 3.00m apart, corner, intermediate and posts to be 25mm bigger, ie size 75mm x 75mm x 6mm thick, each post with bottom fixed on top of concrete/brick base or wall including holding down angles and bolts or welded to top of existing posts or bottom with minimum 300mm long embedded into and including 300 x 300 x 500mm concrete foundation, all necessary tying wires, split pins, drilling holes and painting with one coat of inhibitive primer and two coats of aluminium or synthetic enamel paint. (Nett area of mesh measured).	sq m	8.40
SW.49	Posts for fence (any type ) consisting of 65mm x 65mm x 6mm thick mild steel angles etc (size of corners, intermediate and end posts is 90mm x 90mm x 6mm thick) each post with bottom fixed on top of concrete/brick base or wall including holding down angles and bolts or welded to top of existing posts or bottom with minimum 300mm long embedded into and including 300 x 300 x 500mm concrete foundation, all necessary tying wires, split pins, drilling holes and painting with one coat of inhibitive primer and two coats of aluminium or synthetic enamel paint. (Nett area of mesh measured).	sq m	9.90
SW.50	Posts for fence (any type ) consisting of 75mm x 75mm x 6mm thick mild steel angles etc (size of corners, intermediate and end posts is 100mm x 100mm x 6mm thick) each post with bottom fixed on top of concrete/brick base or wall including holding down angles and bolts or welded to top of existing posts or bottom with minimum 300mm long embedded into and including 300 x 300 x 500mm concrete foundation, all necessary tying wires, split pins, drilling holes and painting with one coat of inhibitive primer and two coats of aluminium or synthetic enamel paint. (Nett area of mesh measured).	sq m	11.10
SW.51	Posts for fence (any type ) consisting of 89mm x 5.4mm thick mild steel pipe placed not more than 3.00m apart and 76mm diameter x 5.4mm thick mild steel pipe placed horizontally at top and middle section of fence, each post with bottom welded to 250mm x 250mm x 3mm thick plate including embedded post with minimum 600mm long into and include 500 x 500 x 750mm concrete foundation including all necessary tying wires, split pins, drilling holes and painting with one coat of inhibitive primer and two coats of aluminium or synthetic enamel paint. (Nett area of mesh measured).	sq m	34.80
SW.52	50mm x 50mm x 6mm thick mild steel angle struts for fence, two to each intermediate and corner posts, one to each post, placed not more than 12m apart and inclined at 60 degrees to post, one end of strut bolted or welded to post, the other end split with minimum 300mm long, cast in and include concrete foundation as per drawing shown in Appendix 30 and all necessary tying wires, split pins, drilling holes and painting with one coat of inhibitive primer and two coats of aluminium or synthetic enamel paint. (Nett area of mesh measured).	sq m	4.80
SW.53	65mm x 65mm x 6mm thick mild steel angle struts for fence, two to each intermediate and corner posts, one to each post, placed not more than 12m apart and inclined at 60 degrees to post, one end of shrut bolted or welded to post, the other end split with minimum 300mm long, cast in and including concrete foundation as per drawing shown in Appendix 30 and all necessary tying wires, split pins, drilling holes and painting with one coat of inhibitive primer and two coats of aluminium or synthetic enamel paint (Nett area of mesh measured).	sq m	5.30

S/No	Description	Unit	Unit Cost (\$)
SW.54	75mm x 75mm x 6mm thick mild steel angle struts for fence, two to each intermediate and corner posts, one to each post, placed not more than 12m apart and inclined at 60 degrees to post, one end of strut bolted or welded to post, the other end split with minimum 300mm long, cast in and including concrete foundation as per drawing shown in Appendix 30 and all necessary tying wires, split pins, drilling holes and painting with one coat of inhibitive primer and two coats of aluminium or synthetic enamel paint (Nett area of mesh measured).	sq m	5.70
SW.55	76mm diameter x 5.4mm thick mild steel pipe fence strut, two to each intermediate, one to each end post not more than 12m apart and inclined at 45 degrees to post, one end of strut bolted or welded to post, the other end welded to and includes 250mm x 250mm x 3mm thick mild steel plate cast in and include concrete foundation as shown in Appendix 31 and all necessary tying wires, split pins, drilling holes and painting with one coat of inhibitive primer and two coats of aluminium or synthetic enamel paint (Nett area of mesh measured).	sq m	6.50
SW.56	25mm x 3mm thick mild steel clamp bar at every posts including bolts and nuts, drilling and painting with 3 coats paint, with one coat of inhibitive primer and two coats of aluminium or synthetic enamel paint (Nett area of mesh measured).	sq m	1.70
SW.57	Cranked or straight mild steel angle 50 x 50x 6mm thick x 300mm long anti-climb arm with 3 strands PVC coated galvanised barbed wires (14 SWG) or 2.03mm welded onto top of new or existing fence post or secured on top of existing/new wall, spaced not more than 3.00m apart including painting with one coat of inhibitive primer and coats aluminium paint, making holes in wall minimum 150mm deep to receive end of arm, grouting with cement mortar and providing two arms to corner post (length measured on plan).	m	3.00
SW.58	Cranked or straight mild steel angle 50 x 50x 6mm thick x 300mm long anti-climb arm with 4 strands barbed wires (14 SWG) or 2.03mm welded onto top of new or existing fence post or secured on top of existing/new wall, spaced not more than 3.00m apart including painting with one coat of inhibitive primer and coats aluminium paint, making holes in wall minimum 150mm deep to receive end of arm, grouting with cement mortar and providing two arms to corner post (length measured on plan).	m	3.60
SW.59	Cranked or straight mild steel angle 50 x 50x 6mm thick x 300mm long anti-climb arm with 3 strands barbed wire fixed horizontally and 2 strands fixed diagonally or 2.03mm welded onto top of new or existing fence post or secured on top of existing/new wall, spaced not more than 3.00m apart including painting with one coat of inhibitive primer and coats aluminium paint, making holes in wall minimum 150mm deep to receive end of arm, grouting with cement mortar and providing two arms to corner post (length measured on plan).	m	4.20
SW.60	Cranked or straight mild steel angle 50 x 50x 6mm thick x 300mm long anti-climb arm with 4 strands barbed wires fixed horizontally and 2 strands fixed diagonally or 2.03mm welded onto top of new or existing fence post or secured on top of existing/new wall, spaced not more than 3.00m apart including painting with one coat of inhibitive primer and coats aluminium paint, making holes in wall minimum 150mm deep to receive end of arm, grouting with cement mortar and providing two arms to corner post (length measured on plan).	m	4.80

S/No	Description	Unit	Unit Cost (\$)
SW.61	Cranked or straight mild steel angle 65 x 65x 6mm thick x 300mm long anti-climb arm with 3 strands PVC coated galvanised barbed wires (14 SWG) or 2.03mm welded onto top of new or existing fence post or secured on top of existing/new wall, spaced not more than 3.00m apart including painting with one coat of inhibitive primer and coats aluminium paint, making holes in wall minimum 150mm deep to receive end of arm, grouting with cement mortar and providing two arms to corner post (length measured on plan).	m	3.30
SW.62	Cranked or straight mild steel angle 65 x 65x 6mm thick x 300mm long anti-climb arm with 4 strands barbed wires (14 SWG) or 2.03mm welded onto top of new or existing fence post or secured on top of existing/new wall, spaced not more than 3.00m apart including painting with one coat of inhibitive primer and coats aluminium paint, making holes in wall minimum 150mm deep to receive end of arm, grouting with cement mortar and providing two arms to corner post (length measured on plan).	m	3.90
SW.63	Cranked or straight mild steel angle 65 x 65x 6mm thick x 300mm long anti-climb arm with 3 strands barbed wire fixed horizontally and 2 strands fixed diagonally or 2.03mm welded onto top of new or existing fence post or secured on top of existing/new wall, spaced not more than 3.00m apart including painting with one coat of inhibitive primer and coats aluminium paint, making holes in wall minimum 150mm deep to receive end of arm, grouting with cement mortar and providing two arms to corner post (length measured on plan).	m	4.50
SW.64	Cranked or straight mild steel angle 65 x 65x 6mm thick x 300mm long anti-climb arm with 4 strands barbed wires fixed horizontally and 2 strands fixed diagonally or 2.03mm welded onto top of new or existing fence post or secured on top of existing/new wall, spaced not more than 3.00m apart including painting with one coat of inhibitive primer and coats aluminium paint, making holes in wall minimum 150mm deep to receive end of arm, grouting with cement mortar and providing two arms to corner post (length measured on plan).	m	5.10
SW.65	Cranked or straight mild steel angle 75 x 75x 6mm thick x 300mm long anti-climb arm with 3 strands PVC coated galvanised barbed wires (14 SWG) or 2.03mm welded onto top of new or existing fence post or secured on top of existing/new wall, spaced not more than 3.00m apart including painting with one coat of inhibitive primer and coats aluminium paint, making holes in wall minimum 150mm deep to receive end of arm, grouting with cement mortar and providing two arms to corner post (length measured on plan).	m	3.60
SW.66	Cranked or straight mild steel angle 75 x 75x 6mm thick x 300mm long anti-climb arm with 4 strands barbed wires (14 SWG) or 2.03mm welded onto top of new or existing fence post or secured on top of existing/new wall, spaced not more than 3.00m apart including painting with one coat of inhibitive primer and coats aluminium paint, making holes in wall minimum 150mm deep to receive end of arm, grouting with cement mortar and providing two arms to corner post (length measured on plan).	m	4.20
SW.67	Cranked or straight mild steel angle 75 x 75x 6mm thick x 300mm long anti-climb arm with 3 strands barbed wire fixed horizontally and 2 strands fixed diagonally or 2.03mm welded onto top of new or existing fence post or secured on top of existing/new wall, spaced not more than 3.00m apart including painting with one coat of inhibitive primer and coats aluminium paint, making holes in wall minimum 150mm deep to receive end of arm, grouting with cement mortar and providing two arms to corner post (length measured on plan).	m	4.80

S/No	Description	Unit	Unit Cost (\$)
SW.68	Cranked or straight mild steel angle 75 x 75x 6mm thick x 300mm long anti-climb arm with 4 strands barbed wires fixed horizontally and 2 strands fixed diagonally or 2.03mm welded onto top of new or existing fence post or secured on top of existing/new wall, spaced not more than 3.00m apart including painting with one coat of inhibitive primer and coats aluminium paint, making holes in wall minimum 150mm deep to receive end of arm, grouting with cement mortar and providing two arms to corner post (length measured on plan).	m	5.40
SW.69	Add for each additional stage of 100mm arm length including extra strand of barbed wire (14 SWG) for above 4 items (FF0057 - FF0060).	m	1.10
SW.70	Y' anti-climb arm of 50 x 50x 6mm thick x 300mm long mild steel angle each arm with 3 strands PVC coated galvanised barbed wire (14 SWG) or 2.03mm welded onto top of new existing fence posts or on existing/new wall spaced not more than 3.00m apart and including painting one coat of inhibitive primer and 2 coats aluminium or synthetic enamel paint, making holes in wall to receive end of arm and grouting with cement mortar (Length measured on plan).	m	6.00
SW.71	Y' anti-climb arm of 50 x 50x 6mm thick x 300mm long mild steel angle each arm with 4 strands barbed wire or 2.03mm welded onto top of new existing fence posts or on existing/new wall spaced not more than 3.00m apart and including painting one coat of inhibitive primer and 2 coats aluminium or synthetic enamel paint, making holes in wall to receive end of arm and grouting with cement mortar (Length measured on plan).	m	7.20
SW.72	Y' anti-climb arm of 50 x 50x 6mm thick x 300mm long mild steel angle each arm with 3 strands PVC coated galvanised barbed wire (14 SWG) or 2.03mm fixed horizontally and 2 strands fixed diagonally welded onto top of new or existing fence posts or on existing/new wall, spaced not more than 3.00m apart and including painting one coat of inhibitive primer and 2 coats aluminium or synthetic enamel paint, making holes in wall to receive end of arm and grouting with cement mortar (Length measured on plan)	m	8.40
SW.73	Y' anti-climb arm of 50 x 50x 6mm thick x 300mm long mild steel angle each arm with 4 strands barbed wire fixed horizontally and 2 strands fixed diagonally or 2.03mm fixed horizontally and 2 strands fixed diagonally welded onto top of new or existing fence posts or on existing/new wall, spaced not more than 3.00m apart and including painting one coat of inhibitive primer and 2 coats aluminium or synthetic enamel paint, making holes in wall to receive end of arm and grouting with cement mortar (Length measured on plan)	m	9.30
SW.74	Add for each additional 100mm arm length (14 SWG) for item (FF0064) to above.	m	2.10
SW.75	Y' anti-climb arm of 65 x 65x 6mm thick x 300mm long mild steel angle each arm with 3 strands PVC coated galvanised barbed wire (14 SWG) or 2.03mm welded onto top of new existing fence posts or on existing/new wall spaced not more than 3.00m apart and including painting one coat of inhibitive primer and 2 coats aluminium or synthetic enamel paint, making holes in wall to receive end of arm and grouting with cement mortar (Length measured on plan).	m	6.60

S/No	Description	Unit	Unit Cost (\$)
SW.76	Y' anti-climb arm of 65 x 65x 6mm thick x 300mm long mild steel angle each arm with 4 strands barbed wire or 2.03mm welded onto top of new existing fence posts or on existing/new wall spaced not more than 3.00m apart and including painting one coat of inhibitive primer and 2 coats aluminium or synthetic enamel paint, making holes in wall to receive end of arm and grouting with cement mortar (Length measured on plan).	m	7.80
SW.77	Y' anti-climb arm of 65 x 65x 6mm thick x 300mm long mild steel angle each arm with 3 strands PVC coated galvanised barbed wire (14 SWG) or 2.03mm fixed horizontally and 2 strands fixed diagonally welded onto top of new or existing fence posts or on existing/new wall, spaced not more than 3.00m apart and including painting one coat of inhibitive primer and 2 coats aluminium or synthetic enamel paint, making holes in wall to receive end of arm and grouting with cement mortar (Length measured on plan)	m	9.00
SW.78	Y' anti-climb arm of 65 x 65x 6mm thick x 300mm long mild steel angle each arm with 4 strands barbed wire fixed horizontally and 2 strands fixed diagonally or 2.03mm fixed horizontally and 2 strands fixed diagonally welded onto top of new or existing fence posts or on existing/new wall, spaced not more than 3.00m apart and including painting one coat of inhibitive primer and 2 coats aluminium or synthetic enamel paint, making holes in wall to receive end of arm and grouting with cement mortar (Length measured on plan)	m	9.90
SW.79	Y' anti-climb arm of 75 x 75x 6mm thick x 300mm long mild steel angle each arm with 3 strands PVC coated galvanised barbed wire (14 SWG) or 2.03mm welded onto top of new existing fence posts or on existing/new wall spaced not more than 3.00m apart and including painting one coat of inhibitive primer and 2 coats aluminium or synthetic enamel paint, making holes in wall to receive end of arm and grouting with cement mortar (Length measured on plan).	m	7.20
SW.80	Y' anti-climb arm of 75 x 75x 6mm thick x 300mm long mild steel angle each arm with 4 strands barbed wire or 2.03mm welded onto top of new existing fence posts or on existing/new wall spaced not more than 3.00m apart and including painting one coat of inhibitive primer and 2 coats aluminium or synthetic enamel paint, making holes in wall to receive end of arm and grouting with cement mortar (Length measured on plan).	m	8.40
SW.81	Y' anti-climb arm of 75 x 75x 6mm thick x 300mm long mild steel angle each arm with 3 strands PVC coated galvanised barbed wire (14 SWG) or 2.03mm fixed horizontally and 2 strands fixed diagonally welded onto top of new or existing fence posts or on existing/new wall, spaced not more than 3.00m apart and including painting one coat of inhibitive primer and 2 coats aluminium or synthetic enamel paint, making holes in wall to receive end of arm and grouting with cement mortar (Length measured on plan).	m	9.60
SW.82	Y' anti-climb arm of 75 x 75x 6mm thick x 300mm long mild steel angle each arm with 4 strands barbed wire fixed horizontally and 2 strands fixed diagonally or 2.03mm fixed horizontally and 2 strands fixed diagonally welded onto top of new or existing fence posts or on existing/new wall, spaced not more than 3.00m apart and including painting one coat of inhibitive primer and 2 coats aluminium or synthetic enamel paint, making holes in wall to receive end of arm and grouting with cement mortar (Length measured on plan).	m	10.50
SW.83	Remove existing fence (any type) c/w posts, struts, foundations, anti-climb arm, creepers, etc. as directed and remove off site including making good work disturbed. (Length of fence measured but height measured from top of foundation to apex of post or anti-climb arm if applicable).	sq m	4.80

S/No	Description	Unit	Unit Cost (\$)
SW.84	Take out existing chain link mesh only (any type) and remove off site (Nett area of mesh measured).	sq m	1.70
SW.85	Take out as necessary and tighten existing chain link mesh only or refix in new position including providing new straining wires, bolts, and staples to match existing. (Nett area of fence measured).	sq m	6.20
SW.86	Take out existing chain link fence c/w posts, struts, concrete base, etc and lay aside for re-use including removing debris off site and making good work disturbed (Nett area of fence measured).	sq m	5.40
SW.87	Take from stock and fix only existing chain link fence in new position c/w posts, struts, beading etc including providing new straining wires, bolts and staples to match existing (nett area measured separately).	sq m	5.90
SW.88	Cut remove grass, shrubs, creepers and hedges on one side of fence and clear away (Nett area measured).	sq m	1.80
SW.89	Take out existing tubular or mild steel angle fence posts, struts, etc (any height) including foundation when directed, remove off site, make good work disturbed or prepare to receive new works.	no	5.70
SW.90	Replace existing tubular or mild steel angle fence struts or posts (any size) not exceeding 1m high from top of concrete base with new including taking out fence (any type), refixing, tightening, providing new bolts, staples, 3 coats paint, etc and removing existing concrete foundations when directed (New foundation measured separately).	no	16.50
SW.91	Add for each additional stage of 100mm in height.	no	1.80
SW.92	Cut and remove part of tubular or mild steel angle fence strut, post or anti-climb arm not exceeding 1m in length and replace with new to match including removing existing concrete foundations, taking out fence (any type), site welding, refixing, tightening, providing new bolts, staples, etc and 3 coats paint (New foundation measured separately).	no	16.50
SW.93	Add for each additional stage of 100mm in height.	no	1.80
SW.94	Replace mild steel tubular angle posts (any size) in isolated position and not exceeding 1m high, welded on top of existing metal work or one end split, caulked and cast in concrete as described including drilling holes and 3 coats paint (New foundation and taking out existing foundation measured separately).	no	12.50
SW.95	Add for each additional 100mm in height (New foundation and taking out existing foundation measured separately).	no	1.50
SW.96	Labour only to refix existing tubular or angle fence post (any size and height) (Foundation measured separately).	m	2.90
SW.97	38mm diameter galvanised steel pipe tubing (medium duty) in fence posts & unclimbable arms, framed and welded together or framed with tees, bends, elbows etc including all drilling (nett length measured, concrete foundation and painting measured separately).	m	15.30
SW.98	50mm diameter galvanised steel pipe tubing (medium duty) in fence posts & unclimbable arms, framed and welded together or framed with tees, bends, elbows etc including all drilling (nett length measured, concrete foundation and painting measured separately).	m	22.80
SW.99	63mm diameter galvanised steel pipe tubing (medium duty) in fence posts & unclimbable arms, framed and welded together or framed with tees, bends, elbows etc including all drilling (nett length measured, concrete foundation and painting measured separately).	m	31.10



S/No	Description	Unit	Unit Cost (\$)
SW.100	75mm diameter galvanised steel pipe tubing (medium duty) in fence posts & unclimbable arms, framed and welded together or framed with tees, bends, elbows etc including all drilling (nett length measured, concrete foundation and painting measured separately).	m	42.80
SW.101	100mm diameter galvanised steel pipe tubing (medium duty) in fence posts & unclimbable arms, framed and welded together or framed with tees, bends, elbows etc including all drilling (nett length measured, concrete foundation and painting measured separately).	m	55.70
SW.102	Take out strand of existing barbed wire or plain wire and remove off site.	m	0.20
SW.103	Take out strand of existing barbed wire or plain wire and lay aside for re-use.	m	0.20
SW.104	Take from stack and fix only strand of barbed wire or plain wire including providing new staples etc.	m	0.40
SW.105	Take out as necessary and tighten strand of existing barbed wire or plain wire including providing new staples etc.	m	0.40
SW.106	Galvanised barbed wire 14 SWG (2.03mm) fixed with and including staples etc.	m	0.50
SW.107	Galvanised barbed wire 12 SWG (2.64mm) fixed with and including staples etc.	m	0.60
SW.108	Plain wire No 8 gauge (4.08mm) fixed with and including staples etc.	m	0.80
SW.109	Plain wire No 10 gauge (3.25mm) fixed with and including staples etc.	m	0.60
SW.110	PVC coated 14 SWG fixed with and including staples etc.	m	0.60
SW.111	PVC coated 12 SWG (2.64mm) fixed with and including staples etc.	m	0.80
SW.112	PVC coated 10 SWG (3.25mm.) fixed with and including staples etc.	m	0.90
SW.113	Metal gate consisting of 50mm diameter galvanised steel tubular hollow section or 65mm x 38mm x 6mm thick mild steel angle framing with necessary matching intermediate rails and cross braces, and 50mm x 50mm x 3.25mm weldmesh or galvanised chain link 50mm mesh x gauge 10 (3.25mm) infilling including hinges, stops, guide plates, drop bolts, padlock bolts, etc and apply 1 priming coat, 1 undercoat and 1 finishing coat of synthetic enamel paint after installation.	sq m	125.00
SW.114	Mild steel grilled gate comprising of not exceeding 50mm x 50mm x 5mm hollow section or 50mm diameter pipe surround with infilling of mild steel flat bars not exceeding 25mm x 6mm thick, ditto and c/w pivoted hinges, stops, drop bolts and other accessories, apply one coat of inhibitive primer before delivery and apply 1 priming coat, 1 undercoat and 1 finishing coat of synthetic enamel paint after installation.	sq m	147.30
SW.115	Extra over item (FF0099) and (FF0100) for forming opening for and including one leaf of wicket door measuring not exceeding 2.00sq m complete with door frames, hinges and padlock bolt.	sq m	14.60
SW.116	Metal gate consisting of 75mm diameter galvanised steel pipe as outer frame and infill with 50mm diameter galvanised steel pipe welded vertically c/w 20mm pipe diameter galvanised steel pipe welded at a certain angle with one end to the outer frame and the other to the vertical section including ironmongeries and apply 1 priming coat, 1 undercoat and 1 finishing coat of synthetic enamel paint after installation	sq m	315.00
SW.117	Take out metal gate (any type), cut out damaged or corroded portions, provide new in replacement, including welding, refixing, easing and removing debris off site (Replacement of ironmongery and painting measured separately).	sq m	43.50
SW.118	Take out existing fence gate and remove off site.	sq m	4.20

S/No	Description	Unit	Unit Cost (\$)
SW.119	Mild steel angle gate posts not exceeding 75mm x 75mm x 6mm thick, one end splayed and cast in concrete base including 3 coats paint (Foundation measured separately) (Length measured from top of concrete base).	m	22.80
SW.120	75mm diameter mild steel tubular gate posts ('B' pipes) one end splayed and cast in concrete base including 3 coats paint (Foundation measured separately) (Length measured from top of concrete base).	m	22.10
SW.121	100mm diameter mild steel tubular gate posts ('B' pipes) one end splayed and cast in concrete base including 3 coats paint (Foundation measured separately) (Length measured from top of concrete base).	m	39.50
SW.122	150mm diameter mild steel tubular gate posts ('B' pipes) one end splayed and cast in concrete base including 3 coats paint (Foundation measured separately) (Length measured from top of concrete base).	m	55.20
SW.123	Take out existing gate posts, including grubbing up concrete foundation as directed, remove off site and fill voids with earth well rammed. (Length measured from top of concrete base).	m	3.60
SW.124	Supply and install approved 40.1mm x 40.1mm x 2.0mm stove enamel slotted angle in shelving and equipment frames etc (any size and design) (any length below 300mm shall be counted as 300mm).	m	4.30
SW.125	Supply and install approved 62.0mm x 40.9mm x 2.0mm stove enamel slotted angle in shelving and equipment frames etc (any size and design)(any length below 300mm shall be counted as 300mm).	m	5.20
SW.126	Punched steel strap size 38.1mm x 2.0mm with 10mm holes at 20mm centres.	no	5.20
SW.127	Bracing angle size 34.3mm x 14.5mm x 2.0mm with 10mm holes.	no	5.20
SW.128	Supply and install approved 900mm X 300mm steel panel (shelves) with etch primed or stove enamelled battleship grey finish for use with slotted angle section.	no	16.40
SW.129	Supply and install approved 900mm X 450mm steel panel (shelves) with etch primed or stove enamelled battleship grey finish for use with slotted angle section.	no	24.20
SW.130	Supply and install approved 900mm X 600mm steel panel (shelves) with etch primed or stove enamelled battleship grey finish for use with slotted angle section.	no	27.10
SW.131	Supply and install approved 900mm X 900mm steel panel (shelves) with etch primed or stove enamelled battleship grey finish for use with slotted angle section.	no	41.20
SW.132	Supply and install approved 900mm x 150mm steel panel heavy duty shelving bolted directly to horizontally beams with stove enamelled finish.	no	6.70
SW.133	Supply and install approved 900mm x 150mm steel panel heavy duty shelving bolted directly to horizontally beams with aluminium alloy finish.	no	9.10
SW.134	Supply and install approved 300 x 140mm perforated steel shelf dividers with etch-primed or stove enamelled battleship grey finish.	no	3.50
SW.135	Supply and install approved 300 x 215mm perforated steel shelf dividers with etch-primed or stove enamelled battleship grey finish.	no	3.80
SW.136	Supply and install approved 450 x 140mm perforated steel shelf dividers with etch-primed or stove enamelled battleship grey finish.	no	4.60
SW.137	Supply and install approved 450 x 215mm perforated steel shelf dividers with etch-primed or stove enamelled battleship grey finish.	no	4.90
SW.138	Approved 50mm fixed iron castors fixed to feet of equipment.	no	9.60
SW.139	Approved 50mm fixed rubber castors fixed to feet of equipment.	no	6.60
SW.140	Approved 50mm swivel iron castors fixed to feet of equipment.	no	10.80
SW.141	Approved 50mm swivel rubber castors fixed to feet of equipment.	no	9.60
SW.142	Approved 63mm fixed iron castors fixed to feet of equipment.	no	12.00

S/No	Description	Unit	Unit Cost (\$)
SW.143	Approved 63mm fixed rubber castors fixed to feet of equipment.	no	7.80
SW.144	Approved 63mm swivel iron castors fixed to feet of equipment.	no	13.20
SW.145	Approved 63mm swivel rubber castors fixed to feet of equipment.	no	10.20
SW.146	Approved 100mm fixed iron castors fixed to feet of equipment.	no	14.40
SW.147	Approved 100mm fixed rubber castors fixed to feet of equipment.	no	8.90
SW.148	Approved 100mm swivel iron castors fixed to feet of equipment.	no	19.80
SW.149	Approved 100mm swivel rubber castors fixed to feet of equipment.	no	10.80
SW.150	Approved zinc plated steel adjuster clips.	no	0.60
SW.151	Approved zinc plated stove enamelled finished steel corner plates.	no	0.40
SW.152	Approved 6mm dia zinc plated hexagonal headed type steel bolts with nuts and washers.	no	0.50
SW.153	Approved 8mm dia zinc plated hexagonal headed type steel bolts with nuts and washers.	no	0.50
SW.154	Approved 8mm dia zinc plated or sheradized type steel bolts with nuts and washers.	no	0.30
SW.155	Approved 8mm dia high tensile type steel bolts with nuts and washers.	no	0.50
SW.156	Take out metal/timber windows, return to store or away and make good work disturbed.	sq m	7.20
SW.157	Take out, oil and refix metal/timber window (any type and size) and put to smooth working condition.	no	28.80
SW.158	Approved galvanised steel adjustable louvred window frame with 6mm thick clips to receive 150mm blades including screws to match (louvred measured separately), (control measured separately).	no	19.20
SW.159	Approved galvanised steel adjustable louvred window frame with 6mm thick clips to receive 150mm blades including screws to match (louvred measured separately). Extra over item for galvanised steel frame for each control mechanism.	no	1.80
SW.160	Approved galvanised steel adjustable louvred window frame with 6mm thick clips to receive 150mm blades including screws to match (louvred measured separately), Set of natural anodised frame control measured separately.	m	40.00
SW.161	Approved anodised bronze adjustable louvred window frame with 6mm thick clips to receive 150mm blades including screws to match (louvred measured separately), (control measured separately).	m	42.00
SW.162	Extra over for each control mechanism of approved galvanised steel adjust lourved window frame with natural anodised frame control measured separately.	m	2.40
SW.163	Extra over approved anodised bronze adjust lourved window frame with 6mm clips for each control mechanism.	m	2.40
SW.164	1.2mm thick natural anodised aluminium section frames in single light, complete with ironmongery, fixing straps, vinyl weather strips including building-in and pointing frame (glass measured separately) with sidehinged window and casement frames.	sq m	170.00
SW.165	1.2mm thick natural anodised aluminium section frames in single light, complete with ironmongery, fixing straps, vinyl weather strips including building-in and pointing frame (glass measured separately) with tophung window frame and sash.	sq m	197.90
SW.166	1.2mm thick natural anodised aluminium section frames in single light, complete with ironmongery, fixing straps, vinyl weather strips including building-in and pointing frame (glass measured separately) with sliding window frame and sash.	sq m	149.30

S/No	Description	Unit	Unit Cost (\$)
SW.167	1.2mm thick natural anodised aluminium section frames in single light, complete with ironmongery, fixing straps, vinyl weather strips including building-in and pointing frame (glass measured separately) with fixed window frame.	sq m	114.80
SW.168	10mm square mild steel burglar-proof bar fixed to holders of louvred window frames.	m	2.60
SW.169	12.5mm diameter aluminium burglar-proof bar fixed to holders of louvred window frames.	m	3.60
SW.170	1.00mm approved metal weather strips (any approved type and width) fixed to window cill.	m	3.00
SW.171	Take out existing timber or metal louvers (any size) from doors, windows, vents, louvred frames, etc and return to store or cart away as directed.	m	0.50
SW.172	Replace screws to louvred frames.	no	0.20
SW.173	Take out existing louvred window frames (any type and size), make good work disturbed and remove off site or set aside for re-use (excluding glass).	no	1.40
SW.174	Take out existing louvred window frames (any type and size), make good work disturbed and refix (excluding glass).	no	4.30
SW.175	Take out existing louvred window frame, ease, oil adjust and refix in position (excluding glass).	no	4.90
SW.176	1.5mm anodised aluminium louvred blades with stucco embossed pattern 100mm wide to 100mm wide clips of louvred frames or grooves in timber, with aluminium rivets or bolts and washers including preparing or cleaning clips or grooved and drilling.	m	7.20
SW.177	1.5mm anodised aluminium louvred blades with stucco embossed pattern 150mm wide to 150mm wide clips of adjustable louvred frames or grooves in timber, with aluminium rivets or bolts and washers including preparing or cleaning clips or grooved and drilling.	m	10.00
SW.178	Supply labour and material to fix aluminium louvred blades to existing louvred frames, including removing blades, drilling and fixing 4 rivets to each blade (rate per blade).	no	1.40
SW.179	Anodised bronze aluminium fixed louvers c/w anodised bronze aluminium frames.	sq m	234.80
SW.180	Sliding and folding door consisting of mild steel angle frames, infilled with 1.32mm mild steel plates and including welded brackets, etc riveting together and c/w approved sliding gear, track, guide, lock, hinges and all other necessary ironmongery and including one coat of inhibitive primer before delivery and two coats of enamel paint after installation.	sq m	226.50
SW.181	Approved mild steel collapsible gate cum folding door (1.5mm) c/w sliding gear, track, guide, lock, hinges and all other necessary accessories and including applying one coat of inhibitive primer before delivery and two coats of enamel paint after installation.	sq m	316.50
SW.182	Mild steel grilled door comprising of 25mm x 25mm x 2mm mild steel hollow section surround and 25mm x 6mm mild steel flat bar fixed vertically at not exceeding 500mm centre to centre and infill with 19mm x 6mm mild steel flat bars arranged diagonally at 80mm centre to centre, the whole fillet welded together, c/w hinges, approved lock, 25mm x 25mm x 3mm mild steel angle door frame and fixing frame to wall with holdfasts including all necessary welding and all other accessories, applying one coat of inhibitive primer before delivery and two coats of enamel paint after installation.	sq m	118.10

S/No	Description	Unit	Unit Cost (\$)
SW.183	Mild steel grilled door comprising of 25mm x 25mm x 2mm mild steel hollow section and fixed vertically at not exceeding 500mm centre to centre infill with 19mm x 6mm mild steel flat bars at 100mm centre to centre, the whole fillet welded together, c/w hinges, approved lock, 32mm x 32mm x 3mm mild steel angle door frame and fixing frame to wall with holdfasts including all necessary welding and all other accessories, applying one coat of inhibitive primer before delivery and two coats of enamel paint after installation.	sq m	121.40
SW.184	Mild steel sliding grilled door comprising of 25mm x 25mm x 2mm mild steel hollow section surround and 25mm x 6mm mild steel flat bars fixed vertically at not exceeding 500mm centre to centre and infill with 19mm x 6mm mild steel flat bars arranged diagonally at 80mm centre to centre, c/w approved lock, sliding track consisting 65mm x 38mm mild steel 'U' channel at the bottom, rollers and guides including 50mm x 50mm x 4mm mild steel hollow section door frame and fixing frame to wall with holdfast or approved bolts, including whole welding and all other necessary accessories, applying one coat of inhibitive primer before delivery and two coats of enamel paint after installation.	sq m	132.00
SW.185	Mild steel sliding grilled door comprising of 38mm x 38mm x 3mm mild steel hollow section surround and infill with 19mm x 4.5mm flat bars bent to approved ornamental shape or design c/w approved lock, sliding track, rollers and guides including 38mm x 38mm x 3mm thick mild steel angle door frame and fixing frame to wall with holdfasts or approved bolts, including whole welding and all other necessary accessories, applying one coat of inhibitive primer before delivery and two coats of enamel paint after installation.	sq m	156.00
SW.186	Mild steel sliding grilled door comprising of 38mm x 38mm x 3mm thick mild steel hollow section surround 25mm x 6mm flat bar fixed vertically at not exceeding 600mm centre to centre and infill with 19mm x 6mm flat bars at 80mm centre to centre, the whole fillet welded together c/w approved lock, sliding track consisting of 65mm x 38mm 'U' channel at the top and 36mm x 19mm hollow section at the bottom, roller and guides including 38mm x 38mm x 3mm thick mild steel angle door frame and fixing frame to wall with holdfasts or approved bolts, including whole welding and all other necessary accessories, applying one coat of inhibitive primer before delivery and two coats of enamel paint after installation.	sq m	199.50
SW.187	Mild steel sliding grilled door comprising of 25mm x 25mm x 3mm thick mild steel hollow section surround, 25mm x 6mm flat bar fixed vertically at not exceeding 600mm centre to centre and infill with 10mm x 10mm square bars arranged diagonally at 80mm centre to centre, the whole fillet welded together c/w lock, sliding track, rollers and guides including 25mm x 25mm x 3mm thick hollow section door frames and fixing frame to wall with holdfasts or approved bolts, including whole welding and all other necessary accessories, applying one coat of inhibitive primer before delivery and two coats of enamel paint after installation.	sq m	140.30
SW.188	Mild steel grilles comprising of mild steel flat bars surround and fixed vertically not exceeding 500mm centre to centre and infilled with square bars arranged diagonally at 80mm centre to centre and including whole welding, fixing to woodwork, brickwork, concrete work or counter top etc applying one coat of inhibitive primer before delivery and two coats of enamel paint after installation	sq m	99.90

S/No	Description	Unit	Unit Cost (\$)
SW.189	Mild steel grilles comprising of 25mm x 6m mild steel flat bars surround and infill with 19mm x 4.5mm mild steel flat bars bent to approved ornamental shape or design and including whole welding, fixing to woodwork, brickwork, concrete work or counter top etc applying one coat of inhibitive primer before delivery and two coats enamel paint after installation.	sq m	101.00
SW.190	Mild steel grilles comprising of 25mm x 6mm mild steel flat bar surround and 20mm x 4.5mm mild steel flat bar fixed vertically at not exceeding 350mm centre to centre and horizontally at 105mm centre to centre and including whole welding, fixing to woodwork, brickwork, concrete work or counter top etc applying one coat of inhibitive primer before delivery and two coats enamel paint after installation.	sq m	98.00
SW.191	Mild steel grilles comprising of 19mm x 6.4mm mild steel bar fixed vertically at 120mm centre to centre and horizontally at 300mm centre to centre and including whole welding, fixing to woodwork, brickwork, concrete work, etc. with 6mm diameter x 50mm retraction bolt place at 300mm centre to centre, applying one coat of inhibitive primer and two coats enamel paint.	sq m	171.60
SW.192	Mild steel grilles comprising of 17mm x 4mm mild steel flat bars surround and fixed vertically at not exceeding 750mm centre to centre and infilled with 17mm x 4mm mild steel flat bar arranged diagonally at 82mm centre to centre and including whole welding, fixing to woodwork, brickwork, concrete work or counter top etc, applying one coat of inhibitive primer and two coats enamel paint.	sq m	82.50
SW.193	Mild steel grilles comprising of 15mm x 4.5mm mild steel flat bars surround and infill with 15mm x 4.5mm bent to approved ornamental shape or design and including whole welding, fixing to woodwork, brickwork, concrete work or counter top etc, applying one coat of inhibitive primer and two coats enamel paint.	sq m	127.10
SW.194	Gauge 18 aluminium ornamental grilles consisting of not exceeding 76mm x 44mm hollow section surround and 19mm x 3mm infilling bent to approved ornamental shape or design including all necessary welding and fixing to woodwork, brickwork, concrete work or counter top etc.	sq m	101.60
SW.195	Supply and install fixed bronze anodised aluminium grille comprising of 30mm x 30mm hollow section framing and 12mm x 10mm Amplimesh '103'/'104' including U-channel edging and rivets.	sq m	170.40
SW.196	Supply and install bronze anodised aluminium sliding grille comprising of aluminium hollow section framing and 12mm x 10mm Amplimesh '103'/'104' including approved lock, track, roller guides and all necessary accessories.	sq m	189.60
SW.197	Supply and install bronze anodised aluminium sliding door comprising of hollow section framing and 12mm x 10mm Amplimesh '103'/'104' including cylinder lock, track, roller guides and all necessary accessories.	sq m	260.90
SW.198	Supply and install bronze anodised aluminium door comprising hollow section and Amplimesh '103'/'104' including door frame and approved lock.	sq m	227.90
SW.199	Supply and install fixed natural anodised aluminium grille comprising of 30mm x 30mm hollow section framing and Amplimesh '103'/'104' including U-channel edging and rivets.	sq m	144.00
SW.200	Take out existing metal grilles, railing, window guards etc including fillets and remove off site or to store or stack for re-use.	sq m	5.40
SW.201	Take from stack existing metal grilles, railing, window guards etc. including fillets and refix to concrete , brickwork or timberwork.	sq m	8.60
SW.202	Take down existing heavy duty cast iron grilled railing (any pattern or type) including hackin concrete hardstanding and remove to store or remove off site or stack aside for re-use.	sq m	10.30

S/No	Description	Unit	Unit Cost (\$)
SW.203	Take from stack ditto and refix to concrete work, brickwork, or timberwork including excavation, formwork and concrete if necessary hoisting and propping up in position. (NOTE: Take down weldmesh - measured separately).	sq m	12.40
SW.204	50mm diameter tubular mild steel handrail or bottom rail welded to baluster including running joint.	m	18.00
SW.205	Extra over for bend for 50mm diameter tubular mild steel handrail or bottom rail welded to baluster including running joint.	no	11.70
SW.206	Extra over for ramp for 50mm diameter tubular mild steel handrail or bottom rail welded to baluster including running joint.	no	5.70
SW.207	Extra over for knee for 50mm dia tubular mild steel handrail or bottom rail welded to baluster running joint for knee.	no	5.70
SW.208	38mm diameter x 900mm long mild steel baluster welded on to pipe rail, one end split and cast into concrete stringer and grouted in cement mortar (1:3).	no	18.00
SW.209	20mm x 5mm mild steel baluster 600mm long welded to pipe rails.	no	3.50
SW.210	Remove existing plain or chequered metal plate as treads in staircase and prepare to receive new works.	no	8.10
SW.211	Demountable partition framing (for full height lining) with an overall thickness of not more than 75mm, comprising of mild steel studs or galvanised iron studs with exposed anodised aluminium framing placed at 600mm centre at both ways,, corner and end posts, anodised aluminium ceiling and floor tracks c/w approved vinyl insert, aluminium door frames, if any, 100mm (max.) high aluminium skirting and other recommended accessories (Lining measure separately).	sq m	30.00
SW.212	Demountable partition framing (for full height lining) with an overall thickness of not more than 75mm, comprising of mild steel studs or galvanised iron studs with exposed anodised aluminium framing placed at 600mm centre at both ways,, corner and end posts, anodised aluminium ceiling and floor tracks c/w approved vinyl insert, aluminium door frames, if any, 100mm (max.) high aluminium skirting and other recommended accessories but with fanlight (lining and glass measured separately).	sq m	34.90
SW.213	Demountable partition framing (for full height lining) with an overall thickness of not more than 75mm, in two panel with top or both panels open to receive glass and bottom panel open to receive lining and fixed c/w approved vinyl insert, 100mm (max.) high aluminium skirting, door frames, if any, transome and other recommended accessories. (Lining and glass measured separately).	sq m	34.90
SW.214	Demountable partition framing (for full height lining) with an overall thickness of not more than 75mm, in two panel with top or both panels open to receive glass and bottom panel open to receive lining and fixed c/w approved vinyl insert, 100mm (max.) high aluminium skirting, door frames, if any, transome and other recommended accessories with fanlight. (Lining and glass measured separately).	sq m	42.20
SW.215	Supply and install 75mm thk demountable wall partition consisting of 13mm thick non combustible gypsum boards on both sides filled with 50mm thk fibreglass wool complete both sides filled with aluminium binding sections,stud framings,skirtings and all fixing accessories and painting with 3 coats of approved acrylic emulsion paint on both sides of partition.(Door and door frames are measured separately).	sq m	58.00

S/No	Description	Unit	Unit Cost (\$)
SW.216	Supply and install 75mm thk demountable wall partition consisting of 13mm thick non combustible gypsum boards on both sides filled with 50mm thk fibreglass wool complete both sides filled with aluminium binding sections,stud framings,skirtings and all fixing accessories and painting with 3 coats of approved acrylic emulsion paint on both sides of partition with 400mm high fanlight and including clear sheet glass.(Door and door frames are measured separately).	sq m	64.00
SW.217	Supply and install 75mm thk demountable wall partition consisting of 6mm thick non combustible calcium silicate boards on both sides filled with 50mm thk fibreglass wool with density of 60kg/m3 complete both sides filled with aluminium binding sections, stud.	sq m	58.00
SW.218	Supply and install 75mm thk demountable wall partition consisting of 6mm thick non combustible calcium silicate boards on both sides filled with 50mm thk fibreglass wool with density of 60kg/m3 complete both sides filled with aluminium binding sections, stud.	sq m	64.00
SW.219	Taken down demountable aluminium framing partition including door and glass, if any, remove to store or stack aside for re-use or remove off site and make good area disturbed.	sq m	8.40
SW.220	Take from stack and refix in position demountable aluminium partition including door and providing all necessary accessories, vinyl insert, screws, etc.	sq m	17.80
SW.221	Repair existing demountable aluminium partition including replacing vinyl insert and accessories to match existing (Lining measured separately).	sq m	14.20
SW.222	Form opening on demountable partition (minimum 1 square metre).	sq m	8.60
SW.223	Aluminium door frame and fixing to demountable partition (Timber door is measured separately).	no	72.00
SW.224	Vinyl 'U' shaped gasket to receive glass in new or in replacement including taking out existing and making good surround.	m	0.50
SW.225	75mm high black vinyl skirting to demountable partition including adhesive.	m	2.20
SW.226	100mm high black vinyl skirting to demountable partition including adhesive.	m	2.60
SW.227	Supply and lay medium duty vinyl or fabric covering including preparation of surface to receive wall covering and all fixing accessories.	sq m	13.20
SW.228	Supply labour and compatible adhesive for fixing decorative fabric/vinyl paper to wall including cutting border, strips corner and motice to profile for fixing.	m	5.00
SW.229	65mm high bronze anodised aluminium skirting to demountable partition.	m	4.80
SW.230	100mm high natural anodised aluminium skirting with vinyl insert to demountable aluminium partition.	m	5.00
SW.231	100mm high anodised natural anodised aluminium skirting with vinyl insert to demountable aluminium partition but in replacement including taking down existing and removing off site.	m	5.50
SW.232	Replace missing or defective vinyl glazing gasket or vinyl insert for aluminium partition stud or skirting.	m	1.40
SW.233	Extra over demountable partition for 40mm thk single leaf flush door with anodised aluminium edging and with or without glazed peephole (ironmongery measured separately). Covered on both sides with and including 13mm thk plain gypsum board finished with 2 coats of emulsion paint.	sq m	119.60
SW.234	Extra over demountable partition for 40mm thk single leaf flush door with anodised aluminium edging and with or without glazed peephole (ironmongery measured separately). Covered on both sides with and including 13mm thk Vinyl faced gypsum board.	sq m	134.50



S/No	Description	Unit	Unit Cost (\$)
SW.235	Extra over demountable partition for 40mm thk single leaf flush door with anodised aluminium edging and with or without glazed peephole (ironmongery measured separately). Covered on both sides with and including 6mm thk teak veneered plywood.	sq m	119.60
SW.236	Extra over demountable partition for 40mm thk single leaf flush door with anodised aluminium edging and with or without glazed peephole but with louvred vent not exceeding 0.50sq m (ironmongery measured separately). Covered on both sided with and including 13mm thk plain gypsum board finished with 2 coats of emulsion paint.	sq m	167.40
SW.237	Extra over demountable partition for 40mm thk single leaf flush door with anodised aluminium edging and with or without glazed peephole but with louvred vent not exceeding 0.50sq m (ironmongery measured separately). Covered on both sides with and including 13mm thk Vinyl faced gypsum board.	sq m	197.20
SW.238	Extra over demountable partition for 40mm thk single leaf flush door with anodised aluminium edging and with or without glazed peephole but with louvred vent not exceeding 0.50sq m (ironmongery measured separately). Covered on both sides with and including 6mm thk teak veneered plywood.	sq m	167.40
SW.239	Extra over demountable partition for 40mm thk double leaf flush door with anodised aluminium edging and with or without glazed peephole (ironmongery measured separately). Covered on both sided with and including 13mm thk plain gypsum board finished with 2 coats of emulsion paint.	sq m	191.30
SW.240	Extra over demountable partition for 40mm thk double leaf flush door with anodised aluminium edging and with or without glazed peephole (ironmongery measured separately). Covered on both sides with and including 13mm thk Vinyl faced gypsum board.	sq m	203.20
SW.241	Extra over demountable partition for 40mm thk double leaf flush door with anodised aluminium edging and with or without glazed peephole (ironmongery measured separately). Covered on both sides with and including 6mm thk teak veneered plywood.	sq m	191.30
SW.242	Extra over demountable partition for 40mm thk panelled door, top panel opened to receive glass (rate for glass included) and bottom panel to receive lining including vinyl glazing gasket (ironmongery measured separately). Covered on both sided with and including 13mm thk plain gypsum board finished with 2 coats of emulsion paint.	sq m	179.40
SW.243	Extra over demountable partition for 40mm thk panelled door, top panel opened to receive glass (rate for glass included) and bottom panel to receive lining including vinyl glazing gasket (ironmongery measured separately). Covered on both sides with and including 13mm thk Vinyl faced gypsum board.	sq m	203.20
SW.244	Extra over demountable partition for 40mm thk panelled door, top panel opened to receive glass (rate for glass included) and bottom panel to receive lining including vinyl glazing gasket (ironmongery measured separately). Covered on both sides with and including 6mm thk teak veneered plywood.	sq m	179.40
SW.245	Take down door from demountable aluminium partition , remove to store or remove off site or stack aside for re-use and make good surround	no	5.80
SW.246	Hang existing door to demountable aluminium partition including replacing accessories to match existing (Ironmongery measured separately).	no	14.40
SW.247	1 hour rated steel fire door 1200 x 2100 x 47mm thick, single leaf, Polynorm complying with SS 332 complete with fire proofed cylinder lockset, stainless steel ball bearing hinges, flush bolt, door closer and frame.	no	1,471.50

S/No	Description	Unit	Unit Cost (\$)
SW.248	1 hour rated steel fire door 1200 x 2100 x 47mm thick, single leaf, Pyropanel complying with SS 332 complete with fire proofed cylinder lockset, stainless steel ball bearing hinges, flush bolt, door closer and frame.	no	1,728.00
SW.249	1 hour rated steel fire door 2400 x 2100 x 47mm thick, double leaf, Polynorm complying with SS 332 complete with fire proofed cylinder lockset, stainless steel ball bearing hinges, flush bolt, door closer and frame.	no	2,719.50
SW.250	1 hour rated steel fire door 2400 x 2100 x 47mm thick, double leaf, Pyropanel complying with SS 332 complete with fire proofed cylinder lockset, stainless steel ball bearing hinges, flush bolt, door closer and frame.	no	3,144.00
SW.251	2 hour rated steel fire door 1200 x 2100 x 48mm thick, single leaf, Polynorm complying with SS 332 complete with fire proofed cylinder lockset, stainless steel ball bearing hinges, flush bolt, door closer and frame.	no	1,945.00
SW.252	2 hour rated steel fire door 1200 x 2100 x 48mm thick, single leaf, Pyropanel complying with SS332 complete with fire proofed cylinder lockset, stainless steel ball bearing hinges, flush bolt, door closer and frame.	no	1,885.50
SW.253	2 hour rated steel fire door 2400 x 2100 x 48mm thick, double leaf, Polynorm complying with SS 332 complete with fire proofed cylinder lockset, stainless steel ball bearing hinges, flush bolt, door closer and frame.	no	2,878.50
SW.254	2 hour rated steel fire door 2400 x 2100 x 48mm thick, double leaf, Pyropanel complying with SS 332 complete with fire proofed cylinder lockset, stainless steel ball bearing hinges, flush bolt, door closer and frame.	no	3,303.00
SW.255	1/2 hour rated steel fire door 1000 x 2250 x 45mm thick, single leaf, Polynorm complying with SS 332 complete with fire proofed cylinder lockset, stainless steel ball bearing hinges, flush bolt, door closer and frame.	no	800.00
SW.256	1 hour rated steel fire door 1800 x 2250 x 45mm thick, double leaf, Polynorm complying with SS 332 complete with fire proofed cylinder lockset, stainless steel ball bearing hinges, flush bolt, door closer and frame.	no	1,600.00
SW.257	Steel Flush door 1800x2380x45mm thk,double leaf with 1800x340 top panel complete with ironmongery	no	2,000.00
SW.258	Heavy duty natural anodised louvred doors comprising of 50mm x 45mm x 1.83mm thick aluminium vertical stiles, 80mm x 45mm x 2.3mm thick aluminium top and centre rails, 50mm x 45mm x 2.3mm thick aluminium bottom rail, 75mm girth x 3mm thick aluminium louvred blade infill, 38mm x 3mm thick aluminium bracing c/w approved hinges, 150mm bolts and heavy duty hasp and staple including 102mm x 50mm x 3mm thick and 50mm x 25mm x 2mm thick aluminium hollow section door frame and fixed frame to wall.	sq m	418.00
SW.259	Heavy duty anodised bronze aluminium louvred doors comprising of 50mm x 45mm x 1.83mm thick aluminium vertical stiles, 80mm x 45mm x 2.3mm thick aluminium top and centre rails, 50mm x 45mm x 2.3mm thick aluminium bottom rail, 75mm girth x 3mm thick aluminium louvred blade infill, 38mm x 3mm thick aluminium bracing c/w approved hinges, 150mm bolts and heavy duty hasp and staple including 102mm x 50mm x 3mm thick and 50mm x 25mm x 2mm thick aluminium hollow section door frame and fixed frame to wall.	sq m	448.80
SW.260	Aluminium sliding door (approved thickness) in single or multiple leaves with anodised natural satin matt finish framing, in one panel and with vinyl glazing gasket to receive glass, c/w door frame including waterproof cement fillet, vinyl weather strip all round, tracks, channels, nylon rollers, guides, concealed hook, cylinder lock operated by latch or by key and all necessary accessories (Glass measured separately).	sq m	154.60

S/No	Description	Unit	Unit Cost (\$)
SW.261	Aluminium sliding door (approved thickness) in single or multiple leaves with anodised natural satin matt finish framing, in two panels and with vinyl glazing gasket to receive glass, c/w door frame including waterproof cement fillet, vinyl weather strip all round, tracks, channels, nylon rollers, guides, concealed hook, cylinder lock operated by latch or by key and all necessary accessories (Glass measured separately).	sq m	157.60
SW.262	Take down existing aluminium sliding door complete, remove off site or stack aside for re-use and make good area disturbed.	sq m	29.30
SW.263	Take out swing door if necessary, replace hydraulic oil in the mechanism box and rehang (rate per leaf).	no	58.40
SW.264	Adjust, ease, oil and make good track, frame, etc for aluminium sliding door (any thickness) and including replacing any missing or damaged rollers and guide, taking out door and re-hanging if necessary (rate per leaf).	no	46.60
SW.265	Take out glass door (any type and size), refit patch, fitting & rehang glass door & realignment (rate per leaf).	no	120.00
SW.266	Adjust, ease, oil and make good track, frame, etc for aluminium swing door including replacing any missing or damage top centre do (rate per leaf).	no	46.60
SW.267	Anodised aluminium glazed swing door and frame 75mm x 40mm thick door surround with weather strip all round and gasket to receive glass c/w necessary floor spring, lock and 200mm high push/pull plate (Glass measured separately).	sq m	240.00
SW.268	Anodised aluminium glazed swing door and frame 100mm x 40mm thick door surround with weather strip all round and gasket to receive glass c/w necessary floor spring, lock and 200mm high push/pull plate (Glass measured separately).	sq m	274.80
SW.269	Anodised aluminium framed partition divided into one or multiple panels and fanlights and comprising 75 x 40mm studs placed at not more than 1200mm centre c/w weather strip all round, gasket to receive glass and 100mm high aluminium skirting (Glass measured separately).	sq m	116.20
SW.270	Anodised aluminium framed partition divided into one or multiple panels and fanlights and comprising 100 x 40mm studs placed at not more than 1200mm centre c/w weather strip all round, gasket to receive glass and 100mm high aluminium skirting (Glass measured separately).	sq m	145.90
SW.271	Anodised aluminium framed partition divided into one or multiple panels and fanlights and comprising 75 x 40mm studs including aluminium fascia (Glass measured separately).	sq m	149.50
SW.272	Aluminium framed partition with fixed glazed panel as before described each with 200mm high transome, including top fixed light, fanlight and one or multiple leaves of standard swing doors, each with 200mm high push/pull plates on both sides and with weather strips all round c/w approved floor spring and lock. (Glass measured separately).	sq m	120.70
SW.273	Anodised bronze aluminium glazed swing door c/w door frame including weather strips, gasket, floor spring, lock and push/pull plate. (Glass measured separately).	sq m	404.40
SW.274	Bronze aluminium sliding door in single or multiple leaves with bronze anodised material satin matt finished framing and vinyl glazing gasket to receive glass, c/w door frame including waterproof cement fillet, vinyl weather strip all round, tracks, channels, rollers, guides, concealed hook, cylinder lock operated by latch or by key and all other necessary accessories (Glass measured separately).	sq m	153.10

S/No	Description	Unit	Unit Cost (\$)
SW.275	Approved aluminium sliding casement with 75mm x 50mm anodised natural satin matt finished framing in one panel opened and with vinyl glazing gaskets to receive glazing c/w casement frame including waterproof cement fillet, vinyl weather strip, tracks, channels, nylon rollers, guides, zinc casting casement catch or lock with key and all other necessary accessories (Glass measured separately).	sq m	105.10
SW.276	Approved bronze anodised aluminium sliding window with 75mm x 50mm anodised natural satin matt finished framing in one panel opened and with vinyl glazing gaskets to receive glazing c/w casement frame including waterproof cement fillet, vinyl weather strip, tracks, channels, nylon rollers, guides, zinc casting casement catch or lock with key and all other necessary accessories (Glass measured separately).	sq m	126.80
SW.277	Approved aluminium side hung window with anodised natural satin matt finished framing with vinyl glazing gaskets to receive glazing c/w casement frame including waterproof cement fillet, vinyl weather strip, zinc casting casement catch or lock with key and all other necessary accessories (Glass measured separately).	sq m	132.00
SW.278	Approved bronze anodised aluminium side hung window with anodised natural satin matt finished framing with vinyl glazing gaskets to receive glazing c/w casement frame including waterproof cement fillet, vinyl weather strip, zinc casting casement catch or lock with key and all other necessary accessories (Glass measured separately).	sq m	189.10
SW.279	Take down approved bronze anodised aluminium side hung window complete, remove off site and make good area disturbed.	sq m	17.30
SW.280	Anodised aluminium fixed panel comprising of 75mm x 50mm anodised aluminium hollow section surround and fixed vertically at not exceeding 900mm centre to centre c/w beading and glazing gaskets to receive glazing (Glass measured separately).	sq m	79.20
SW.281	Anodised bronze aluminium fixed panel comprising of 75mm x 50mm anodised bronze aluminium hollow section surround and fixed vertically at not exceeding 900mm centre to centre c/w beading and glazing gaskets to receive glazing (Glass measured separately).	sq m	103.20
SW.282	Anodised aluminium fixed panel comprising of 100mm x 50mm anodised aluminium hollow section surround and fixed vertically at not exceeding 900mm centre to centre c/w glazing gaskets to receive glazing (Glass measured separately).	sq m	92.40
SW.283	Anodised bronze aluminium fixed panel comprising of 100mm x 50mm anodised aluminium hollow section surround and fixed vertically at not exceeding 900mm centre to centre c/w glazing gaskets to receive glazing (Glass measured separately).	sq m	113.50
SW.284	Supply and fix 50 x 100 x 3mm powder coated door frame of size 1000mm wide x 2400mm high	set	240.00
SW.285	Supply and fix 50 x 100 x 3mm powder coated door frame of size 1250mm wide x 2400mm high.	set	300.00
SW.286	Supply and fix 50 x 100 x 3mm powder coated door frame of size 2000mm wide x 2400mm high.	set	336.00
SW.287	Approved aluminium top-hung window with anodised natural satin matt finished framing with vinyl glazing gaskets, c/w casement frame including waterproof cement fillet, vinyl weather strip, zinc casting casement catch and all other necessary accessories (glass measured separately). Overall not exceeding 0.40sq m.	sq m	340.10

S/No	Description	Unit	Unit Cost (\$)
SW.288	Approved aluminium top-hung window with anodised natural satin matt finished framing with vinyl glazing gaskets, c/w casement frame including waterproof cement fillet, vinyl weather strip, zinc casting casement catch and all other necessary accessories (glass measured separately). Overall exceeding 0.40sq m but not exceeding 1.10sq m.	sq m	243.80
SW.289	Approved aluminium top-hung window with anodised natural satin matt finished framing with vinyl glazing gaskets, c/w casement frame including waterproof cement fillet, vinyl weather strip, zinc casting casement catch and all other necessary accessories (glass measured separately). Overall exceeding 1.10sq m.	sq m	206.60
SW.290	Bronze aluminium top-hung window with bronze anodised natural satin matt finished framing with vinyl glazing gaskets, c/w casement frame including waterproof cement fillet, vinyl weather strip, casement catch and all other necessary accessories (glass measured separately). Overall not exceeding 0.40sq m.	sq m	356.40
SW.291	Bronze aluminium top-hung window with bronze anodised natural satin matt finished framing with vinyl glazing gaskets, c/w casement frame including waterproof cement fillet, vinyl weather strip, casement catch and all other necessary accessories (glass measured separately). Overall exceeding 0.40sq m but not exceeding 1.10sq m.	sq m	261.40
SW.292	Bronze aluminium top-hung window with bronze anodised natural satin matt finished framing with vinyl glazing gaskets, c/w casement frame including waterproof cement fillet, vinyl weather strip, casement catch and all other necessary accessories (glass measured separately). Overall exceeding 1.10sq m.	sq m	223.20
SW.293	Supply and install sunbreaker comprising of 18 SWG (1.22mm) fixed plain or extruded aluminium louvres 100mm wide, bent as necessary with all edges beaded, soldered fixed at 60 degrees to and including 75mm x 25mm aluminium hollow section surround and mullions consisting of 75mm x 45mm 'U' channel fixed to 75mm x 45mm aluminium hollow section at not exceeding 900mm centre to centre.	sq m	195.60
SW.294	Take out existing louvred blades from sunbreaker, remove off site and replace blades to match existing (Rate per length of blade).	m	7.80
SW.295	Remove off site existing sunbreaker including frames, struts etc and make good work disturbed.	sq m	2.50
SW.296	Supply and install approved aluminium sunbreaker comprising of baked enamelled louvred panels(0.6mm thick) and stringers, c/w anodised aluminium hollow section frames and struts, wall brackets, approved bolts, screws, etc and all other necessary accessories. Area not exceeding 50sq m.	sq m	128.30
SW.297	Supply and install approved aluminium sunbreaker comprising of baked enamelled louvred panels(0.6mm thick) and stringers, c/w anodised aluminium hollow section frames and struts, wall brackets, approved bolts, screws, etc and all other necessary accessories. Area exceeding 50sq m but not exceeding 100sq m.	sq m	114.00
SW.298	Supply and install approved aluminium sunbreaker comprising of baked enamelled louvred panels(0.6mm thick) and stringers, c/w anodised aluminium hollow section frames and struts, wall brackets, approved bolts, screws, etc and all other necessary accessories. Area exceeding 100sq m but not exceeding 500sq m.	sq m	107.30
SW.299	Supply and install approved aluminium sunbreaker comprising of baked enamelled louvred panels(0.6mm thick) and stringers, c/w anodised aluminium hollow section frames and struts, wall brackets, approved bolts, screws, etc and all other necessary accessories. Area not exceeding 500sq	sq m	99.80

S/No	Description	Unit	Unit Cost (\$)
	m.		
SW.300	Supply and install approved aluminium sunbreaker comprising of extruded aluminium louvred panels (0.6mm thick) c/w anodised aluminium frames, profile cap, panel lock brackets lock, panel bracket and all other necessary accessories. Area not exceeding 50sq m.	sq m	262.00
SW.301	Supply and install approved aluminium sunbreaker comprising of extruded aluminium louvred panels (0.6mm thick) c/w anodised aluminium frames, profile cap, panel lock brackets lock, panel bracket and all other necessary accessories. Area exceeding 50sq m but not exceeding 100sq m.	sq m	199.60
SW.302	Supply and install approved aluminium sunbreaker comprising of extruded aluminium louvred panels (0.6mm thick) c/w anodised aluminium frames, profile cap, panel lock brackets lock, panel bracket and all other necessary accessories. Area exceeding 100sq m but not exceeding 500sq m.	sq m	187.10
SW.303	Supply and install approved aluminium sunbreaker comprising of extruded aluminium louvred panels (0.6mm thick) c/w anodised aluminium frames, profile cap, panel lock brackets lock, panel bracket and all other necessary accessories. Area exceeding 500sq m.	sq m	174.60
SW.304	Supply and install aluminium ceiling comprising of aluminium panels of 0.5mm thick in baked enamel coating, V5 aluminium carrier, black infill and all necessary fixing accessories.	sq m	78.10
SW.305	Approved manually operated self-coiling natural finished aluminium roller shutter (fixed at bookshop, workshop, etc) of not less than 1.22mm interlocking latches c/w spring barrel assembly on top, bolted to concrete lintel and encased with not less than 1.0mm sheet including guides and brackets to concrete, fitting with 2 Nos. brass slip bolts at both ends of bottom rail with (Extreme size of openings shall be measured).	sq m	173.50
SW.306	Provide opening in above item and including wicket door hinged to brickwork, concrete work, etc and all necessary ironmongery (padlock measured separately) (Extreme size of openings measured).	sq m	252.00
SW.307	Take out and repair existing aluminium or other metal roller shutter including replacing missing rollers, overhanging gears, tracks, oiling to working condition and refixing shutter in position. Overall size not exceeding 4m x 4m.	no	234.00
SW.308	Take out and repair existing aluminium or other metal roller shutter including replacing missing rollers, overhanging gears, tracks, oiling to working condition and refixing shutter in position. Overall size exceeding 4m x 4m.	sq m	16.80
SW.309	Take out existing roller shutter complete, remove off site or set aside for re-use and make good work disturbed.	no	111.60
SW.310	Fix only roller shutter in position as directed including providing minor accessories.	sq m	55.80
SW.311	Supply and install approved manually operated type bronze anodised aluminium roller shutter c/w guides. lock accessories, etc (Extreme size of openings shall be measured).	sq m	208.30
SW.312	Supply and install approved manually operated type colour powder coated aluminium roller shutter c/w guides. lock accessories, etc (Extreme size of openings shall be measured).	sq m	276.00

S/No	Description	Unit	Unit Cost (\$)
SW.313	Supply and install approved chain operated colour powder coated aluminium roller shutter c/w guides, 3 phase gear motor with safety chain, limit switch, push button, accessories, etc.	sq m	372.00
SW.314	Replacement of metal U-channel track including removal and making good work disturbed (Take down doors to be measured separately).	m	8.40
SW.315	1.0mm rolled aluminium sheet panelling well lapped at joint and fixed to hollow section railing with stainless steel self tapping screws, as fascia, railing, etc including all cutting, waste and drilling. (Measured nett) (No allowance made for laps).	sq m	240.00
SW.316	Take down aluminium weather fascia board and remove off site or stack for re-use.	sq m	0.70
SW.317	Refix aluminium weather fascia board including supplying new screws, cutting damaged and preparing edge to receive new.	sq m	15.40
SW.318	(1.32mm) anodised aluminium section cut to 19mm x 19mm hollow section, fixed to brickwork, concrete work, etc including bending, welding and drilling holes etc.	m	5.60
SW.319	(1.32mm) anodised aluminium section cut to 25mm x 13mm hollow section, fixed to brickwork, concrete work, etc including bending, welding and drilling holes etc.	m	5.60
SW.320	(1.32mm) anodised aluminium section cut to 38mm x 25mm hollow section, fixed to brickwork, concrete work, etc including bending, welding and drilling holes etc.	m	7.60
SW.321	(1.32mm) anodised aluminium section cut to 50mm x 25mm hollow section , fixed to brickwork, concrete work, etc including bending, welding and drilling holes etc.	m	8.30
SW.322	(1.32mm) anodised aluminium section cut to 75mm x 25mm hollow section, fixed to brickwork, concrete work, etc including bending, welding and drilling holes etc.	m	10.40
SW.323	(1.32mm) anodised aluminium section cut to 75mm x 50mm hollow section fixed to brickwork, concrete work, etc including bending, welding and drilling holes etc.	m	16.80
SW.324	(1.32mm) anodised aluminium section cut to 100mm x 25mm hollow section, fixed to brickwork, concrete work, etc including bending, welding and drilling holes etc.	m	13.20
SW.325	(1.32mm) anodised aluminium section cut to 100mm x 40mm hollow section, fixed to brickwork, concrete work, etc including bending, welding and drilling holes etc.	m	17.40
SW.326	(1.32mm) anodised aluminium section cut to 25mm x 25mm hollow section, fixed to brickwork, concrete work, etc including bending, welding and drilling holes etc.	m	6.50
SW.327	(1.32mm) anodised aluminium section cut to 75mm x 75mm hollow section, fixed to brickwork, concrete work, etc including bending, welding and drilling holes etc.	m	19.70
SW.328	(1.32mm) anodised aluminium section cut to 25mm x 20mm bead, fixed to brickwork, concrete work, etc including bending, welding and drilling holes etc.	m	4.20
SW.329	(1.32mm) anodised aluminium section cut to 6mm x 6mm channel, fixed to brickwork, concrete work, etc including bending, welding and drilling holes etc.	m	3.80
SW.330	(1.32mm) anodised aluminium section cut to 10mm x 10mm channel, fixed to brickwork, concrete work, etc including bending, welding and drilling holes etc.	m	4.00
SW.331	(1.32mm) anodised aluminium section cut to 13mm x 13mm channel, fixed to brickwork, concrete work, etc including bending, welding and drilling	m	4.20

S/No	Description	Unit	Unit Cost (\$)
	holes etc.		
SW.332	(1.32mm) anodised aluminium section cut to 16mm x 16mm channel, fixed to brickwork, concrete work, etc including bending, welding and drilling holes etc.	m	4.80
SW.333	(1.32mm) anodised aluminium section cut to 19mm x 19mm channel, fixed to brickwork, concrete work, etc including bending, welding and drilling holes etc.	m	5.00
SW.334	(1.32mm) anodised aluminium section cut to 25mm x 25mm channel, fixed to brickwork, concrete work, etc including bending, welding and drilling holes etc.	m	5.80
SW.335	(1.32mm) anodised aluminium section cut to 50mm x 25mm channel, fixed to brickwork, concrete work, etc including bending, welding and drilling holes etc.	m	7.70
SW.336	(1.32mm) anodised aluminium section cut to 75mm x 25mm channel, fixed to brickwork, concrete work, etc including bending, welding and drilling holes etc.	m	10.00
SW.337	(1.32mm) anodised aluminium section cut to 82mm x 31mm x 75mm deep shoe, fixed to brickwork, concrete work, etc including bending, welding and drilling holes etc.	no	5.30
SW.338	(1.32mm) anodised aluminium section cut to 100mm skirting including rubber insert, fixed to brickwork, concrete work, etc including bending, welding and drilling holes etc.	m	8.90
SW.339	(1.32mm) anodised aluminium section cut to 63mm skirting including rubber insert, fixed to brickwork, concrete work, etc including bending, welding and drilling holes etc.	m	7.00
SW.340	(1.32mm) anodised aluminium section cut to UN 2 x 6mm deep strips including rubber insert, fixed to brickwork, concrete work, etc including bending, welding and drilling holes etc.	m	5.60
SW.341	(1.32mm) anodised aluminium section cut to UN 2 x 9mm deep strips including rubber insert, fixed to brickwork, concrete work, etc including bending, welding and drilling holes etc.	m	5.80
SW.342	(1.32mm) anodised aluminium section cut to 10mm x 10mm angle, fixed to brickwork, concrete work, etc including bending, welding and drilling holes etc.	m	3.70
SW.343	(1.32mm) anodised aluminium section cut to 13mm x 13mm angle, fixed to brickwork, concrete work, etc including bending, welding and drilling holes etc.	m	4.10
SW.344	(1.32mm) anodised aluminium section cut to 16mm x 16mm angle, fixed to brickwork, concrete work, etc including bending, welding and drilling holes etc.	m	4.20
SW.345	(1.32mm) anodised aluminium section cut to 19mm x 19mm angle, fixed to brickwork, concrete work, etc including bending, welding and drilling holes etc.	m	4.30
SW.346	(1.32mm) anodised aluminium section cut to 25mm x 25mm angle, fixed to brickwork, concrete work, etc including bending, welding and drilling holes etc.	m	4.70
SW.347	(1.32mm) anodised aluminium section cut to 32mm x 32mm angle, fixed to brickwork, concrete work, etc including bending, welding and drilling holes etc.	m	5.30
SW.348	(1.32mm) anodised aluminium section cut to 38mm x 38mm angle, fixed to brickwork, concrete work, etc including bending, welding and drilling holes etc.	m	5.60



S/No	Description	Unit	Unit Cost (\$)
SW.349	(1.32mm) anodised aluminium section cut to 51mm x 51mm angle, fixed to brickwork, concrete work, etc including bending, welding and drilling holes etc.	m	7.20
SW.350	1.32mm bronze anodised aluminium section cut to 25mm x 25mm hollow section, fixed to brickwork, concrete work, etc including bending, welding and drilling holes etc.	m	7.40
SW.351	1.32mm bronze anodised aluminium section cut to 25mm x 50mm hollow section, fixed to brickwork, concrete work, etc including bending, welding and drilling holes etc.	m	9.00
SW.352	1.32mm bronze anodised aluminium section cut to 25mm x 75mm hollow section, fixed to brickwork, concrete work, etc including bending, welding and drilling holes etc.	m	12.20
SW.353	1.32mm bronze anodised aluminium section cut to 25mm x 100mm hollow section, fixed to brickwork, concrete work, etc including bending, welding and drilling holes etc.	m	19.20
SW.354	3mm thick mild steel chequered plates cut to required size and fixed to concrete work, etc including bending welding and drilling holes, etc.	sq m	100.10
SW.355	6mm thick mild steel chequered plates cut to required size and fixed to concrete work, etc including bending welding and drilling holes, etc.	sq m	175.70
SW.356	3mm thick aluminium chequered plates cut to required size and fixed to concrete work, etc including bending welding and drilling holes, etc.	sq m	164.30
SW.357	6mm thick aluminium chequered plates cut to required size and fixed to concrete work, etc including bending welding and drilling holes, etc.	sq m	299.40
SW.358	150mm wide mild steel gratings in panels (Type A) with all joints and intersections whole welded, drilling and including painting with one coat of inhibitive primer before delivery	m	97.50
SW.359	200mm wide mild steel gratings in panels (Type A) with all joints and intersections whole welded, drilling and including painting with one coat of inhibitive primer before delivery	m	114.50
SW.360	Mild steel gratings in panels (Type B) with all joints and intersections whole welded, drilling and including painting with one coat of inhibitive primer before delivery	sq m	274.80
SW.361	Mild steel gratings in panels (Type C) with all joints and intersections whole welded, drilling and including painting with one coat of inhibitive primer before delivery.	sq m	201.80
SW.362	Heavy duty mild steel gratings in panels (Type E) with all joints and intersections whole welded, drilling and including painting with one coat of inhibitive primer before delivery.	sq m	366.50
SW.363	Light duty mild steel gratings in panels (Type F) with all joints and intersections whole welded, drilling and including with one coat of inhibitive primer before delivery.	sq m	167.00
SW.364	Galvanised steel gratings in panels (Type D) with all joints and intersections whole welded, drilling and including with one coat of inhibitive primer before delivery.	sq m	231.50
SW.365	Galvanised steel gratings in panels (Type G) with all joints and intersections whole welded, drilling and including with one coat of inhibitive primer before delivery.	sq m	209.40
SW.366	Galvanised steel gratings in panels (Type J) with all joints and intersections whole welded, drilling and including with one coat of inhibitive primer before delivery.	sq m	185.10

S/No	Description	Unit	Unit Cost (\$)
SW.367	Hot dipped galvanised steel gratings in panels (Type H) with all joints and intersections whole welded, drilling and including with one coat of inhibitive primer before delivery	sq m	206.00
SW.368	Heavy duty hot dipped galvanised gratings in panels (Type I) with all joints and intersections whole welded, drilling and including with one coat of inhibitive primer	sq m	243.20
SW.369	Mild steel angle framing to receive gratings consisting of 40mm x 40mm x 6mm thick angle with 25mm x 6mm fish-tailed flat bar 75mm long, as holding down lugs welded at 600mm centre and built into concrete surround including forming mortices, grouting good work disturbed and painting with one coat of inhibitive primer.	m	9.90
SW.370	Mild steel angle framing to receive gratings consisting of 50mm x 50mm x 6mm thick angle with 25mm x 6mm fish-tailed flat bar 75mm long, as holding down lugs welded at 600mm centre and built into concrete surround lugs in cement mortar (1:3), making good work disturbed and painting with one coat of inhibitive primer.	m	12.50
SW.371	Galvanised steel angle framing to receive gratings consisting of 40mm x 40mm x 6mm thick galvanised angle with 25mm x 6mm fish-tailed flat bar 75mm long, as holding down lugs welded at 600mm centre and built into concrete surround lugs in cement mortar (1:3), making good work disturbed and painting with one coat of inhibitive primer.	m	11.90
SW.372	Hot dipped galvanised steel angle framing to receive gratings consisting of 50mm x 38mm x 6mm thick hot dipped galvanised steel angle with 25mm x 6mm fish-tailed flat bar 75mm long, as holding down lugs welded at 600mm centre and built into concrete surround lugs in cement mortar (1:3), making good work disturbed and painting with one coat of inhibitive primer.	m	15.00
SW.373	Take out broken perforated cast iron cover (irrespective of size) and remove off site.	no	1.80
SW.374	0.7mm crimped pattern multi-coloured aluminium awning comprising of sheeting in narrow widths with ends and side laps and over-hangs, fixed on and including 25mm diameter tubular or 25mm x 25mm square hollow section frame and welded trusses, or on other approved steel framed and welded trusses, to center not exceeding 1.50m distance or as directed, the framing rawl bolted to wall and including 3 coats of paint. (Span of awning not exceeding 2.50m measured perpendicularly from wall) (nett area measured).	sq m	106.40
SW.375	0.7mm crimped pattern multi-coloured aluminium awning comprising of sheeting in narrow widths with ends and side laps and over-hangs, fixed on and including 38mm diameter tubular or 38mm x 38mm square hollow section framed and welded trusses, or on other approved steel framed and welded trusses, to center not exceeding 1.50m distance or as directed, the framing rawl bolted to wall and including 3 coats of paint. (Span of awning exceeding 2.50m measured perpendicularly from wall) (nett area measured).	sq m	117.00
SW.376	50mm diameter galvanised steel tubular post not exceeding 2m high from ground level, one end minimum 400mm long cast in and including concrete (Grade 20) foundation 300 x 300 x 450mm deep, the other end welded with steel plate and angle holed for and including bolts. (Rate includes excavation, formwork ad cart away debris).	no	96.00

S/No	Description	Unit	Unit Cost (\$)
SW.377	75mm diameter galvanised steel tubular post not exceeding 2m high from ground level, one end minimum 400mm long cast in and including concrete (Grade 20) foundation 300 x 300 x 450mm deep, the other end welded with steel plate and angle holed for and including bolts. (Rate includes excavation, formwork ad cart away debris).	no	111.00
SW.378	50mm diameter galvanised steel tubular post exceeding 2m high but not exceeding 2.50m high from ground level, one end minimum 400mm long cast in and including concrete (Grade 20A) foundation 300 x 300 x 450mm deep, the other end welded with steel plate and angle holed for and including bolts. (Rate includes excavation, formwork ad cart away debris).	no	96.00
SW.379	75mm diameter galvanised steel tubular post exceeding 2m high but not exceeding 2.50m high from ground level, one end minimum 400mm long cast in and including concrete (Grade 20A) foundation 300 x 300 x 450mm deep, the other end welded with steel plate and angle holed for and including bolts. (Rate includes excavation, formwork ad cart away debris).	no	123.00
SW.380	50mm diameter galvanised steel tubular post exceeding 2.5m but not exceeding 3.0m long from ground level one end minimum 600mm cast in and including concrete (Grade 20A) foundation 300 x 300 x 650mm deep, the other end welded with steel plate and angle holed for and including bolts. (Rate includes excavation, formwork ad cart away debris).	no	186.00
SW.381	75mm diameter galvanised steel tubular post exceeding 2.5m but not exceeding 3.0m long from ground level one end minimum 600mm cast in and including concrete (Grade 20A) foundation 300 x 300 x 650mm deep, the other end welded with steel plate and angle holed for and including bolts. (Rate includes excavation, formwork ad cart away debris).	no	180.00
SW.382	75mm diameter galvanised steel tubular post not exceeding 3m high from ground level, one end minimum 600mm cast in and including concrete (Grade 20), foundation not exceeding 1.00m deep, other end capped and welded approved pulley thread through with 6mm diameter nylon rope 6m long c/w bracket and 3 coats paint. (Rate includes excavation, formwork and cart away debris).	no	189.00
SW.383	75mm diameter galvanised steel tubular post not exceeding but not exceeding 4.50m high from ground level, one end minimum 600mm cast in and including concrete (Grade 20), one end minimum 600mm cast in and including concrete (Grade 20), and 3 coats paint. (Rate includes excavation, formwork and cart away debris).	no	236.30
SW.384	75mm diameter galvanised steel tubular post exceeding 4.50m but not exceeding 6.00m high from ground level, one end minimum 600mm cast in and including concrete (Grade 20), foundation not exceeding 1.00m deep, capped on one end and welded approved pulley thread through with 6mm diameter nylon rope 6m long c/w bracket and 3 coats paint. (Rate includes excavation, formwork and cart away debris).	no	283.20
SW.385	Take out and remove off site existing metal, timber, PVC, etc flag pole including grubbing up concrete foundations, and fill voids with earth well rammed or concrete. (Rate exclude turfing or floor finishes).	no	18.00
SW.386	Take out and remove off site existing metal, timber, PVC, etc flag pole including grubbing up concrete foundations, and fill voids with earth well rammed or concrete but resite to any position including providing concrete base, filling in void and make good area disturbed to match existing. (Rate exclude turfing or floor finishes).	no	86.40
SW.387	Supply and install 5 mm dia mild steel hex bolts, with nuts and washers & shank length 16mm including holes in metal or wood, if necessary.	no	0.30

<Restricted>

S/No	Description	Unit	Unit Cost (\$)
SW.414	Supply and install 13mm dia mild steel hex bolts, with nuts and washers & shank length over 125 & n.e. 250mm including holes in metal or wood, if necessary.	no	3.80
SW.415	Supply and install 16mm dia mild steel hex bolts, with nuts and washers & shank length 50 or 55mm including holes in metal or wood, if necessary.	no	1.40
SW.416	Supply and install 16mm dia mild steel hex bolts, with nuts and washers & shank length 60mm including holes in metal or wood, if necessary.	no	1.40
SW.417	Supply and install 16mm dia mild steel hex bolts, with nuts and washers & shank length 63mm including holes in metal or wood, if necessary.	no	1.40
SW.418	Supply and install 16mm dia mild steel hex bolts, with nuts and washers & shank length 75mm including holes in metal or wood, if necessary.	no	1.70
SW.419	Supply and install 16mm dia mild steel hex bolts, with nuts and washers & shank length 90mm including holes in metal or wood, if necessary.	no	1.80
SW.420	Supply and install 16mm dia mild steel hex bolts, with nuts and washers & shank length 100mm including holes in metal or wood, if necessary.	no	2.10
SW.421	Supply and install 16mm dia mild steel hex bolts, with nuts and washers & shank length 115mm including holes in metal or wood, if necessary.	no	2.30
SW.422	Supply and install 16mm dia mild steel hex bolts, with nuts and washers & shank length 125mm including holes in metal or wood, if necessary.	no	2.30
SW.423	Supply and install 16mm dia mild steel hex bolts, with nuts and washers & shank length over 125 & n.e. 250mm including holes in metal or wood, if necessary.	no	5.10
SW.424	Supply and install 19mm dia mild steel hex bolts, with nuts and washers & shank length 60mm including holes in metal or wood, if necessary.	no	1.70
SW.425	Supply and install 19mm dia mild steel hex bolts, with nuts and washers & shank length 63mm including holes in metal or wood, if necessary.	no	1.70
SW.426	Supply and install 19mm dia mild steel hex bolts, with nuts and washers & shank length 75mm including holes in metal or wood, if necessary.	no	1.70
SW.427	Supply and install 19mm dia mild steel hex bolts, with nuts and washers & shank length 90mm including holes in metal or wood, if necessary.	no	1.80
SW.428	Supply and install 19mm dia mild steel hex bolts, with nuts and washers & shank length 100mm including holes in metal or wood, if necessary.	no	2.10
SW.429	Supply and install 19mm dia mild steel hex bolts, with nuts and washers & shank length 115mm including holes in metal or wood, if necessary.	no	2.30
SW.430	Supply and install 19mm dia mild steel hex bolts, with nuts and washers & shank length 125mm including holes in metal or wood, if necessary.	no	2.70
SW.431	Supply and install 19mm dia mild steel hex bolts, with nuts and washers & shank length over 125 & n.e. 250mm including holes in metal or wood, if necessary.	no	6.30
SW.432	Add to any of the above items (FF0345A to FF0350I) if including taking out and making good work disturbed.	no	0.30
SW.433	Hot dipped galvanised bolts of diameter 16mm with nuts and washers & shank length 45mm or other equal and approved type including drilling holes in metal or wood, if necessary.	no	3.20
SW.434	Hot dipped galvanised bolts of diameter 16mm with nuts and washers & shank length 50mm or other equal and approved type including drilling holes in metal or wood, if necessary.	no	3.30
SW.435	Hot dipped galvanised bolts of diameter 16mm with nuts and washers & shank length 63mm or other equal and approved type including drilling holes in metal or wood, if necessary.	no	3.30

S/No	Description	Unit	Unit Cost (\$)
SW.436	Hot dipped galvanised bolts of diameter 19mm with nuts and washers & shank length 50mm or other equal and approved type including drilling holes in metal or wood, if necessary.	no	4.40
SW.437	Hot dipped galvanised bolts of diameter 19mm with nuts and washers & shank length 58mm or other equal and approved type including drilling holes in metal or wood, if necessary.	no	4.50
SW.438	Hot dipped galvanised bolts of diameter 19mm with nuts and washers & shank length 63mm or other equal and approved type including drilling holes in metal or wood, if necessary.	no	4.80
SW.439	Hot dipped galvanised bolts of diameter 19mm with nuts and washers & shank length 75mm or other equal and approved type including drilling holes in metal or wood, if necessary.	no	5.10
SW.440	Hot dipped galvanised bolts of diameter 22mm with nuts and washers & shank length 50mm or other equal and approved type including drilling holes in metal or wood, if necessary.	no	6.20
SW.441	Hot dipped galvanised bolts of diameter 22mm with nuts and washers & shank length 58mm or other equal and approved type including drilling holes in metal or wood, if necessary.	no	6.20
SW.442	Hot dipped galvanised bolts of diameter 22mm with nuts and washers & shank length 63mm or other equal and approved type including drilling holes in metal or wood, if necessary.	no	6.30
SW.443	Hot dipped galvanised bolts of diameter 22mm with nuts and washers & shank length 75mm or other equal and approved type including drilling holes in metal or wood, if necessary.	no	6.90
SW.444	Hot dipped galvanised bolts of diameter 25mm with nuts and washers & shank length 75mm or other equal and approved type including drilling holes in metal or wood, if necessary.	no	8.70
SW.445	Supply and install stainless steel hex bolts of diameter 5mm, with nuts and washers & shank length 16mm including holes in metal or wood, if necessary.	no	0.60
SW.446	Supply and install stainless steel hex bolts of diameter 5mm, with nuts and washers & shank length 20mm including holes in metal or wood, if necessary.	no	0.60
SW.447	Supply and install stainless steel hex bolts of diameter 5mm, with nuts and washers & shank length 25mm including holes in metal or wood, if necessary.	no	0.60
SW.448	Supply and install stainless steel hex bolts of diameter 5mm, with nuts and washers & shank length 30mm including holes in metal or wood, if necessary.	no	0.60
SW.449	Supply and install stainless steel hex bolts of diameter 5mm, with nuts and washers & shank length 40mm including holes in metal or wood, if necessary.	no	0.70
SW.450	Supply and install stainless steel hex bolts of diameter 5mm, with nuts and washers & shank length 45mm including holes in metal or wood, if necessary.	no	0.70
SW.451	Supply and install stainless steel hex bolts of diameter 5mm, with nuts and washers & shank length 50mm including holes in metal or wood, if necessary.	no	0.80
SW.452	Supply and install stainless steel hex bolts of diameter 6mm, with nuts and washers & shank length 16mm including holes in metal or wood, if necessary.	no	0.60
SW.453	Supply and install stainless steel hex bolts of diameter 6mm, with nuts and washers & shank length 20mm including holes in metal or wood, if	no	0.60

S/No	Description	Unit	Unit Cost (\$)
	necessary.		
SW.454	Supply and install stainless steel hex bolts of diameter 6mm, with nuts and washers & shank length 25mm including holes in metal or wood, if necessary.	no	0.70
SW.455	Supply and install stainless steel hex bolts of diameter 6mm, with nuts and washers & shank length 30mm including holes in metal or wood, if necessary.	no	0.70
SW.456	Supply and install stainless steel hex bolts of diameter 6mm, with nuts and washers & shank length 40mm including holes in metal or wood, if necessary.	no	0.70
SW.457	Supply and install stainless steel hex bolts of diameter 6mm, with nuts and washers & shank length 45mm including holes in metal or wood, if necessary.	no	0.80
SW.458	Supply and install stainless steel hex bolts of diameter 6mm, with nuts and washers & shank length 50mm including holes in metal or wood, if necessary.	no	0.80
SW.459	Supply and install stainless steel hex bolts of diameter 10mm, with nuts and washers & shank length 16mm including holes in metal or wood, if necessary.	no	1.00
SW.460	Supply and install stainless steel hex bolts of diameter 10mm, with nuts and washers & shank length 20mm including holes in metal or wood, if necessary.	no	1.00
SW.461	Supply and install stainless steel hex bolts of diameter 10mm, with nuts and washers & shank length 25mm including holes in metal or wood, if necessary.	no	1.00
SW.462	Supply and install stainless steel hex bolts of diameter 10mm, with nuts and washers & shank length 30mm including holes in metal or wood, if necessary.	no	1.10
SW.463	Supply and install stainless steel hex bolts of diameter 10mm, with nuts and washers & shank length 40mm including holes in metal or wood, if necessary.	no	1.10
SW.464	Supply and install stainless steel hex bolts of diameter 10mm, with nuts and washers & shank length 45mm including holes in metal or wood, if necessary.	no	1.20
SW.465	Supply and install stainless steel hex bolts of diameter 10mm, with nuts and washers & shank length 50mm including holes in metal or wood, if necessary.	no	1.30
SW.466	Supply and install stainless steel hex bolts of diameter 12mm, with nuts and washers & shank length 16mm including holes in metal or wood, if necessary.	no	1.70
SW.467	Supply and install stainless steel hex bolts of diameter 12mm, with nuts and washers & shank length 20mm including holes in metal or wood, if necessary.	no	1.70
SW.468	Supply and install stainless steel hex bolts of diameter 12mm, with nuts and washers & shank length 25mm including holes in metal or wood, if necessary.	no	1.70
SW.469	Supply and install stainless steel hex bolts of diameter 12mm, with nuts and washers & shank length 30mm including holes in metal or wood, if necessary.	no	1.80
SW.470	Supply and install stainless steel hex bolts of diameter 12mm, with nuts and washers & shank length 40mm including holes in metal or wood, if necessary.	no	1.80

S/No	Description	Unit	Unit Cost (\$)
SW.471	Supply and install stainless steel hex bolts of diameter 12mm, with nuts and washers & shank length 45mm including holes in metal or wood, if necessary.	no	1.90
SW.472	Supply and install stainless steel hex bolts of diameter 12mm, with nuts and washers & shank length 50mm including holes in metal or wood, if necessary.	no	1.90
SW.473	5 mm dia raw bolt loose type or other equal and approved retraction bolt of length 50mm with nut and washer & shield length with nut 36mm including drilling holes in concrete, brickwork, metal or wood as required.	no	3.00
SW.474	6 mm dia raw bolt loose type or other equal and approved retraction bolt of length 65mm with nut and washer & shield length with nut 46mm including drilling holes in concrete, brickwork, metal or wood as required.	no	3.40
SW.475	6 mm dia raw bolt loose type or other equal and approved retraction bolt of length 75mm with nut and washer & shield length with nut 46mm including drilling holes in concrete, brickwork, metal or wood as required.	no	3.10
SW.476	6 mm dia raw bolt loose type or other equal and approved retraction bolt of length 115mm with nut and washer & shield length with nut 46mm including drilling holes in concrete, brickwork, metal or wood as required.	no	4.10
SW.477	8 mm dia raw bolt loose type or other equal and approved retraction bolt of length 75mm with nut and washer & shield length with nut 52mm including drilling holes in concrete, brickwork, metal or wood as required.	no	3.50
SW.478	8 mm dia raw bolt loose type or other equal and approved retraction bolt of length 100mm with nut and washer & shield length with nut 52mm including drilling holes in concrete, brickwork, metal or wood as required.	no	4.20
SW.479	10 mm dia raw bolt loose type or other equal and approved retraction bolt of length 85mm with nut and washer & shield length with nut 62mm including drilling holes in concrete, brickwork, metal or wood as required.	no	3.70
SW.480	10 mm dia raw bolt loose type or other equal and approved retraction bolt of length 110mm with nut and washer & shield length with nut 62mm including drilling holes in concrete, brickwork, metal or wood as required.	no	4.40
SW.481	10 mm dia raw bolt loose type or other equal and approved retraction bolt of length 130mm with nut and washer & shield length with nut 62mm including drilling holes in concrete, brickwork, metal or wood as required.	no	4.70
SW.482	10 mm dia raw bolt loose type or other equal and approved retraction bolt of length 110mm with nut and washer & shield length with nut 78mm including drilling holes in concrete, brickwork, metal or wood as required.	no	4.70
SW.483	10 mm dia raw bolt loose type or other equal and approved retraction bolt of length 130mm with nut and washer & shield length with nut 78mm including drilling holes in concrete, brickwork, metal or wood as required.	no	4.80
SW.484	12 mm dia raw bolt loose type or other equal and approved retraction bolt of length 95mm with nut and washer & shield length with nut 72mm including drilling holes in concrete, brickwork, metal or wood as required.	no	5.60
SW.485	12 mm dia raw bolt loose type or other equal and approved retraction bolt of length 120mm with nut and washer & shield length with nut 72mm including drilling holes in concrete, brickwork, metal or wood as required.	no	6.00
SW.486	12 mm dia raw bolt loose type or other equal and approved retraction bolt of length 120mm with nut and washer & shield length with nut 96mm including drilling holes in concrete, brickwork, metal or wood as required.	no	7.00
SW.487	12 mm dia raw bolt loose type or other equal and approved retraction bolt of length 185mm with nut and washer & shield length with nut 96mm including drilling holes in concrete, brickwork, metal or wood as required.	no	7.60



S/No	Description	Unit	Unit Cost (\$)
SW.488	16 mm dia raw bolt loose type or other equal and approved retraction bolt of length 130mm with nut and washer & shield length with nut 110mm including drilling holes in concrete, brickwork, metal or wood as required.	no	9.50
SW.489	16 mm dia raw bolt loose type or other equal and approved retraction bolt of length 140mm with nut and washer & shield length with nut 110mm including drilling holes in concrete, brickwork, metal or wood as required.	no	9.60
SW.490	16 mm dia raw bolt loose type or other equal and approved retraction bolt of length 160mm with nut and washer & shield length with nut 110mm including drilling holes in concrete, brickwork, metal or wood as required.	no	10.00
SW.491	16 mm dia raw bolt loose type or other equal and approved retraction bolt of length 210mm with nut and washer & shield length with nut 110mm including drilling holes in concrete, brickwork, metal or wood as required.	no	11.80
SW.492	16 mm dia raw bolt loose type or other equal and approved retraction bolt of length 210mm with nut and washer & shield length with nut 158mm including drilling holes in concrete, brickwork, metal or wood as required.	no	13.30
SW.493	20 mm dia raw bolt loose type or other equal and approved retraction bolt of length 165mm with nut and washer & shield length with nut 130mm including drilling holes in concrete, brickwork, metal or wood as required.	no	13.30
SW.494	20 mm dia raw bolt loose type or other equal and approved retraction bolt of length 185mm with nut and washer & shield length with nut 130mm including drilling holes in concrete, brickwork, metal or wood as required.	no	13.30
SW.495	25 mm dia raw bolt loose type or other equal and approved retraction bolt of length 260mm with nut and washer & shield length with nut 180mm including drilling holes in concrete, brickwork, metal or wood as required.	no	23.20
SW.496	25 mm dia raw bolt loose type or other equal and approved retraction bolt of length 310mm with nut and washer & shield length with nut 180mm including drilling holes in concrete, brickwork, metal or wood as required.	no	25.60
SW.497	HILTI' drive pins or other equal and approved type to fix timber, sheet metal etc to concrete w/ 3.7 mm dia shank of length 10mm to 27mm.	no	0.50
SW.498	HILTI' drive pins or other equal and approved type to fix timber, sheet metal etc to concrete w/ 3.7 mm dia shank of length 32mm to 47mm.	no	0.50
SW.499	HILTI' drive pins or other equal and approved type to fix timber, sheet metal etc to concrete w/ 3.7mm dia shank of length 52mm to 72mm.	no	0.70
SW.500	HILTI' drive pins or other equal and approved type to fix timber, sheet metal etc to concrete w/ 3.7 mm dia shank of length 82mm to 117mm.	no	1.00
SW.501	HILTI' drive pins or other equal and approved type to fix timber, sheet metal etc to structural steel w/ 3.7 mm dia shank of length 14mm to 19mm.	no	0.50
SW.502	HILTI' drive pins or other equal and approved type to fix timber, sheet metal etc to structural steel w/ 3.7 mm dia shank of length 22mm to 37mm.	no	0.50
SW.503	HILTI' drive pins or other equal and approved type to fix timber, sheet metal etc to structural steel w/ 3.7 mm dia shank of length 42mm to 62mm.	no	0.70
SW.504	5mm diameter hole 'HILTI' LB punched steel band or other equal and approved type to hang or secure pipes, ducts, etc.	no	2.50
SW.505	7mm diameter hole 'HILTI' LB punched steel band or other equal and approved type to hang or secure pipes, ducts, etc.	no	3.50
SW.506	8mm diameter hole 'HILTI' LB punched steel band or other equal and approved type to hang or secure pipes, ducts, etc.	no	4.10
SW.507	50mm x 50mm x 6mm thick mild steel angle arris protective guard 1.00m high, set flush to brick or concrete surface with 2 Nos. of 25mm x 3mm x 225mm long fixing lugs grouted into mortices with cement mortar (1:3).	no	9.60

S/No	Description	Unit	Unit Cost (\$)
SW.508	Supply and fix 150mm diameter mild steel tubular bollard 1.20m from ground level including embedding 300mm in concrete foundation including painting with one coat of inhibitive primer and two coats of aluminium/synthetic enamel paint (concrete foundation measured separately).	no	60.00
SW.509	Standard design basketball stand c/w timber board, metal ring to receive basketball net, three coats of enamel paint, concrete (Grade 20) foundation, including all necessary excavation, formwork, removing debris off site breaking existing concrete surface, etc (Rate per set 2 Nos.).	set	2,400.00
SW.510	Supply & deliver 3.18mm (1/8 inch) link dia galv chain link.	m	1.80
SW.511	Supply & deliver 3.97mm (5/32 inch) link dia galv chain link.	m	1.90
SW.512	Supply & deliver 4.76mm (3/16 inch) link dia galv chain link.	m	1.90
SW.513	Supply & deliver 6.35mm (1/4 inch) link dia galv chain link.	m	2.80
SW.514	Supply & deliver 7.94mm (5/16 inch) link dia galv chain link.	m	4.60
SW.515	Supply & deliver 9.53mm (3/8 inch) link dia galv chain link.	m	6.60
SW.516	Supply and deliver 3.18 mm (1/8 inch) link dia stainless steel chain link	m	6.20
SW.517	Supply and deliver 3.97mm (5/32 inch) link dia stainless steel chain link	m	8.60
SW.518	Supply and deliver 4.76mm (3/16 inch) link dia stainless steel chain link	m	10.10
SW.519	Supply and deliver 6.35mm (1/4 inch) link dia stainless steel chain link	m	11.70
SW.520	Supply and deliver 7.94mm (5/16 inch) link dia stainless steel chain link	m	15.60
SW.521	Supply and deliver 9.53mm (3/8 inch) link dia stainless steel chain link.	m	20.30
SW.522	Supply labour and material for cutting or welding locks, hinges, bolt, etc in replacement (Ironmongery and cutting or welding apparatus measured separately).	no	6.60
SW.523	Remove existing strong room steel security door (not more than 300kg) complete, transport and deliver to store or remove off site, including breaking up walls, remove debris off site and making good work disturbed.	no	1,440.00
SW.524	Labour and material for cutting openings (any size) in weldmesh (any mesh and gauge) and including filling out ends smooth. (Cutting apparatus measured separately).	no	4.30
SW.525	Mild steel dowels not exceeding 12mm diameter x 150mm long fixed to foot of wood frames.	no	0.80
SW.526	40mm x 3mm mild steel cramps 225mm girth once bent, one end split and fixed in brickwork and other end screwed to wood frame.	no	1.00
SW.527	Mild steel straps (to fasten foot of wooden posts etc) not exceeding 50mm x 6mm x 600mm long holed for and including 2 numbers of steel bolts with nuts and washers including casting one end in concrete.	no	10.60
SW.528	6mm thick mild steel shoe of purpose-made design (any size) for holding timber purlins, rafters, joints, etc.	no	15.60
SW.529	Aluminium rivets to linings (Any size).	no	0.20
SW.530	Mild steel rag bolts (irrespective of size and lengths) with nuts and washers including temporary boxing to form holes, building in and grouting.	kg	7.20
SW.531	Labour for removing mild steel brackets, plugs, from wall and make good work disturbed.	no	3.60
SW.532	Supply labour and all necessary equipment for argon welding to stainless steel ware.	m	45.60
SW.533	Supply and install 5mm dia galvanised eye or hook c/w extension bolt.	no	2.40
SW.534	Supply and install 6mm dia galvanised eye or hook c/w extension bolt.	no	3.10
SW.535	Supply and install 8mm dia galvanised eye or hook c/w extension bolt	no	3.70
SW.536	Supply and install 10mm dia galvanised eye or hook c/w extension bolt.	no	5.40
SW.537	Supply and install 5mm dia stainless steel eye or hook c/w extension bolt	no	4.80
SW.538	Supply and install 6mm dia stainless steel eye or hook c/w extension bolt.	no	6.20

S/No	Description	Unit	Unit Cost (\$)
SW.539	Supply and install 8mm dia stainless steel eye or hook c/w extension bolt	no	7.40
SW.540	Supply and install 10mm dia stainless steel eye or hook c/w extension bolt.	no	10.80
SW.541	Supply and install 3mm dia stainless steel Dee shackle.	no	3.10
SW.542	Supply and install 4mm dia stainless steel Dee shackle.	no	3.20
SW.543	Supply and install 5mm dia stainless steel Dee shackle.	no	3.40
SW.544	Supply and install 6mm dia stainless steel Dee shackle	no	4.10
SW.545	Supply and install 8mm dia stainless steel Dee shackle	no	4.60
SW.546	Supply and install 10mm dia stainless steel Dee shackle.	no	5.40
SW.547	To remove any type and size of eye or hook, shackle, turnbuckle including make good affected surfaces to match the existing.	no	3.00
SW.548	Supply and install 5mm dia stainless steel turnbuckle	no	9.00
SW.549	Supply and install 6mm dia stainless steel turnbuckle	no	10.20
SW.550	Supply and install 8mm dia stainless steel turnbuckle	no	15.00
SW.551	Supply and install 10mm dia stainless steel turnbuckle.	no	16.80
SW.552	Mild steel railing consisting of tubular or square hollow section set in and including concrete foundation, painting with one coat of red lead primer, one undercoat and two finishing coats of enamel paint, excavation for concrete foundation and disposal of excavated material from site.	m	42.80
SW.553	Mild steel railing consisting of tubular or square hollow section set in and including concrete foundation, painting with one coat of red lead primer, one undercoat and two finishing coats of enamel paint, excavation for concrete foundation and disposal of excavated material from site	m	50.00
SW.554	Supply and fix 20mm diameter stainless steel pipe railing, intermediate rail or baluster to AISI 304 x 1.5mm thick with polished finished including welding, bend, ramp, knee and end cap.	m	24.50
SW.555	Supply and fix 25mm diameter stainless steel pipe railing, intermediate rail or baluster to AISI 304 x 1.5mm thick with polished finished including welding, bend, ramp, knee and end cap.	m	33.00
SW.556	Supply and fix 32mm diameter stainless steel pipe railing, intermediate rail or baluster to AISI 304 x 1.5mm thick with polished finished including welding, bend, ramp, knee and end cap.	m	44.90
SW.557	Supply and fix 38mm diameter stainless steel pipe railing, intermediate rail or baluster to AISI 304 x 1.5mm thick with polished finished including welding, bend, ramp, knee and end cap.	m	51.50
SW.558	Supply and fix 50 mm diameter stainless steel pipe railing, intermediate rail or baluster to AISI 304 x 1.5mm thick with polished finished including welding, bend, ramp, knee and end cap,	m	64.10
SW.559	Supply and fix 65mm diameter stainless steel pipe railing, intermediate rail or baluster to AISI 304 x 1.5mm thick with polished finished including welding, bend, ramp, knee and end cap.	m	88.80
SW.560	Dismantle and cart away existing railing	m	19.20
SW.561	Supply and install 1000mm high stainless steel railing, constructed with 50 x 9mm thick flat bar baluster, 15mm dia solid rod and 50mm dia x 1.5mm thick circular hollow section c/w concrete footing.	m	390.00
SW.562	Stainless steel round-shaped floor flange not exceeding 38mm diameter & complete with stainless steel pipe sleeve built into concrete floor for balusters.	no	33.00
SW.563	Stainless steel round-shaped floor flange exceeding 38mm diameter but not exceeding 65mm diameter & complete with stainless steel pipe sleeve built into concrete floor for balusters.	no	39.60

S/No	Description	Unit	Unit Cost (\$)
SW.564	Supply and install aluminium 'Vee' plate, 100mm width to new or existing expansion join. (Rate inclusive of hacking out finishes to expose bare concrete surfaces install as accordance to Superintending Officer's instruction and make good. (Appendix 40).	m	78.00
SW.565	Supply and install aluminium 'Vee' plate, 200mm width to new or existing expansion join. (Rate inclusive of hacking out finishes to expose bare concrete surfaces install as accordance to Superintending Officer's instruction and make good. (Appendix 41).	m	114.00
SW.566	Supply and install aluminium 'Vee' plate, 300mm width to new or existing expansion join. (Rate inclusive of hacking out finishes to expose bare concrete surfaces install as accordance to Superintending Officer's instruction and make good. (Appendix 41).	m	150.00
SW.567	Take down existing clothes lines frames (any type and size) including any wire remove off site and make good work disturbed (Rate per post).	no	6.00
SW.568	Repair existing clothes-lines frame (any type and size) including raking out, replacing and welding of parts, refixing clothes line (if any) brushing down and 3 coats paint and making good work disturbed as necessary. (Galvanised wire lines measured separately). (Rate per post).	no	29.00
SW.569	50mm diameter galvanised steel pipe clothes lines frames with post 2.30m long and cross frame 1.60m wide all properly connected or welded together c/w wire strainer, end of post cast in and including concrete (Grade 20) footing 750mm deep, formwork, excavation, removing surplus excavated material off site and 2 coats paint (Rate per post).	no	83.90
SW.570	50mm diameter galvanised steel pipe clothes lines frames with one strut, 2.10m long, one end connected or welded to post and other end cast in and including concrete (Grade 20) footing 750mm deep, formwork, excavation, removing surplus excavated material off site and 2 coats paint (Rate per post).	no	130.20
SW.571	50mm diameter galvanised steel pipe clothes lines frames with two struts, each 2.30m long, one end connected to welded to arm and other end cast in and including concrete (Grade 20) footing 750mm deep, formwork, excavation, removing surplus excavated material off site and 2 coats paint (Rate per post).	no	174.00
SW.572	No: 8 galvanised wire for clothes lines (length measured between distance of clothes lines frames).	m	1.20
SW.573	PVC coated 6 SWG galvanised wire for clothes lines.	m	1.10
SW.574	Supply and install 6 mm stainless steel wire with PVC coating excluding turnbuckle.	m	4.20
SW.575	Supply labour to install clothline	no	3.00
SW.576	Supply all plant, labour and material to raise existing aluminium railings to required height and level, including all necessary replacement and extension member.	m	32.40
SW.577	Supply all plant, labour and material to re-align existing aluminium railings to required height and level including breaking up and reconstruction of concrete foundation.	m	77.30
SW.578	Fabricate & install stainless steel box (8" X 8") complete with lock and keys.	no	180.00
SW.579	Charges per service call for maintenance & repair of Gliderol shutter door	per call	66.00
SW.580	Mounting bracket plate, 8mm thk steel punched as required	per side	200.00
SW.581	Roller Bearing (for 38mm dia shaft)	no	210.00
SW.582	Roller Bearing (for 50mm dia shaft)	no	210.00
SW.583	Hood, 0.9mm thk galvanised sheets bent to suit	m	72.00

S/No	Description	Unit	Unit Cost (\$)
SW.584	ditto-but in powder coated finish	m	88.00
SW.585	ditto-but in fluorocarbon finish	m	103.00
SW.586	Drum assembly non-counterbalanced model-250 dia steel pipe barrel	m	175.00
SW.587	Drive assembly incl shaft for ditto	set	200.00
SW.588	Drum assembly non-counterbalanced model-200 dia steel pipe barrel	m	123.00
SW.589	Drive assembly incl shaft for ditto	set	161.00
SW.590	Drum assembly non-counterbalanced model-150 dia steel pipe barrel	m	90.00
SW.591	Drive assembly incl shaft for ditto	set	152.00
SW.592	Barrel assy,c/w counterbalance springs for counterbalanced model	m	302.00
SW.593	Capstan (tensioning) wheel for counterbalanced model	no	195.00
SW.594	Curtain assembly -100 x 1.0 thk galvanised Steel Slats	m	21.50
SW.595	ditto but in powder coated finish	m	23.50
SW.596	ditto but in fluorocarbon finish finish	m	26.00
SW.597	Curtain assembly -100 x 1.2 thk galvanised Steel Slats	m	21.40
SW.598	ditto but in powder coated finish	m	24.00
SW.599	ditto but in fluorocarbon finish finish	m	27.00
SW.600	Galvanised Iron end clips	no	16.50
SW.601	Double angle iron bottom rails, primed painted	m	29.50
SW.602	ditto but in powder coated finish	m	35.00
SW.603	ditto but in fluorocarbon finish finish	m	40.00
SW.604	Triple angle-iron door Guides	m	80.00
SW.605	ditto but in powder coated finish	m	96.00
SW.606	ditto but in fluorocarbon finish finish	m	113.00
SW.607	Operating Accessories- Motor Drive unit,up to 0.75 hp capacity single Ph	no	1,285.00
SW.608	Motor Drive unit,1.0 hp capacity -3 phase	no	2,100.00
SW.609	Motor Drive unit,2.0 hp capacity -3 phase	no	3,780.00
SW.610	Control PCB Card	no	162.00
SW.611	Lockable Push-button set with SS cover	set	117.00
SW.612	Motor Drive Unit c/w descent governor -up to 1.0hp side mounted 3 Ph	no	2,950.00
SW.613	Motor Drive Unit c/w descent governor -up to 1.5hp side mounted 3 Ph	no	3,350.00
SW.614	Motor Drive Unit c/w descent governor -up to 2.0hp side mounted 3 Ph	no	4,950.00
SW.615	Control Box c/w push button	no	380.00
SW.616	Individual Push Buttons only	no	40.00
SW.617	Rear Mounted Chain Hoist for Manual Chain Hoist operator	no	455.00
SW.618	Side Mounted Chain Hoist for Manual Chain Hoist operator	no	930.00
SW.619	Motor Drive Sprocket	no	100.00
SW.620	Door Drive Sprocket 47 teeth	no	145.00
SW.621	Door Drive Sprocket 57 teeth	no	170.00
SW.622	Limit Switches for roller shutter	set	98.00
SW.623	Drive Chain for roller shutter	pce	50.00
SW.624	Manual Hand Chain for roller shutter	m	7.50
SW.625	Automatic (solenoid) Release Mechanism for Roller Shutter	no	385.00
SW.626	Fusible Link for roller shutter	no	35.00
SW.627	To fabricate, supply and install 1000mm high Stainless Steel Railing with 38mm Dia x 1.5mm thick	m	340.00
SW.628	Ditto for handicap ramp	m	340.00
SW.629	To fabricate, supply and install 1000mm high Stainless Steel Railing with 50.8mm Dia x 1.5mm thick	m	120.00
SW.630	To fabricate, supply and install 900mm high x 38mm Dia. Stainless Steel Railing for Handicap ram	m	95.00
SW.631	Supply and install chromed finished clothes hanger complete with 5 or more hooks in a row)	no	6.00

S/No	Description	Unit	Unit Cost (\$)
SW.632	Supply all labour, transport, tools, equipment and materials to remove and disposed off-site the existing adjustable aluminium louvred window including making good affected area to receive new installation (Area size 3700mm (L) x 1320mm (H))	per room	50.00
SW.633	Supply and install anodized extruded aluminium framed side hung casement window with top/bottom flush latch c/w 1.5mm thick aluminium grill & 6mm thk tinted float glass and ironmongery & all necessary fixing and jointing materials & accessories (Casement window area size 1200mm (L) x 1320mm X 2 nos)	per room	850.00
SW.634	Supply all labour, transport, tools, equipment and materials to install anodized extruded aluminium framed adjustable louvred vents c/w grill & aluminium U clips/holders and adjustable lever (separate into minimum 3 sections of its height), 6mm thk tinted float glass and ironmongery and all necessary fixing and jointing materials and accessories (Area size 600mm (L) x 1320mm x 2nos)	per room	100.00
SW.635	Supply and install stainless steel frame structure for laundry drying for size average size 2300mm (L)x 800mm (H) x 600mm (D)	no	335.00
SW.636	Supply and install 2mm thk approved coloured anodized powder coated aluminium sheet for average size 2300mm (L)x 800mm (H) x 600mm (D)	no	1,060.00
SW.637	Supply and install 3 nos of stainless steel laundry lines at each laundry drying area	no	120.00
SW.638	Supply, fabrication and install telephone bracket treated with anti rust powder coated finish and padlock	no	85.00
SW.639	Supply and install 3mm thick perforated aluminium panel with powder coating (any colour), hole size square/circle 8mm, opening (%) = 28.86, pitch: 16mm x 60 degree, the panels should be supported with 3mm x 50mm x 50mm aluminium hollow section with powder coating and 1200mm interval centre to center	sq m	300.00

## 7. PAINTWORK

S/No	Description	Unit	Unit Cost (\$)
P.1	Scape down and brush with stiff wire brush to remove all vegetable growth and contaminants, wash down with water and chlorox, allow to dry and make good damaged surfaces	sq m	2.00
P.2	Burn off existing oil paint on concrete, brick, hollow block surfaces, or plastered surface, and make good damaged surfaces to receive new painting on existing previously decorated/non decorated concrete, brick or hollow block surfaces, plastered surfaces, plain, perforated or grilled asbestos surfaces, precast concrete vents, etc (measured flat overall).	sq m	4.00
P.3	Prepare surfaces as specified, wash down with water and chlorox or other approved detergent to remove all vegetable growth, loose paintwork and other surface contaminants, allow to receive new painting on existing previously decorated/non decorated concrete, brick or hollow block surfaces, plastered surfaces, plain, perforated or grilled asbestos surfaces, precast concrete vents, etc (measured flat overall).	sq m	2.00
P.4	Prepare surfaces as specified only to receive new painting (ie. exclude washing down) on existing previously decorated/non decorated concrete, brick or hollow block surfaces, plastered surfaces, plain, perforated or grilled asbestos surfaces, precast concrete vents, etc (measured flat overall).	sq m	0.80

S/No	Description	Unit	Unit Cost (\$)
P.5	Prepare surfaces as specified, using high pressure water cleaner or other mechanical means to remove all existing paintwork to bare plaster and wash down all vegetable growths and other surface contaminants, allow to dry and make good damaged surfaces to receive new painting on existing previously decorated/non decorated concrete, brick or hollow block surfaces, plastered surfaces, plain, perforated or grilled asbestos surfaces, precast concrete vents, etc (measured flat overall).	sq m	4.00
P.6	Mechanically grind down to remove all existing paintwork to bare plaster, wash down, allow to dry and prepare surfaces as specified to receive new painting on existing previously decorated/non decorated concrete, brick or hollow block surfaces, plastered surfaces, plain, perforated or grilled asbestos surfaces, precast concrete vents, etc (measured flat overall).	sq m	4.50
P.7	Prepare and apply two (2) coats of anti-fungus solution on existing previously decorated/non decorated concrete, brick or hollow block surfaces, plastered surfaces, plain, perforated or grilled asbestos surfaces, precast concrete vents, etc (measured flat overall).	sq m	3.50
P.8	Prepare and apply two (2) coats of approved water repellent solution on existing previously decorated/non decorated concrete, brick or hollow block surfaces, plastered surfaces, plain, perforated or grilled asbestos surfaces, precast concrete vents, etc (measured flat overall).	sq m	3.80
P.9	Prepare and apply one (1) coat of weathershield acrylic emulsion paint on existing previously decorated/non decorated concrete, brick or hollow block surfaces, plastered surfaces, plain, perforated or grilled asbestos surfaces, precast concrete vents, etc (measured flat overall).	sq m	2.00
P.10	Prepare and apply one (1) base coat of cement paint on existing previously decorated/non decorated concrete, brick or hollow block surfaces, plastered surfaces, plain, perforated or grilled asbestos surfaces, precast concrete vents, etc (measured flat overall).	sq m	1.60
P.11	Prepare and apply one (1) base coat 20% dilution of pure acrylic emulsion paint used for both interior and exterior decoration on existing previously decorated/non decorated concrete, brick or hollow block surfaces, plastered surfaces, plain, perforated or grilled asbestos surfaces, precast concrete vents, etc (measured flat overall).	sq m	1.60
P.12	Prepare and apply one (1) undercoat of enamel paint on existing previously decorated/non decorated concrete, brick or hollow block surfaces, plastered surfaces, plain, perforated or grilled asbestos surfaces, precast concrete vents, etc (measured flat overall).	sq m	2.50
P.13	Prepare and apply one (1) finishing coat of enamel paint on existing previously decorated/non decorated concrete, brick or hollow block surfaces, plastered surfaces, plain, perforated or grilled asbestos surfaces, precast concrete vents, etc (measured flat overall).	sq m	2.80
P.14	Prepare and apply two (2) finishing coat of enamel paint on existing previously decorated/non decorated concrete, brick or hollow block surfaces, plastered surfaces, plain, perforated or grilled asbestos surfaces, precast concrete vents, etc (measured flat overall).	sq m	4.50
P.15	Prepare and apply one (1) base coat of solvent base paint on existing previously decorated/non decorated concrete, brick or hollow block surfaces, plastered surfaces, plain, perforated or grilled asbestos surfaces, precast concrete vents, etc (measured flat overall).	sq m	2.50

S/No	Description	Unit	Unit Cost (\$)
P.16	Prepare and apply one (1) base coat of high performance acrylic emulsion paint on existing previously decorated/non decorated concrete, brick or hollow block surfaces, plastered surfaces, plain, perforated or grilled asbestos surfaces, precast concrete vents, etc (measured flat overall).	sq m	2.50
P.17	Prepare and apply one (1) coat of oil base wall sealer on existing previously decorated/non decorated concrete, brick or hollow block surfaces, plastered surfaces, plain, perforated or grilled asbestos surfaces, precast concrete vents, etc (measured flat overall).	sq m	2.50
P.18	Prepare and apply one (1) coat of water base wall sealer on existing previously decorated/non decorated concrete, brick or hollow block surfaces, plastered surfaces, plain, perforated or grilled asbestos surfaces, precast concrete vents, etc (measured flat overall).	sq m	1.50
P.19	Prepare and apply one (1) base coat of solvent borne acrylic sealer on existing previously decorated/non decorated concrete, brick or hollow block surfaces, plastered surfaces, plain, perforated or grilled asbestos surfaces, precast concrete vents, etc (measured flat overall).	sq m	3.90
P.20	Prepare and apply one (1) base coat decorative coating on smooth surface on existing previously decorated/non decorated concrete, brick or hollow block surfaces, plastered surfaces, plain, perforated or grilled asbestos surfaces, precast concrete vents, etc (measured flat overall).	sq m	3.00
P.21	Prepare and apply one (1) base coat decorative coating on rough surface on existing previously decorated/non decorated concrete, brick or hollow block surfaces, plastered surfaces, plain, perforated or grilled asbestos surfaces, precast concrete vents, etc (measured flat overall).	sq m	5.50
P.22	Prepare as specified and apply one (1) coat of high performance thermoplastic acrylic resin paint, two (2) coats high performance acrylic rubber based paint and one (1) finishing coat of anti-fungi and anti-algae emulsion paint on existing previously decorated/non decorated concrete, brick or hollow block surfaces, plastered surfaces, plain, perforated or grilled asbestos surfaces, precast concrete vents, etc (measured flat overall).	sq m	8.80
P.23	Prepare as specified and apply two (2) coats of vinyl silk emulsion paint on existing previously decorated/non decorated concrete, brick or hollow block surfaces, plastered surfaces, plain, perforated or grilled asbestos surfaces, precast concrete vents, etc (measured flat overall).	sq m	3.50
P.24	Prepare as specified and apply one coat of vinyl silk emulsion paint.	sq m	1.80
P.25	Prepare as specified and use texture roller to apply two (2) coats of vinyl silk emulsion paint on existing previously decorated/non decorated concrete, brick or hollow block surfaces, plastered surfaces, plain, perforated or grilled asbestos surfaces, precast concrete vents, etc (measured flat overall).	sq m	3.50
P.26	Prepare and apply two (2) finishing coats of weather shield finished acrylic emulsion paint on existing previously decorated/non decorated concrete, brick or hollow block surfaces, plastered	sq m	3.80
P.27	surfaces, plain, perforated or grilled asbestos surfaces, precast concrete vents, etc (measured flat overall).		
P.28	P&A one finishing coats of weather shield acrylic emulsion paint on existing concrete surfaces.	sq m	2.00
P.29	Brush down and apply one (1) finishing coat of pure acrylic emulsion paint used for both interior and exterior decorations on existing previously decorated/non decorated concrete, brick or hollow block surfaces, plastered surfaces, plain, perforated or grilled asbestos surfaces, precast concrete vents, etc (measured flat overall).	sq m	1.50



S/No	Description	Unit	Unit Cost (\$)
P.30	Apply two (2) finishing coats of pure acrylic emulsion paint on existing previously decorated/non decorated concrete, brick or hollow block surfaces, plastered surfaces, plain, perforated or grilled asbestos surfaces, precast concrete vents, etc (measured flat overall).	sq m	2.20
P.31	Brush down and apply one (1) finishing coat of high performance acrylic emulsion paint on existing previously decorated/non decorated concrete, brick or hollow block surfaces, plastered surfaces, plain, perforated or grilled asbestos surfaces, precast concrete vents, etc (measured flat overall).	sq m	1.80
P.32	Brush down and apply two (2) finishing coat of high performance acrylic emulsion paint on existing previously decorated/non decorated concrete, brick or hollow block surfaces, plastered surfaces, plain, perforated or grilled asbestos surfaces, precast concrete vents, etc (measured flat overall).	sq m	3.00
P.33	Brush down and apply two(2) finishing coat of anti-fungus acrylic emulsion paint on existing previously decorated/non decorated concrete, brick or hollow block surfaces, plastered surfaces, plain, perforated or grilled asbestos surfaces, precast concrete vents, etc (measured flat overall).	sq m	3.50
P.34	Prepare and apply one (1) coat of epoxy primer and one (1) finishing coat of polyurethane paint on existing previously decorated/non decorated concrete, brick or hollow block surfaces, plastered surfaces, plain, perforated or grilled asbestos surfaces, precast concrete vents, etc (measured flat overall).	sq m	8.50
P.35	Prepare and apply one (1) coat of epoxy primer and two (2) finishing coat of polyurethane paint on existing previously decorated/non decorated concrete, brick or hollow block surfaces, plastered surfaces, plain, perforated or grilled asbestos surfaces, precast concrete vents, etc (measured flat overall).	sq m	9.50
P.36	Brush down and apply one (1) finishing coat of cement paint on existing previously decorated/non decorated concrete, brick or hollow block surfaces, plastered surfaces, plain, perforated or grilled asbestos surfaces, precast concrete vents, etc (measured flat overall).	sq m	1.60
P.37	Brush down and apply one (1) coat polyurethane paint (2 pack system) on existing previously decorated/non decorated concrete, brick or hollow block surfaces, plastered surfaces, plain, perforated or grilled asbestos surfaces, precast concrete vents, etc (measured flat overall).	sq m	4.50
P.38	Prepare as specified and apply one (1) coat of cement paint on new concrete, brick or hollow block surfaces, plastered surfaces, new fibreboard surfaces, plain, perforated or precast concrete vents, etc (measured flat overall).	sq m	1.60
P.39	Prepare as specified and apply one (1) base coat 20% dilution and one (1) undercoat and one (1) finishing coat of acrylic emulsion paint used for both interior and exterior decoration on new concrete, brick or hollow block surfaces, plastered surfaces, new fibreboard surfaces, plain, perforated or precast concrete vents, etc (measured flat overall).	sq m	3.50
P.40	Prepare as specified and apply one (1) base coat 20% dilution of acrylic PVA Copolymer emulsion paint used for both interior and exterior decoration on new concrete, brick or hollow block surfaces.	sq m	1.80
P.41	Prepare as specified and apply one (1) base coat of solvent base paint on new concrete, brick or hollow block surfaces.	sq m	3.50
P.42	Prepare as specified and apply one (1) base coat of high performance acrylic emulsion paint on new concrete, brick or hollow block surfaces.	sq m	2.50
P.43	Prepare as specified and apply one (1) coat of oil base wall sealer on new concrete, brick or hollow block surfaces.	sq m	3.50

S/No	Description	Unit	Unit Cost (\$)
P.44	Prepare as specified and apply one (1) coat of water base wall sealer on new concrete, brick or hollow block surfaces.	sq m	1.50
P.45	Prepare as specified and apply one (1) coat of solvent-borne acrylic sealer on new concrete, brick or hollow block surfaces.	sq m	3.50
P.46	Prepare and apply one (1) undercoat of enamel paint on new concrete, brick or hollow block surfaces.	sq m	1.80
P.47	Prepare and apply one (1) finishing coat of enamel paint on new concrete, brick or hollow block surfaces.	sq m	2.20
P.48	Prepare and apply two (2) finishing coat of enamel paint on new concrete, brick or hollow block surfaces.	sq m	4.40
P.49	Prepare and apply one (1) coat of epoxy primer and one (1) finishing coat of polyurethane paint on new concrete, brick or hollow block surfaces.	sq m	8.50
P.50	Prepare and apply one (1) base coat of decorative coating on smooth surface on new concrete, brick or hollow block surfaces.	sq m	2.90
P.51	Prepare and apply one (1) base coat of decorative coating on rough surface on new concrete, brick or hollow block surfaces.	sq m	5.20
P.52	Brush down and apply one finishing coat of low polyamide epoxy coating (2 packs) system	sq m	3.50
P.53	Brush down and apply one finishing coat of high-build epoxy coating	sq m	3.50
P.54	Brush down and apply 2 coats of epoxy chemical resistant finishing paint	sq m	7.50
P.55	Prepare new surfaces as specified on new concrete, brick or hollow block surfaces.	sq m	0.50
P.56	Apply one (1) coat of wood preservative on surfaces of sawn timber (all surfaces measured flat superficial)	sq m	2.80
P.57	Apply two (2) coat of wood preservative on surfaces of sawn timber (all surfaces measured flat superficial)	sq m	5.00
P.58	Apply one (1) coat of wood preservative on surfaces of wrot woodwork (all surfaces measured flat superficial)	sq m	2.80
P.59	Apply two (2) coat of wood preservative on surfaces of wrot woodwork (all surfaces measured flat superficial)	sq m	5.00
P.60	Knot, stop, sand and apply one (1) coat wood primer on general surfaces of chicks, flush, panelled or louvred door/windows, fitments, partition including frames, mullions and transomes (measured flat overall between external edges of frames or external edges of doors and windows).	sq m	2.80
P.61	Knot, stop, sand and apply one (1) coat wood primer on general surfaces of wooden trelliswork (measured flat overall between external edges of frames)	sq m	2.80
P.62	Knot, stop, sand and apply one (1) coat wood primer on general surfaces of panelled windows, panelled doors, fanlights, partitions including frames, mullions and transomes, all panels glazed (Measured flat overall between external edges of frames or external edges of doors and windows)	sq m	2.80
P.63	Knot, stop, sand and apply one (1) coat wood primer on general surfaces of panelled windows, panelled doors, fanlights, partitions including frames, mullions and transomes, with one panel glazed (Measured flat overall between external edges of frames or external edges of doors and windows).	sq m	2.80
P.64	Knot, stop, sand and apply one (1) coat wood primer on surfaces not exceeding 100 mm girth.	m	0.80
P.65	Knot, stop, sand and apply one (1) coat wood primer on surfaces exceeding 100 mm and not exceeding 200 mm girth.	m	1.20
P.66	Knot, stop, sand and apply one (1) coat wood primer on surfaces exceeding 200 mm and not exceeding 300 mm girth.	m	1.50

S/No	Description	Unit	Unit Cost (\$)
P.67	Knot, stop, sand, clean with white spirit and apply one (1) coat stain on general surfaces of chicks, flush, panelled or louvred door/windows, fittings, partition including frames, mullions and transoms (measured flat overall between external edges of frames or external edges of doors and windows).	sq m	3.50
P.68	Knot, stop, sand, clean with white spirit and apply one (1) coat stain on general surfaces of wooden trelliswork (measured flat overall between external edges of frames).	sq m	3.50
P.69	Knot, stop, sand, clean with white spirit and apply one (1) coat stain on general surfaces of panelled windows, panelled doors, fanlights, partitions including frames, mullions and transoms, all panels glazed (Measured flat overall between external edges of frames or external edges of doors and windows).	sq m	3.50
P.70	Knot, stop, sand, clean with white spirit and apply one (1) coat stain on general surfaces of panelled windows, panelled doors, fanlights, partitions and including frames, mullions and transoms, with one panel glazed (Measured flat overall between external edges of frames or external edges of doors and windows).	sq m	3.50
P.71	Knot, stop, sand, clean with white spirit and apply one (1) coat stain on surfaces not exceeding 100 mm girth.	m	0.80
P.72	Knot, stop, sand, clean with white spirit and apply one (1) coat stain on surfaces exceeding 100 mm and not exceeding 200 mm girth.	m	1.20
P.73	Knot, stop, sand, clean with white spirit and apply one (1) coat stain on surfaces exceeding 200 mm and not exceeding 300 mm girth.	m	1.50
P.74	Knot, stop, sand, clean with white spirit and apply one (1) coat of approved wax polish with hand or polishing machine on general surfaces of chicks, flush, panelled or louvred door/windows, fittings, partition including frames, mullions and transoms (measured flat overall between external edges of frames or external edges of doors and windows).	sq m	4.00
P.75	Knot, stop, sand, clean with white spirit and apply one (1) coat of approved wax polish with hand or polishing machine on general surfaces of wooden trelliswork (measured flat overall between external edges of frames).	sq m	4.60
P.76	Knot, stop, sand, clean with white spirit and apply one (1) coat of approved wax polish with hand or polishing machine on general surfaces of panelled windows, panelled doors, fanlights, partitions including frames, mullions and transoms, all panels glazed (Measured flat overall between external edges of frames or external edges of doors and windows).	sq m	3.10
P.77	Knot, stop, sand, clean with white spirit and apply one (1) coat of approved wax polish with hand or polishing machine on general surfaces of panelled windows, panelled doors, fanlights, partitions and including frames, mullions and transoms, with one panel glazed (Measured flat overall between external edges of frames or external edges of doors and windows).	sq m	3.50
P.78	Knot, stop, sand, clean with white spirit and apply one (1) coat of approved wax polish with hand or polishing machine on surfaces not exceeding 100 mm girth.	m	0.60
P.79	Knot, stop, sand, clean with white spirit and apply one (1) coat of approved wax polish with hand or polishing machine on surfaces exceeding 100 mm and not exceeding 200 mm girth	m	1.00
P.80	Knot, stop, sand, clean with white spirit and apply one (1) coat of approved wax polish with hand or polishing machine on surfaces exceeding 200 mm and not exceeding 300 mm girth	m	1.30

S/No	Description	Unit	Unit Cost (\$)
P.81	Knot, stop, sand, clean with white spirit and apply one (1) coat of polyurethane alkyd based transparent wood finish or other equal and approved lacquer and polish to approval general surfaces of chicks, flush, panelled or louvred door/windows, fittings, partitions including frames, mullions and transoms (measured flat overall between external edges of frames or external edges of door and windows).	sq m	4.00
P.82	Knot, stop, sand, clean with white spirit and apply one (1) coat of polyurethane alkyd based transparent wood finish or other equal and approved lacquer and polish to approval general surfaces of wooden trelliswork (measured flat overall between external edges of frames).	sq m	4.60
P.83	Knot, stop, sand, clean with white spirit and apply one (1) coat of polyurethane alkyd based transparent wood finish or other equal and approved lacquer and polish to approval general surfaces of panelled windows, panelled doors, fanlights, partitions including frames, mullions and transoms, all panels glazed (Measured flat overall between external edges of frames or external edges of doors and windows).	sq m	3.10
P.84	Knot, stop, sand, clean with white spirit and apply one (1) coat of polyurethane alkyd based transparent wood finish or other equal and approved lacquer and polish to approval general surfaces of panelled windows, panelled doors, fanlights, partitions and including frames, mullions and transoms, with one panel glazed (Measured flat overall between external edges of frames or external edges of doors and windows).	sq m	5.00
P.85	Knot, stop, sand, clean with white spirit and apply one (1) coat of polyurethane alkyd based transparent wood finish or other equal and approved lacquer and polish to approval on surfaces not exceeding 100 mm girth.	m	1.20
P.86	Knot, stop, sand, clean with white spirit and apply one (1) coat of polyurethane alkyd based transparent wood finish or other equal and approved lacquer and polish to approval on surfaces exceeding 100 mm and not exceeding 200 mm girth.	m	1.50
P.87	Knot, stop, sand, clean with white spirit and apply one (1) coat of polyurethane alkyd based transparent wood finish or other equal and approved lacquer and polish to approval on surfaces exceeding 200 mm and not exceeding 300 mm girth.	m	1.80
P.88	Knot, stop, sand, clean with white spirit and apply one (1) coat of varnish on general surfaces of chicks, flush, panelled or louvred door/windows, fittings, partitions including frames, mullions and transoms (measured flat overall between external edges of frames or external edges of door and windows).	sq m	5.00
P.89	Knot, stop, sand, clean with white spirit and apply one (1) coat of varnish on general surfaces of wooden trelliswork (measured flat overall between external edges of frames).	sq m	5.00
P.90	Knot, stop, sand, clean with white spirit and apply one (1) coat of varnish on general surfaces of panelled windows, panelled doors, fanlights, partitions including frames, mullions and transoms, all panels glazed (Measured flat overall between external edges of frames or external edges of doors and windows).	sq m	5.00
P.91	Knot, stop, sand, clean with white spirit and apply one (1) coat of varnish on general surfaces of panelled windows, panelled doors, fanlights, partitions and including frames, mullions and transoms, with one panel glazed (Measured flat overall between external edges of frames or external edges of doors and windows).	sq m	5.00
P.92	Knot, stop, sand, clean with white spirit and apply one (1) coat of varnish on surfaces not exceeding 100 mm girth.	m	1.20

S/No	Description	Unit	Unit Cost (\$)
P.93	Knot, stop, sand, clean with white spirit and apply one (1) coat of varnish on surfaces exceeding 100 mm and not exceeding 200 mm girth.	m	1.50
P.94	Knot, stop, sand, clean with white spirit and apply one (1) coat of varnish on surfaces exceeding 200 mm and not exceeding 300 mm girth.	m	1.80
P.95	Apply one (1) coat of wood preservative on existing painted surfaces of sawn and wrot woodwork (all surfaces measured flat superficial).	sq m	2.50
P.96	Apply two (2) coats of wood preservative on existing painted surfaces of sawn and wrot woodwork (all surfaces measured flat superficial).	sq m	4.80
P.97	Prepare and apply 2 coats of approved chalkboard paint to chalkboard in accordance with the Manufacturer's instructions on existing painted surfaces of woodwork.	sq m	4.60
P.98	Sandpaper, stop and prepare general surfaces of chicks, flush, panelled or louvred door/windows, fitments, partition including frames, mullions and transomes to receive new paintwork (measured flat overall between external edges of frames or external edges of doors and windows).	sq m	0.80
P.99	Sandpaper, stop and prepare general surfaces of wooden trelliswork to receive new paintwork (measured flat overall between external edges of frames).	sq m	1.20
P.100	Sandpaper, stop and prepare general surfaces of panelled windows, panelled doors, fanlights, partitions including frames, mullions and transomes, all panels glazed to receive new paintwork (Measured flat overall between external edges of frames or external edges of doors and windows).	sq m	1.20
P.101	Sandpaper, stop and prepare general surfaces of panelled windows, panelled doors, fanlights, partitions and including frames, mullions and transomes, with one panel glazed to receive new paintwork (Measured flat overall between external edges of frames or external edges of doors and windows).	sq m	1.20
P.102	Sandpaper, stop and prepare surfaces not exceeding 100 mm girth to receive new paintwork.	m	0.50
P.103	Sandpaper, stop and prepare surfaces exceeding 100 mm and not exceeding 200 mm girth to receive new paintwork.	m	0.80
P.104	Sandpaper, stop and prepare surfaces exceeding 200 mm and not exceeding 300 mm girth to receive new paintwork.	m	1.20
P.105	Prepare, clean with white spirit and apply one (1) coat of wood primer on general surfaces of chicks, flush, panelled or louvred door/windows, fitments, partition including frames, mullions and transomes (measured flat overall between external edges of frames or external edges of door and windows).	sq m	2.50
P.106	Prepare, clean with white spirit and apply one (1) coat of wood primer on general surfaces of wooden trelliswork (measured flat overall between external edges of frames).	sq m	2.50
P.107	Prepare, clean with white spirit and apply one (1) coat of wood primer on general surfaces of panelled windows, panelled doors, fanlights, partitions including frames, mullions and transomes, all panels glazed (Measured flat overall between external edges of frames or external edges of doors and windows).	sq m	2.50
P.108	Prepare, clean with white spirit and apply one (1) coat of wood primer on general surfaces of panelled windows, panelled doors, fanlights, partitions and including frames, mullions and transomes, with one panel glazed (Measured flat overall between external edges of frames or external edges of doors and windows).	sq m	2.50
P.109	Prepare, clean with white spirit and apply one (1) coat of wood primer on surfaces not exceeding 100 mm girth.	m	0.50
P.110	Prepare, clean with white spirit and apply one (1) coat of wood primer on surfaces exceeding 100 mm and not exceeding 200 mm girth.	m	0.80

S/No	Description	Unit	Unit Cost (\$)
P.111	Prepare, clean with white spirit and apply one (1) coat of wood primer on surfaces exceeding 200 mm and not exceeding 300 mm girth.	m	1.20
P.112	Sandpaper, stop and clean with white spirit on general surfaces of chicks, flush, panelled or louvred door/windows, fitments, partitions including frames, mullions and transomes to receive new paintwork (measured flat overall between external edges of frames or external edges of door and windows).	sq m	1.50
P.113	Sandpaper, stop and clean with white spirit on general surfaces of wooden trelliswork to receive new paintwork (measured flat overall between external edges of frames).	sq m	1.80
P.114	Sandpaper, stop and clean with white spirit on general surfaces of panelled windows, panelled doors, fanlights, partitions including frames, mullions and transomes, all panels glazed to receive new paintwork (Measured flat overall between external edges of frames or external edges of doors and windows).	sq m	2.00
P.115	Sandpaper, stop and clean with white spirit on general surfaces of panelled windows, panelled doors, fanlights, partitions and including frames, mullions and transomes, with one panel glazed to receive new paintwork (Measured flat overall between external edges of frames or external edges of doors and windows).	sq m	0.70
P.116	Sandpaper, stop and clean with white spirit on surfaces not exceeding 100 mm girth to receive new paintwork.	m	0.50
P.117	Sandpaper, stop and clean with white spirit on surfaces exceeding 100 mm and not exceeding 200 mm girth to receive new paintwork.	m	0.80
P.118	Sandpaper, stop and clean with white spirit on surfaces exceeding 200 mm and not exceeding 300 mm girth to receive new paintwork.	m	1.20
P.119	Sandpaper, stop and clean with white spirit and apply one (1) coat of stain on general surfaces of chicks, flush, panelled or louvred door/windows, fitments, partitions including frames, mullions and transomes (measured flat overall between external edges of frames or external edges of door and windows).	sq m	3.50
P.120	Sandpaper, clean with white spirit and apply one (1) coat of stain on general surfaces of wooden trelliswork (measured flat overall between external edges of frames).	sq m	3.50
P.121	Sandpaper, clean with white spirit and apply one (1) coat of stain on general surfaces of panelled windows, panelled doors, fanlights, partitions including frames, mullions and transomes, all panels glazed (Measured flat overall between external edges of frames or external edges of doors and windows).	sq m	3.50
P.122	Sandpaper, clean with white spirit and apply one (1) coat of stain on general surfaces of panelled windows, panelled doors, fanlights, partitions and including frames, mullions and transomes, with one panel glazed (Measured flat overall between external edges of frames or external edges of doors and windows).	sq m	3.50
P.123	Sandpaper, clean with white spirit and apply one (1) coat of stain on surfaces not exceeding 100 mm girth.	m	0.80
P.124	Sandpaper, clean with white spirit and apply one (1) coat of stain on surfaces exceeding 100 mm and not exceeding 200 mm girth.	m	1.20
P.125	Sandpaper, clean with white spirit and apply one (1) coat of stain on surfaces exceeding 200 mm and not exceeding 300 mm girth.	m	1.60
P.126	Rub down and apply one (1) undercoat of enamel paint on general surfaces of chicks, flush, panelled or louvred door/windows, fitments, partitions including frames, mullions and transomes (measured flat overall between external edges of frames or external edges of door and windows).	sq m	2.50

S/No	Description	Unit	Unit Cost (\$)
P.127	Rub down and apply one (1) undercoat of enamel paint on general surfaces of wooden trelliswork (measured flat overall between external edges of frames).	sq m	2.50
P.128	Rub down and apply one (1) undercoat of enamel paint on general surfaces of panelled windows, panelled doors, fanlights, partitions including frames, mullions and transomes, all panels glazed (Measured flat overall between external edges of frames or external edges of doors and windows).	sq m	2.50
P.129	Rub down and apply one (1) undercoat of enamel paint on general surfaces of panelled windows, panelled doors, fanlights, partitions and including frames, mullions and transomes, with one panel glazed (Measured flat overall between external edges of frames or external edges of doors and windows).	sq m	2.50
P.130	Rub down and apply one (1) undercoat of enamel paint on surfaces not exceeding 100 mm girth.	m	0.50
P.131	Rub down and apply one (1) undercoat of enamel paint on surfaces exceeding 100 mm and not exceeding 200 mm girth.	m	0.80
P.132	Rub down and apply one (1) undercoat of enamel paint on surfaces exceeding 200 mm and not exceeding 300 mm girth.	m	1.20
P.133	Rub down and apply one (1) finishing coat of enamel paint on general surfaces of chicks, flush, panelled or louvred door/windows, fitments, partitions including frames, mullions and transomes (measured flat overall between external edges of frames or external edges of door and windows).	sq m	2.50
P.134	Rub down and apply one (1) finishing coat of enamel paint on general surfaces of wooden trelliswork (measured flat overall between external edges of frames).	sq m	2.50
P.135	Rub down and apply one (1) finishing coat of enamel paint on general surfaces of panelled windows, panelled doors, fanlights, partitions including frames, mullions and transomes, all panels glazed (Measured flat overall between external edges of frames or external edges of doors and windows).	sq m	2.50
P.136	Rub down and apply one (1) finishing coat of enamel paint on general surfaces of panelled windows, panelled doors, fanlights, partitions and including frames, mullions and transomes, with one panel glazed (Measured flat overall between external edges of frames or external edges of doors and windows).	sq m	2.50
P.137	Rub down and apply one (1) finishing coat of enamel paint on surfaces not exceeding 100 mm girth.	m	0.50
P.138	Rub down and apply one (1) finishing coat of enamel paint on surfaces exceeding 100 mm and not exceeding 200 mm girth.	m	0.80
P.139	Rub down and apply one (1) finishing coat of enamel paint on surfaces exceeding 200 mm and not exceeding 300 mm girth.	m	1.00
P.140	Rub down and apply two (2) finishing coat of enamel paint on general surfaces of chicks, flush, panelled or louvred door/windows, fitments, partitions including frames, mullions and transomes (measured flat overall between external edges of frames or external edges of door and windows).	sq m	3.50
P.141	Rub down and apply two (2) finishing coat of enamel paint on general surfaces of wooden trelliswork (measured flat overall between external edges of frames).	sq m	4.00
P.142	Rub down and apply two (2) finishing coat of enamel paint on general surfaces of panelled windows, panelled doors, fanlights, partitions including frames, mullions and transomes, all panels glazed (Measured flat overall between external edges of frames or external edges of doors and windows).	sq m	3.50

S/No	Description	Unit	Unit Cost (\$)
P.143	Rub down and apply two (2) finishing coat of enamel paint on general surfaces of panelled windows, panelled doors, fanlights, partitions and including frames, mullions and transomes, with one panel glazed (Measured flat overall between external edges of frames or external edges of doors and windows).	sq m	3.50
P.144	Rub down and apply two (2) finishing coat of enamel paint on surfaces not exceeding 100 mm girth.	m	1.20
P.145	Rub down and apply two (2) finishing coat of enamel paint on surfaces exceeding 100 mm and not exceeding 200 mm girth.	m	1.50
P.146	Rub down and apply two (2) finishing coat of enamel paint on surfaces exceeding 200 mm and not exceeding 300 mm girth.	m	1.80
P.147	Rub down and apply one (1) coat of stain on general surfaces of chicks, flush, panelled or louvered door/windows, fitments, partitions including frames, mullions and transomes (measured flat overall between external edges of frames or external edges of door and windows).	sq m	3.50
P.148	Rub down and apply one (1) coat of stain on general surfaces of wooden trelliswork (measured flat overall between external edges of frames).	sq m	3.50
P.149	Rub down and apply one (1) coat of stain on general surfaces of panelled windows, panelled doors, fanlights, partitions including frames, mullions and transomes, all panels glazed (Measured flat overall between external edges of frames or external edges of doors and windows).	sq m	2.50
P.150	Rub down and apply one (1) coat of stain on general surfaces of panelled windows, panelled doors, fanlights, partitions and including frames, mullions and transomes, with one panel glazed (Measured flat overall between external edges of frames or external edges of doors and windows).	sq m	3.00
P.151	Rub down and apply one (1) coat of stain on surfaces not exceeding 100 mm girth.	m	0.50
P.152	Rub down and apply one (1) coat of stain on surfaces exceeding 100 mm and not exceeding 200 mm girth.	m	0.80
P.153	Rub down and apply one (1) coat of stain on surfaces exceeding 200 mm and not exceeding 300 mm girth.	m	1.20
P.154	Rub down and apply one (1) coat of varnish on general surfaces of chicks, flush, panelled or louvered door/windows, fitments, partitions including frames, mullions and transomes (measured flat overall between external edges of frames or external edges of door and windows).	sq m	3.50
P.155	Rub down and apply one (1) coat of varnish on general surfaces of wooden trelliswork (measured flat overall between external edges of frames).	sq m	3.50
P.156	Rub down and apply one (1) coat of varnish on general surfaces of panelled windows, panelled doors, fanlights, partitions including frames, mullions and transomes, all panels glazed (Measured flat overall between external edges of frames or external edges of doors and windows).	sq m	3.50
P.157	Rub down and apply one (1) coat of varnish on general surfaces of panelled windows, panelled doors, fanlights, partitions and including frames, mullions and transomes, with one panel glazed (Measured flat overall between external edges of frames or external edges of doors and windows).	sq m	3.50
P.158	Rub down and apply one (1) coat of varnish on surfaces not exceeding 100 mm girth.	m	0.50
P.159	Rub down and apply one (1) coat of varnish on surfaces exceeding 100 mm and not exceeding 200 mm girth.	m	0.80
P.160	Rub down and apply one (1) coat of varnish on surfaces exceeding 200 mm and not exceeding 300 mm girth.	m	1.20



S/No	Description	Unit	Unit Cost (\$)
P.161	Rub down and apply one (1) coat of varnish on loose furniture of staff quarters such as 1-seater sofa (dining chairs included).	no	6.00
P.162	Rub down and apply one (1) coat of varnish on loose furniture of staff quarters such as 2-seater sofa (dining chairs included).	no	8.50
P.163	Rub down and apply one (1) coat of varnish on loose furniture of staff quarters such as 3-seater sofa (dining chairs included).	no	12
P.164	Rub down and apply one (1) coat of shellac on general surfaces of chicks, flush, panelled or louvred door/windows, fitments, partitions including frames, mullions and transomes (measured flat overall between external edges of frames or external edges of door and windows).	sq m	2.50
P.165	Rub down and apply one (1) coat of shellac on general surfaces of wooden trelliswork (measured flat overall between external edges of frames).	sq m	3.50
P.166	Rub down and apply one (1) coat of shellac on general surfaces of panelled windows, panelled doors, fanlights, partitions including frames, mullions and transomes, all panels glazed (Measured flat overall between external edges of frames or external edges of doors and windows).	sq m	3.50
P.167	Rub down and apply one (1) coat of shellac on general surfaces of panelled windows, panelled doors, fanlights, partitions and including frames, mullions and transomes, with one panel glazed (Measured flat overall between external edges of frames or external edges of doors and windows).	sq m	3.50
P.168	Rub down and apply one (1) coat of shellac on surfaces not exceeding 100 mm girth.	m	0.50
P.169	Rub down and apply one (1) coat of shellac on surfaces exceeding 100 mm and not exceeding 200 mm girth.	m	0.80
P.170	Rub down and apply one (1) coat of shellac on surfaces exceeding 200 mm and not exceeding 300 mm girth.	m	1.20
P.171	Not In Use		
P.172	Not In Use		
P.173	Not In Use		
P.174	Rub down and apply two (2) coat of shellac on general surfaces of chicks, flush, panelled or louvred door/windows, fitments, partitions including frames, mullions and transomes (measured flat overall between external edges of frames or external edges of door and windows).	sq m	4.50
P.175	Rub down and apply two (2) coat of shellac on general surfaces of wooden trelliswork (measured flat overall between external edges of frames).	sq m	4.50
P.176	Rub down and apply two (2) coat of shellac on general surfaces of panelled windows, panelled doors, fanlights, partitions including frames, mullions and transomes, all panels glazed (Measured flat overall between external edges of frames or external edges of doors and windows).	sq m	4.50
P.177	Rub down and apply two (2) coat of shellac on general surfaces of panelled windows, panelled doors, fanlights, partitions and including frames, mullions and transomes, with one panel glazed (Measured flat overall between external edges of frames or external edges of doors and windows).	sq m	4.50
P.178	Rub down and apply two (2) coat of shellac on surfaces not exceeding 100 mm girth.	m	0.80
P.179	Rub down and apply two (2) coat of shellac on surfaces exceeding 100 mm and not exceeding 200 mm girth.	m	1.20
P.180	Rub down and apply two (2) coat of shellac on surfaces exceeding 200 mm and not exceeding 300 mm girth.	m	1.50

S/No	Description	Unit	Unit Cost (\$)
P.181	Rub down and apply one (1) coat of polyurethane-alkyd based transparent wood finish or other equal and approved lacquer and polish to approval on general surfaces of chicks, flush, panelled or louvred door/windows, fitments, partitions including frames, mullions and transomes (measured flat overall between external edges of frames or external edges of door and windows).	sq m	4.50
P.182	Rub down and apply one (1) coat of polyurethane-alkyd based transparent wood finish or other equal and approved lacquer and polish to approval on general surfaces of wooden trelliswork (measured flat overall between external edges of frames).	sq m	4.50
P.183	Rub down and apply one (1) coat of polyurethane-alkyd based transparent wood finish or other equal and approved lacquer and polish to approval on general surfaces of panelled windows, panelled doors, fanlights, partitions including frames, mullions and transomes, all panels glazed (Measured flat overall between external edges of frames or external edges of doors and windows).	sq m	3.00

**PRICE SCHEDULE OF RATES II – MECHANICAL WORKS****1. AIRCON MAINTENANCE**

<b>S/No</b>	<b>Description</b>	<b>Unit</b>	<b>Unit Cost (\$)</b>
1 to 21	Not In Use		
22	To supply labours, materials and transport for the dismantling and inspection and returning the compressors to the original location only when the compressors is beyond the economical repair	no	100.00
23	To supply and replace New Inverter Type 220V/240V single Phase Compressor - up to 1 H.P. (9,000 btu)	no	500.00
24	To supply and replace New Inverter Type 220V/240V single Phase Compressor - 1 1/2 H.P. (12,000 btu - 16,000 btu) up to 1 H.P. (9,000 btu)	no	800.00
25	To supply and replace New Inverter Type 220V/240V single Phase Compressor - 2 1/2 H.P. (18,000 btu - 24,000 btu)	no	900.00
26	To supply labours, materials & transport for the dismantling and replacement of new inverter compressor including installation, brazing, purging system, vacuum, charging gas and testing and commissioning (included disposal of defective parts) 230v/415v 50 Hz, up to 2.5kw	no	2025.00
27	To supply labours, materials & transport for the dismantling and replacement of new inverter compressor including installation, brazing, purging system, vacuum, charging gas and testing and commissioning (included disposal of defective parts) 415v, 50Hz, three phase up to 3.5 kw	no	2205.00
28	To supply labours, materials & transport for the dismantling and replacement of new inverter compressor including installation, brazing, purging system, vacuum, charging gas and testing and commissioning (included disposal of defective parts) 415v, 50Hz, three phase up to 4.5 kw	no	2280.00
29	To supply labours, materials & transport for the dismantling and replacement of new inverter compressor including installation, brazing, purging system, vacuum, charging gas and testing and commissioning (included disposal of defective parts) 415v, 50Hz, three phase up to 5.5 kw	no	2550.00
30	To supply labours, materials & transport for the dismantling and replacement of new inverter compressor including installation, brazing, purging system, vacuum, charging gas and testing and commissioning (included disposal of defective parts) 415v, 50Hz, three phase up to 7.5 kw	no	2700.00
31	To supply labours, materials & transport for the dismantling and replacement of new inverter compressor including installation, brazing, purging system, vacuum, charging gas and testing and commissioning (included disposal of defective parts) 230v/415v, 50Hz, up to 11.5 kw	no	2970.00
32	To supply & replace new Hermetic rotary compressor, 230V, 50 Hz single phase up to 10,000 Btuh including installation, changing filter drier, flushing and vacuuming system, re-charging gas re-commissioning, removal and disposal of the faulty units	no	650.00
33	To supply & replace new Hermetic rotary compressor, 230V, 50 Hz	no	750.00

S/No	Description	Unit	Unit Cost (\$)
34	single phase up to 12,000 Btuh including installation, changing filter drier, flushing and vacuuming system, re-charging gas re-commissioning, removal and disposal of the faulty units To supply & replace new Hermetic rotary compressor, 230V, 50 Hz single phase up to 24,000 Btuh including installation, changing filter drier, flushing and vacuuming system, re-charging gas re-commissioning, removal and disposal of the faulty units	no	950.00
35	To supply & replace new Hermetic rotary compressor, 230V, 50 Hz single phase up to 29,000 Btuh including installation, changing filter drier, flushing and vacuuming system, re-charging gas re-commissioning, removal and disposal of the faulty units	no	1150.00
36	To supply all materials, labours and transports to replace new hermetic compressor including installation, brazing, purging system, vacuum, charging gas and testing and commissioning (included disposal of defective parts) 415v, 50Hz up to 12,000 btuh	no	960.00
37	To supply all materials, labours and transports to replace new hermetic compressor including installation, brazing, purging system, vacuum, charging gas and testing and commissioning (included disposal of defective parts) 415v, 50Hz up to 18,000 Btuh	no	980.00
38	To supply all materials, labours and transports to replace new hermetic compressor including installation, brazing, purging system, vacuum, charging gas and testing and commissioning (included disposal of defective parts) 415v, 50Hz up to 2,6000 Btuh	no	2317.00
39	To supply all materials, labours and transports to replace new hermetic compressor including installation, brazing, purging system, vacuum, charging gas and testing and commissioning (included disposal of defective parts) 415v, 50Hz up to 38,000 Btuh	no	2320.00
40	To supply all materials, labours and transports to replace new hermetic compressor including installation, brazing, purging system, vacuum, charging gas and testing and commissioning (included disposal of defective parts) 415v, 50Hz up to 52,000 Btuh	no	2466.00
41	To supply all materials, labours and transports to replace new hermetic compressor including installation, brazing, purging system, vacuum, charging gas and testing and commissioning (included disposal of defective parts) 415v, 50Hz up to 75,000 Btuh	no	3500.00
42	To supply labour to pressurize system and perform refrigerant leaks test with nitrogen up to 240,000 Btuh (Labour and nitrogen only)	no	150.00
43	To supply labour, tools and materials to pressurise system and perform leak test with nitrogen gas repair gas leaks, leak test (after repair) replace filter drier, vacuum system and charge gas up to 6000,000 Btuh	no	300.00
44	To supply labour, materials and transport to replace High Pressure Switch-auto reset	no	80.00
45	To supply labour, materials and transport to replace Low Pressure Switch-auto reset	no	80.00
46	To supply labour, materials and transport to replace Expansion Valves including brazing and flaring up to 60,000 Btuh	no	150.00
47	To supply labour, materials and transport to replace Expansion Valves including brazing and flaring up to 180,000 Btuh	no	170.00
48	To supply labour, materials and transport to replace Liquid Filter Line Drier Up to 3/8" (9.6mm) Diameter	no	65.00

S/No	Description	Unit	Unit Cost (\$)
49	To supply labour, materials and transport to replace Liquid Line Filter Drier Up to 1/2" (12.7mm) Diameter	no	80.00
50	To supply labour, materials and transport to replace Liquid Line Filter Drier Up to 5/8" (16.0mm) Diameter	no	90.00
51	To supply labour, materials and transport to replace Liquid Line Filter Drier Up to 3/4" (19.1mm) Diameter	no	100.00
52	To supply labour, materials and transport to replace Liquid Line Filter Drier Up to 1" (25.4mm) Diameter	no	120.00
53	To supply labour, materials and transport to replace Sight glass with moisture indicator up to 1/4" x 1/4" (6.5 x 6.5mm)	no	88.00
54	To supply labour, materials and transport to replace Sight glass with moisture indicator up to 3/8 x 3/8" (9.6 x 9.6mm)	no	99.00
55	To supply labour, materials and transport to replace Sight glass with moisture indicator up to 1/2 x 1/2" (12.7 x 12.7mm)	no	70.00
56	To supply labour, materials and transport to replace Sight glass with moisture indicator up to 5/8 x 5/8" (16.0 x 16.0mm)	no	80.00
57	To supply labour, materials and transport to replace Sight glass with moisture indicator up to 3/4 x 3/4" (19.1 x 19.1mm)	no	90.00
58	To supply labour, materials and transport to replace Sight glass with moisture indicator up to 1" x 1" (25.4 x 25.4mm)	no	100.00
59	To supply labour, materials and transport to replace Solenoid Valve up to 6.5mm	no	88.00
60	To supply labour, materials and transport to replace Solenoid Valve up to 12.7mm	no	132.00
61	To supply labour, materials and transport to replace Solenoid Valve up to 19.1mm	no	176.00
62	To supply labour, materials and transport to replace Solenoid Valve up to 25.4mm	no	220.00
63	To supply labour, materials and transport to replace terminal clip	no	1.20
64	To supply labour, materials and transport to install 6.5mm diameter Refrigerant pipe	no	6.50
65	To supply labour, materials and transport to install 9.5mm diameter Refrigerant pipe	no	7.50
66	To supply labour, materials and transport to install 12.5mm diameter Refrigerant pipe	no	8.50
67	To supply labour, materials and transport to install 16.0mm diameter Refrigerant pipe	no	9.50
68	To supply labour, materials and transport to install 1.0mm diameter Refrigerant pipe	no	10.00
69	To supply labour & materials to replace pillow block bearings up to 1/2" (12.7mm) diameter	no	90.00
70	To supply labour & materials to replace pillow block bearings up to 1" (25.4mm) diameter	no	150.00
71	To supply labour & materials to replace pillow block bearings up to 1 1/2" (38.1mm) diameter	no	198.00
72	To supply all labour, materials. transport and tools to replace/install taper lock pulley (complete with bush and max bore) including aligning and commissioning the system for single A groove pulley up to SPA 112 x 1	no	145.00
73	To supply all labour, materials. transport and tools to replace/install taper lock pulley (complete with bush and max bore) including	no	170.00

S/No	Description	Unit	Unit Cost (\$)
74	aligning and commissioning the system for single A groove pulley up to SPA 180 x 1 To supply all labour, materials. transport and tools to replace/install taper lock pulley (complete with bush and max bore) including aligning and commissioning the system for single A groove pulley up to SPA 200 x 1	no	180.00
75	To supply all labour, materials. transport and tools to replace/install taper lock pulley (complete with bush and max bore) including aligning and commissioning the system for single B groove pulley up to SPB 150 x 1	no	170.00
76	To supply all labour, materials. transport and tools to replace/install taper lock pulley (complete with bush and max bore) including aligning and commissioning the system for single B groove pulley up to SPB 190 x 1	no	210.00
77	To supply all labour, materials. transport and tools to replace/install taper lock pulley (complete with bush and max bore) including aligning and commissioning the system for single B groove pulley up to SPB 250 x 1	no	250.00
78	To supply all labour, materials. transport and tools to replace/install taper lock pulley (complete with bush and max bore) including aligning and commissioning the system for double B groove pulley up to SPB 140 x 2	no	200.00
79	To supply all labour, materials. transport and tools to replace/install taper lock pulley (complete with bush and max bore) including aligning and commissioning the system for double B groove pulley up to SPB 180 x 2	no	210.00
80	To supply all labour, materials. transport and tools to replace/install taper lock pulley (complete with bush and max bore) including aligning and commissioning the system for double B groove pulley up to SPB 140 x 2	no	230.00
81	To supply all labour, materials. transport and tools to replace/install taper lock pulley (complete with bush and max bore) including aligning and commissioning the system for double B groove pulley up to SPB 200 x 2	no	240.00
82	To supply all labour, materials. transport and tools to replace/install taper lock pulley (complete with bush and max bore) including aligning and commissioning the system for double B groove pulley up to SPB 250 x 2	no	270.00
83	To supply and replace permanent washable air filter mats with 85% efficiency without filter frame. Total surface area up to 0.2 sq.m	no	6.00
84	To supply and replace permanent washable air filter mats with 85% efficiency complete with filter frame thickness up to 4mm. Total surface area up to 0.2 sq m	no	13.00
85	To supply and replace permanent washable air filter mats with 85% efficiency complete with filter frame thickness up to 7mm. Total surface area up to 0.2 sq m	no	24.00
86	To supply all materials, labour and transport for the replacement of the bearings/bushings only including removing, dismantling, servicing, reinstallation and re-commissioning for Single Phase 230v, motor up to 36,000 Btuh	no	140.00
87	To supply all materials, labour and transport for the replacement of	no	155.00

S/No	Description	Unit	Unit Cost (\$)
88	the bearings/bushings only including removing, dismantling, servicing, reinstallation and re-commissioning for Three phase 415v, motor up to 60,000 Btuh To supply all materials, labour and transport for the replacement of the bearings/bushings only including removing, dismantling, servicing, reinstallation and re-commissioning for Three phase 415v, motor up to 75,000 Btuh	no	160.00
89	To supply all materials, labour and transport for the replacement of the bearings/bushings only including removing, dismantling, servicing, reinstallation and re-commissioning for Three phase 415v, motor up to 120,000 Btuh	no	180.00
90	To supply all materials, labour and transport for the replacement of new motor including installation and commissioning , single phase 230V, 4 poles/6 poles, 50Hz up to 0.25 kw	no	240.00
91	To supply all materials, labour and transport for the replacement of new motor including installation and commissioning , single phase 230V, 4 poles/6 poles, 50Hz up to 0.37 kw	no	300.00
92	To supply all materials, labour and transport for the replacement of new motor including installation and commissioning , single phase 230V, 4 poles/6 poles, 50Hz up to 0.56kw	no	340.00
93	To supply all materials, labour and transport for the replacement of new motor including installation and commissioning , single phase 230V, 4 poles/6 poles, 50Hz up to 0.75kw	no	390.00
94	To supply all materials, labour and transport for the replacement of new motor including installation and commissioning , single phase 230V, 4 poles/6 poles, 50Hz up to 1.5kw	no	420.00
95	To supply all materials, labour and transport for the replacement of new motor including installation and commissioning , single phase 230V, 4 poles/6 poles, 50Hz up to 2.25kw	no	450.00
96	To supply all materials, labour and transport for the replacement of new motor including installation and commissioning , three phase 415v, 50Hz, 4 poles or 6 poles, up to 1.5kw	no	320.00
97	To supply all materials, labour and transport for the replacement of new motor including installation and commissioning , three phase 415v, 50Hz, 4 poles or 6 poles, up to 2.25kw	no	420.00
98	To supply all materials, labour and transport for the replacement of new motor including installation and commissioning , three phase 415v, 50Hz, 4 poles or 6 poles, up to 3.75kw	no	500.00
99	To supply all materials, labour and transport for the replacement of new motor including installation and commissioning , three phase 415v, 50Hz, 4 poles or 6 poles, up to 5.6kw	no	600.00
100	To supply all materials, labour and transport for the replacement of new motor including installation and commissioning , three phase 415v, 50Hz, 4 poles to 6 poles, up to 11.5kw	no	720.00
101	To supply and replace control relay c/w socket 8 to 12 pins, coil voltage 230V	no	60.00
102	To supply and replace control relay c/w socket 8 to 12 pins, coil voltage 24V	no	60.00
103	To supply and replace time delay relay c/w socket 8 to 12 pins, coil voltage 230V. Delay time : 1-30 sec for ducted split/package unit	no	90.00
104	To supply and replace time delay relay c/w socket 8 to 12 pins, coil	no	90.00

S/No	Description	Unit	Unit Cost (\$)
	voltage 24V. Delay time : 1-30 sec for ducted split/package unit		
105	To supply and replace capacitor up to 6 uf (ufarad)	no	17.00
106	To supply and replace capacitor up to 20uf (ufarad)	no	29.00
107	To supply and replace capacitor up to 30uf (ufarad)	no	42.00
108	To supply and replace capacitor up to 60uf (ufarad)	no	80.00
109	To supply materials and labour to replace thermal overload relay - 3 phase (0.12A to 0.18A) up to (4.0A to 6.0A)	no	80.00
110	To supply materials and labour to replace thermal overload relay - 3 phase (5.6A to 8.0A) up to (22A to 24A) for ducted split unit	no	90.00
111	To supply materials and labour to replace thermal overload relay - 3 phase 24A to 32A for ducted split/package unit	no	110.00
112	To supply materials and labour to replace thermal overload relay - 3 phase 30A to 45A (including terminal cables) for ducted split/package unit	no	145.00
113	To supply materials and labour to replace thermal overload relay - 3 phase 60A to 75A (including terminal cables) for ducted split/package unit	no	175.00
114	To supply labour and materials to replace auxiliary contact c/w block 2 contacts for ducted split/package unit	no	30.00
115	To supply labour and materials to replace auxiliary contact c/w block 4 contacts for ducted split/package unit	no	40.00
116	To supply all materials, labour and transport to install/replace indicating light with holder for control panel.	no	10.00
117	To supply all materials, labour and transport to install/replace indicating light without holder for control panel.	no	2.00
118	To supply all materials, labour and transport to install/replace fuse (all sizes) for control panel	no	3.00
119	To supply labour & materials to install/replace galvanized steel conduit c/w saddles run on surface 25mm diameter	m	5.50
120	To supply labour & materials to install/replace galvanized steel conduit c/w saddles run on surface 40mm diameter	m	6.10
121	To supply labour & materials to install/replace galvanized steel conduit c/w saddles run in wall/in floor up to 25mm diameter	m	4.80
122	To supply labour & materials to install/replace galvanized steel conduit c/w saddles run in wall/in floor up to 32mm diameter	m	6.20
123	To supply labour & materials to install/replace galvanized steel conduit c/w saddles run in wall/in floor up to 50mm diameter	m	9.00
124	To supply labour & materials to install/replace PVC conduit c/w saddles run in wall/in floor up to 25mm diameter	m	2.80
125	To supply labour & materials to install/replace PVC conduit c/w saddles run in wall/in floor up to 38mm diameter	m	3.40
126	To supply labour & materials to install/replace galvanized flexible conduit with pvc sleeving up to 25mm diameter	m	2.80
127	To supply labour & materials to install/replace galvanized flexible conduit with pvc sleeving up to 38mm diameter	m	5.50
128	To supply labour & materials to install/replace Brass termination gland only for metal type flexible conduit with pvc conduit up to 20mm diameter.	m	1.20
129	To supply labour & materials to install/replace Brass termination gland only for metal type flexible conduit up to 25mm diameter.	m	1.50
130	To supply labour & materials to install/replace Brass termination	m	1.80



S/No	Description	Unit	Unit Cost (\$)
131	gland only for metal type flexible conduit up to 50mm diameter. To supply and replace step-down transformer (240V to 24V) up to 50VA	m	100.00
132	To supply labour and materials to install/replace flexible PVC conduit 20mm dia	m	1.80
133	To supply labour and materials to install/replace flexible PVC conduit 25mm dia	m	2.20
134	To supply labour and materials to install/replace PVC termination gland 25mm dia	m	2.50
135	To supply labour and materials to install/replace PVC termination gland 38mm dia	m	3.00
136	To supply labour and materials to install/replace PVC trunking (shall be SISIR Approved type) complete with bracket 100mm x 75mm	m	7.30
137	To supply labour and materials to install/replace PVC trunking (shall be SISIR Approved type) complete with bracket 100mm x 100mm	m	7.40
138	To supply labour and materials to install/replace PVC trunking (shall be SISIR Approved type) complete with bracket 150mm x 75mm	m	8.30
139	To supply labour and materials to install/replace PVC trunking (shall be SISIR Approved type) complete with bracket 200 x 100mm	m	9.30
140	To supply labour and materials to install/replace PVC trunking (shall be SISIR Approved type) complete with bracket 200 x 150mm	m	10.10
141	To supply labour and materials to install/replace PVC/PVC insulated cable 1 x 1 sq mm (including termination to existing)	m	0.30
142	To supply labour and materials to install/replace PVC/PVC insulated cable 1 x 1.5 sq mm (including termination to existing)	m	0.35
143	To supply labour and materials to install/replace PVC/PVC insulated cable 1 x 2.5 sq mm (including termination to existing)	m	0.45
144	To supply labour and materials to install/replace PVC/PVC insulated cable 1 x 4.0 sqmm (including termination to existing)	m	0.60
145	To supply labour and materials to install/replace PVC/PVC insulated cable 1 x 6.0 sqmm (including termination to existing)	m	1.15
146	To supply labour and materials to install/replace PVC/PVC insulated cable 1 x 10.0 sq mm (including termination to existing)	m	1.40
147	To supply labour and materials to install/replace PVC/PVC insulated cable 1 x 16.0 sq mm (including termination to existing)	m	2.15
148	To supply labour and materials to install/replace PVC/PVC insulated cable 1 x 25.0 sq mm (including termination to existing)	m	3.10
149	To supply labour and materials to install/replace PVC/PVC insulated cable 1 x 35.0 sq mm (including termination to existing)	m	4.45
150	To supply labour and materials to install/replace PVC/PVC insulated cable 1 x 50.0 sq mm (including termination to existing)	m	5.60
151	To supply labour and materials to install/replace PVC insulated cable 1 x 1.0 sq mm (including termination to existing)	m	0.25
152	To supply labour and materials to install/replace PVC insulated cable 1 x 1.5 sq mm (including termination to existing)	m	0.30
153	To supply labour and materials to install/replace PVC insulated cable 1 x 2.5 sq mm (including termination to existing)	m	0.40
154	To supply labour and materials to install/replace PVC insulated cable 1 x 4.0 sq mm (including termination to existing)	m	0.50
155	To supply labour and materials to install/replace PVC insulated cable 1 x 6.0 sq mm (including termination to existing)	m	0.85

S/No	Description	Unit	Unit Cost (\$)
156	To supply labour and materials to install/replace PVC insulated cable 1 x 10.0 sq mm (including termination to existing)	m	1.20
157	To supply labour and materials to install/replace PVC insulated cable 1 x 16.0 sq mm (including termination to existing)	m	1.80
158	To supply labour and materials to install/replace PVC insulated cable 1 x 25.0 sq mm (including termination to existing)	m	2.70
159	To supply labour and materials to install/replace PVC insulated cable 1 x 35.0 sq mm (including termination to existing)	m	3.85
160	To supply labour and materials to install/replace PVC insulated cable 1 x 50.0 sq mm (including termination to existing)	m	5.05
161	To supply labour and materials to replace/install Room/Duct temperature sensor +/- 1 deg C	no	275.00
162	To supply labour and materials to replace/install air flow switch.	no	160.00
163	To supply labour and materials to replace/install Temperature Controller c/w sensor any DX unit	no	230.00
164	To supply labour and materials to replace/install Thermostat (Single Stage) c/w speed control.	no	200.00
165	To supply labour and materials to replace/install Thermostat (Two Stage) c/w speed control.	no	300.00
166	To supply material, labour, transport and install/replace including connecting up to power point and ready to operate for an electric time switch (digital type) 230v, 50Hz, 10-30 amperes, quartz reserve (150hrs) for 24 hours with 1 minute setting	no	120.00
167	To supply material, labour, transport and install/replace including connecting up to power point and ready to operate for an electric time switch (digital type) 230v, 50Hz, 7 days operations (weekly) class of protection IP42/11, with minimum time setting of 1 minute. the timer shall have at least 24 start/stop functions	no	350.00
168	To supply labour, tool and transport for replace/install control panel ventilation fan up to 15cm dia, with fan motor up to 30w, 230v	no	35.00
169	To cut through re-inforcement concrete floor or wall to form opening up to 0.6 cu.m	no	400.00
170	To supply labour, materials, transport and tools to cut through brickwall to form opening up to 0.02cu m	no	40.00
171	To supply labour, materials, transport and tools to cut through brickwall to form opening up to 0.05cu m	no	54.00
172	To supply labour, materials, transport and tools to cut through brickwall to form opening up to 0.10cu m	no	80.00
173	To supply labour, materials, transport and tools to cut through brickwall to form opening up to 0.15cu m	no	120.00
174	To supply labour, materials, transport and tools to cut through brickwall to form opening up to 0.20cu m	no	26.00
175	To seal up louvred panels, holes and etc with 6mm thick master board (a calcium silicate matric re-inforced with cellulose)	m	26.00
176	To provide mobile crane for hoisting of air-con equipment to/from the roof top of the building (licensed Operator)	m	400.00
177	To supply all materials, labour transport for the install/replace of polyurethane foam insulation as specified for pipes up to 32mm dia	m	22.00
178	To supply all materials, labour transport for the install/replace of polyurethane foam insulation as specified for pipes up to 40mm dia	m	24.00
179	To supply all materials, labour transport for the install/replace of	m	27.00

S/No	Description	Unit	Unit Cost (\$)
180	polyurethane foam insulation as specified for pipes up to 51mm dia To supply all materials, labour for the install/replace of 26G aluminium jacket with painting for pipes size up to 26mm dia	m	13.00
181	To supply all materials, labour for the install/replace of 26G aluminium jacket with painting for pipes size up to 32mm dia	m	15.00
182	To supply all materials, labour for the install/replace of 26G aluminium jacket with painting for pipes size up to 40mm dia	m	17.00
183	To supply all materials, labour for the install/replace of 26G aluminium jacket with painting for pipes size up to 51mm dia	m	20.00
184	To supply all materials, labour, transport for the install/replace 20mm PVC drain pipe on surface including all elbows, tees, sockets and supporting clips	m	8.00
185	To supply all materials, labour, transport for the install/replace 25mm PVC drain pipe on surface including all elbows, tees, sockets and supporting clips	m	9.00
186	To supply all materials, labour, transport for the install/replace 32mm PVC drain pipe on surface including all elbows, tees, sockets and supporting clips	m	11.00
187	To supply all materials, labour, transport for the install/replace 40mm PVC drain pipe on surface including all elbows, tees, sockets and supporting clips	m	13.00
188	To supply all materials, labour, transport for the install/replace 50mm PVC drain pipe on surface including all elbows, tees, sockets and supporting clips	m	19.00
189	To supply all materials, labour and transport to replace the insulation for the copper piping, PVC drain pipe, drain pan, and etc with closed cell elastomeric thermal insulation: up to 13mm (1/2) ID size 3/8 wall thickness	m	5.00
190	To supply all materials, labour and transport to replace the insulation for the copper piping, PVC drain pipe, drain pan, and etc with closed cell elastomeric thermal insulation: up to 13mm (1/2) ID size 3/4 wall thickness	m	8.00
191	To supply all materials, labour and transport to replace the insulation for the copper piping, PVC drain pipe, drain pan, and etc with closed cell elastomeric thermal insulation: up to 13mm (1/2) ID size 1/2 wall thickness	m	14.00
192	To supply all materials, labour and transport to replace the insulation for the copper piping, PVC drain pipe, drain pan, and etc with closed cell elastomeric thermal insulation: up to 13mm (1/2) ID size 1 wall thickness	m	26.00
193	To supply all materials, labour and transport to replace the insulation for the copper piping, PVC drain pipe, drain pan, and etc with closed cell elastomeric thermal insulation: up to 19mm (3/4) ID size 3/8 wall thickness	m	6.00
194	To supply all materials, labour and transport to replace the insulation for the copper piping, PVC drain pipe, drain pan, and etc with closed cell elastomeric thermal insulation: up to 19mm (3/4) ID size 1/2 wall thickness	m	9.50
195	To supply all materials, labour and transport to replace the insulation for the copper piping, PVC drain pipe, drain pan, and etc with closed cell elastomeric thermal insulation: up to 19mm (3/4) ID size 3/4 wall	m	17.00

S/No	Description	Unit	Unit Cost (\$)
196	thickness To supply all materials, labour and transport to replace the insulation for the copper piping, PVC drain pipe, drain pan, and etc with closed cell elastomeric thermal insulation: up to 19mm (3/4) ID size 1 wall thickness	m	30.00
197	To supply all materials, labour and transport to replace the insulation for the copper piping, PVC drain pipe, drain pan, and etc with closed cell elastomeric thermal insulation: up to 25mm (1) ID size 3/8 wall thickness	m	8.00
198	To supply all materials, labour and transport to replace the insulation for the copper piping, PVC drain pipe, drain pan, and etc with closed cell elastomeric thermal insulation: up to 25mm (1) ID size 1/2 wall thickness	m	12.00
199	To supply all materials, labour and transport to replace the insulation for the copper piping, PVC drain pipe, drain pan, and etc with closed cell elastomeric thermal insulation: up to 25mm (1) ID size 3/4 wall thickness	m	19.00
200	To supply all materials, labour and transport to replace the insulation for the copper piping, PVC drain pipe, drain pan, and etc with closed cell elastomeric thermal insulation: up to 25mm (1) ID size 1 wall thickness	m	37.00
201	To supply all materials, labour and transport to replace the insulation for the copper piping, PVC drain pipe, drain pan, and etc with closed cell elastomeric thermal insulation: up to 35mm (1 3/8) ID size 3/8 wall thickness	m	10.00
202	To supply all materials, labour and transport to replace the insulation for the copper piping, PVC drain pipe, drain pan, and etc with closed cell elastomeric thermal insulation: up to 35mm (1 3/8) ID size 1/2 wall thickness	m	14.00
203	To supply all materials, labour and transport to replace the insulation for the copper piping, PVC drain pipe, drain pan, and etc with closed cell elastomeric thermal insulation: up to 35mm (1 3/8") ID size 3/4 wall thickness	m	28.00
204	To supply all materials, labour and transport to replace the insulation for the copper piping, PVC drain pipe, drain pan, and etc with closed cell elastomeric thermal insulation: up to 35mm (1 3/8") ID size 1 wall thickness	m	55.00
205	To supply all materials, labour and transport to replace the insulation for the copper piping, PVC drain pipe, drain pan, and etc with closed cell elastomeric thermal insulation: up to 48mm (1 7/8") ID size 3/8 wall thickness	m	13.00
206	To supply all materials, labour and transport to replace the insulation for the copper piping, PVC drain pipe, drain pan, and etc with closed cell elastomeric thermal insulation: up to 48mm (1 7/8") ID size 1/2 wall thickness	m	19.00
207	To supply all materials, labour and transport to replace the insulation for the copper piping, PVC drain pipe, drain pan, and etc with closed cell elastomeric thermal insulation: up to 48mm (1 7/8") ID size 3/4 wall thickness	m	36.00
208	To supply all materials, labour and transport to replace the insulation for the copper piping, PVC drain pipe, drain pan, and etc with closed cell elastomeric thermal insulation: up to 48mm (1 7/8") ID size 1	m	60.00

S/No	Description	Unit	Unit Cost (\$)
209	wall thickness To supply all materials, labour and transport to install/replace sheet insulation 1/4 thick	m2	40.00
210	To supply all materials, labour and transport to install/replace sheet insulation 1/2 thick	m2	60.00
211	To supply materials and labour to install/replace drip pan (22 gauge galvanized steel sheet) without insulation and coated with anti-rust primer and 2 coats of finishing paint up to 1 sq ft area	no	30.00
212	To supply materials and labour to install/replace drip pan (22 gauge galvanized steel sheet) without insulation and coated with anti-rust primer and 2 coats of finishing paint up to 2 sq ft area	no	45.00
213	To supply materials and labour to install/replace drip pan (22 gauge galvanized steel sheet) without insulation and coated with anti-rust primer and 2 coats of finishing paint up to 3 sq ft area	no	60.00
214	To supply materials and labour to install/replace drip pan (22 gauge galvanized steel sheet) without insulation and coated with anti-rust primer and 2 coats of finishing paint up to 4 sq ft area	no	75.00
215	To supply materials and labour to install/replace drip pan (22 gauge galvanized steel sheet) without insulation and coated with anti-rust primer and 2 coats of finishing paint up to 5 sq ft area	no	90.00
216	To supply materials and labour to install/replace drip pan (22 gauge galvanized steel sheet) with anti-rust primer and 2 coats of finishing paint ) complete with 1 x 1 lb fibre glass insulation for area up to 1 sq ft	no	60.00
217	To supply materials and labour to install/replace drip pan (22 gauge galvanized steel sheet) with anti-rust primer and 2 coats of finishing paint ) complete with 1 x 1 lb fibre glass insulation for area up to 2 sq ft	no	75.00
218	To supply materials and labour to install/replace drip pan (22 gauge galvanized steel sheet) with anti-rust primer and 2 coats of finishing paint ) complete with 1 x 1 lb fibre glass insulation for area up to 3 sq ft	no	90.00
219	To supply materials and labour to install/replace drip pan (22 gauge galvanized steel sheet) with anti-rust primer and 2 coats of finishing paint ) complete with 1 x 1 lb fibre glass insulation for area up to 4 sq ft	no	105.00
220	To supply materials and labour to install/replace drip pan (22 gauge galvanized steel sheet) with anti-rust primer and 2 coats of finishing paint ) complete with 1 x 1 lb fibre glass insulation for area up to 5 sq ft	no	120.00
221	To supply materials and labour to install/replace drip pan (22 gauge galvanized steel sheet) with anti-rust primer and 2 coats of finishing paint ) complete with 1 x 1 lb fibre glass insulation for area up to 6 sq ft	no	135.00
222	Supply and install Daikin/ Mitsubishi/ Toshiba or equivalent 8,500 to 10,000 Btuh wall mounted inverter type split air-conditioner including dismantling of existing units (if any), opening hole on walls, S/S brackets, make good all disturbed areas . Inclusive of one (1) year warranty for entire system & six (6) two monthly servicing, dismantling the existing air-con system and make good to disturbed area if any. The complete new set of the split air-conditioning unit	unit	1250.00

S/No	Description	Unit	Unit Cost (\$)
223	(condensing and fan coil units c/w wireless/ wire remote control with drainage). Supply and install Daikin/ Mitsubishi/ Toshiba or equivalent 10,500 to 15,500 Btuh wall mounted inverter type split air-conditioner including dismantling of existing units (if any), opening hole on walls, S/S brackets, make good all disturbed areas . Inclusive of one (1) year warranty for entire system & six (6) two monthly servicing, dismantling the existing air-con system and make good to disturbed area if any. The complete new set of the split air-conditioning unit (condensing and fan coil units c/w wireless/ wire remote control with drainage).	unit	1400.00
224	Supply and install Daikin/ Mitsubishi/ Toshiba or equivalent 15,000 to 18,500 Btuh wall mounted inverter type split air-conditioner including dismantling of existing units (if any), opening hole on walls, S/S brackets, make good all disturbed areas . Inclusive of one (1) year warranty for entire system & six (6) two monthly servicing, dismantling the existing air-con system and make good to disturbed area if any. The complete new set of the split air-conditioning unit (condensing and fan coil units c/w wireless/ wire remote control with drainage).	unit	1800.00
225	Supply and install Daikin/ Mitsubishi/ Toshiba or equivalent 18,600 to 24,500 Btuh wall mounted inverter type split air-conditioner including dismantling of existing units (if any), opening hole on walls, S/S brackets, make good all disturbed areas . Inclusive of one (1) year warranty for entire system & six (6) two monthly servicing, dismantling the existing air-con system and make good to disturbed area if any. The complete new set of the split air-conditioning unit (condensing and fan coil units c/w wireless/ wire remote control with drainage).	unit	2150.00
226	Supply and install Daikin/ Mitsubishi/ Toshiba or equivalent 24,600 to 36,500 Btuh wall mounted inverter type split air-conditioner including dismantling of existing units (if any), opening hole on walls, S/S brackets, make good all disturbed areas . Inclusive of one (1) year warranty for entire system & six (6) two monthly servicing, dismantling the existing air-con system and make good to disturbed area if any. The complete new set of the split air-conditioning unit (condensing and fan coil units c/w wireless/ wire remote control with drainage).	unit	3350.00
227	Not In Use		
228	Supply and install Daikin/ Mitsubishi/ Toshiba or equivalent 9,000 to 12,500 Btuh cassette types/split air-conditioner. The rate herein shall include all wiring, PVC trunking, refrigerant, pipe works and insulation, stainless steel bracket or cement casting for condensing unit, testing and commissioning of air-cooled multi/ single split air-conditioning unit .Inclusive of one (1) year warranty for entire system & six (6) two monthly servicing, dismantling the existing air-con system and make good to disturbed area if any. The complete new set of the split air-conditioning unit (condensing and fan coil units c/w wireless/ wire remote control with drainage).	unit	2675.00
229	Supply and install Daikin/ Mitsubishi/ Toshiba or equivalent 12,600 to	unit	2920.00

S/No	Description	Unit	Unit Cost (\$)
230	18,500 Btuh cassette type s/split air-conditioner. The rate herein shall include all wiring, PVC trunking, refrigerant, pipe works and insulation, stainless steel bracket or cement casting for condensing unit, testing and commissioning of air-cooled multi/ single split air-conditioning unit .Inclusive of one (1) year warranty for entire system & six (6) two monthly servicing, dismantling the existing air-con system and make good to disturbed area if any. The complete new set of the split air-conditioning unit (condensing and fan coil units c/w wireless/ wire remote control with drainage). Supply and install Daikin/ Mitsubishi/ Toshiba or equivalent 18,600 to 24,500 Btuh cassette type s/split air-conditioner The rate herein shall include all wiring, PVC trunking, refrigerant, pipe works and insulation, stainless steel bracket or cement casting for condensing unit, testing and commissioning of air-cooled multi/ single split air-conditioning unit .Inclusive of one (1) year warranty for entire system & six (6) two monthly servicing, dismantling the existing air-con system and make good to disturbed area if any. The complete new set of the split air-conditioning unit (condensing and fan coil units c/w wireless/ wire remote control with drainage).	unit	3060.00
231	Supply and install Daikin/ Mitsubishi/ Toshiba or equivalent 24,600 to 28,500 Btuh cassette types/split air-conditioner. The rate herein shall include all wiring, PVC trunking, refrigerant, pipe works and insulation, stainless steel bracket or cement casting for condensing unit, testing and commissioning of air-cooled multi/ single split air-conditioning unit .Inclusive of one (1) year warranty for entire system & six (6) two monthly servicing, dismantling the existing air-con system and make good to disturbed area if any. The complete new set of the split air-conditioning unit (condensing and fan coil units c/w wireless/ wire remote control with drainage).	unit	3420.00
232	Supply and install Daikin/ Mitsubishi/ Toshiba or equivalent 28,600 to 36,500 Btuh cassette types/split air-conditioner. The rate herein shall include all wiring, PVC trunking, refrigerant, pipe works and insulation, stainless steel bracket or cement casting for condensing unit, testing and commissioning of air-cooled multi/ single split air-conditioning unit .Inclusive of one (1) year warranty for entire system & six (6) two monthly servicing, dismantling the existing air-con system and make good to disturbed area if any. The complete new set of the split air-conditioning unit (condensing and fan coil units c/w wireless/ wire remote control with drainage).	unit	3785.00
233	Supply and install Daikin/ Mitsubishi/ Toshiba or equivalent 36,600 to 48,000 Btuh cassette types/split air-conditioner. The rate herein shall include all wiring, PVC trunking, refrigerant, pipe works and insulation, stainless steel bracket or cement casting for condensing unit, testing and commissioning of air-cooled multi/ single split air-conditioning unit .Inclusive of one (1) year warranty for entire system & six (6) two monthly servicing, dismantling the existing air-con system and make good to disturbed area if any. The complete new set of the split air-conditioning unit (condensing and fan coil units c/w wireless/	unit	4135.00

S/No	Description	Unit	Unit Cost (\$)
234	wire remote control with drainage). Supply and install Daikin/ Mitsubishi/ Toshiba or equivalent 16,000 to 18,500 Btuh floor stand type s/split air-conditioner. The rate herein shall include all wiring, PVC trunking, refrigerant, pipe works and insulation , stainless steel bracket or cement casting for condensing unit, testing and commissioning of air- cooled multi/ single split air-conditioning unit with minimum gross cooling capacity not less than what is specific. Inclusive of one (1) year warranty for entire system & six (6) two monthly servicing, dismantling the existing air-con system and make good to disturbed area if any. The complete new set of the split air-conditioning unit (condensing and fan coil units c/w wireless/wire remote control with drainage).	unit	2625.00
235	Supply and install Daikin/ Mitsubishi/ Toshiba or equivalent 18,600 to 24,500 Btuh floor stand type s/split air-conditioner. iThe rate herein shall include all wiring, PVC trunking, refrigerant, pipe works and insulation , stainless steel bracket or cement casting for condensing unit, testing and commissioning of air-cooled multi/ single split air-conditioning unit with minimum gross cooling capacity not less than what is specific. Inclusive of one (1) year warranty for entire system & six (6) two monthly servicing, dismantling the existing air-con system and make good to disturbed area if any. The complete new set of the split air-conditioning unit (condensing and fan coil units c/w wireless/wire remote control with drainage)	unit	2875.00
236	Supply and install Daikin/ Mitsubishi/ Toshiba or equivalent 24,600 to 36,500 Btuh floor stand type s/split air-conditioner. The rate herein shall include all wiring, PVC trunking, refrigerant, pipe works and insulation , stainless steel bracket or cement casting for condensing unit, testing and commissioning of air- cooled multi/ single split air-conditioning unit with minimum gross cooling capacity not less than what is specific. Inclusive of one (1) year warranty for entire system & six (6) two monthly servicing, dismantling the existing air-con system and make good to disturbed area if any. The complete new set of the split air-conditioning unit (condensing and fan coil units c/w wireless/wire remote control with drainage)	unit	3775.00
237	Supply and install Daikin/ Mitsubishi/ Toshiba or equivalent 36,600 to 48,000 Btuh floor stand type s/split air-conditioner including modification of Starter's Box if any from existing units. The rate herein shall include all wiring, PVC trunking, refrigerant, pipe works and insulation t, stainless steel bracket or cement casting for condensing unit, testing and commissioning of air-cooled multi/ single split air-conditioning unit with minimum gross cooling capacity not less than what is specific. Inclusive of one (1) year warranty for entire system & six (6) two monthly servicing, dismantling the existing air-con system and make good to disturbed area if any. The complete new set of the split air-conditioning unit (condensing and fan coil units c/w wireless/wire remote control with drainage)	unit	4400.00
238	Supply and install 48,600 to 63,500 Btuh floor stand type s/split air-conditioner including auto transformer and starter panel. The rate herein shall include all wiring, PVC trunking, refrigerant, pipe works	unit	8800.00



S/No	Description	Unit	Unit Cost (\$)
239	and insulation , stainless steel bracket or cement casting for condensing unit, testing and commissioning of air-cooled multi/ single split air-conditioning unit with minimum gross cooling capacity not less than what is specific. Inclusive of one (1) year warranty for entire system & six (6) two monthly servicing, dismantling the existing air-con system and make good to disturbed area if any. The complete new set of the split air-conditioning unit (condensing and fan coil units c/w wireless/wire remote control with drainage) Supply and install Daikin/ Mitsubishi/ Toshiba or equivalent 63,600 to 72,500 Btuh floor stand type s/split air-conditioner including auto transformer and starter panelThe rate herein shall include all wiring, PVC trunking, refrigerant, pipe works and insulation, stainless steel bracket or cement casting for condensing unit, testing and commissioning of air-cooled multi/ single split air-conditioning unit with minimum gross cooling capacity not less than what is specific. Inclusive of one (1) year warranty for entire system & six (6) two monthly servicing, dismantling the existing air-con system and make good to disturbed area if any. The complete new set of the split air-conditioning unit (condensing and fan coil units c/w wireless/ wire remote control with drainage)	unit	10225.00
244	Supply and install Daikin/ Mitsubishi/ Toshiba or equivalent up to 12HP but below 16HP VRV type split air-conditioner up to 14 FCU including auto transformer and starter panel. he rate herein shall include all wiring, PVC trunking, refrigerant, pipe works and insulation, stainless steel bracket or cement casting for condensing unit, testing and commissioning of the entire system. Inclusive of one (1) year warranty for entire system & six (6) two monthly servicing, dismantling the existing air-con system and make good to disturbed area if any. The complete new set of the split air-conditioning unit (condensing and fan coil units c/w wireless/ wire remote control with drainage).	set	30000.00
245	Supply and install Daikin/ Mitsubishi/ Toshiba or equivalent 9,000 Btuh x 2 fan coil units wall type multi-split air-conditioner. The rates mentioned herein shall include all wiring, PVC trunking, refrigerant, pipe works and insulation, stainless steel bracket or cement casting for condensing unit, testing and commissioning of air-cooled multi/ single split air-conditioning unit with minimum gross cooling capacity not less than what is specific. Inclusive of one (1) year warranty for entire system & six (6) two monthly servicing, dismantling the existing air- con system and make good to disturbed area if any. The complete new set of the split air-conditioning unit (condensing and fan coil units c/w wireless/ wire remote control with drainage).	set	2200.00
246	Supply and install Daikin/ Mitsubishi/ Toshiba or equivalent 1 x 9,000 Btuh and 1 x 12,000 Btuh fan coil units wall type multi-split air-conditioner. The rates mentioned herein shall include all wiring, PVC trunking, refrigerant, pipe works and insulation, stainless steel bracket or cement casting for condensing unit, testing and commissioning of air-cooled multi/ single split air-conditioning unit with minimum gross cooling capacity not less than what is specific. Inclusive of one (1) year warranty for entire system & six (6) two	set	2350.00

S/No	Description	Unit	Unit Cost (\$)
247	monthly servicing, dismantling the existing air- con system and make good to disturbed area if any. The complete new set of the split air-conditioning unit (condensing and fan coil units c/w wireless/ wire remote control with drainage). Supply and install Daikin/ Mitsubishi/ Toshiba or equivalent 12,000 Btuh x 2 fan coil units wall type multi-split air-conditioner. The rates mentioned herein shall include all wiring, PVC trunking, refrigerant, pipe works and insulation, stainless steel bracket or cement casting for condensing unit, testing and commissioning of air-cooled multi/ single split air-conditioning unit with minimum gross cooling capacity not less than what is specific. Inclusive of one (1) year warranty for entire system & six (6) two monthly servicing, dismantling the existing air- con system and make good to disturbed area if any. The complete new set of the split air-conditioning unit (condensing and fan coil units c/w wireless/ wire remote control with drainage).	set	2500.00
248	To supply and install Daikin/ Mitsubishi/ Toshiba or equivalent capacity of up to 36,500 Btuh ducted type split unit air-conditioner. The rate herein shall include all wiring, starter panel, PVC trunking, refrigerant, pipe works and insulation , stainless steel bracket or cement casting for condensing unit, testing and commissioning of air-cooled multi/ single split air-conditioning unit with minimum gross cooling capacity not less than what is specific (cost exclude duct works). Inclusive of one (1) year warranty for entire system & six (6) two monthly servicing, dismantling the existing air-con system and make good to disturbed area if any. The complete new set of the split air- conditioning unit (condensing and fan coil units c/w wireless/ wire remote control with drainage).	set	4200.00
249	To supply and install Daikin/ Mitsubishi/ Toshiba or equivalent capacity of up to 36,600 Btuh to 48,000 Btuh ducted type split unit air-conditioner. The rate herein shall include all wiring, starter panel, PVC trunking, refrigerant, pipe works and insulation , stainless steel bracket or cement casting for condensing unit, testing and commissioning of air-cooled multi/ single split air-conditioning unit with minimum gross cooling capacity not less than what is specific (cost exclude duct works). Inclusive of one (1) year warranty for entire system & six (6) two monthly servicing, dismantling the existing air-con system and make good to disturbed area if any. The complete new set of the split air- conditioning unit (condensing and fan coil units c/w wireless/ wire remote control with drainage).	set	5270.00
250	To supply and install Daikin/ Mitsubishi/ Toshiba or equivalent capacity of 48,000 Btuh to 63,500 Btuh ducted type of split unit air-conditioner inclusive of auto transformer, soft starter, Starters Panel. The rate herein shall include all wiring, starter panel, PVC trunking, refrigerant, pipe works and insulation , stainless steel bracket or cement casting for condensing unit, testing and commissioning of air-cooled multi/ single split air-conditioning unit with minimum gross cooling capacity not less than what is specific (cost exclude duct works). Inclusive of one (1) year warranty for entire system & six (6) two monthly servicing, dismantling the existing air-con system and make good to disturbed area if any. The	set	6075.00

S/No	Description	Unit	Unit Cost (\$)
251	complete new set of the split air- conditioning unit (condensing and fan coil units c/w wireless/ wire remote control with drainage). To supply and install Daikin/ Mitsubishi/ Toshiba or equivalent capacity of 63,600 Btuh to 78,000 Btuh ducted type split unit air-conditioner inclusive of auto transformer, soft starter, Starters Panel. The rate herein shall include all wiring, starter panel, PVC trunking, refrigerant, pipe works and insulation , stainless steel bracket or cement casting for condensing unit, testing and commissioning of air-cooled multi/ single split air-conditioning unit with minimum gross cooling capacity not less than what is specific (cost exclude duct works). Inclusive of one (1) year warranty for entire system & six (6) two monthly servicing, dismantling the existing air-con system and make good to disturbed area if any. The complete new set of the split air- conditioning unit (condensing and fan coil units c/w wireless/ wire remote control with drainage).	set	8375.00
252	To supply and install Daikin/ Mitsubishi/ Toshiba or equivalent capacity of 78,100 Btuh to 120,000 Btuh ducted type split unit air- conditioner inclusive of auto transformer, soft starter, Starters Panel. The rate herein shall include all wiring, starter panel, PVC trunking, refrigerant, pipe works and insulation , stainless steel bracket or cement casting for condensing unit, testing and commissioning of air-cooled multi/ single split air-conditioning unit with minimum gross cooling capacity not less than what is specific (cost exclude duct works). Inclusive of one (1) year warranty for entire system & six (6) two monthly servicing, dismantling the existing air-con system and make good to disturbed area if any. The complete new set of the split air- conditioning unit (condensing and fan coil units c/w wireless/ wire remote control with drainage).	set	10125.00
253	To dismantle existing split air-cond up to 36,500 Btuh and return	no	100.00
254	To dismantle existing split air-cond up to 50,000 Btuh and return	no	120.00
255	To dismantle existing split air-cond up above 51,000 Btuh and return	no	300.00
256	To dismantle existing multi-split air-cond up to 12,000 Btuh x 2 fan coil units and return to the Department.	no	80.00
257	To dismantle existing split air cond capacity of up to 48,500 Btuh (Single)	no	30.00
258	To supply and install for FCU, up to 20mm Diameter PVC drain pipe on surface or conceal in partition wall.	no	7.00
259	To supply and install for FCU, up to 25mm Diameter PVC drain pipe on surface or conceal in partition wall.	no	8.00
260	Supply & install aluminium drip pan not exceeding 1 sqm for condensing unit. (22 gauge)	no	32.00
261	Supply & install aluminium drip pan 22 gauge not exceeding 1.5 sqm or 1.49 sq m for condensing unit c/w drain pipe	no	60.00
262	To insulate the 2 copper pipes and uPvc pipes with rigid polyurethane foam machine injected into the annulus between the pipe and 24 gauge aluminium jacketing exceeding c/w painting and brackets. (Density 48 kg/cu m, thermal conductivity 0.023 W/m K or lower at 23 deg. C mean, service temp -50 to 140 deg. C and up to 35mm (1 3/8") dia with minimum 38mm (1 1/2") thick. (4 pipes in one jacketing)	no	40.00
263	Not in use		

S/No	Description	Unit	Unit Cost (\$)
264	Not in use		
265	Not in use		
266	Not in use		
267	Not in use		
268	To install Daikin/ Mitsubishi/ Toshiba or equivalent window unit air-conditioner through window or vent with Area not exceeding 1 sqm.	no	160.00
269	To install Daikin/ Mitsubishi/ Toshiba or equivalent window unit air-conditioner through window or vent with Area exceeding 1 sqm.	no	175.00
270	Not In Use		
271	Not In Use		
272	Not In Use		
273	Not In Use		
274	Not In Use		
275	To seal up hole, vent, window with polygon board with area not exceeding 1 sqm	no	14.00
276	Monthly /Bi-monthly servicing of one condenser unit of VRV systems (Any capacity)	no	5.00
277	Monthly /Bi-monthly servicing of FCU unit of VRV sysems (Any capacity)	no	5.00
278	Not In Use		
279	Not In Use		
280	Not In Use		
281	Not In Use		
to			
334			
335	To dismantle and reinstall motor for Rewinding of Single Phase 230 Volts Fan Motor (1/6 - 1 1/2 H.P.)	no	70.00
336	To dismantle and reinstall motor for Replacement of Bushing/Bearing in Single Phase 230 Volts Fan Motor (1/6 - 1 1/2 H.P.)	no	45.00
337	Not In Use		
338	Not In Use		
339	Not In Use		
340	Not In Use		
341	To supply and replace split unit Mounting Spring or Mounting Rubber.	no	2.50
342	To supply and replace split unit Spring's Rubber or Grommet.	no	2.00
343	To supply and replace split unit Overload Relay.	no	16.00
344	To supply and replace split unit Potential Relay or current coil relay.	no	35.00
345	Not In Use		
346	To supply and replace split unit Dehydrator/strainer. To	no	8.50
347	supply and replace split unit washable Air Filter.	no	5.00
348	Not In Use	no	36.00
349	To supply and replace split unit Condenser Coil - 9,000 to 11,000 BTU/HR.	no	130.00
350	To supply and replace split unit Condenser Coil - 12,000 to 15,000 BTU/HR.	no	170.00
351	To supply and replace split unit Condenser Coil - 16,000 to 21,000 BTU/HR.	no	200.00

S/No	Description	Unit	Unit Cost (\$)
352	To supply and replace split unit Evaporator Coil - 9,000 to 11,000 BTU/HR.	no	110.00
353	To supply and replace split unit Evaporator Coil - 12,000 to 15,000 BTU/HR.	no	150.00
354	To supply and replace split unit Evaporator Coil - 16,000 to 21,000 BTU/HR.	no	180.00
355	To supply and re-insulate casing.	no	10.00
356	To supply and re-insulate SA duct, evaporator side with 1/4 inch rubber formed insulation.	no	5.50
357	To supply and re-insulate suction line insulation bitumen insulation tape.	no	2.50
358	To supply and replace suction line insulation hose (aero-flex) as existing size and thickness.	no	6.50
359	To insulate compressor's terminals cover with bitumen insulation tape.	no	2.50
360	To install air-conditioner drip pan that will be provided by the University.	no	8.00
361	To supply labour overhaul window unit inclusive of condenser coil, evaporator coil, unit base assembly and etc and painting.	no	70.00
362	To check gas leak weld/tighten joints and charging in refrigerant Gas.	no	60.00
363	Supply and replacement phase indicating light & holder.	no	14.00
364	Supply and replacement push button on/off switch.	no	25.00
365	Not In Use		
366	To loan window air-conditioner for more than fourteen (14) days and less than thirty (30) days.	no	50.00
367	To loan window air-conditioner for more than thirty (30) days and less than ninety-three (93) days.	no	70.00
368	To provide labour, transportation and material to claim the compressor from the agent (under warranty) 230v, 50hz and carry out the replacing of compressor, strainer, flush the system with nitrogen, check leak, charge gas, (inclusive service charge from agent) testing and commissioning the system for window unit of any capacity.	no	200.00
369	Monthly/Bi-monthly routine servicing of split unit and packaged unit air-conditioner according to the requirement (including 1 CU to 1 FCU/, 1 CU to 2 FCUs,).	no	20.00
370	To provide labour, transportation and material to claim the compressor from the agent (under warranty) 230v, 50hz and carry out the replacing of compressor, filter drier, flush the system with nitrogen, check leak, charge gas, service charge to agent, testing and commissioning the system for split unit up to 8 HP or 4 fan coil unit.	no	320.00
371	To supply and replace Potential relay.	no	35.00
372	To supply and replace Compressor's overload relay (single phase).	no	16.00
373	To supply and replace Compressor's terminal wire for (5 H.P. and below).	no	2.40
374	To supply and replace Electronic, motor control valve for multi-split air-conditioner.	no	110.00
375	To supply and replace Condenser's fan blade propeller fan up to 24,000 Btu/hr.	no	60.00

S/No	Description	Unit	Unit Cost (\$)
376	To supply and replace Condenser's fan blade propeller fan up to 48,000 Btu/hr.	no	160.00
377	To supply and replace Condenser's fan blade propeller fan up to 130,000 Btu/hr.	no	230.00
378	To supply and replace fan motor shaft up to 0.75 kw (1 H.P.).	no	50.00
379	To supply and replace washable netting filter permanent plastic frame - All sizes (original for split unit air-conditioner).	no	18.00
380	To supply, repair/fabricate housing condenser FCU with 22 gauge galvanised steel sheet coated with anti-rust primer and paint : Minimum cost for area which is less than 2 square feet (Inclusive labour).	no	30.00
381	To supply, repair/fabricate housing condenser FCU with 22 gauge galvanised steel sheet coated with anti-rust primer and paint : Additional cost above 2 square feet (Inclusive labour).	no	5.00
382	To supply and re-insulate 1 x 2 lb fibre glass insulation: Minimum cost for area which is less than 5 square metre (Inclusive labour).	no	75.00
383	To supply and re-insulate 1 x 2 lb fibre glass insulation additional cost above 5 square metre (Inclusive labour).	no	15.00
384	To supply and replace remote control switch c/w temperature control, fan speed control and timer, etc (Wired or Wireless Inclusive labour)	no	180.00
385	To supply and replace P.C.B. for 25,000 Btuh to 48,000 Btuh single split unit air-conditioner.	no	375.00
386	To supply and replace P.C.B. for 25,000 Btuh to 48,000 Btuh single split unit air-conditioner.	no	375.00
387	To supply/replace 3 core wire x 16/0076.	no	1.50
388	To supply/replace 3 core wire x 40/0076.	no	2.20
389	To supply/replace 3 core wire x 70/0076.	no	3.30
390	Supply all labour, materials, transport tools, etc for the checking of leaks, repairing of leaks (including welding, tightening of all joints and etc), charging of gas, re-commissioning and to ensure no leakage for split unit up to 44,000 Btuh	no	80.00
391	Supply all labour, materials, transport tools, etc for the checking of leaks, repairing of leaks (including welding, tightening of all joints and etc), charging of gas, re-commissioning and to ensure no leakage for split unit up to 78,000 Btuh	no	120.00
392	Supply all labour, materials, transport and tools for the checking of leaks, repairing of leaks including welding, tightening of all joints, charging of gas, re-commissioning and to ensure no gas leakage for split unit up to 260,000 Btuh	no	150.00
393	Supply labour, tools and transport to remove and reinstall of split unit air-conditioner below 9,000 Btuh capacity (Single)	no	300.00
394	Supply labour, tools and transport to remove and reinstall of split unit air-conditioner below 18,000 Btuh capacity (Single)	no	400.00
395	Supply labour, tools and transport to remove and reinstall of split unit air-conditioner below 24,000 Btuh capacity (Single)	no	420.00
396	Supply labour, tools and transport to remove and reinstall of split unit air-conditioner below 36,000 Btuh capacity (Single)	no	480.00
397	Supply labour, tools and transport to remove and reinstall of split unit air-conditioner below 48,000 Btuh capacity (Single)	no	500.00
398	Supply labour, tools and transport to remove and reinstall of split unit	no	650.00

S/No	Description	Unit	Unit Cost (\$)
399	air-conditioner below 96,000 Btuh capacity (Single) Supply labour, tools and transport to remove and reinstall of single split unit air-conditioner below 120,000 Btuh capacity coil.	no	800.00
400	Supply labour, tools and transport to remove and reinstall of split unit air-conditioner below 25,000 Btuh c/w two fan coils.	no	500.00
401	Supply labour, tools and transport to remove and reinstall of split unit air-conditioner below 48,000 Btuh c/w two fan coils.	no	700.00
402	Supply labour, tools and transport to remove and reinstall of split unit air-conditioner below 25,000 Btuh c/w three fan coils.	no	700.00
403	Supply labour, tools and transport to remove and reinstall of split unit air-conditioner below 48,000 Btuh c/w 3 FCUs.	no	850.00
404	Supply labour, tools and transport to remove and reinstall of multi-split system air-conditioner (1 to 4) wall mounted fan coil unit (up to 9,000 Btu/Hr each FCU).	no	1150.00
405	To supply and install/replace (include dismantle old bracket) Stainless Steel Bracket (Any Sizes) for Condensing Unit.	no	150.00
406	To supply and install new additional set (include dismantle old pump) additional set condensate water pump c/w bracket uPVC pipe and etc (Any Sizes).	no	180.00
407	To supply labour and material to install/replace galvanized steel conduit c/w saddles run on surface 18mm dia.	m	3.00
408	To supply labour and material to install/replace galvanized steel conduit c/w saddles run on surface 25mm dia.	m	4.00
409	To supply labour and material to install/replace galvanized steel conduit c/w saddles run on surface 32mm dia.	m	5.20
410	To supply labour and material to install/replace galvanized steel conduit c/w saddles run on surface 40mm dia.	m	6.10
411	To supply labour and material to install/replace galvanized steel conduit c/w saddles run on surface 50mm dia.	m	7.50
412	To supply labour and material to install/replace galvanized steel conduit c/w saddles run in wall/in floor 18mm dia.	m	3.80
413	To supply labour and material to install/replace galvanized steel conduit c/w saddles run in wall/in floor 25mm dia.	m	4.80
414	To supply labour and material to install/replace galvanized steel conduit c/w saddles run in wall/in floor 32mm dia.	m	6.20
415	To supply labour and material to install/replace galvanized steel conduit c/w saddles run in wall/in floor 40mm dia.	m	7.40
416	To supply labour and material to install/replace galvanized steel conduit c/w saddles run in wall/in floor 50mm dia.	m	9.00
417	To supply labour and material to install/replace PVC conduit c/w saddles run on surface 18mm dia.	m	1.80
418	To supply labour and material to install/replace PVC conduit c/w saddles run in wall/in floor 25mm dia.	m	2.80
419	To supply labour and material to install/replace PVC conduit c/w saddles run in wall/in floor 32mm dia.	m	3.40
420	To supply labour and materials to install/replace flexible PVC conduit 20mm dia.	m	1.80
421	To supply labour and materials to install/replace flexible PVC conduit 25mm dia.	m	2.20
422	To supply labour and materials to install/replace PVC termination gland 20mm dia.	no	2.00

S/No	Description	Unit	Unit Cost (\$)
423	To supply labour and materials to install/replace PVC termination gland 25mm dia.	no	2.50
424	To supply labour and materials to install/replace PVC termination gland 38mm dia.	no	3.00
425	To supply and erect steel staging of height not exceeding 3m high and remove after use and clearing debris off site.	no	45.00
426	To supply and erect steel staging of height from 3m high to not exceeding 5m high and remove after use and clearing debris off site.	no	56.00
427	To supply and erect steel staging of height from 5m high to not exceeding 7m high and remove after use and clearing debris off site.	no	77.00
428	To supply and erect steel staging of height from 7m high to not exceeding 10m high and remove after use and clearing debris off site.	no	101.00
429	Supply/install flexible vibration absorber tube including brazing and flaring up to 1-3/8".	no	120.00
430	Not In Use		
431	To supply all materials, labour and transport for the replacement of auto-transformer up to 7.5 kw (10 hp), 1 tapping.	no	180.00
432	To supply all materials, labour and transport for the replacement of auto-transformer up to 11 kw (15 hp), 1 tapping.	no	250.00
433	To supply all materials, labour and transport for the replacement of auto-transformer up to 11 kw (15 hp), 4 tapping (40% to 75%).	no	320.00
434	To supply all materials, labour and transport for the replacement of Direct-On-Line-Starters, hand reset, with 2 or more auxiliary contacts with line and phasing protection over-load relay, suitable for AC 500V, 3 Phase, 50 Hz conform to BS 587 and or IEC PUB 151-1, 292-1 up to 3.75 kw (5 hp) (range 0.3-9 amp operating coil volts 230v or 24v.	no	100.00
435	To supply all materials, labour and transport for the replacement of Star-Delta-Starters, hand reset, with 2 or more auxiliary contacts and single phasing protection over-load relay, suitable for AC 500V, 3 Phase, 50 Hz conform to BS 587 and or IEC PUB 151-1, 292-1 up to 7.5 kw (10 hp) full (ranges 2.5amp, 4.5 - 9.0amp, 6.0 - 12amp, 12-16amp, operating coil volts 230v or 24v.	no	300.00
436	To supply all materials, labour and transport for the replacement of Star-Delta-Starters, hand reset, with 2 or more auxiliary contacts and single phasing protection over-load relay, suitable for AC 500V, 3 Phase, 50 Hz conform to BS 587 and or IEC PUB 151-1, 292-1 up to 11.0 kw (15 hp) (ranges 16-25amp, operating coil volts 230v or 24v.	no	250.00
437	To supply all materials, labour and transport for the replacement of Star-Delta-Starters, hand reset, with 2 or more auxiliary contacts and single phasing protection over-load relay, suitable for AC 500V, 3 Phase, 50 Hz conform to BS 587 and or IEC PUB 151-1, 292-1 up to 15 kw (20 hp) (ranges 24-34amps, operating coil volts 230v or 24v.	no	320.00
438	To supply labour, materials to install Approved MCCB 30amp-32amp 2 pole, 230volts including wiring trunking, PVC conduit and etc. with protective insulation, cover to Terminal position.	no	70.00
439	To supply labour, materials and install Approved MCCB 30amp-32amp 3 pole, 415volts including wiring trunking, PVC conduit and etc. with protective insulation, to cover to Terminal position.	no	120.00
440	To supply labour, materials and install Approved MCCB 45amp-	no	160.00



S/No	Description	Unit	Unit Cost (\$)
	60amp 3 pole, 415volts including protective insulation, to cover to Terminal position.		
441	To supply labour, materials and install any size of belting (A and B)	no	20.00
442	Not In Use		
443	Not In Use		
444	Not In Use		
445	Not In Use		
446	To carry out the steam cleaning for condensing unit of any capacity.	no	20.00
447	To carry out the steam cleaning for fan coil unit of any capacity and window unit.	no	48.00
448	To supply, labour, materials for the installation of Auto-transformer starter including panel for split unit of any capacity, 4 tapping (40%, 50%, 60% and 75%)	job	600.00
449-457	Not In Use		
458	To supply and install 130,000 Btuh to 158,000 Btuh floor stand ducted type of s/ split air-conditioner including all pipeworks, auto transformer and starter panel, motorised actuator and damper, minor ductwork alteration, hoisting by mobile crane, dismantling of existing units and pipework, opening holes on walls etc. S/S brackets and make good all disturbed areas. Testing and commissioning.	no	17600.00
459	To supply and install 158,001 Btuh to 183,000 Btuh floor stand ducted type of s/ split air-conditioner including all pipeworks, auto transformer and starter panel, motorised actuator and damper, minor ductwork alteration, hoisting by mobile crane, dismantling of existing units and pipework, opening holes on walls etc. S/S brackets and make good all disturbed areas. Testing and commissioning.	no	19250.00
460	To supply and install 183,001 Btuh to 206,000 Btuh floor stand ducted type of s/ split air-conditioner including all pipeworks, auto transformer and starter panel, motorised actuator and damper, minor ductwork alteration, hoisting by mobile crane, dismantling of existing units and pipework, opening holes on walls etc. S/S brackets and make good all disturbed areas. Testing and commissioning.	no	20900.00
461	Supply and replace PCB for indoor fan coil unit (non-inverter type) with cooling capacity of 8,000 Btuh to 24,500 Btuh c/w testing and re-commissioning of the unit.	no	375.00
462	Supply and replace PCB for indoor fan coil unit (non-inverter type) with cooling capacity of 24,600 Btuh to 48,500 Btuh c/w testing and re-commissioning of the unit.	no	375.00
463	Supply and replace PCB for outdoor condensing unit (non-inverter type) with cooling capacity of 8,000 Btuh to 24,500 Btuh c/w testing and re-commissioning of the unit.	no	375.00
464	Supply and replace PCB for outdoor condensing unit (non-inverter type) with cooling capacity of 24,600 Btuh to 48,500 Btuh c/w testing and re-commissioning of the unit.	no	510.00
465	Supply and replace PCB for outdoor condensing unit (inverter type) with cooling capacity of 8,000 Btuh to 24,500 Btuh c/w testing and re-commissioning of the unit.	no	260.00
466	Supply and replace PCB for outdoor condensing unit (inverter type) with cooling capacity of 24,600 Btuh to 48,500 Btuh c/w testing and re-commissioning of the unit.	no	500.00

S/No	Description	Unit	Unit Cost (\$)
467	Supply and replace Compressor (Standard) for VRV system up to a capacity of 5.5 Hp complete with charging gas testing and re-commissioning of the system.	no	2600.00
468	Supply and replace Compressor (Standard) for VRV system up to a capacity of 8.5 Hp complete with charging gas testing and re-commissioning of the system.	no	2714.00
469	Supply and replace Compressor (Standard) for VRV system up to a capacity of 10.5 Hp complete with charging gas testing and re-commissioning of the system.	no	2869.00
470	Supply and replace Compressor (Standard) for VRV system up to a capacity of 12.5 Hp complete with charging gas testing and re-commissioning of the system.	no	2869.00
471	Supply and replace Compressor (Inverter) for VRV system up to a capacity of 5.5 Hp complete with charging gas testing and re-commissioning of the system.	no	2714.00
472	Supply and replace Compressor (Inverter) for VRV system up to a capacity of 8.5 Hp complete with charging gas testing and re-commissioning of the system.	no	2869.00
473	Supply and replace Compressor (Inverter) for VRV system up to a capacity of 10.5 Hp complete with charging gas testing and re-commissioning of the system.	no	3000.00
474	Supply and replace Compressor (Inverter) for VRV system up to a capacity of 12.5 Hp complete with charging gas testing and re-commissioning of the system.	no	3200.00
475	Supply all materials, labour and transport (incl. hoisting) to install Daikin/ Mitsubishi/ Toshiba or equivalent for Wall Mounted Type VRV split unit (c/w remote controller, refnet joints & panel inclusive of 12 times of monthly servicing) for capacity up to 9000Btuh (Indoor Unit only). The rate herein shall include all wiring, PVC trunking, refrigerant, pipe works and insulation to no more than 50 meters, stainless steel bracket or cement casting for condensing unit, drainage, testing and commissioning.	no	960.00
476	Not in use		
477	Not in use		
478	Not in use		
479	Not in use		
480	Supply all materials, labour and transport (incl. hoisting) to install Daikin/ Mitsubishi/ Toshiba or equivalent for Floor Mounted Type (exposed) VRV split unit (c/w remote controller, refnet joints & panel inclusive of 12 times of monthly servicing) for capacity up to 12000Btuh (Indoor Unit only). The rate herein shall include all wiring, PVC trunking, refrigerant, pipe works and insulation to no more than 50 meters, stainless steel bracket or cement casting for condensing unit, drainage, testing and commissioning.	no	1210.00
481	Supply all materials, labour and transport (incl. hoisting) to install Daikin/ Mitsubishi/ Toshiba or equivalent for Floor Mounted Type (exposed) VRV split unit (c/w remote controller, refnet joints & panel inclusive of 12 times of monthly servicing) for capacity up to 18000Btuh (Indoor Unit only). The rate herein shall include all wiring, PVC trunking, refrigerant, pipe works and insulation to no	no	1310.00

S/No	Description	Unit	Unit Cost (\$)
482	more than 50 meters, stainless steel bracket or cement casting for condensing unit, drainage, testing and commissioning. Supply all materials, labour and transport (incl. hoisting) to install Daikin/ Mitsubishi/ Toshiba or equivalent for Floor Mounted Type (exposed) VRV split unit (c/w remote controller, refnet joints & panel inclusive of 12 times of monthly servicing) for capacity up to 24000Btuh (Indoor Unit only). The rate herein shall include all wiring, PVC trunking, refrigerant, pipe works and insulation to no more than 50 meters, stainless steel bracket or cement casting for condensing unit, drainage, testing and commissioning.	no	1410.00
483	Supply all materials, labour and transport (incl. hoisting) to install Daikin/ Mitsubishi/ Toshiba or equivalent for Floor Mounted Type (concealed) VRV split unit (c/w remote controller, refnet joints & panel inclusive of 12 times of monthly servicing) for capacity up to 12000Btuh (Indoor Unit only). The rate herein shall include all wiring, PVC trunking, refrigerant, pipe works and insulation to no more than 50 meters, stainless steel bracket or cement casting for condensing unit, drainage, testing and commissioning.	no	1050.00
484	Supply all materials, labour and transport (incl. hoisting) to install Daikin/ Mitsubishi/ Toshiba or equivalent for Ceiling Mounted Cassette (4-way) Type VRV split unit (c/w remote controller, refnet joints & panel inclusive of 12 times of monthly servicing) for capacity up to 12000Btuh (Indoor Unit only). The rate herein shall include all wiring, PVC trunking, refrigerant, pipe works and insulation to no more than 50 meters, stainless steel bracket or cement casting for condensing unit, drainage, testing and commissioning.	no	1470.00
485	Supply all materials, labour and transport (incl. hoisting) to install Daikin/ Mitsubishi/ Toshiba or equivalent for Ceiling Mounted Cassette (4-way) Type VRV split unit (c/w remote controller, refnet joints & panel inclusive of 12 times of monthly servicing) for capacity up to 15000Btuh (Indoor Unit only). The rate herein shall include all wiring, PVC trunking, refrigerant, pipe works and insulation to no more than 50 meters, stainless steel bracket or cement casting for condensing unit, drainage, testing and commissioning.	no	1590.00
486	Supply all materials, labour and transport (incl. hoisting) to install Daikin/ Mitsubishi/ Toshiba or equivalent for Ceiling Mounted Cassette (4-way) Type VRV split unit (c/w remote controller, refnet joints & panel inclusive of 12 times of monthly servicing) for capacity up to 18000Btuh (Indoor Unit only). The rate herein shall include all wiring, PVC trunking, refrigerant, pipe works and insulation to no more than 50 meters, stainless steel bracket or cement casting for condensing unit, drainage, testing and commissioning.	no	1640.00
487	Supply all materials, labour and transport (incl. hoisting) to install Daikin/ Mitsubishi/ Toshiba or equivalent for Ceiling Mounted Cassette (4-way) Type VRV split unit (c/w remote controller, refnet joints & panel inclusive of 12 times of monthly servicing) for capacity up to 24000Btuh (Indoor Unit only). The rate herein shall include all	no	1690.00

S/No	Description	Unit	Unit Cost (\$)
484	wiring, PVC trunking, refrigerant, pipe works and insulation to no more than 50 meters, stainless steel bracket or cement casting for condensing unit, drainage, testing and commissioning. Supply all materials, labour and transport (incl. hoisting) to install Daikin/ Mitsubishi/ Toshiba or equivalent for Ceiling Mounted Cassette (4-way) Type VRV split unit (c/w remote controller, refnet joints & panel inclusive of 12 times of monthly servicing) for capacity up to 30000Btuh (Indoor Unit only). The rate herein shall include all wiring, PVC trunking, refrigerant, pipe works and insulation to no more than 50 meters, stainless steel bracket or cement casting for condensing unit, drainage, testing and commissioning.		2010.00
485	Supply all materials, labour and transport (incl. hoisting) to install Daikin/ Mitsubishi/ Toshiba or equivalent for Ceiling Mounted Cassette (4-way) Type VRV split unit (c/w remote controller, refnet joints & panel inclusive of 12 times of monthly servicing) for capacity up to 36000Btuh (Indoor Unit only). The rate herein shall include all wiring, PVC trunking, refrigerant, pipe works and insulation to no more than 50 meters, stainless steel bracket or cement casting for condensing unit, drainage, testing and commissioning.	no	2060.00
486	Supply all materials, labour and transport (incl. hoisting) to install Daikin/ Mitsubishi/ Toshiba or equivalent for Ceiling Mounted Cassette (4-way) Type VRV split unit (c/w remote controller, refnet joints & panel inclusive of 12 times of monthly servicing) for capacity up to 48000Btuh (Indoor Unit only). The rate herein shall include all wiring, PVC trunking, refrigerant, pipe works and insulation to no more than 50 meters, stainless steel bracket or cement casting for condensing unit, drainage, testing and commissioning.	no	2110.00
487	Supply all materials, labour and transport (incl. hoisting) to install Daikin/ Mitsubishi/ Toshiba or equivalent for VRV Condensing Unit (c/w remote controller, refnet joints & panel inclusive of 12 times of monthly servicing) for capacity up to 100000Btuh (Outdoor Unit only). The rate herein shall include all wiring, PVC trunking, refrigerant, pipe works and insulation to no more than 50 meters, stainless steel bracket or cement casting for condensing unit, drainage, testing and commissioning.	no	7167.00
488	Supply and install Daikin/ Mitsubishi/ Toshiba or equivalent (Ceiling Suspended type) Single Split Unit for capacity up to 12,500Btuh. The rate herein shall include all wiring, PVC trunking, refrigerant, pipe works and insulation to no more than 25 meters, stainless steel bracket or cement casting for condensing unit, testing and commissioning of air-cooled multi/single split air-conditioning unit with minimum gross cooling capacity not less than what is specific. Inclusive of one (1) year warranty for entire system & six (6) two monthly servicing, dismantling the existing air-con system and make good to disturbed area if any. The complete new set of the split air-conditioning unit (condensing and fan coil units c/w wireless/ wire remote control with drainage).	no	2166.00
489	Supply and install Daikin/ Mitsubishi/ Toshiba or equivalent (Ceiling Suspended type) Single Split Unit for capacity up to 18,500Btuh. The rate herein shall include all wiring, PVC trunking, refrigerant, pipe works and insulation to no more than 25 meters, stainless steel	no	2227.00

S/No	Description	Unit	Unit Cost (\$)
490	<p>bracket or cement casting for condensing unit, testing and commissioning of air-cooled multi/single split air-conditioning unit with minimum gross cooling capacity not less than what is specific. Inclusive of one (1) year warranty for entire system &amp; six (6) two monthly servicing, dismantling the existing air-con system and make good to disturbed area if any. The complete new set of the split air-conditioning unit (condensing and fan coil units c/w wireless/ wire remote control with drainage).</p> <p>Supply and install Daikin/ Mitsubishi/ Toshiba or equivalent (Ceiling Suspended type) Single Split Unit for capacity up to 24,500Btuh. The rate herein shall include all wiring, PVC trunking, refrigerant, pipe works and insulation to no more than 25 meters, stainless steel</p>	no	2227.00
491	<p>bracket or cement casting for condensing unit, testing and commissioning of air-cooled multi/single split air-conditioning unit with minimum gross cooling capacity not less than what is specific. Inclusive of one (1) year warranty for entire system &amp; six (6) two monthly servicing, dismantling the existing air-con system and make good to disturbed area if any. The complete new set of the split air-conditioning unit (condensing and fan coil units c/w wireless/ wire remote control with drainage).</p> <p>Supply and install Daikin/ Mitsubishi/ Toshiba or equivalent (Ceiling Suspended type) Single Split Unit for capacity up to 28,500Btuh. The rate herein shall include all wiring, PVC trunking, refrigerant, pipe works and insulation to no more than 25 meters, stainless steel</p>	no	2227.00
492	<p>bracket or cement casting for condensing unit, testing and commissioning of air-cooled multi/single split air-conditioning unit with minimum gross cooling capacity not less than what is specific. Inclusive of one (1) year warranty for entire system &amp; six (6) two monthly servicing, dismantling the existing air-con system and make good to disturbed area if any. The complete new set of the split air-conditioning unit (condensing and fan coil units c/w wireless/ wire remote control with drainage).</p> <p>Supply and install Daikin/ Mitsubishi/ Toshiba or equivalent (Ceiling Suspended type) Single Split Unit for capacity up to 36,500Btuh. The rate herein shall include all wiring, PVC trunking, refrigerant, pipe works and insulation to no more than 25 meters, stainless steel</p>	no	3306.00
493	<p>bracket or cement casting for condensing unit, testing and commissioning of air-cooled multi/ single split air-conditioning unit with minimum gross cooling capacity not less than what is specific. Inclusive of one (1) year warranty for entire system &amp; six (6) two monthly servicing, dismantling the existing air-con system and make good to disturbed area if any. The complete new set of the split air-conditioning unit (condensing and fan coil units c/w wireless/ wire remote control with drainage).</p> <p>Supply and install Daikin/ Mitsubishi/ Toshiba or equivalent (Ceiling Suspended type) Single Split Unit for capacity up to 48,500Btuh. The rate herein shall include all wiring, PVC trunking, refrigerant, pipe works and insulation to no more than 25 meters, stainless steel</p>	no	3564.00

S/No	Description	Unit	Unit Cost (\$)
	Inclusive of one (1) year warranty for entire system & six (6) two monthly servicing, dismantling the existing air-con system and make good to disturbed area if any. The complete new set of the split air-conditioning unit (condensing and fan coil units c/w wireless/wire remote control with drainage).		
494	Chemical Cleaning of cooling coils for AHU or FAU or chilled water fan coil with approved chemical and painting of rusty parts for cooling capacity up to 17.5kW	no	53.00
495	Chemical Cleaning of cooling coils for AHU or FAU or chilled water fan coil with approved chemical and painting of rusty parts for cooling capacity up to 35.1kW	no	57.00
496	Chemical Cleaning of cooling coils for AHU or FAU or chilled water fan coil with approved chemical and painting of rusty parts for cooling capacity up to 52.7kW	no	70.00
497	Chemical Cleaning of cooling coils for AHU or FAU or chilled water fan coil with approved chemical and painting of rusty parts for cooling capacity up to 70.3kW	no	75.00
498	Chemical Cleaning of cooling coils for AHU or FAU or chilled water fan coil with approved chemical and painting of rusty parts for cooling capacity up to 105.5kW	no	84.00
499	Chemical Cleaning of cooling coils for AHU or FAU or chilled water fan coil with approved chemical and painting of rusty parts for cooling capacity up to 140.6kW	no	88.00
500	Chemical Cleaning of cooling coils for AHU or FAU or chilled water fan coil with approved chemical and painting of rusty parts for cooling capacity up to 175.8kW	no	97.00
501	Chemical Cleaning of cooling coils for AHU or FAU or chilled water fan coil with approved chemical and painting of rusty parts for cooling capacity up to 210.9kW	no	106.00
502	Chemical Cleaning of cooling coils for AHU or FAU or chilled water fan coil with approved chemical and painting of rusty parts for cooling capacity up to 246.1kW	no	114.00
503	Chemical Cleaning of cooling coil for air-cooled and VRV system with approved chemical and painting of rusty parts for cooling capacity up to 7.0kW	no	44.00
504	Chemical Cleaning of cooling coil for air-cooled and VRV system with approved chemical and painting of rusty parts for cooling capacity up to 17.5kW	no	62.00
505	Chemical Cleaning of cooling coil for air-cooled and VRV system with approved chemical and painting of rusty parts for cooling capacity up to 35.1kW	no	70.00
506	Chemical Cleaning of cooling coil for air-cooled and VRV system with approved chemical and painting of rusty for cooling capacity parts up to 52.7kW	no	88.00
507	Chemical Cleaning of cooling coil for air-cooled and VRV system with approved chemical and painting of rusty parts for cooling capacity up to 70.3kW	no	106.00
508	Chemical Cleaning of cooling coil for air-cooled and VRV system with approved chemical and painting of rusty parts for cooling capacity up to 105.5kW	no	123.00
	Chemical Cleaning of cooling coil for air-cooled and VRV system with	no	141.00

S/No	Description	Unit	Unit Cost (\$)
509	approved chemical and painting of rusty parts for cooling capacity up to 140.6kW		
	Chemical Cleaning of cooling coil for air-cooled and VRV system with approved chemical and painting of rusty parts for cooling capacity up to 175.8kW	no	158.00
510	approved chemical and painting of rusty parts for cooling capacity up to 175.8kW		
511	Chemical Cleaning of cooling coil for air-cooled and VRV system with approved chemical and painting of rusty parts for cooling capacity up to 210.9kW	no	176.00
512	Chemical Cleaning of cooling coil for air-cooled and VRV system with approved chemical and painting of rusty parts or cooling capacity up to 246.1kW	no	194.00
513	Chemical Cleaning of cooling coil for air-cooled and VRV system with approved chemical and painting of rusty parts for cooling capacity above 246.1kW	no	211.00
514	To supply and charge refrigerant gas (R134a) only.	Kg	18.80
515	To supply nitrogen gas.	Cyc	50.00
516	To supply and charge refrigerant gas (R123) only.	Kg	26.00
517	Supply and replace pre-insulated (polyurethane complete with jacketing) refrigerant pipes for up to 6.5mm diameter .Rates shall include all necessary supports, hangers and pipe fittings e.g. elbow, tees, unions etc.	m	21.00
518	Supply and replace pre-insulated (polyurethane complete with jacketing) refrigerant pipes for up to 10.0mm diameter. Rates shall include all necessary supports, hangers and pipe fittings e.g. elbow, tees, unions etc.	m	28.00
519	Supply and replace pre-insulated (polyurethane complete with jacketing) refrigerant pipes for up to 13.0mm diameter. Rates shall include all necessary supports, hangers and pipe fittings e.g. elbow, tees, unions etc	m	30.00
520	Supply and replace pre-insulated (polyurethane complete with jacketing) refrigerant pipes for up to 16.0mm diameter. Rates shall include all necessary supports, hangers and pipe fittings e.g. elbow, tees, unions etc.	m	33.00
521	Supply and replace pre-insulated (polyurethane complete with jacketing) refrigerant pipes for up to 20.0mm diameter. Rates shall include all necessary supports, hangers and pipe fittings e.g. elbow, tees, unions etc.	m	39.00
522	Supply and replace pre-insulated (polyurethane complete with jacketing) refrigerant pipes for up to 22.0mm diameter. Rates shall include all necessary supports, hangers and pipe fittings e.g. elbow, tees, unions etc.	m	41.00
523	Supply and replace pre-insulated (polyurethane complete with jacketing) refrigerant pipes for 28.5mm diameter. Rates shall include all necessary supports, hangers and pipe fittings e.g. elbow, tees, unions etc.	m	43.00
524	Chemical cleaning of chiller shell and tubes cooler/condenser with approved chemical or brush up to 400RT including replacement of gasket, anti-corrosive protection painting	no	748.00
525	Chemical cleaning of chiller shell and tubes cooler/condenser with approved chemical or brush up to 800RT including replacement of gasket, anti-corrosive protection painting	no	924.00

**2. CENTRAL AIRCON MAINTENANCE**

S/No	Description	Unit	Unit Cost (\$)
1	Bi-Monthly servicing of air-cooled/water-cooled reciprocating chiller, air-cooled water-cooled packaged unit and computer air conditioner complete with the starter panels and chilled water pumps, condenser water pumps for the systems up to 10 RT	set	25.00
2	Bi-Monthly servicing of air-cooled/ water-cooled reciprocating chiller, air-cooled water-cooled packaged unit and computer air conditioner complete with the starter panels and chilled water pumps, condenser water pumps for the systems up to 20 RT.	set	40.00
3	Bi-Monthly servicing of air-cooled/ water-cooled reciprocating chiller, air-cooled/ water-cooled packaged unit and computer air conditioner complete with the starter panels and chilled water pumps, condenser water pumps for the systems up to 50 RT.	set	50.00
4	Bi-Monthly servicing of air-cooled/ water-cooled reciprocating chiller, air-cooled/ water-cooled packaged unit and computer air conditioner complete with the starter panels and chilled water pumps, condenser water pumps for the systems up to 80 RT.	set	80.00
5	Bi-Monthly servicing of air-cooled/ water-cooled reciprocating chiller, air-cooled/ water-cooled packaged unit and computer air conditioner complete with the starter panels and chilled water pumps, condenser water pumps for the systems up to 120 TR and above	set	100.00
6	Munters dehumidifiers - To Supply labour tools and transport for a One-Time servicing of a Dehumidifier of all capacity including testing and commissioning	set	390.00
7	Rewinding of hermetic/ semi-hermetic compressor, 230v, 50Hz including renewal of bearing/ bushing, strainer, filter drier, general overhaul, replacing of gaskets flushing, vacuuming system, recharging gas and re-commissioning up to 1.5 kw.	no	300.00
8	Rewinding of hermetic/ semi-hermetic compressor, 230v, 50Hz including renewal of bearing/ bushing, strainer, filter drier, general overhaul, replacing of gaskets flushing, vacuuming system, recharging gas and re-commissioning up to 2.25 kw	no	400.00
9	Rewinding of hermetic/ semi-hermetic compressor, 230v, 50Hz including renewal of bearing/ bushing, strainer, filter drier, general overhaul, replacing of gaskets flushing, vacuuming system, recharging gas and re-commissioning up to 3.75 kw.	no	500.00
10	Rewinding of hermetic/ semi-hermetic compressor, 415v, 50Hz including renewal of bearing/ bushing, strainer, filter drier, general overhaul, replacing of gaskets flushing, vacuuming system, recharging gas and re-commissioning up to 3.75 kw.	no	600.00
11	Rewinding of hermetic/ semi-hermetic compressor, 415v, 50Hz including renewal of bearing/ bushing, strainer, filter drier, general overhaul, replacing of gaskets flushing, vacuuming system, recharging gas and re-commissioning up to 5.62 kw	no	800.00
12	Rewinding of hermetic/ semi-hermetic compressor, 415v, 50Hz including renewal of bearing/ bushing, strainer, filter drier, general overhaul, replacing of gaskets flushing, vacuuming system, recharging gas and re-commissioning up to 7.5 kw.	no	1,100.00
13	Rewinding of hermetic/ semi-hermetic compressor, 415v, 50Hz	no	1,400.00



S/No	Description	Unit	Unit Cost (\$)
14	including renewal of bearing/ bushing, strainer, filter drier, general overhaul, replacing of gaskets flushing, vacuuming system, recharging gas and re-commissioning up to 1.25 kw Rewinding of hermetic/ semi-hermetic compressor, 4/5v, 50Hz	no	1,700.00
15	including renewal of bearing/ hushing, strainer, filter drier, general overhaul, replacing of gaskets flushing, vacuuming system, recharging gas and re-commissioning up to 15 kw. Rewinding of hermetic/ semi-hermetic compressor, 415v, 50Hz	no	2,240.00
16	including renewal of bearing/ bushing, strainer, filter drier, general overhaul, replacing of gaskets flushing, vacuuming system, recharging gas and re-commissioning up to 18.75 kw. Rewinding of hermetic/ semi-hermetic compressor, 415v, 50Hz	no	2,500.00
17	including renewal of bearing/ bushing, strainer, filter drier, general overhaul, replacing of gaskets flushing, vacuuming system, recharging gas and re-commissioning up to 22.5 kw. Rewinding of hermetic/ semi-hermetic compressor, 415v, 50Hz	no	3,000.00
18	including renewal of bearing/ bushing, strainer, filter drier, general overhaul, replacing of gaskets flushing, vacuuming system, recharging gas and re-commissioning up to 30 kw Rewinding of hermetic/ semi-hermetic compressor, 415v, 50Hz	no	3,020.00
19	including renewal of bearing/ bushing, strainer, filter drier, general overhaul, replacing of gaskets flushing, vacuuming system, recharging gas and re-commissioning up to 37.5 kw Rewinding of hermetic/ semi-hermetic compressor, 415v, 50Hz	no	3,250.00
20	including renewal of bearing/ bushing, strainer, filter drier, general overhaul, replacing of gaskets flushing, vacuuming system, recharging gas and re-commissioning up to 45 kw Rewinding of hermetic/ semi-hermetic compressor, 415v, 50Hz	no	4,000.00
21	including renewal of bearing/ bushing, strainer, filter drier, general overhaul, replacing of gaskets flushing, vacuuming system, recharging gas and re-commissioning up to 60 kw, To supply labour for the dismantling, and inspection and returning the compressors to the origin location only when the compressors is beyond the economical repair.	no	100.00
22	To supply all materials, labours and transports to replace hermetic compressor including installation, brazing, purging system, vacuum, charging gas and testing and commissioning (included disposal of defective parts) 415v, 50Hz, up to 3.75kw	no	1,600.00
23	To supply all materials, labours and transports to replace hermetic compressor including installation, brazing, purging system, vacuum, charging gas and testing and commissioning (included disposal of defective parts) 415v, 50Hz, up to 5.62kw	no	2,000.00
24	To supply all materials, labours and transports to replace hermetic compressor including installation, brazing, purging system, vacuum, charging gas and testing and commissioning (included disposal of defective parts) 415v, 50Hz, up to 7.5kw	no	2,400.00
25	To supply all materials, labours and transports to replace hermetic compressor including installation, brazing, purging system, vacuum, charging gas and testing and commissioning (included disposal of defective parts) 4/5v, 50Hz, up to 11.25kw	no	2,800.00

S/No	Description	Unit	Unit Cost (\$)
26	To supply all materials, labours and transports to replace new hermetic compressor including installation, brazing, purging system, vacuum, charging gas and testing and commissioning (included disposal of defective parts) 415v, 50Hz, up to 9,000 Btuh	no	840.00
27	To supply all materials, labours and transports to replace new hermetic compressor including installation, brazing, purging system, vacuum, charging gas and testing and commissioning (included disposal of defective parts) 415v, 50Hz, up to 12,000 Btuh	no	2,800.00
28	To supply all materials, labours and transports to replace new hermetic compressor including installation, brazing, purging system, vacuum, charging gas and testing and commissioning (included disposal of defective parts) 415v, 50Hz, up to 18,000 Btuh	no	4,200.00
29	To supply all materials, labours and transports to replace new hermetic compressor including installation, brazing, purging system, vacuum, charging gas and testing and commissioning (included disposal of defective parts) 415v, 50Hz, up to 26,000 Btuh	no	6,000.00
30	To supply all materials, labours and transports to replace new hermetic compressor including installation, brazing, purging system, vacuum, charging gas and testing and commissioning (included disposal of defective parts) 415v, 50Hz, up to 38,000 Btuh	no	7,000.00
31	To supply all materials, labours and transports to replace new hermetic compressor including installation, brazing, purging system, vacuum, charging gas and testing and commissioning (included disposal of defective parts) 415v, 50Hz, up to 52,000 Btuh	no	9,600.00
32	Rewinding of hermetic/semi-hermetic compressor, 415v, 50 Hz including renewal of bearing/bushing , strainer, filter drier, general overhaul, replacing of gaskets flushing, vacuuming system recharging gas and recommissioning up to 80kw	no	5,000.00
33	Rewinding of hermetic/semi-hermetic compressor, 415v, 50 Hz including renewal of bearing/bushing , strainer, fileter drier, general overhaul, replacing of gaskets flushing, vacuuming system recharging gas and recommissioning up to 120kw	no	6,000.00
34	To supply all materials, labours and transports to replace semi-hermetic ompressor inlcuded installation, brazing, purging system, vacuum, charging gas and testing and commissioning (included disposal of defective parts) 415v, 50Hz, up to 7.5kw	no	5,000.00
35	To supply and replace termiN.A.I clip	no	1.00
36	To pressurize system and perform refrigerant leaks test with nitrogen up to 50 ton (Labour and nitrogen only)	job	150.00
37	To pressurize system and perform to repair gas leaks, leak test (after repair) replace filter drier, vacuum system and charge gas up to 20 ton.	job	200.00
38	To pressurize system and perform pressurise system and perform leak test with nitrogen gas repair gas leaks, leak test (after repair) replace filter drier, vacuum system and charge gas up to 600,000 Btu	job	250.00
39	To supply labour, tools and materials to repair gas leaks, leak test (after repair) vacuum system and charge gas (labour only) by tightening of loose parts. (Up to 20 RT)	job	200.00

S/No	Description	Unit	Unit Cost (\$)
40	To supply labour, tools and materials to repair gas leaks, leak test (after repair) vacuum system and charge gas (labour only) By flaring, replacing of flare nuts (includes copper fitting) (Up to 50 RT)	job	220.00
41	To supply labour, tools and materials to repair gas leaks, leak test (after repair) vacuum system and charge gas (labour only) By brazing of cracks (include copper pipes copper fitting and modification of pipe lines) (Up to 100 RT and above. )	job	600.00
42 - 119	N.A.		
119	To supply and install flexible vibration absorber tube including brazing and flaring up to 1 3/8	no	120.00
120	To supply and install flexible vibration absorber tube including brazing and flaring up to 1 5/8	no	140.00
121	To supply and install flexible vibration absorber tube including brazing and flaring up to 2 1/8	no	200.00
122	To supply and replace Dual Pressure Switch-manual reset	no	160.00
123	To supply and replace High Pressure Switch-manual reset (Range:8 - 30 Kg/ sq cm).	no	140.00
124	To supply and replace High Pressure Switch-auto reset	no	80.00
125	To supply and replace Low Pressure Switch -auto reset	no	80.00
126	To supply and replace Oil Pressure Switch	no	85.00
127	To supply and replace Suction or Discharge Pressure Gauge	no	85.00
128	To supply and replace Water Flow Switch	no	160.00
129	To supply and replace Chilled Water Pressure Gauge	no	80.00
130	To supply and replace Condenser Water Pressure Gauge	no	80.00
131	To supply and replace Thermometer	no	80.00
132	To supply and replace Low Chilled Water Cut Out Switch	no	260.00
133	To supply and replace Oil Pressure Safety Switch	no	400.00
134	To supply and replace Expansion Valves including brazing and flaring up to 5 RT	no	150.00
135	To supply and replace Expansion Valves including brazing and flaring up to 10RT	no	170.00
136	To supply and replace Expansion Valves including brazing and flaring up to 12 RT	no	220.00
137	To supply and replace Expansion Valves including brazing and flaring up to 15 RT	no	280.00
138	To supply and replace Expansion Valves including brazing and flaring up to 20 RT	no	320.00
139	To supply and replace Expansion Valves including brazing and flaring up to 25 RT	no	380.00
140	To supply and replace Expansion Valves including brazing and flaring up to 30 RT	no	693.00
141	To supply and replace Expansion Valves including brazing and flaring up to 35 RT	no	726.00
142	To supply and replace Expansion Valves including brazing and flaring up to 45 RT	no	770.00
143	To supply and replace Expansion Valves including brazing and flaring up to 75 RT	no	968.00
144	To supply and replace Liquid Line Filter Drier Up To 1/4 (6.5 mm) Diameter	no	60.00
145	To supply and replace Liquid Line Filter Drier Up To 3/8" (9.6 mm) diameter	no	65.00

S/No	Description	Unit	Unit Cost (\$)
146	To supply and replace Liquid Line Filter Drier Up To 1/2" (12.7 mm) Diameter	no	80.00
147	To supply and replace Liquid Line Filter Drier Up To 5/8 (16.0 mm) Diameter	no	90.00
148	To supply and replace Liquid Line Filter Drier Up To 3/4 (19.1 mm) Diameter	no	100.00
149	To supply and replace Liquid Line Filter Drier Up To 1 (25.4 mm) Diameter	no	120.00
150	To supply and replace Filter Drier Core All Sizes	no	60.00
151	To supply and replace Single Size Drier Core's Assembly (Housing) c/w One Drier Core	no	260.00
152	To supply and replace Double Size Drier Core's Assembly (Housing) c/w Two Drier	no	300.00
153	To supply and replace Sight Glass with moisture indicator up to 1/4 x 1/4 (6.5 x 6.5mm)	no	88.00
154	To supply and replace Sight Glass with moisture indicator up to 3/8 x 3/8 (9.6 x 9.6 min)	no	99.00
155	To supply and replace Sight Glass with moisture indicator up to 1/2 x 1/2 (12.7 x 12.7 m)	no	70.00
156	To supply and replace Sight Glass with moisture indicator up to 5/8 x 5/8 (16.0 x 16.0 min)	no	80.00
157	To supply and replace Sight Glass with moisture indicator up to 3/4 x 3/4 (19.1 x 19.1 min)	no	90.00
158	To supply and replace Sight Glass with moisture indicator up to 1 x 1 (25.4 x 25.4 mm)	no	100.00
159	To supply and replace Solenoid Valve up to 6.5mm	no	88.00
160	To supply and replace Solenoid Valve up to 12.7 mm	no	132.00
161	To supply and replace Solenoid Valve up to 19.1 mm	no	176.00
162	To supply and replace Solenoid Valve up to 25.4 mm	no	220.00
163	To supply and replace Solenoid Valve up to 31.7 mm	no	330.00
164	To supply and replace Solenoid Valve up to 38.1 mm	no	495.00
165	To supply and replace Solenoid Valve up to 41.3 mm	no	715.00
166	To supply and replace Solenoid Valve up to 44.5 mm	no	990.00
167	To supply and install 6.5mm Dia Refrigerant pipe	m	6.50
168	To supply and install 9.5 min Dia. Refrigerant pipe	m	7.50
169	To supply and install 12.5 mm Dia. Refrigerant pipe	m	8.50
170	To supply and install 16.0mm Dia. Refrigerant pipe	m	9.50
171	To supply and install 19.0 min Dia. Refrigerant pipe	m	10.00
172	To supply and install 22.0mm Dia Refrigerant pipe	m	11.00
173	To supply and install 28.5 mm Dia Refrigerant pipe	m	12.00
174-190	N.A.		
191	Leak Check with Re-Insulation - per Service	no	2,960.00
192	Oil AN.A.lysis - Per Sample	no	250.00
193	Condenser Tube Cleaning	no	1,300.00
194	Evaporator Tube Cleaning	no	1,800.00
195	Supply of Starter Contactor	no	860.00
196	Supply of Annual Shutdown	no	3,700.00
197	Supply of Expansion Valve	no	2,050.00
198	Supply of Evaporator O-Ring (01 Side)	no	360.00
199	Supply of Condenser O-Ring (01 Side)	no	360.00

S/No	Description	Unit	Unit Cost (\$)
200	Supply of Safety Valve	no	3,360.00
201	Supply of Filter Core	no	380.00
202	Heater Element	no	780.00
203	Pressure Control	no	1,985.00
204	Pressure Control	no	1,800.00
205	Pressure Gauge	no	480.00
206	Pressure Gauge	no	480.00
207	Pressure Gauge	no	480.00
208	Pump	no	5,690.00
209	Supply of Pump Motor	no	4,680.00
210	Supply of Sensor	no	460.00
211	Supply of Oil Temp Sensor	no	450.00
212	Supply of Protection Sensor	no	450.00
213 - 322	N.A.		
323	To supply and replace fan housing up to 254 mm (10) Dia. Material fabricated heavy gauge galvanised steel BG 20 min	no	120.00
324	To supply and replace fan housing up to 280 mm (11) Dia. material: fabricated heavy gauge galvanised steel BG 20 minimum	no	132.00
325	To supply and replace fan housing up to 305 mm (12) Dia. Material fabricated heavy gauge galvanised steel BG 20 minimum	no	144.00
326	To supply and replace fan housing up to 330 mm (13) Dia. material: fabricated heavy gauge galvanised steel BG 20 minimum	no	168.00
327	To supply and replace fan housing up to 355 Trim (14) Dia. material: fabricated heavy gauge galvanised steel BG 20 minimum	no	192.00
328	To supply and replace fan housing up to 380 mm (15) Dia. material: fabricated heavy gauge galvanised steel BG 20 minimum	no	216.00
329	To supply and replace fan housing up to 406 min (16) Dia. material: fabricated heavy gauge galvanised steel BG 20 minimum	no	264.00
330	To supply and replace fan housing up to 460 mm (18) Dia. material: fabricated heavy gauge galvanised steel BG 20 minimum	no	360.00
331	To supply and replace fan housing up to 508 mm (20) Dia. material: fabricated heavy gauge galvanised steel BG 20 minimum	no	444.00
332	To supply and replace fan housing up to 559 mm (22) Dia. material: fabricated headvy gauge galvanised steel BG20 minimum	no	540.00
333	To supply and replace fan housing up to 610 mm (24) Dia. material: fabricated heavy gauge galvanised steel BG 20 minimum	no	660.00
334	To supply and replace fan housing up to 712 mm (28) Dia. material: fabricated heavy gauge galvanised steel BG 20 minimum	no	780.00
335	To supply and replace fan housing up to 762mm (30) Dia. material: fabricated heavy gauge galvanised steel BG 20 minimum	no	900.00
336	To supply and replace fan housing up to 915 mm (36) Dia. material: fabricated heavy gauge galvanised steel BG 20 minimum	no	1,140.00
337	To replace fan blower wheel including alignment balancing & commissioning up to 180mm x 180mm (7 x 7) single wheel	no	200.00
338	To replace fan blower wheel including\ alignment, balancing and commissioning up to 180mm x 180mm (7 x 7), double wheel (l unit = 2nos)	no	260.00
339	To replace fan blower wheel including alignment, balancing and commissioning up to 180mm x 250mm (7 x 10), single wheel	no	220.00
340	To replace fan blower wheel including alignment, balancing and	no	280.00

S/No	Description	Unit	Unit Cost (\$)
	commissioning up 180mm x 250mm (7 x 10) duple wheel (1 unit = 2 nos)		
341	To replace fan blower wheel including alignment, balancing and commissioning up to 230mm x 230mm (9 x 9) single wheel	no	240.00
342	To replace fan blower wheel including alignment, balancing and commissioning up to 254mm x 254mm (10 x 10) single wheel	no	260.00
343	To replace fan blower wheel including alignment, balancing and commissioning up to 305mm x 305mm (12 x 12), single wheel	no	300.00
344	To replace fan blower wheel including alignment, balancing and commissioning up to 380mm x 380mm (15 x 15), single wheel	no	380.00
345	To replace fan blower wheel including alignment, balancing and commissioning up to 460mm x 460mm (18 x 18) single wheel	no	480.00
346	To replace fan blower wheel including alignment, balancing and commissioning up to 460mm x 610mm (18 x 24) single wheel	no	530.00
347	To replace fan blower wheel including alignment, balancing and commissioning up to 500mm x 500mm (20 x 20), single wheel	no	950.00
348	To replace fan blower wheel including alignment, balancing and commissioning up to 550mm x 550mm (22 x 22) single wheel	no	1,100.00
349	To replace fan blower wheel including alignment, balancing and commissioning up to 625mm x 625mm (25 x 25), single wheel	no	1,250.00
350	To replace fan blower wheel including alignment, balancing and commissioning up to 625mm x 700mm (25 x 28), single wheel	no	1,300.00
351	To replace fan blower wheel including alignment, balancing and commissioning up to 700mm x 700mm (28 x 28) single wheel	no	1,450.00
352	To replace fan blower wheel including alignment, balancing and commissioning up to 700mm x 750mm (28 x 30), single wheel	no	1,500.00
353	To replace fan blower wheel including alignment, balancing and commissioning up to 750mm x 750mm (30 x 30), single wheel	no	1,600.00
354	To supply labour and materials to replace pillow block bearings up to 1/2 (12.7mm) dia	no	90.00
355	To supply labour and materials to replace pillow block bearings up to 3/4 (19.05mm) dia.	no	120.00
356	To supply labour and materials to replace pillow block bearings up to 1 (25.4mm) Dia.	no	150.00
357	To supply labour and materials to replace pillow block bearings up to 1 1/2 (38.1mm) Dia.	no	198.00
358	To supply labour and materials to replace pillow block bearings up to 1 7/8 (47.63mm) dia	no	240.00
359	To supply labour and materials to replace pillow block bearings up to 2 (50.8mm) dia.	no	264.00
360	To supply labour and materials to replace pillow block bearings up to 2 1/2 (63.5mm) Dia.	no	288.00
361	To supply labour and materials to replace pillow block bearings up to 3 (76.2mm) Dia	no	336.00
362	To supply and replace steel shaft including machine key, key way and end threads up to 3/4 (19mm) dia	no	240.00
363	To supply and replace steel shaft including machine key, key way and end threads up to 1 (25.4mm) dia	no	276.00
364	to supply and replace steel shaft including machine key, key way and end theads up to 1 1/4 (32mm) dia	no	324.00
365	To supply and replace steel shaft including machine key, key way	no	384.00

S/No	Description	Unit	Unit Cost (\$)
366	and end threads up to 1 1/2 (38mm) dia To supply and replace steel shaft including machine key, key way and end threads up to 1 5/8 (41mm) dia	no	444.00
367	To supply and replace steel shaft including machine key, key way and end threads up to 1 3/4 (45mm) Dia.	no	504.00
368	To supply and replace steel shaft including machine key, key way and end threads up to 2 (50mm) dia	no	564.00
369	To supply and replace steel shaft including machine key, key way and end threads up to 2 1/4 (57mm) dia.	no	660.00
370	To supply and replace steel shaft including machine key, key way and end threads up to 2 5/8 (70mm) dia	no	840.00
371	To supply labour, tool and transport for the repair of steel shaft including machining key, keyway, threads & etc.	no	150.00
372	To supply and replace pulley up to 100mm dia x A1	no	144.00
373	To supply and replace pulley up to 100mm dia x A2	no	144.00
374	To supply and replace pulley up to 114m dia x A1	no	156.00
375	To supply and replace pulley up to 114m dia x A2	no	156.00
376	To supply and replace pulley up to 100mm dia x B1	no	144.00
377	To supply and replace pulley up to 100mm dia x B2	no	156.00
378	To supply and replace pulley up to 114mm dia x B1	no	156.00
379	To supply and replace pulley up to 114mm dia x B2	no	168.00
380	To supply and replace pulley up to 254mm dia x B1	no	180.00
381	To supply and replace pulley up to 254mm dia x B2	no	192.00
382	To supply and replace pulley up to 305mm (12) dia x B1	no	192.00
383	To supply and replace pulley up to 305mm (12) dia x B2	no	204.00
384	To supply and replace pulley up to 355mm (14) dia x B1	no	204.00
385	To supply and replace pulley up to 355mm (14) dia x B2	no	228.00
386	To supply all labour, materials, transport and tools to replace/install taper lock pulley (complete with bush and max. bore) including aligning and commissioning the system for single A groove pulley up to SPA 112 x 1	no	125.00
387	To supply all labour, materials, transport and tools to replace/install taper lock pulley (complete with bush and max. bore) including aligning and commissioning the system for single A groove pulley up to SPA 140 x I	no	135.00
388	To supply all labour, materials, transport and tools to replace/install taper lock pulley (complete with bush and max. bore) including aligning and commissioning the system for single A groove pulley up to SPA 180 x I	no	150.00
389	To supply all labour, materials, transport and tools to replace/install taper lock pulley (complete with bush and max. bore) including aligning and commissioning the system for single A groove pulley up to SPA 200 x I	no	160.00
390	To supply all labour, materials, transport and tools to replace/install taper lock pulley (complete with bush and max. bore) including aligning and coriumissioning the system for single B groove pulley up to SPB 132 x I	no	140.00
391	To supply all labour, materials, transport and tools to replace/install taper lock pulley (complete with bush and max. bore) including aligning and commissioning the system for single B groove pulley up to SPB 150 x I	no	150.00

S/No	Description	Unit	Unit Cost (\$)
392	To supply all labour, materials, transport and tools to replace/install taper lock pulley (complete with bush and max. bore) including aligning and commissioning the system for single B groove pulley up to SPB 170 x 1	no	170.00
393	To supply all labour, materials, transport and tools to replace/install taper lock pulley (complete with bush and max. bore) including aligning and commissioning the system for single B groove pulley up to SPB 190 x 1	no	190.00
394	To supply all labour, materials, transport and tools to replace/install taper lock pulley (complete with bush and max. bore) including aligning and commissioning the system for single B groove pulley up to SPB 224 x 1	no	210.00
395	To supply all labour, materials, transport and tools to replace/install taper lock pulley (complete with bush and max. bore) including aligning and commissioning the system for single B groove pulley up to SPB 250 x 1	no	230.00
396	To supply all labour, materials, transport and tools to replace/install taper lock pulley (complete with bush and max. bore) including aligning and commissioning the system for double B groove pulley up to SPB 140 x 2	no	180.00
397	To supply all labour, materials, transport and tools to replace/install taper lock pulley (complete with bush and max. bore) including aligning and commissioning the system for double B groove pulley up to SPB 160 x 2	no	190.00
398	To supply all labour, materials, transport and tools to replace/install taper lock pulley (complete with bush and max. bore) including aligning and commissioning the system for double B groove pulley up to SPB 180 x 2	no	210.00
399	To supply all labour, materials, transport and tools to replace/install taper lock pulley (complete with bush and max. bore) including aligning and commissioning the system for double B groove pulley up to SPB 200 x 2	no	220.00
400	To supply all labour, materials, transport and tools to replace/install taper lock pulley (complete with bush and max. bore) including aligning and commissioning the system for double B groove pulley up to SPB 224 x 2	no	240.00
401	To supply all labour, materials, transport and tools to replace/install taper lock pulley (complete with bush and max. bore) including aligning and commissioning the system for double B groove pulley up to SPB 250 x 2	no	250.00
402	To supply all labour, materials, transport and tools to replace/install taper lock pulley (complete with bush and max. bore) including aligning and commissioning the system for double B groove pulley up to SPB 300 x 2	no	270.00
403	To supply all labour, materials, transport and tools to replace/install taper lock pulley (complete with bush and max. bore) including aligning and commissioning the system for double B groove pulley up to SPB 355 x 2	no	330.00
404	To supply all labour, materials, transport and tools to replace/install taper lock pulley (complete with bush and max. bore) including aligning and commissioning the system for double B groove pulley	no	210.00



S/No	Description	Unit	Unit Cost (\$)
405	up to SPB 140 x 3 To supply all labour, materials, transport and tools to replace/install taper lock pulley (complete with bush and max. bore) including aligning and commissioning the system for triple B groove pulley up to SPB 200 x 3	no	260.00
406	To supply all labour, materials, transport and tools to replace/install taper lock pulley (complete with bush and max. bore) including aligning and commissioning the system for triple B groove pulley up to SPB 224 x 3	no	280.00
407	To supply all labour, materials, transport and tools to replace/install taper lock pulley (complete with bush and max. bore) including aligning and commissioning the system for triple B groove pulley up to SPB 250 x 3	no	310.00
408	To supply all labour, materials, transport and tools to replace/install taper lock pulley (complete with bush and max. bore) including aligning and commissioning the system for triple B groove pulley up to SPB 355 x 3	no	370.00
409	To supply all labour, materials, transport and tools to replace/install taper lock pulley (complete with bush and max. bore) including aligning and commissioning the system for triple B groove pulley up to SPB 400 x 3	no	470.00
410	To supply all labour, materials, transport and tools to replace/install taper lock pulley (complete with bush and max. bore) including aligning and commissioning the system for triple B groove pulley up to SPB 500 x 3	no	560.00
411	Supply and install Air Filter Holding aluminium frame for size of 12" x 12" x 2"	no	30.00
412	Supply and install Air Filter Holding aluminium frame for size of 12" x 24" x 2"	no	40.00
413	Supply and install Air Filter Holding aluminium frame for size of 20" x 24" x 2"	no	50.00
414	Supply and install Air Filter Holding aluminium frame for size of 24" x 24" x 2"	no	60.00
415	Supply and install Air Filter Holding aluminium frame for size of 12" x 12" x 3"	no	50.00
416	Supply and install Air Filter Holding aluminium frame for size of 12" x 24" x 3"	no	60.00
417	Supply and install Air Filter Holding aluminium frame for size of 20" x 24" x 3"	no	70.00
418	Supply and install Air Filter Holding aluminium frame for size of 24" x 24" x 3"	no	80.00
419	Supply and install Air Filter Holding aluminium frame for size of 12" x 12" x 4"	no	60.00
420	Supply and install Air Filter Holding aluminium frame for size of 12" x 24" x 4"	no	70.00
421	Supply and install Air Filter Holding aluminium frame for size of 20" x 24" x 4"	no	80.00
422	Supply and install Air Filter Holding aluminium frame for size of 24" x 24" x 4"	no	90.00
423	To supply and replace permanent washable air filter mats with 85% efficiency complete filter frame thickness up to 4mm, Total surface	no	10.00

S/No	Description	Unit	Unit Cost (\$)
424	area up to 0.2 sq m To supply and replace permanent washable air filter mats with 85% efficiency complete filter frame thickness up to 4mm, Total surface area up to 0.5 sq m	no	22.00
425	To supply and replace permanent washable air filter mats with 85% efficiency complete filter frame thickness up to 7mm, Total surface area up to 0.2 sq m	no	20.00
426	To supply and replace permanent washable air filter mats with 85% efficiency complete filter frame thickness up to 7mm, Total surface area up to 0.5 sq m	no	32.00
427	To supply and replace permanent washable air filter mats with 85% efficiency complete filter frame thickness up to 7mm, Total surface area up to 0.8 sq m	no	44.00
428	To supply and replace permanent washable air filter mats with 85% efficiency complete filter frame thickness up to 7mm, Total surface area up to 1 sq m	no	60.00
429	To supply and replace permanent washable air filter mats with 85% efficiency complete filter frame thickness up to 13mm, Total surface area up to 0.2 sq m	no	26.00
430	To supply and replace permanent washable air filter mats with 85% efficiency complete filter frame thickness up to 13mm, Total surface area up to 0.5 sq m	no	38.00
431	To supply and replace permanent washable air filter mats with 85% efficiency complete filter frame thickness up to 13mm, Total surface area up to 0.8 sq m	no	50.00
432	To supply and replace permanent washable air filter mats with 85% efficiency complete filter frame thickness up to 13mm, Total surface area up to 1 sq m	no	60.00
433	To supply and replace permanent washable air filter mats with 85% efficiency complete filter frame thickness up to 20mm, Total surface area up to 0.2 sq m	no	38.00
434	To supply and replace permanent washable air filter mats with 85% efficiency complete filter frame thickness up to 20mm, Total surface area up to 0.5 sq m	no	56.00
435	To supply and replace permanent washable air filter mats with 85% efficiency complete filter frame thickness up to 20mm, Total surface area up to 1 sq m	no	76.00
436	To supply and replace permanent washable air filter mats with 85% efficiency complete filter frame thickness up to 20mm, Total surface area up to 1 sq m	no	83.00
437	To supply and replace permanent washable air filter mats with 85% efficiency complete filter frame thickness up to 26mm, Total surface area up to 0.2 sq m	no	45.00
438	To supply and replace permanent washable air filter mats with 85% efficiency complete filter frame thickness up to 26mm, Total surface area up to 0.5 sq m	no	60.00
439	To supply and replace permanent washable air filter mats with 85% efficiency complete filter frame thickness up to 26mm, Total surface area up to 0.8 sq m	no	80.00
440	To supply and replace permanent washable air filter mats with 85% efficiency complete filter frame thickness up to 26mm, Total surface area up to 1 sq m	no	160.00

S/No	Description	Unit	Unit Cost (\$)
441	To supply and replace permanent washable air filter mats with 85% efficiency without filter frame thickness up to 4mm, Total surface area up to 0.2 sq m	no	8.00
442	To supply and replace permanent washable air filter mats with 85% efficiency without filter frame thickness up to 4mm, Total surface area up to 0.5 sq m	job	14.00
443	To supply and replace permanent washable air filter mats with 85% efficiency without filter frame thickness up to 7mm, Total surface area up to 0.2 sq m	job	12.00
444	To supply and replace permanent washable air filter mats with 85% efficiency without filter frame thickness up to 7mm, Total surface area up to 0.5 sq m	job	22.00
445	To supply and replace permanent washable air filter mats with 85% efficiency complete filter frame thickness up to 7mm, Total surface area up to 0.8 sq m	job	30.00
446	To supply and replace permanent washable air filter mats with 85% efficiency without filter frame thickness up to 7mm, Total surface area up to 1 sq m	no	46.00
447	To supply and replace permanent washable air filter mats with 85% efficiency without filter frame thickness up to 13mm, Total surface area up to 0.2 sq m	no	18.00
448	To supply and replace permanent washable air filter mats with 85% efficiency without filter frame thickness up to 13mm, Total surface area up to 0.5sq m	job	28.00
449	To supply and replace permanent washable air filter mats with 85% efficiency without filter frame thickness up to 13mm, Total surface area up to 0.8 sq m	job	38.00
450	To supply and replace permanent washable air filter mats with 85% efficiency without filter frame thickness up to 13mm, Total surface area up to 1sq m	job	48.00
451	To supply and replace permanent washable air filter mats with 85% efficiency without filter frame thickness up to 20mm, Total surface area up to 0.2 sq m	job	28.00
452	To supply and replace permanent washable air filter mats with 85% efficiency without filter frame thickness up to 20mm, Total surface area up to 0.5 sq m	job	43.00
453	To supply and replace permanent washable air filter mats with 85% efficiency without filter frame thickness up to 20mm, Total surface area up to 0.8 sq m	job	58.00
454	To supply and replace permanent washable air filter mats with 85% efficiency without filter frame thickness up to 20mm, Total surface area up to 1 sq m	job	73.00
455	To supply and replace permanent washable air filter mats with 85% efficiency without filter frame thickness up to 26mm, Total surface area up to 0.2 sq m	job	27.00
456	To supply and replace permanent washable air filter mats with 85% efficiency without filter frame thickness up to 26mm, Total surface area up to 0.5 sq m	job	43.00
457	To supply and replace permanent washable air filter mats with 85% efficiency without filter frame thickness up to 26mm, Total surface area up to 0.8 sq m	job	59.00

S/No	Description	Unit	Unit Cost (\$)
458	To supply and replace permanent washable air filter mats with 85% efficiency without filter frame thickness up to 26mm, Total surface area up to 1 sq m	no	75.00
459	To supply all labour, materials, transport and tools to replace AHUs/FCUs belting A belt for all sizes.	no	30.00
460	To supply all labour, materials, transport and tools to replace AHUs/FCUs belting B belt for all sizes.	no	40.00
461	To supply all labour, materials, transport and tools to replace AHUs/FCUs belting C belt for all sizes.	no	50.00
462	Supply and install AHU up to 3 refrigerant tonnes (RT)	no	3,790.00
463	Supply and install AHU up to 4 refrigerant tonnes (RT)	no	3,890.00
464	Supply and install AHU up to 5 refrigerant tonnes (RT)	no	4,000.00
465	Supply and install AHU up to 6 refrigerant tonnes (RT)	no	4,240.00
466	Supply and install AHU up to 7 refrigerant tonnes (RT)	no	4,500.00
467	Supply and install AHU up to 8 refrigerant tonnes (RT)	no	4,710.00
468	Supply and install AHU up to 9 refrigerant tonnes (RT)	no	5,000.00
469	Supply and install AHU up to 10 refrigerant tonnes (RT)	no	5,290.00
470	Supply and install AHU up to 11 refrigerant tonnes (RT)	no	5,630.00
471	Supply and install AHU up to 12 refrigerant tonnes (RT)	no	5,910.00
472	Supply and install AHU up to 13 refrigerant tonnes (RT)	no	6,240.00
473	Supply and install AHU up to 14 refrigerant tonnes (RT)	no	6,530.00
474	Supply and install AHU up to 15 refrigerant tonnes (RT)	no	6,860.00
475	Supply and install AHU up to 16 refrigerant tonnes (RT)	no	7,140.00
476	Supply and install AHU up to 17 refrigerant tonnes (RT)	no	7,480.00
477	Supply and install AHU up to 18 refrigerant tonnes (RT)	no	7,770.00
478	Supply and install AHU up to 19 refrigerant tonnes (RT)	no	8,110.00
479	Supply and install AHU up to 20 refrigerant tonnes (RT)	no	8,400.00
480	Supply and install AHU up to 21 refrigerant tonnes (RT)	no	8,740.00
481	Supply and install AHU up to 22 refrigerant tonnes (RT)	no	9,050.00
482	Supply and install AHU up to 23 refrigerant tonnes (RT)	no	9,360.00
483	Supply and install AHU up to 24 refrigerant tonnes (RT)	no	9,650.00
484	Supply and install AHU up to 25 refrigerant tonnes (RT)	no	9,990.00
485	Supply and install AHU up to 26 refrigerant tonnes (RT)	no	10,123.00
486	Supply and install AHU up to 27 refrigerant tonnes (RT)	no	10,310.00
487	Supply and install AHU up to 28 refrigerant tonnes (RT)	no	10,450.00
488	Supply and install AHU up to 29 refrigerant tonnes (RT)	no	10,640.00
489	Supply and install AHU up to 30 refrigerant tonnes (RT)	no	11,020.00
490	Supply and install AHU up to 31 refrigerant tonnes (RT)	no	11,460.00
491	Supply and install AHU up to 32 refrigerant tonnes (RT)	no	11,840.00
492	Supply and install AHU up to 33 refrigerant tonnes (RT)	no	12,000.00
493	Supply and install AHU up to 34 refrigerant tonnes (RT)	no	12,100.00
494	Supply and install AHU up to 35 refrigerant tonnes (RT)	no	12,260.00
495	Supply and install AHU up to 36 refrigerant tonnes (RT)	no	12,571.00
496	Supply and install AHU up to 37 refrigerant tonnes (RT)	no	12,940.00
497	Supply and install AHU up to 38 refrigerant tonnes (RT)	no	13,250.00
498	Supply and install AHU up to 39 refrigerant tonnes (RT)	no	13,620.00
499	Supply and install AHU up to 40 refrigerant tonnes (RT)	no	13,920.00
500	Supply and install AHU up to 41 refrigerant tonnes (RT)	no	14,100.00
501	Supply and install AHU up to 42 refrigerant tonnes (RT)	no	14,223.00
502	Supply and install AHU up to 43 refrigerant tonnes (RT)	no	14,390.00
503	Supply and install AHU up to 44 refrigerant tonnes (RT)	no	14,520.00

S/No	Description	Unit	Unit Cost (\$)
504	Supply and install AHU up to 45 refrigerant tonnes (RT)	no	14,690.00
505	Supply and install AHU up to 46 refrigerant tonnes (RT)	no	14,830.00
506	Supply and install AHU up to 47 refrigerant tonnes (RT)	no	15,000.00
507	Supply and install AHU up to 48 refrigerant tonnes (RT)	no	15,130.00
508	Supply and install AHU up to 49 refrigerant tonnes (RT)	no	15,370.00
509	Supply and install AHU up to 50 refrigerant tonnes (RT)	no	15,570.00
510	Supply and install AHU up to 51 refrigerant tonnes (RT)	no	15,820.00
511	Supply and install AHU up to 52 refrigerant tonnes (RT)	no	16,010.00
512	Supply and install AHU up to 53 refrigerant tonnes (RT)	no	16,260.00
513	Supply and install AHU up to 54 refrigerant tonnes (RT)	no	16,460.00
514	Supply and install AHU up to 55 refrigerant tonnes (RT)	no	16,700.00
515	Supply and install AHU up to 56 refrigerant tonnes (RT)	no	16,900.00
516	Supply and install AHU up to 57 refrigerant tonnes (RT)	no	17,150.00
517	Supply and install AHU up to 58 refrigerant tonnes (RT)	no	17,570.00
518	Supply and install AHU up to 59 refrigerant tonnes (RT)	no	19,030.00
519	Supply and install AHU up to 60 refrigerant tonnes (RT)	no	18,450.00
520	Supply and install AHU up to 61 refrigerant tonnes (RT)	no	18,790.00
521	Supply and install AHU up to 62 refrigerant tonnes (RT)	no	19,090.00
522	Supply and install AHU up to 63 refrigerant tonnes (RT)	no	19,430.00
523	Supply and install AHU up to 64 refrigerant tonnes (RT)	no	19,730.00
524	Supply and install AHU up to 65 refrigerant tonnes (RT)	no	20,070.00
525	Supply and install AHU up to 66 refrigerant tonnes (RT)6	no	20,370.00
526	Supply and install AHU up to 67 refrigerant tonnes (RT)	no	20,710.00
527	Supply and install AHU up to 68 refrigerant tonnes (RT)	no	21,010.00
528	Supply and install AHU up to 69 refrigerant tonnes (RT)	no	21,350.00
529	Supply and install AHU up to 70 refrigerant tonnes (RT)	no	22,060.00
530	Supply and install AHU up to 71 refrigerant tonnes (RT)	no	22,820.00
531	Supply and install AHU up to 72 refrigerant tonnes (RT)	no	23,530.00
532	Supply and install AHU up to 73 refrigerant tonnes (RT)	no	24,290.00
533	Supply and install AHU WITH MIXING CHAMBER UP TO 3 refrigerant tonnes (RT)	no	4,250.00
534	Supply and install AHU WITH MIXING CHAMBER UP TO 4 refrigerant tonnes (RT)	no	4,350.00
535	Supply and install AHU WITH MIXING CHAMBER UP TO 5 refrigerant tonnes (RT)	no	4,470.00
536	Supply and install AHU WITH MIXING CHAMBER UP TO 6 refrigerant tonnes (RT)	no	4,720.00
537	Supply and install AHU WITH MIXING CHAMBER UP TO 7 refrigerant tonnes (RT)	no	5,010.00
538	Supply and install AHU WITH MIXING CHAMBER UP TO 8 refrigerant tonnes (RT)	no	5,250.00
539	Supply and install AHU WITH MIXING CHAMBER UP TO 9 refrigerant tonnes (RT)	no	5,600.00
540	Supply and install AHU WITH MIXING CHAMBER UP TO 10 refrigerant tonnes (RT)	no	5,950.00
541	Supply and install AHU WITH MIXING CHAMBER UP TO 11 refrigerant tonnes (RT)	no	6,380.00
542	Supply and install AHU WITH MIXING CHAMBER UP TO 12 refrigerant tonnes (RT)	no	6,740.00
543	Supply and install AHU WITH MIXING CHAMBER UP TO 13 refrigerant tonnes (RT)	no	7,100.00

S/No	Description	Unit	Unit Cost (\$)
544	Supply and install AHU WITH MIXING CHAMBER UP TO 14 refrigerant tonnes (RT)	no	7,420.00
545	Supply and install AHU WITH MIXING CHAMBER UP TO 15 refrigerant tonnes (RT)	no	7,790.00
546	Supply and install AHU WITH MIXING CHAMBER UP TO 16 refrigerant tonnes (RT)	no	8,100.00
547	Supply and install AHU WITH MIXING CHAMBER UP TO 17 refrigerant tonnes (RT)	no	8,480.00
548	Supply and install AHU WITH MIXING CHAMBER UP TO 18 refrigerant tonnes (RT)	no	8,790.00
549	Supply and install AHU WITH MIXING CHAMBER UP TO 19 refrigerant tonnes (RT)	no	9,150.00
550	Supply and install AHU WITH MIXING CHAMBER UP TO 20 refrigerant tonnes (RT)	no	9,460.00
551	Supply and install AHU WITH MIXING CHAMBER UP TO 21 refrigerant tonnes (RT)	no	9,830.00
552	Supply and install AHU WITH MIXING CHAMBER UP TO 22 refrigerant tonnes (RT)	no	10,140.00
553	Supply and install AHU WITH MIXING CHAMBER UP TO 23 refrigerant tonnes (RT)	no	10,500.00
554	Supply and install AHU WITH MIXING CHAMBER UP TO 24 refrigerant tonnes (RT)	no	10,820.00
555	Supply and install AHU WITH MIXING CHAMBER UP TO 25 refrigerant tonnes (RT)	no	11,180.00
556	Supply and install AHU WITH MIXING CHAMBER UP TO 26 refrigerant tonnes (RT)	no	11,320.00
557	Supply and install AHU WITH MIXING CHAMBER UP TO 27 refrigerant tonnes (RT)	no	11,150.00
558	Supply and install AHU WITH MIXING CHAMBER UP TO 28 refrigerant tonnes (RT)	no	11,640.00
559	Supply and install AHU WITH MIXING CHAMBER UP TO 29 refrigerant tonnes (RT)	no	11,830.00
560	Supply and install AHU WITH MIXING CHAMBER UP TO 30 refrigerant tonnes (RT)	no	12,220.00
561	Supply and install AHU WITH MIXING CHAMBER UP TO 31 refrigerant tonnes (RT)	no	12,840.00
562	Supply and install AHU WITH MIXING CHAMBER UP TO 32 refrigerant tonnes (RT)	no	13,410.00
563	Supply and install AHU WITH MIXING CHAMBER UP TO 33 refrigerant tonnes (RT)	no	13,570.00
564	Supply and install AHU WITH MIXING CHAMBER UP TO 34 refrigerant tonnes (RT)	no	13,670.00
565	Supply and install AHU WITH MIXING CHAMBER UP TO 35 refrigerant tonnes (RT)	no	13,830.00
566	Supply and install AHU WITH MIXING CHAMBER UP TO 36 refrigerant tonnes (RT)	no	14,210.00
567	Supply and install AHU WITH MIXING CHAMBER UP TO 37 refrigerant tonnes (RT)	no	14,640.00
568	Supply and install AHU WITH MIXING CHAMBER UP TO 38 refrigerant tonnes (RT)	no	15,030.00
569	Supply and install AHU WITH MIXING CHAMBER UP TO 39	no	15,460.00

S/No	Description	Unit	Unit Cost (\$)
570	refrigerant tonnes (RT) Supply and install AHU WITH MIXING CHAMBER UP TO 40 refrigerant tonnes (RT)	no	15,850.00
571	Supply and install AHU WITH MIXING CHAMBER UP TO 41 refrigerant tonnes (RT)	no	16,050.00
572	Supply and install AHU WITH MIXING CHAMBER UP TO 42 refrigerant tonnes (RT)	no	16,210.00
573	Supply and install AHU WITH MIXING CHAMBER UP TO 43 refrigerant tonnes (RT)	no	16,420.00
574	Supply and install AHU WITH MIXING CHAMBER UP TO 44 refrigerant tonnes (RT)	no	16,580.00
575	Supply and install AHU WITH MIXING CHAMBER UP TO 45 refrigerant tonnes (RT)	no	16,790.00
576	Supply and install AHU WITH MIXING CHAMBER UP TO 46 refrigerant tonnes (RT)	no	16,970.00
577	Supply and install AHU WITH MIXING CHAMBER UP TO 47 refrigerant tonnes (RT)	no	17,180.00
578	Supply and install AHU WITH MIXING CHAMBER UP TO 48 refrigerant tonnes (RT)	no	17,340.00
579	Supply and install AHU WITH MIXING CHAMBER UP TO 49 refrigerant tonnes (RT)	no	17,600.00
580	Supply and install AHU WITH MIXING CHAMBER UP TO 50 refrigerant tonnes (RT)	no	17,820.00
581	Supply and install AHU WITH MIXING CHAMBER UP TO 51 refrigerant tonnes (RT)	no	18,080.00
582	Supply and install AHU WITH MIXING CHAMBER UP TO 52 refrigerant tonnes (RT)	no	18,300.00
583	Supply and install AHU WITH MIXING CHAMBER UP TO 53 refrigerant tonnes (RT)	no	18,570.00
584	Supply and install AHU WITH MIXING CHAMBER UP TO 54 refrigerant tonnes (RT)	no	18,780.00
585	Supply and install AHU WITH MIXING CHAMBER UP TO 55 refrigerant tonnes (RT)	no	19,050.00
586	Supply and install AHU WITH MIXING CHAMBER UP TO 56 refrigerant tonnes (RT)	no	19,260.00
587	Supply and install AHU WITH MIXING CHAMBER UP TO 57 refrigerant tonnes (RT)	no	19,460.00
588	Supply and install AHU WITH MIXING CHAMBER UP TO 58 refrigerant tonnes (RT)	no	20,030.00
589	Supply and install AHU WITH MIXING CHAMBER UP TO 59 refrigerant tonnes (RT)	no	20,570.00
590	Supply and install AHU WITH MIXING CHAMBER UP TO 60 refrigerant tonnes (RT)	no	21,070.00
591	Supply and install AHU WITH MIXING CHAMBER UP TO 61 refrigerant tonnes (RT)	no	21,450.00
592	Supply and install AHU WITH MIXING CHAMBER UP TO 62 refrigerant tonnes (RT)	no	21,780.00
593	Supply and install AHU WITH MIXING CHAMBER UP TO 63 refrigerant tonnes (RT)	no	22,160.00
594	Supply and install AHU WITH MIXING CHAMBER UP TO 64 refrigerant tonnes (RT)	no	22,490.00

S/No	Description	Unit	Unit Cost (\$)
595	Supply and install AHU WITH MIXING CHAMBER UP TO 65 refrigerant tonnes (RT)	no	22,870.00
596	Supply and install AHU WITH MIXING CHAMBER UP TO 66 refrigerant tonnes (RT)	no	23,200.00
597	Supply and install AHU WITH MIXING CHAMBER UP TO 67 refrigerant tonnes (RT)	no	23,580.00
598	Supply and install AHU WITH MIXING CHAMBER UP TO 68 refrigerant tonnes (RT)	no	23,910.00
599	Supply and install AHU WITH MIXING CHAMBER UP TO 69 refrigerant tonnes (RT)	no	24,300.00
600	Supply and install AHU WITH MIXING CHAMBER UP TO 70 refrigerant tonnes (RT)	no	25,150.00
601	Supply and install AHU WITH MIXING CHAMBER UP TO 71 refrigerant tonnes (RT)	no	26,040.00
602	Supply and install AHU WITH MIXING CHAMBER UP TO 72 refrigerant tonnes (RT)	no	26,890.00
603	Supply and install AHU WITH MIXING CHAMBER UP TO 73 refrigerant tonnes (RT)	no	27,790.00
604	To supply and install Exposed FCU 6580 to 7580 Btuh	no	800.00
605	To supply and install Exposed FCU 11400 to 12440 Btuh	no	890.00
606	To supply and install Exposed FCU 16990 to 17990 Btuh	no	1,030.00
607	To supply and install Exposed FCU 23000 to 24000 Btuh	no	1,420.00
608	To supply and install Exposed FCU 30500 to 31500 Btuh	no	1,700.00
609	To supply and install Exposed FCU 6580 to 7580 Btuh	no	640.00
610	To supply and install ducted concealed FCU 11400 to 12440 Btuh	no	755.00
611	To supply and install ducted concealed FCU 16990 to 17990 Btuh	no	810.00
612	To supply and install ducted concealed FCU 233000 to 24000 Btuh	no	1,160.00
613	To supply and install ducted concealed FCU 30500 to 31500 Btuh	no	1,460.00
614	To supply and install ducted concealed FCU 6580 to 7580 Btuh	no	690.00
615	To supply and install ducted concealed FCU 11400 to 12440 Btuh	no	780.00
616	To supply and install ducted concealed FCU 16990 to 17990 Btuh	no	980.00
617	To supply and install ducted concealed FCU 23000 to 24000 Btuh	no	1,260.00
618	To supply and install ducted concealed FCU 30500 to 31500 Btuh	no	1,670.00
619	To dismantle AHU or FCU up to 5 ton	no	230.00
620	To dismantle AHU or FCU up to 10 ton	no	270.00
621	To dismantle AHU or FCU up to 15 ton	no	320.00
622	To dismantle AHU or FCU up to 20 ton	no	370.00
623	To dismantle AHU or FCU up to 30 ton	no	420.00
624	To dismantle AHU or FCU up to 30 ton	no	510.00
625	To supply labour and materials for the servicing, checking and cleaning of cooling tower and greasing of all bearings for cooling tower up to 50 RT	no	60.00
626	To supply labour and materials for the servicing, checking and cleaning of cooling tower and greasing of all bearings for cooling tower up to 150 RT	no	80.00
627	To supply labour and materials for the servicing, checking and cleaning of cooling tower and greasing of all bearings for cooling tower up to 300 RT	no	90.00
628	To supply labour and materials for the servicing, checking and cleaning of cooling tower and greasing of all bearings for cooling tower up to 500 RT	no	105.00



S/No	Description	Unit	Unit Cost (\$)
629	To supply labour and materials for the servicing, checking and cleaning of cooling tower and greasing of all bearings for cooling tower up to 800 RT	no	115.00
630	To supply labour and materials for the servicing, checking and cleaning of cooling tower and greasing of all bearings for cooling tower up to 1000 RT and above	no	140.00
631	To supply and replace tower support stand up to 50 RT	set	385.00
632	To supply and replace tower support stand up to 100 RT	set	495.00
633	To supply and replace tower support stand up to 200 RT		748.00
634	To supply and replace tower support stand up to 300 RT		1,100.00
635	To supply and replace tower support stand up to 400 RT	set	1,540.00
636	To supply and replace tower support stand up to 500 RT	set	1,980.00
637	To supply and replace tower support stand up to 600 RT	set	2,100.00
638	To supply and replace tower support stand up to 700 RT	set	2,200.00
639	To supply and replace tower support stand up to 1000 RT and above	set	2,300.00
640	To supply and replace Air Inlet Mesh or Louvre up to 20 RT	set	200.00
641	To supply and replace Air Inlet Mesh or Louvre up to 40 RT	set	300.00
642	To supply and replace Air Inlet Mesh or Louvre up to 50 RT	set	385.00
643	To supply and replace Air Inlet Mesh or Louvre up to 80 RT	set	500.00
644	To supply and replace Air Inlet Mesh or Louvre up to 100 RT	set	550.00
645	To supply and replace Air Inlet Mesh or Louvre up to 200 RT	set	770.00
646	To supply and replace Air Inlet Mesh or Louvre up to 300 RT	set	935.00
647	To supply and replace Air Inlet Mesh or Louvre up to 400 RT	set	1,045.00
648	To supply and replace Air Inlet Mesh or Louvre up to 500 RT	set	1,440.00
649	To supply and replace Air Inlet Mesh or Louvre up to 600 RT	set	1,690.00
650	To supply and replace Air Inlet Mesh or Louvre up to 700 RT	set	1,940.00
651	To supply and replace Air Inlet Mesh or Louvre up to 800 RT and above	set	2,190.00
652	To supply and replace HONEYCOMB INFILL up to 20 RT	set	170.00
653	To supply and replace HONEYCOMB INFILL up to 40 RT	set	300.00
654	To supply and replace HONEYCOMB INFILL up to 50 RT	set	880.00
655	To supply and replace HONEYCOMB INFILL up to 100 RT	set	2,200.00
656	To supply and replace HONEYCOMB INFILL up to 200 RT	set	3,300.00
657	To supply and replace HONEYCOMB INFILL up to 300 RT	set	4,950.00
658	To supply and replace HONEYCOMB INFILL up to 400 RT	set	7,700.00
659	To supply and replace HONEYCOMB INFILL up to 500 RT	set	11,000.00
660	To supply and replace HONEYCOMB INFILL up to 600 RT	set	12,000.00
661	To supply and replace HONEYCOMB INFILL up to 700 RT	set	13,000.00
662	To supply and replace HONEYCOMB INFILL up to 1000 RT and above	set	14,000.00
663	To supply and replace sprinkler pipe without elimiN.A.tor up to 50 RT	No	275.00
664	To supply and replace sprinkler pipe without elimiN.A.tor up to 100 RT	No	385.00
665	To supply and replace sprinkler pipe without elimiN.A.tor up to 200 RT	No	495.00
666	To supply and replace sprinkler pipe without elimiN.A.tor up to 300 RT	No	550.00
667	To supply and replace sprinkler pipe without elimiN.A.tor up to 400 RT	No	660.00
668	To supply and replace sprinkler pipe without elimiN.A.tor up to 500 RT	No	825.00
669	To supply and replace sprinkler pipe without elimiN.A.tor up to 600 RT	No	907.00
670	To supply and replace sprinkler pipe without elimiN.A.tor up to 700 RT	No	998.00
671	To supply and replace sprinkler pipe without elimiN.A.tor up to 1000 RT and above	No	1,098.00
672	To supply and replace SPRINKLER HEAD up to 50 RT	No	220.00

S/No	Description	Unit	Unit Cost (\$)
673	To supply and replace SPRINKLER HEAD up to 100 RT	No	330.00
674	To supply and replace SPRINKLER HEAD up to 200 RT	No	440.00
675	To supply and replace SPRINKLER HEAD up to 300 RT	No	550.00
676	To supply and replace SPRINKLER HEAD up to 400 RT	No	660.00
677	To supply and replace SPRINKLER HEAD up to 500 RT	No	770.00
678	To supply and replace SPRINKLER HEAD up to 600 RT	No	890.00
679	To supply and replace SPRINKLER HEAD up to 700 RT	No	1,020.00
680	To supply and replace SPRINKLER HEAD up to 1000 RT	no	1,150.00
681	To supply and replace NYLON REINFORCE FAN BLADE up to 20 RT	no	250.00
682	To supply and replace NYLON REINFORCE FAN BLADE up to 50 RT	no	440.00
683	To supply and replace Dia Cast Reinforce Fan Blade up to 100 RT	no	880.00
684	To supply and replace Die Cast Aluminium Alloy fan Blade up to 200 RT	no	1,650.00
685	To supply and replace Die Cast Aluminium Alloy fan Blade up to 300 RT	no	2,750.00
686	To supply and replace Die Cast Aluminium Alloy fan Blade up to 400 RT	no	3,300.00
687	To supply and replace Die Cast Aluminium Alloy fan Blade up to 500 RT	no	4,730.00
688	To supply and replace Die Cast Aluminium Alloy fan Blade up to 600 RT	no	5,676.00
689	To supply and replace Die Cast Aluminium Alloy fan Blade up to 1000 RT	no	7,636.00
690	To supply and replace hot dipped galvanised netting fan guard up to 50 RT	no	440.00
691	To supply and replae hot dipped galvanised netting fan guard up to 100 RT	no	770.00
692	To supply and replae hot dipped galvanised netting fan guard up to 200 RT	no	1,100.00
693	To supply and replae hot dipped galvanised netting fan guard up to 300 RT	no	1,320.00
694	To supply and replae hot dipped galvanised netting fan guard up to 400 RT	no	1,650.00
695	To supply and replae hot dipped galvanised netting fan guard up to 500 RT	no	1,980.00
696	To supply and replae hot dipped galvanised netting fan guard up to 600 RT	no	2,400.00
697	To supply and replae hot dipped galvanised netting fan guard up to 700 RT	no	2,780.00
698	To supply and replae hot dipped galvanised netting fan guard up to 1000 RT and above	no	3,170.00
699	To supply and replace hot dipped galvanised steel motor support bracket up to 50 RT	no	330.00
700	To supply and replace hot dipped galvanised steel motor support bracket up to 100 RT	no	495.00
701	To supply and replace hot dipped galvanised steel motor support bracket up to 200 RT	no	660.00
702	To supply and replace hot dipped galvanised steel motor support bracket up to 300 RT	no	990.00

S/No	Description	Unit	Unit Cost (\$)
703	To supply and replace hot dipped galvanised steel motor support bracket up to 400 RT	no	1,320.00
704	To supply and replace hot dipped galvanised steel motor support bracket up to 500 RT	no	1,760.00
705	To supply and replace hot dipped galvanised steel motor support bracket up to 600 RT	no	2,112.00
706	To supply and replace hot dipped galvanised steel motor support bracket up to 700 RT	no	2,464.00
707	To supply and replace hot dipped galvanised steel motor support bracket up to 1000 RT and above	no	2,816.00
708	To supply and replace hot dipped galvanised steel ladder up to 50 RT	no	264.00
709	To supply and replace hot dipped galvanised steel ladder up to 100 RT	no	297.00
710	To supply and replace hot dipped galvanised steel ladder up to 200 RT	no	330.00
711	To supply and replace hot dipped galvanised steel ladder up to 300 RT	no	385.00
712	To supply and replace hot dipped galvanised steel ladder up to 400 RT	no	440.00
713	To supply and replace hot dipped galvanised steel ladder up to 500 RT	no	495.00
714	To supply and replace hot dipped galvanised steel ladder up to 1000 RT and above	no	550.00
715	To supply and replace hot dipped galvanised steel infill support complete set up to 50 RT	no	385.00
716	To supply and replace hot dipped galvanised steel infill support complete set up to 100 RT	no	550.00
717	To supply and replace hot dipped galvanised steel infill support complete set up to 200 RT	no	880.00
718	To supply and replace hot dipped galvanised steel infill support complete set up to 300 RT	no	1,100.00
719	To supply and replace hot dipped galvanised steel infill support complete set up to 400 RT	no	1,430.00
720	To supply and replace hot dipped galvanised steel infill support complete set up to 500 RT	no	1,760.00
721	To supply and replace hot dipped galvanised steel infill support complete set up to 100 RT and above	no	2,112.00
722	To supply and replace hot dipped galvanised steel casing or basin ring support up to 50 RT	no	605.00
723	To supply and replace hot dipped galvanised steel casing or basin ring support up to 100 RT	no	880.00
724	To supply and replace hot dipped galvanised steel casing or basin ring support up to 200 RT	no	1,100.00
725	To supply and replace hot dipped galvanised steel casing or basin ring support up to 300 RT	no	1,320.00
726	To supply and replace hot dipped galvanised steel casing or basin ring support up to 400 RT	no	1,760.00
727	To supply and replace hot dipped galvanised steel casing or basin ring support up to 500 RT	no	1,980.00
728	To supply and replace hot dipped galvanised steel casing or basin	no	2,200.00

S/No	Description	Unit	Unit Cost (\$)
729	ring support up to 600 RT To supply and replace hot dipped galvanised steel casing or basin ring support up to 700 RT	no	2,420.00
730	To supply and replace hot dipped galvanised steel casing or basin ring support up to 1000 RT and above	no	2,640.00
731	To supply and replace stainless steel water strainer up to 50 RT	no	110.00
732	To supply and replace stainless steel water strainer up to 100 RT	no	132.00
733	To supply and replace stainless steel water strainer up to 200 RT	no	154.00
734	To supply and replace stainless steel water strainer up to 300 RT	no	176.00
735	To supply and replace stainless steel water strainer up to 400 RT	no	198.00
736	To supply and replace stainless steel water strainer up to 500 RT	no	220.00
737	To supply and replace stainless steel water strainer up to 600 RT	no	242.00
738	To supply and replace stainless steel water strainer up to 700 RT	no	264.00
739	To supply and replace stainless steel water strainer up to 1000 RT and above	no	286.00
740	To supply and replace brass ball float valve with necessary pipe fittings (after the gate valve) up to 6.5mm dia	no	50.00
741	To supply and replace brass ball float valve with necessary pipe fittings (after the gate valve) up to 13mm dia	no	55.00
742	To supply and replace brass ball float valve with necessary pipe fittings (after the gate valve) up to 20mm dia	no	66.00
743	To supply and replace brass ball float valve with necessary pipe fittings (after the gate valve) up to 26mm dia	no	77.00
744	To supply and replace brass ball float valve with necessary pipe fittings (after the gate valve) up to 39 dia	no	85.00
745	To supply and replace brass ball float valve with necessary pipe fittings (after the gate valve) up to 100mm dia	no	90.00
746	To supply all materials, labour and transport for the replacement of aluminium alloy frame motor three phase 415V, 50Hz, rated RPM 1500 up to 4 kw	no	660.00
747	To supply all materials, labour and transport for the replacement of aluminium alloy frame motor three phase 415V, 50Hz, rated RPM 1500 up to 5.5kw	no	1,320.00
748	To supply all materials, labour and transport for the replacement of aluminium alloy frame motor three phase 415V, 50Hz, rated RPM 1500 up to 7.5kw	no	1,540.00
749	To supply all materials, labour and transport for the replacement of aluminium alloy frame motor three phase 415V, 50Hz, rated RPM 1500 up to 11kw	no	1,980.00
750	To supply all materials, labour and transport for the replacement of aluminium alloy frame motor three phase 415V, 50Hz, rated RPM 1500 up to 15kw	no	2,310.00
751	To supply all materials, labour and transport for the replacement of aluminium alloy frame motor three phase 415V, 50Hz, rated RPM 1500 up to 18.5kw	no	2,860.00
752	To supply all materials, labour and transport for the replacement of aluminium alloy frame motor three phase 415V, 50Hz, rated RPM 1500 up to 22kw	no	3,400.00
753	To supply all materials, labour and transport for the replacement of aluminium alloy frame motor three phase 415V, 50Hz, rated RPM 1500 up to 30kw	no	3,950.00

S/No	Description	Unit	Unit Cost (\$)
754	To supply all materials, labour and transport for the replacement of aluminium alloy frame motor three phase 415V, 50Hz, rated RPM 1500 up to 50kw	no	4,500.00
755	To supply all materials, labour and transport for the replacement of drift elimiN.A.tor up to 50 RT	no	88.00
756	To supply all materials, labour and transport for the replacement of drift elimiN.A.tor up to 100 RT	no	132.00
757	To supply all materials, labour and transport for the replacement of drift elimiN.A.tor up to 200 RT	no	220.00
758	To supply all materials, labour and transport for the replacement of drift elimiN.A.tor up to 300 RT	no	275.00
759	To supply all materials, labour and transport for the replacement of drift elimiN.A.tor up to 400 RT	no	330.00
760	To supply all materials, labour and transport for the replacement of drift elimiN.A.tor up to 500 RT	no	440.00
761	To supply all materials, labour and transport for the replacement of drift elimiN.A.tor up to 600 RT	no	550.00
762	To supply all materials, labour and transport for the replacement of drift elimiN.A.tor up to 700 RT	no	660.00
763	To supply all materials, labour and transport for the replacement of drift elimiN.A.tor up to 1000 RT and above	no	770.00
764	To overhaul the cooling tower motor and fan assembly include replacement of fan bearings and painting of rusty parts up to 200 RT	no	600.00
765	To overhaul the cooling tower motor and fan assembly include replacement of intermediate bearings and fan bearings and painting of rusty parts up to 300 RT	no	720.00
766	To overhaul the cooling tower motor and fan assembly include replacement of motor bearings, intermediate bearings and fan bearings and painting of rusty parts up to 400 RT	no	960.00
767	To overhaul the cooling tower motor and assembly include replacement of motor bearings, intermediate bearings and fan bearings and painting of rusty parts up to 500 RT	no	1,200.00
768	To overhaul the cooling tower motor and assembly include replacement of motor bearings, intermediate bearings and fan bearings and painting of rusty parts up to 600 RT	no	1,440.00
769	To overhaul the cooling tower motor and assembly include replacement of motor bearings, intermediate bearings and fan bearings and painting of rusty parts up to 700 RT	no	1,680.00
770	To overhaul the cooling tower motor and assembly include replacement of motor bearings, intermediate bearings and fan bearings and painting of rusty parts up to 1000 RT and above	no	1,920.00
771	To supply/transport/materials repair cooling tower basin leaking per leaking area of 0.5m <sup>2</sup>	no	250.00
772	To supply and replace belting including cooling tower fan drive including alignment, adjusting belt tension and commissioning for belt size A-59	no	15.00
773	To supply and replace belting including cooling tower fan drive including alignment, adjusting belt tension and commissioning for belt size B-60	no	16.00
774	To supply and replace belting including cooling tower fan drive	no	18.00

S/No	Description	Unit	Unit Cost (\$)
	including alignment, adjusting belt tension and commissioning for belt size B-115		
775	To supply and replace belting including cooling tower fan drive including alignment, adjusting belt tension and commissioning for belt size B-104	no	18.00
776	To supply and replace belting including cooling tower fan drive including alignment, adjusting belt tension and commissioning for belt size B-105	no	18.00
777	To supply and replace belting including cooling tower fan drive including alignment, adjusting belt tension and commissioning for belt size B-130	no	20.00
778	To supply and replace belting including cooling tower fan drive including alignment, adjusting belt tension and commissioning for belt size B-120	no	20.00
779	To supply and replace belting including cooling tower fan drive including alignment, adjusting belt tension and commissioning for belt size B-125	no	20.00
780	To supply and replace belting including cooling tower fan drive including alignment, adjusting belt tension and commissioning for belt size 11M-800	no	40.00
781	To supply and replace belting including cooling tower fan drive including alignment, adjusting belt tension and commissioning for belt size 11M-1400	no	45.00
782	To supply and replace belting including cooling tower fan drive including alignment, adjusting belt tension and commissioning for belt size 11M-1550	no	50.00
783	To supply and replace belting including cooling tower fan drive including alignment, adjusting belt tension and commissioning for belt size B-141	no	20.00
784	To supply and replace belting including cooling tower fan drive including alignment, adjusting belt tension and commissioning for size B-92	no	15.00
785	To supply and replace belting including cooling tower fan drive including alignment, adjusting belt tension and commissioning for size A55 or other A size	no	15.00
786	To supply and replace belting including cooling tower fan drive including alignment, adjusting belt tension and commissioning for size B149 or SPB5000	no	60.00
787	Servicing all strainers 1/2" to 2"	no	20.00
788	Servicing all strainers 2.1" to 4"	no	40.00
789	Servicing all strainers 4.1" to 6"	no	60.00
790	Servicing all strainers 6.1" to 12"	no	80.00
791	Servicing all strainers 12.1 to 20"	no	100.00
792	To overhaul the water pump up to 5.6kw (motor kw)	no	270.00
793	To overhaul the water pump up to 11.2kw (motor kw)	no	300.00
794	To overhaul the water pump up to 30kw (motor kw)	no	350.00
795	To overhaul the water pump up to 37.5kw (motor kw)	no	450.00
796	To overhaul the water pump up to 45kw (motor kw)	no	580.00
797	To overhaul the water pump up to 60kw (motor kw)	no	700.00
798	To overhaul the water pump up to 75 kw (motor kw)	no	830.00
799	To overhaul the water pump up to 90kw (motor kw)	no	1,000.00

S/No	Description	Unit	Unit Cost (\$)
800	Supply and replace of water pump housing, mechanical seal, bearings up to 91kw (motor size)	no	3,900.00
801	Supply labour/tools/transport to check overhaul the water pump 91kw and above	no	1,200.00
802	To supply all materials, labour and transport for the replacement of water pump metal/stainless steel strainer up to 51mm dia	no	80.00
803	To supply all materials, labour and transport for the replacement of water pump metal/stainless steel strainer up to 101mm dia	no	100.00
804	To supply all materials, labour and transport for the replacement of water pump metal/stainless steel strainer up to 151mm dia	no	150.00
805	To supply all materials, labour and transport for the replacement of water pump metal/stainless steel strainer up to 201mm dia	no	200.00
806	To supply all materials, labour and transport for the replacement of water pump metal/stainless steel strainer up to 251mm dia	no	250.00
807	To supply all materials, labour and transport for the replacement of water pump metal/stainless steel strainer with support bracket up to 251mm dia	no	450.00
808	To supply all materials, labour and transport for the replacement of water pump metal/stainless steel strainer CAP up to 51mm dia	no	50.00
809	To supply all materials, labour and transport for the replacement of water pump metal/stainless steel strainer CAP up to 101mm dia	no	75.00
810	To supply all materials, labour and transport for the replacement of water pump metal/stainless steel strainer CAP up to 151mm dia	no	100.00
811	To supply all materials, labour and transport for the replacement of water pump metal/stainless steel strainer CAP up to 201mm dia	no	150.00
812	To supply all materials, labour and transport for the replacement of water pump metal/stainless steel strainer cap up to 251mm dia	no	200.00
813	To supply all materials, labour and transport for the replacement of mechanical seal complete set for shaft diameter up to 20mm	no	180.00
814	To supply all materials, labour and transport for the replacement of mechanical seal complete set for shaft diameter up to 24mm	no	200.00
815	To supply all materials, labour and transport for the replacement of mechanical seal complete set for shaft diameter up to 28mm	no	230.00
816	To supply all materials, labour and transport for the replacement of mechanical seal complete set for shaft diameter up to 30mm	no	250.00
817	To supply all materials, labour transport for the replacement of mechanical seal complete set for shaft diameter up to 35mm	no	290.00
818	To supply all materials, labour transport for the replacement of mechanical seal complete set for shaft diameter up to 40mm	no	350.00
819	To supply all materials, labour and transport for the replacement of mechanical seal complete set for shaft diameter up to 50mm	no	500.00
820	To supply all materials, labour and transport for the replacement of mechanical seal complete set for shaft diameter up to 75mm	no	750.00
821	To supply all materials, labour.transport for the replacement of gland packing.	no	60.00
822	To supply all materials, labour, transport for the installation/ replacement of water pump polyurethane foam insulation complete with galvanised jacketing and painting.	no	380.00
823	To supply and replace water pump duty change over relay 8 pins c/w socket 230v	no	120.00
824	To supply all materials, labour and transport for the machining of	no	40.00

S/No	Description	Unit	Unit Cost (\$)
825	shaft sleeve (all sizes) To supply all materials, labour and transport for the machining of gland plate (all sizes)	no	60.00
826	Supply labour/tools/transport to check and service of solar water heater system	no	3.00
827	Supply labour/tools/transport to check and service of domestic water pump system up to 7.5H.P. motor	no	10.00
828	Supply labour/tools,/transport to check and service of foundation water pump system	no	7.50
829	Supply all materials, labour and transport for the rewinding and replacing of bearings/bushings of single phase, 230V, 4-poles or 6-poles squirrel cage motor with Class F insulation including removing, dismantling, servicing reinstallation and re-commissioning up to 0.2kw (1/4 H. P)	no	170.00
830	Supply all materials, labour and transport for the rewinding and replacing of bearings/bushings of single phase, 230V, 4-poles or 6-poles squirrel cage motor with Class F insulation including removing, dismantling, servicing reinstallation and re-commissioning up to 0.37kw (1/2 H. P)	no	200.00
831	Supply all materials, labour and transport for the rewinding and replacing of bearings/bushings of single phase, 230V, 4-poles or 6-poles squirrel cage motor with Class F insulation including removing, dismantling, servicing reinstallation and re-commissioning up to 0.55kw (3/4 H. P)	no	220.00
832	Supply all materials, labour and transport for the rewinding and replacing of bearings/bushings of single phase, 230V, 4-poles or 6-poles squirrel cage motor with Class F insulation including removing, dismantling, servicing reinstallation and re-commissioning up to 0.75kw (1 H. P)	no	240.00
833	Supply all materials, labour and transport for the rewinding and replacing of bearings/bushings of single phase, 230V, 4-poles or 6-poles squirrel cage motor with Class F insulation including removing, dismantling, servicing reinstallation and re-commissioning up to 1.2kw (1 1/2 H. P)	no	250.00
834	Supply all materials, labour and transport for the rewinding and replacing of bearings/bushings of single phase, 230V, 4-poles or 6-poles squirrel cage motor with Class F insulation including removing, dismantling, servicing reinstallation and re-commissioning up to 1.5kw (2 H. P)	no	260.00
835	Supply all materials, labour and transport for the rewinding and replacing of bearings/bushings of single phase, 230V, 4-poles or 6-poles squirrel cage motor with Class F insulation including removing, dismantling, servicing reinstallation and re-commissioning up to 3kw (4 H. P)	no	320.00
836	Supply all materials, labour and transport for the rewinding and replacing of bearings/bushings of three (3) phase, 415V, 4-poles or 6-poles squirrel cage motor with Class F insulation including removing, dismantling, servicing reinstallation and re-commissioning up to 0.75kw (1 H. P)	no	200.00
837	Supply all materials, labour and transport for the rewinding and replacing of bearings/bushings of three (3) phase, 415V, 4-poles or	no	240.00



S/No	Description	Unit	Unit Cost (\$)
838	6-poles squirrel cage motor with Class F insulation including removing, dismantling, servicing reinstallation and re-commissioning up to 1.5kw (2 H. P) Supply all materials, labour and transport for the rewinding and replacing of bearings/bushings of three (3) phase, 415V, 4-poles or 6-poles squirrel cage motor with Class F insulation including removing, dismantling, servicing reinstallation and re-commissioning up to 3.0kw	no	280.00
839	Supply all materials, labour and transport for the rewinding and replacing of bearings/bushings of three (3) phase, 415V, 4-poles or 6-poles squirrel cage motor with Class F insulation including removing, dismantling, servicing reinstallation and re-commissioning up to 3.75kw	no	320.00
840	Supply all materials, labour and transport for the rewinding and replacing of bearings/bushings of three (3) phase, 415V, 4-poles or 6-poles squirrel cage motor with Class F insulation including removing, dismantling, servicing reinstallation and re-commissioning up to 5.6kw	no	380.00
841	Supply all materials, labour and transport for the rewinding and replacing of bearings/bushings of three (3) phase, 415V, 4-poles or 6-poles squirrel cage motor with Class F insulation including removing, dismantling, servicing reinstallation and re-commissioning up to 7.5kw	no	400.00
842	Supply all materials, labour and transport for the rewinding and replacing of bearings/bushings of three (3) phase, 415V, 4-poles or 6-poles squirrel cage motor with Class F insulation including removing, dismantling, servicing reinstallation and re-commissioning up to 11.2kw	no	600.00
843	Supply all materials, labour and transport for the rewinding and replacing of bearings/bushings of three (3) phase, 415V, 4-poles or 6-poles squirrel cage motor with Class F insulation including removing, dismantling, servicing reinstallation and re-commissioning up to 15kw	no	750.00
844	Supply all materials, labour and transport for the rewinding and replacing of bearings/bushings of three (3) phase, 415V, 4-poles or 6-poles squirrel cage motor with Class F insulation including removing, dismantling, servicing reinstallation and re-commissioning up to 18.7kw	no	850.00
845	Supply all materials, labour and transport for the rewinding and replacing of bearings/bushings of three (3) phase, 415V, 4-poles or 6-poles squirrel cage motor with Class F insulation including removing, dismantling, servicing reinstallation and re-commissioning up to 22.5.7kw	no	1,000.00
846	Supply all materials, labour and transport for the rewinding and replacing of bearings/bushings of three (3) phase, 415V, 4-poles or 6-poles squirrel cage motor with Class F insulation including removing, dismantling, servicing reinstallation and re-commissioning up to 26.2kw	no	1,300.00
847	Supply all materials, labour and transport for the rewinding and replacing of bearings/bushings of three (3) phase, 415V, 4-poles or 6-poles squirrel cage motor with Class F insulation including	no	1,400.00

S/No	Description	Unit	Unit Cost (\$)
848	removing, dismantling, servicing reinstallation and re-commissioning up to 30kw Supply all materials, labour and transport for the rewinding and replacing of bearings/bushings of three (3) phase, 415V, 4-poles or 6-poles squirrel cage motor with Class F insulation including removing, dismantling, servicing reinstallation and re-commissioning up to 45kw	no	1,600.00
849	Supply all materials, labour and transport for the rewinding and replacing of bearings/bushings of three (3) phase, 415V, 4-poles or 6-poles squirrel cage motor with Class F insulation including removing, dismantling, servicing reinstallation and re-commissioning up to 60kw	no	1,800.00
850	Supply all materials, labour and transport for the rewinding and replacing of bearings/bushings of three (3) phase, 415V, 4-poles or 6-poles squirrel cage motor with Class F insulation including removing, dismantling, servicing reinstallation and re-commissioning up to 75kw	no	2,000.00
851	Supply all materials, labour and transport for the rewinding and replacing of bearings/bushings of three (3) phase, 415V, 4-poles or 6-poles squirrel cage motor with Class F insulation including removing, dismantling, servicing reinstallation and re-commissioning up to 90kw and above	no	2,250.00
852	To supply all materials, labour and transport for the rewinding and replacing of bearings/bushings of three (3) phase, 415 volts motor-rotor and replacement of bearings and bushings including removing, dismantling servicing, reinstallation and re-commissioning up to 11.2kw	no	630.00
853	To supply all materials, labour and transport for the rewinding and replacing of bearings/bushings of three (3) phase, 415 volts motor-rotor and replacement of bearings and bushings including removing, dismantling servicing, reinstallation and re-commissioning up to 15kw	no	770.00
854	Supply all materials, labour and transport for the rewinding and replacing of bearings/bushings of three (3) phase, 415V volts motor rotor and replacement of bearings and bushings including removing, dismantling, servicing reinstallation and re-commissioning up to 18.7kw	no	850.00
855	To supply all materials, labour and transport for the rewinding of three (3) phase , 415 volts motor rotor and replacement of bearings and bushings including removing, dismantling servicing, reinstallation and re-commissioning up to 22.5kw	no	950.00
856	To supply all materials, labour and transport for the rewinding of three (3) phase , 415 volts motor rotor and replacement of bearings and bushings including removing, dismantling servicing, reinstallation and re-commissioning up to 26.2kw	no	1,050.00
857	To supply all materials, labour and transport for the rewinding of three (3) phase , 415 volts motor rotor and replacement of bearings and bushings including removing, dismantling servicing, reinstallation and re-commissioning up to 30kw	no	1,200.00
858	To supply all materials, labour and transport for the rewinding of three (3) phase , 415 volts motor rotor and replacement of bearings	no	1,350.00

S/No	Description	Unit	Unit Cost (\$)
859	and bushings including removing, dismantling servicing, reinstallation and re-commissioning up to 45kw To supply all materials, labour and transport for the rewinding of three (3) phase , 415 volts motor rotor and replacement of bearings and bushings including removing, dismantling servicing, reinstallation and re-commissioning up to 60kw	no	1,700.00
860	To supply all materials, labour and transport for the rewinding of three (3) phase , 415 volts motor rotor and replacement of bearings and bushings including removing, dismantling servicing, reinstallation and re-commissioning up to 75kw	no	2,500.00
861	To supply all materials, labour and transport for the rewinding of three (3) phase , 415 volts motor rotor and replacement of bearings and bushings including removing, dismantling servicing, reinstallation and re-commissioning up to 90kw	no	3,200.00
862	To supply all materials, labour and transport for the rewinding of three (3) phase , 415 volts motor rotor and replacement of bearings and bushings including removing, dismantling servicing, reinstallation and re-commissioning up from to 91kw and above	no	4,500.00
863	To supply all materials, labour and transport for the replacement of the bearings/bushings only including removing, dismantling, servicing reinstallation and re-commissioning for single Phase 230v motor up to 0.75kw	no	120.00
864	To supply all materials, labour and transport for the replacement of the bearings/bushings only including removing, dismantling, servicing reinstallation and re-commissioning for single Phase 230v motor up to 1.5kw	no	130.00
865	To supply all materials, labour and transport for the replacement of the bearings/bushings only including removing, dismantling, servicing reinstallation and re-commissioning for single Phase 230v motor up to 2.25kw	no	155.00
866	To supply all materials, labour and transport for the replacement of the bearings/bushings only including removing, dismantling, servicing reinstallation and re-commissioning for three Phase 415 v, motor up to 3.75kw	no	140.00
867	To supply all materials, labour and transport for the replacement of the bearings/bushings only including removing, dismantling, servicing reinstallation and re-commissioning for three Phase 415v motor up to 5.5kw	no	160.00
868	To supply all materials, labour and transport for the replacement of the bearings/bushings only including removing, dismantling, servicing reinstallation and re-commissioning for three Phase 415v motor up to 7.5kw	no	180.00
869	To supply all materials, labour and transport for the replacement of the bearings/bushings only including removing, dismantling, servicing reinstallation and re-commissioning for three Phase 415v motor up to 11.2kw	no	205.00
870	To supply all materials, labour and transport for the replacement of the bearings/bushings only including removing, dismantling, servicing reinstallation and re-commissioning for three Phase 415v motor up to 15kw	no	230.00
871	To supply all materials, labour and transport for the replacement of	no	285.00

S/No	Description	Unit	Unit Cost (\$)
872	the bearings/bushings only including removing, dismantling, servicing reinstallation and re-commissioning for three Phase 415v motor up to 18.7kw To supply all materials, labour and transport for the replacement of the bearings/bushings only including removing, dismantling, servicing reinstallation and re-commissioning for three Phase 415v motor up to 22.5kw	no	320.00
873	To supply all materials, labour and transport for the replacement of the bearings/bushings only including removing, dismantling, servicing reinstallation and re-commissioning for three Phase 415v motor up to 26.2kw	no	350.00
874	To supply all materials, labour and transport for the replacement of the bearings/bushings only including removing, dismantling, servicing reinstallation and re-commissioning for three Phase 415v motor up to 30kw	no	400.00
875	To supply all materials, labour and transport for the replacement of the bearings/bushings only including removing, dismantling, servicing reinstallation and re-commissioning for three Phase 415v motor up to 45kw	no	430.00
876	To supply all materials, labour and transport for the replacement of the bearings/bushings only including removing, dismantling, servicing reinstallation and re-commissioning for three Phase 415v motor up to 60kw	no	500.00
877	To supply all materials, labour and transport for the replacement of the bearings/bushings only including removing, dismantling, servicing reinstallation and re-commissioning for three Phase 415v motor up to 75kw	no	650.00
878	To supply all materials, labour and transport for the replacement of the bearings/bushings only including removing, dismantling, servicing reinstallation and re-commissioning for three Phase 415v motor up to 90kw	no	800.00
879	To supply all materials, labour and transport for the replacement of the bearings/bushings only including removing, dismantling, servicing reinstallation and re-commissioning for three Phase 415v motor up to 91kw and above	no	950.00
880	To supply all materials, labour and transport for the replacement of the couplings/bushings only including the removing, dismantling, servicing reinstallation using dial gauges and re-commissioning for single phase 230V motor of all sizes	no	60.00
881	To supply all materials, labour and transport for the replacement of couplings/bushings only including the removing, dismantling, servicing reinstallation using dial gauges and re-commissioning for three phase 415v motor of shaft size up to 51mm dia	no	400.00
882	To supply all materials, labour and transport for the replacement of couplings/bushings only including the removing, dismantling, servicing reinstallation using dial gauges and re-commissioning for three phase 415v motor of shaft size up to 101mm dia	no	500.00
883	To supply all materials, labour and transport for the replacement of couplings/bushings only including the removing, dismantling, servicing reinstallation using dial gauges and re-commissioning for three phase 415v motor of shaft size up to 126mm dia	no	600.00

S/No	Description	Unit	Unit Cost (\$)
884	To supply all materials, labour and transport for the replacement of motors including installation and commissioning single phase 230v, 4 poles/6poles, 50 Hz, up to 0.25 kw	no	240.00
885	To supply all materials, labour and transport for the replacement of motors including installation and re-commissioning single phase 230v, 4 poles/6poles, 50 Hz, up to 0.37 kw	no	300.00
886	To supply all materials, labour and transport for the replacement of motors including installation and commissioning single phase 230v, 4 poles/6poles, 50 Hz, up to 0.56 kw	no	340.00
887	To supply all materials, labour and transport for the replacement of motors including installation and commissioning single phase 230v, 4 poles/6poles, 50 Hz, up to 0.75 kw	no	390.00
888	To supply all materials, labour and transport for the replacement of motors including installation and commissioning single phase 230v, 4 poles/6poles, 50 Hz, up to 1.2 kw	no	430.00
889	To supply all materials, labour and transport for the replacement of motors including installation and commissioning single phase 230v, 4 poles/6poles, 50 Hz, up to 1.5 kw	no	420.00
890	To supply all materials, labour and transport for the replacement of motors including installation and commissioning single phase 230v, 4 poles/6poles, 50 Hz, up to 2.25 kw	no	450.00
891	To supply all materials, labour and transport for the replacement of motors including installation and commissioning three phase 415v, 50Hz, 4 poles or 6 poles, up to 0.75 kw	no	260.00
892	To supply all materials, labour and transport for the replacement of motors including installation and commissioning three phase 415v, 50Hz, 4 poles or 6 poles, up to 1.5 kw	no	320.00
893	To supply all materials, labour and transport for the replacement of motors including installation and commissioning three phase 415v, 50Hz, 4 poles or 6poles, up to 2.25 kw	no	420.00
894	To supply all materials, labour and transport for replacement of motors including installation and commissioning three phase 415v, 50Hz, 4 poles or 6poles, up to 3.75kw	no	500.00
895	To supply all materials, labour and transport for replacement of motors including installation and -commissioning three phase 415v, 50Hz, 4 poles or 6poles, up to 5.6kw	no	600.00
896	To supply all materials, labour and transport for replacement of motors including installation and -commissioning three phase 415v, 50Hz, 4 poles or 6poles, up to 7.5kw	no	720.00
897	To supply all materials, labour and transport for replacement of motors including installation and commissioning three phase 415v, 50Hz, 4 poles or 6poles, up to 11.2kw	no	900.00
898	To supply all materials, labour and transport for replacement of motors including installation and commissioning three phase 415v, 50Hz, 4 poles or 6poles, up to 15kw	no	1,200.00
899	To supply all materials, labour and transport for replacement of motors including installation and commissioning three phase 415v, 50Hz, 4 poles or 6poles, up to 18.7kw	no	1,500.00
900	To supply all materials, labour and transport for replacement of motors including installation and commissioning three phase 415v, 50Hz, 4 poles or 6poles, up to 22.5kw	no	1,800.00

S/No	Description	Unit	Unit Cost (\$)
901	To supply all materials, labour and transport for replacement of motors including installation and commissioning three phase 415v, 50Hz, 4 poles or 6poles, up to 30kw	no	2,200.00
902	To supply all materials, labour and transport for replacement of motors including installation and commissioning three phase 415v, 50Hz, 4 poles or 6poles, up to 37.5kw	no	3,200.00
903	To supply all materials, labour and transport for replacement of motors including installation and commissioning three phase 415v, 50Hz, 4 poles or 6poles, up to 45kw	no	4,200.00
904	To supply all materials, labour and transport for replacement of motors including installation and commissioning three phase 415v, 50Hz, 4 poles or 6poles, up to 52.5kw	no	5,400.00
905	To supply all materials, labour and transport for replacement of motors including installation and commissioning three phase 415v, 50Hz, 4 poles or 6poles, up to 75kw	no	6,500.00
906	To supply all materials, labour and transport for replacement of motors including installation and commissioning three phase 415v, 50Hz, 4 poles or 6poles, up to 90kw	no	7,200.00
908	motors including installation and commissioning three phase 415v, 50Hz, 4 poles or 6 poles, up to 91kw and above To supply all materials, labour and transport for replacement of Direct-On-Line Starters, hand reset, with 2 or more auxilliary contacts with line and phasing protection over-load relay, suitable for AC 500V; 3 phase 50 Hz conform to BS 587 and or IEC PUB 152-1, 292-2-1 up to 3.75 kw (5 hp) (range 0.3-9 amp opeating coil vols 230v or 24v)	no	100.00
909	To supply all materials, labour and transport for replacement of Star-Delta-Starters, hand reset, with 2 or more auxilliary contacts and single phasing protection over-load relay, suitable for AC 500V; 3 phase 50 Hz conform to BS 587 and or IEC PUB 151-1, 292-1 up to 7.5 kw (10hp) full (ranges 2.5 amp, 4.5 - 9.0 amp, 6.0-12 amp, 12-16amps, operating coil volts 230v or 24v	no	300.00
910	To supply all materials, labour and transport for replacement of Star-Delta-Starters, hand reset, with 2 or more auxilliary contacts and single phasing protection over-load relay, suitable for AC 500V; 3 phase 50 Hz conform to BS 587 and or IEC PUB 151-1, 292-1 up to 11.0 (15hp) full (ranges 16-24 amp operating coil volts 230v or 24v	no	350.00
911	To supply all materials, labour and transport for replacement of Star-Delta-Starters, hand reset, with 2 or more auxilliary contacts and single phasing protection over-load relay, suitable for AC 500V; 3 phase 50 Hz conform to BS 587 and or IEC PUB 151-1, 292-1 up to 15kw (20hp) (ranges 24-34 amps, operating coil volts 230v or 24v	no	500.00
912	To supply all materials, labour and transport for replacement of Star-Delta-Starters, hand reset, with 2 or more auxilliary contacts and single phasing protection over-load relay, suitable for AC 500V; 3 phase 50 Hz conform to BS 587 and or IEC PUB 151-1, 292-1 up to 22kw (30hp) (ranges 32-48 amps, operating coil volts 240v volts or 24 volts	no	600.00
913	To supply all materials, labour and transport for replacement of Star-Delta-Starters, hand reset, with 2 or more auxilliary contacts and single phasing protection over-load relay, suitable for AC 500V; 3	no	750.00

S/No	Description	Unit	Unit Cost (\$)
	phase 50 Hz conform to BS 587 and or IEC PUB 151-1, 292-1 up to 30kw (40hp) full load ranges 32-48 amps, 45-65 amps operating coil volts 240v volts or 24 volts		
	transformer up to 7.5kw (10hp) 1 tapping		
915	To supply all materials, labour and transport for replacement of auto-transformer up to 7.5kw (15hp) 1 tapping	no	230.00
916	To supply all materials, labour and transport for the replacement of auto-transformer up to 11kw (15hp) 4 tapping (40% to 75%)	no	300.00
917	To supply all materials, labour and transport for the replacement of auto-transformer up to 11kw (15 hp) 4 tapping (40% to 75%)	no	330.00
918	To supply all materials, labour and transport for the replacement of auto-transformer up to 11kw (15 hp) 4 tapping (40% to 75%)	no	330.00
919	To supply all materials, labour and transport for the replacement of auto-transformer up to 30kw (40 hp) 4 tapping (40%, 50%, 60% & 75%)	no	410.00
920	To supply all materials, labour and transport for the replacement of auto-transformer up to 37.5kw (50 hp) 4 tapping (40% , 50%, 60% & 75%)	no	460.00
921	To supply all materials, labour and transport for the replacement of auto-transformer up to 45kw (60 hp) 4 tapping (40% , 50%, 60% & 75%)	no	540.00
922	To supply all materials, labour and transport for the replacement of auto-transformer up to 55kw (75 hp) 4 tapping (40% , 50%, 60% & 75%)	no	640.00
923	To supply and replace magnetic contactor coil voltage AC 240V or 24V up to 3.75kw 9 amp(5 H.P)	no	90.00
924	To supply and replace magnetic contactor coil voltage AC 240V or 24V up to 9.0kw (12 HP)	no	100.00
925	To supply and replace magnetic contactor coil voltage AC 240V or 24V up to 12.5kw (16.7 H.P)	no	120.00
926	To supply and replace magnetic contactor coil voltage AC 240V or 24V up to 17.0 kw (22.7 H.P)	no	160.00
927	To supply and replace magnetic contactor coil voltage AC 240V or 24V up to 21.0 kw (28 H.P)	no	190.00
928	To supply and replace magnetic contactor coil voltage AC 240V or 24V up to 25.50 kw (34 H.P)	no	230.00
929	To supply and replace magnetic contactor coil voltage AC 240V or 24V up to 52.0 kw (70 H.P)	no	320.00
930	To supply and replace magnetic contactor coil voltage AC 240V or 24V up to 75.0 kw (100 H.P)	no	520.00
931	To supply and replace step-down transformer ( 240V to 24v) up to 50 VA	no	100.00
932	To supply and replace control relay c/w socket 8 to 12 pins, coil voltage 230Vstep-down transformer ( 240V to 24V) up to 50 VA	no	60.00
933	To supply and replace control relay c/w socket 8 to 12 pins, coil voltage 110V	no	60.00
934	To supply and replace control relay c/w socket 8 to 12 pins, coil voltage 24V	no	60.00
935	To supply and replace time delay replay c/w socket 8 to 12 pins, coil voltage 230V Delay time : 1-30 sec	no	90.00
936	To supply and replace time delay replay c/w socket 8 to 12 pins,	no	90.00

S/No	Description	Unit	Unit Cost (\$)
937	coil voltage 110V. Delay time : 1-30 sec To supply and replace time delay relay c/w socket 8 to 12 pins, coil voltage 24V. Delay time : 1-30 sec	no	90.00
938	To supply and replace run capacitor up to 6 uf (unfarad)	no	17.00
939	supply and replace run capacitor up to 20 uf (unfarad)	no	29.00
940	supply and replace run capacitor up to 22.5 uf (unfarad)	no	33.00
941	supply and replace run capacitor up to 25 uf (unfarad)	no	37.00
942	supply and replace run capacitor up to 30 uf (unfarad)	no	42.00
943	supply and replace run capacitor up to 50 uf (unfarad)	no	60.00
944	supply and replace run capacitor up to 60 uf (unfarad)	no	80.00
945	supply and replace run capacitor up to 100 uf (unfarad)	no	100.00
946	To supply and replace starting capacitor up to 150 uf (unfarad)	no	25.00
947	To supply materials and labour to replace thermal overload relay -3 phase (0.12A to 0.18A) up to (4.0A to 6.0A)	no	80.00
948	To supply materials and labour to replace thermal overload relay -3 phase (5.6A to 8.0A) up to (22A to 24A)	no	90.00
949	To supply materials and labour to replace thermal overload relay -3 phase 24A to 32A	no	110.00
950	To supply materials and labour to replace thermal overload relay -3 phase 30A to 45A (including termiN.A.l cables)	no	145.00
951	To supply materials and labour to replace thermal overload relay -3 phase 60A to 75A (including termiN.A.l cables)	no	175.00
952	To supply materials and labour to replace auxiliary contact block 2 contacts	no	30.00
953	To supply materials and labour to replace auxiliary contact block 4 contacts	no	40.00
954	To supply all materials , labour and transport to install/replace indicating light with holder	no	5.00
955	To supply all materials , labour and transport to install/replace indicating light without holder	no	2.00
956	To supply all materials , labour and transport to install/replace fuse (all sizes)	no	3.00
957	To supply labour and material to install/replace galvanised steel conduit c/w saddles run on surface 18mm dia	m	3.00
958	To supply labour and material to install/replace galvanised steel conduit c/w saddles run on surface 25mm dia	m	4.00
959	To supply labour and material to install/replace galvanised steel conduit c/w saddles run on surface 32mm dia	m	5.20
960	To supply labour and material to install/replace galvanised steel conduit c/w saddles run on surface 40mm dia	m	6.10
961	To supply labour and material to install/replace galvanised steel conduit c/w saddles run on surface 50mm dia	m	7.50
962	To supply labour and material to install/replace galvanised steel conduit c/w saddles run in wall/in floor 18mm dia	m	3.80
963	To supply labour and material to install/replace galvanised steel conduit c/w saddles run in wall/in floor 25mm dia	m	4.80
964	To supply labour and material to install/replace galvanised steel conduit c/w saddles run in wall/in floor 32mm dia	m	6.20
965	To supply labour and material to install/replace galvanised steel conduit c/w saddles run in wall/in floor 40mm dia	m	7.40
966	To supply labour and material to install/replace galvanised steel	m	9.00



S/No	Description	Unit	Unit Cost (\$)
967	conduit c/w saddles run in wall/in floor 50mm dia To supply labour and material to install/replace PVC conduit c/w saddles run on surface 18mm dia	m	1.80
968	To supply labour and material to install/replace PVC conduit c/w saddles run in wall/in floor 25mm dia	m	2.80
969	To supply labour and material to install/replace PVC conduit c/w saddles run in wall/in floor 32mm dia	m	3.40
970	To supply labour and material to install/replace galvanised flexible conduit with PVC sleeving 20mm dia	m	2.00
971	To supply labour and material to install/replace galvanised flexible conduit with PVC sleeving 25mm dia	m	2.80
972	To supply labour and material to install/replace galvanised flexible conduit with PVC sleeving 32mm dia	m	5.50
973	To supply labour and material to install/replace Brass termin.A.tion gland only for metal type flexible conduit up to 20mm dia	no	1.20
974	To supply labour and material to install/replace Brass termin.A.tion gland only for metal type flexible conduit up to 25mm dia	no	1.50
975	To supply labour and material to install/replace Brass termin.A.tion gland only for metal type flexible conduit up to 25mm dia	no	1.80
976	To supply labour and material to install/replace flexible PVC conduit 20mm dia.	m	1.80
977	To supply labour and material to install/replace flexible PVC conduit 25mm dia.	m	2.20
978	To supply labour and material to install/replace PVC termin.A.tion gland 20mm dia.	no	2.00
979	To supply labour and material to install/replace PVC termin.A.tion gland 25mm dia.	no	2.50
980	To supply labour and material to install/replace PVC termin.A.tion gland 38mm dia.	no	3.00
981	To supply labour and material to install/replace PVC trunking (shall be SISIR Approved type) complete with bracket 100mm x 75mm	m	7.30
982	To supply labour and materials to install/replace PVC trunking (shall be SISIR Approved type) complete with bracket 100mm x 100mm	m	7.40
983	To supply labour and materials to install/replace PVC trunking (shall be SISIR Approved type) complete with bracket 150 mm x 50mm	m	7.50
984	To supply labour and materials to install/replace PVC trunking (shall be SISIR Approved type) complete with bracket 150 mm x 75mm	m	8.30
985	To supply labour and materials to install/replace PVC trunking (shall be SISIR Approved type) complete with bracket 200mm x 100mm	m	9.30
986	To supply labour and materials to install/replace PVC trunking (shall be SISIR Approved type) complete with bracket 200mm x 150mm	m	10.10
987	To supply labour and material to install/replace PVC /PVC insulated cable 1 x 1 sq mm (including termin.A.tion to existing)	m	0.30
988	To supply labour and material to install/replace PVC /PVC insulated cable 1 x 1.5 sq mm (including termin.A.tion to existing)	m	0.35
989	To supply labour and material to install/replace PVC /PVC insulated cable 1 x 1.25 sq mm (including termin.A.tion to existing)	m	0.45
990	To supply labour and material to install/replace PVC /PVC insulated cable 1 x 4.0 sq mm (including termin.A.tion to existing)	m	0.60
991	To supply labour and material to install/replace PVC /PVC insulated cable 1 x 6.0 sq mm (including termin.A.tion to existing)	m	1.15

S/No	Description	Unit	Unit Cost (\$)
992	To supply labour and material to install/replace PVC /PVC insulated cable 1 x 10.0 sq mm (including termination to existing)	m	1.40
993	To supply labour and material to install/replace PVC /PVC insulated cable 1 x 16.0 sq mm (including termination to existing)	m	2.15
994	To supply labour and material to install/replace PVC /PVC insulated cable 1 x 25.0 sq mm (including termination to existing)	m	3.10
995	To supply labour and material to install/replace PVC /PVC insulated cable 1 x 35.0 sq mm (including termination to existing)	m	4.45
996	To supply labour and material to install/replace PVC /PVC insulated cable 1 x 50.0 sq mm (including termination to existing)	m	5.60
997	To supply labour and material to install/replace PVC insulated cable 1 x 1.0sq mm (including termination to existing)	m	0.25
998	To supply labour and material to install/replace PVC insulated cable 1 x 1.5sq mm (including termination to existing)	m	0.30
999	To supply labour and material to install/replace PVC insulated cable 1 x 2.5sq mm (including termination to existing)	m	0.40
1000	To supply labour and material to install/replace PVC insulated cable 1 x 4.0sq mm (including termination to existing)	m	0.50
1001	To supply labour and material to install/replace PVC insulated cable 1 x 6.0sq mm (including termination to existing)	m	0.85
1002	To supply labour and material to install/replace PVC insulated cable 1 x 10.0sq mm (including termination to existing)	m	1.20
1003	To supply labour and material to install/replace PVC insulated cable 1 x 16.0sq mm (including termination to existing)	m	1.80
1004	To supply labour and material to install/replace PVC insulated cable 1 x 25.0sq mm (including termination to existing)	m	2.70
1005	To supply labour and material to install/replace PVC insulated cable 1 x 35.0sq mm (including termination to existing)	m	3.85
1006	To supply labour and material to install/replace PVC insulated cable 1 x 50.0sq mm (including termination to existing)	m	5.05
1007	To supply labour and material to install digital indicating controller (Temp/Humid/Pressure)	no	1,200.00
1008	To supply labour and materials to replace/install Room/Duct Temperature Sensor +/- 1 dec C	no	275.00
1009	To supply labour and materials to replace/install Room/Duct Humidity Sensor +/- 5%	no	1,150.00
1010	To supply labour and materials to replace/install Air Flow Switch	no	160.00
1011	To supply labour and materials to replace/install Temperature Controller c/w sensor any DX unit	no	230.00
1012	To supply labour and materials to replace/install Modulating Motor Actuator for valve size up to 39mm Dia	no	485.00
1013	To supply labour and materials to replace/install Modulating Motor Actuator for valve size up to 64mm Dia	no	705.00
1014	To supply labour and materials to replace/install Modulating Motor Actuator for valve size up to 102mm Dia	no	805.00
1015	To supply labour and materials to replace/install Panel for Controller	no	216.00
1016	To supply labour and materials to replace/install Differential Pressure Sensor	no	950.00
1017	To supply labour and materials to replace/install Room Temperature Controller with DDC functionality	no	450.00
1018	To supply labour and materials to replace/install Actuator Motor for	no	270.00

S/No	Description	Unit	Unit Cost (\$)
1019	VAV To supply labour and materials to replace/install Modulating Motor Actuator for Chilled Water Valve for FCU	no	300.00
1020	To supply labour and materials to replace/install Smoke Detector and testing	no	320.00
1021	To supply labour and materials to replace/install Thermostat (Single Stage) c/w speed control	no	200.00
1022	To supply labour and materials to replace/install Thermostat (Two Stage) c/w speed control	no	300.00
1023	To supply materials labour and transport for the replacement of VSD/Soft Starter Parts -EMC or RFI Filter up to 15.2 kw	no	100.00
1024	To supply materials labour and transport for the replacement of VSD/Soft Starter Parts -EMC or RFI Filter up to 31 kw	no	150.00
1025	To supply materials labour and transport for the replacement of VSD/Soft Starter Parts -EMC or RFI Filter up to 56 kw	no	250.00
1026	To supply materials labour and transport for the replacement of VSD/Soft Starter Parts -EMC or RFI Filter up to 135 kw	no	300.00
1027	To supply materials labour and transport for the replacement of VSD/Soft Starter Parts -Interface Board	no	70.00
1028	To supply materials labour and transport for the replacement of VSD/Soft Starter Parts -Thermal Sensor Board	no	50.00
1029	To supply materials labour and transport for the replacement of VSD/Soft Starter Parts -Capacitor Assembly	no	400.00
1030	To supply materials labour and transport for the replacement of VSD/Soft Starter Parts -InterN.A.I Fan Assembly for VSD/Soft Starter up to 56 kw	no	80.00
1031	To supply materials labour and transport for the replacement of VSD/Soft Starter Parts -InterN.A.I Fan Assembly for VSD/Soft Starter up to 135 kw	no	150.00
1032	To supply materials labour and transport for the replacement of VSD/Soft Starter Parts -Control Board	no	380.00
1033	To supply materials labour and transport for the replacement of VSD/Soft Starter Parts -Display Keyboard	no	70.00
1034	To supply materials labour and transport for the replacement of VSD/Soft Starter Parts -Power Board + IPM Module Assembly up to 3 kw	no	1,000.00
1035	To supply materials labour and transport for the replacement of VSD/Soft Starter Parts -Power Board + IPM. Module assembly up to 5.5 kw	no	1,700.00
1036	To supply materials labour and transport for the replacement of VSD/Soft Starter Parts -Power Board + IPM Module assembly up to 11.5 kw	no	2,000.00
1037	To supply materials labour and transport for the replacement of VSD/Soft Starter Parts -Power Board only up to 18.6 kw	no	800.00
1038	To supply materials labour and transport for the replacement of VSD/Soft Starter Parts -Power Board only up to 46 kw	no	1,000.00
1039	To supply materials labour and transport for the replacement of VSD/Soft Starter Parts -Power Board only up to 56 kw	no	1,200.00
1040	To supply materials labour and transport for the replacement of VSD/Soft Starter Parts -Power Board only up to 135 kw	no	1,400.00
1041	To supply materials labour and transport for the replacement of	no	1,000.00

S/No	Description	Unit	Unit Cost (\$)
1042	VSD/Soft Starter Parts -IPM Module only up to 135 kw To supply materials labour and transport for the replacement of VSD Parts/ILD Cards	no	420.00
1043	To supply materials labour and transport for the replacement of VSD Parts/TOP Fan	no	350.00
1044	To supply labour , materials, transport and carry out freezing of a 50mm to 75mm dia A/C pipe inclusive of cutting to install flowmeter	no	2,750.00
1045	To supply labour , materials, transport and carry out freezing of a 100mm to 150mm dia A/C pipe inclusive of cutting to install flowmeter	no	4,000.00
1046	To supply labour , materials, transport and carry out freezing of a 200mm dia A/C pipe inclusive of cutting to install flowmeter	no	6,500.00
1047	To supply labour , materials, transport and carry out freezing of a 250mm dia A/C pipe inclusive of cutting to install flowmeter	no	8,000.00
1048	To supply labour , materials, transport and install flowmeter sensor up to 100mm dia A/C pipe including testing and commissioning	no	1,250.00
1049	To supply labour , materials, transport and install flowmeter sensor up to 150mm dia A/C pipe including testing and commissioning	no	2,250.00
1050	To supply labour , materials, transport and install flowmeter sensor up to 200mm dia A/C pipe including testing and commissioning	no	3,250.00
1051	To supply labour , materials, transport and install flowmeter sensor up to 250mm dia A/C pipe including testing and commissioning	no	4,350.00
1052	To supply labour , materials, transport and install replace flowmeter reader including testing and commissioning	no	980.00
1053	To supply labour, materials, transport and install BTU calculator complete with necessary sensors and within 30m long complete with cables and conduits for A/C pipes sizes of 50mm to 250mm diameter to convert flowrate to energy (KWH and MWH) including testing and commissioning.	no	1,125.00
1054	SOFT STARTER - To supply materials, labour and transport for the installation/replacement of Soft Starter Controller complete with testing and commissioning of the system for motor up to 3 kw.	no	400.00
1055	SOFT STARTER - To supply materials, labour and transport for the installation/replacement of Soft Starter Controller complete with testing and commissioning of the system for motor up to 4.2 kw.	no	500.00
1056	SOFT STARTER - To supply materials, labour and transport for the installation/replacement of Soft Starter Controller complete with testing and commissioning of the system for motor up to 5.5 kw.	no	600.00
1057	SOFT STARTER - To supply materials, labour and transport for the installation/replacement of Soft Starter Controller complete with testing and commissioning of the system for motor up to 7.5 kw.	no	700.00
1058	SOFT STARTER - To supply materials, labour and transport for the installation/replacement of Soft Starter Controller complete with testing and commissioning of the system for motor up to 11.5 kw.	no	800.00
1059	SOFT STARTER - To supply materials, labour and transport for the installation/replacement of Soft Starter Controller complete with testing and commissioning of the system for motor up to 15.2 kw.	no	1,000.00
1060	SOFT STARTER - To supply materials, labour and transport for the installation/replacement of Soft Starter Controller complete with testing and commissioning of the system for motor up to 18.6 kw.	no	1,200.00
1061	SOFT STARTER - To supply materials, labour and transport for the	no	1,500.00

S/No	Description	Unit	Unit Cost (\$)
1062	installation/replacement of Soft Starter Controller complete with testing and commissioning of the system for motor up to 22.4kw. SOFT STARTER - To supply materials, labour and transport for the installation/replacement of Soft Starter Controller complete with testing and commissioning of the system for motor up to 31kw.	no	1,800.00
1063	SOFT STARTER - To supply materials, labour and transport for the installation/replacement of Soft Starter Controller complete with testing and commissioning of the system for motor up to 46kw.	no	2,000.00
1064	SOFT STARTER - To supply materials, labour and transport for the installation/replacement of Soft Starter Controller complete with testing and commissioning of the system for motor up to 56kw.	no	2,500.00
1065	SOFT STARTER - To supply materials, labour and transport for the installation/replacement of Soft Starter Controller complete with testing and commissioning of the system for motor up to 76kw.	no	2,800.00
1066	SOFT STARTER - To supply materials, labour and transport for the installation/replacement of Soft Starter Controller complete with testing and commissioning of the system for motor up to 95kw.	no	3,000.00
1067	SOFT STARTER - To supply materials, labour and transport for the installation/replacement of Soft Starter Controller complete with testing and commissioning of the system for motor up to 115kw.	no	3,200.00
1068	SOFT STARTER - To supply materials, labour and transport for the installation/replacement of Soft Starter Controller complete with testing and commissioning of the system for motor up to 135kw.	no	3,800.00
1069	VARIABLE SPEED DRIVE SYSTEM (VSD) To supply materials, labour and transport for installation/replacement of VSD Controller complete with testing and commissioning of the system for motor up to 3 kw.	no	2,000.00
1070	VARIABLE SPEED DRIVE SYSTEM (VSD) To supply materials, labour and transport for installation/replacement of VSD Controller complete with testing and commissioning of the system for motor up to 4.2w.	no	2,200.00
1071	VARIABLE SPEED DRIVE SYSTEM (VSD) To supply materials, labour and transport for installation/replacement of VSD Controller complete with testing and commissioning of the system for motor up to 5.5kw.	no	2,400.00
1072	VARIABLE SPEED DRIVE SYSTEM (VSD) To supply materials, labour and transport for installation/replacement of VSD Controller complete with testing and commissioning of the system for motor up to 7.5kw.	no	2,600.00
1073	VARIABLE SPEED DRIVE SYSTEM (VSD) To supply materials, labour and transport for installation/replacement of VSD Controller complete with testing and commissioning of the system for motor up to 11.5kw.	no	2,800.00
1074	VARIABLE SPEED DRIVE SYSTEM (VSD) To supply materials, labour and transport for installation/replacement of VSD Controller complete with testing and commissioning of the system for motor up to 15.2kw.	no	3,000.00
1075	VARIABLE SPEED DRIVE SYSTEM (VSD) To supply materials, labour and transport for installation/replacement of VSD Controller complete with testing and commissioning of the system for motor up to 18.6kw.	no	3,500.00

S/No	Description	Unit	Unit Cost (\$)
1076	VARIABLE SPEED DRIVE SYSTEM (VSD) To supply materials, labour and transport for installation/ replacement of VSD Controller complete with testing and commissioning of the system for motor up to 22.4kw.	no	4,000.00
1077	VARIABLE SPEED DRIVE CONTROLLER To supply materials, labour and transport for installation/ replacement of VSD Controller complete with testing and commissioning of the system for motor up to 31kw.	no	4,500.00
1078	VARIABLE SPEED DRIVE CONTROLLER To supply materials, labour and transport for installation/ replacement of VSD Controller complete with testing and commissioning of the system for motor up to 46Kw.	no	6,000.00
1079	VARIABLE SPEED DRIVE CONTROLLER To supply materials, labour and transport for installation/ replacement of VSD Controller complete with testing and commissioning of the system for motor up to 56Kw.	no	7,000.00
1080	VARIABLE SPEED DRIVE CONTROLLER To supply materials, labour and transport for installation/ replacement of VSD Controller complete with testing and commissioning of the system for motor up to 76Kw.	no	10,000.00
1081	VARIABLE SPEED DRIVE CONTROLLER To supply materials, labour and transport for installation/ replacement of VSD Controller complete with testing and commissioning of the system for motor up to 95Kw.	no	14,000.00
1082	VARIABLE SPEED DRIVE CONTROLLER To supply materials, labour and transport for installation/ replacement of VSD Controller complete with testing and commissioning of the system for motor up to 115Kw.	no	16,000.00
1083	VARIABLE SPEED DRIVE CONTROLLER To supply materials, labour and transport for installation/ replacement of VSD Controller complete with testing and commissioning of the system for motor up to 135Kw.	no	20,000.00
1084	To supply materials, labour and transport for the replacement of VSD Parts - TOP Fan Capacitor	no	50.00
1085	To supply materials, labour and transport for the replacement of VSD Parts - DC Card	no	350.00
1086	To supply materials, labour and transport for the replacement of VSD Parts - IGBT Module	no	450.00
1087	To supply materials, labour and transport for the replacement of VSD Parts - IGBT w/PCB	no	500.00
1088	To supply materials, labour and transport for the replacement of VSD Parts - Rectifier	no	200.00
1089	To supply materials, labour and transport for the replacement of VSD Parts - Relay Card	no	380.00
1090	To supply materials, labour and transport for the replacement of VSD Parts - Gate Drive Board up to 56 kw	no	800.00
1091	To supply materials, labour and transport for the replacement of VSD Parts - Gate Drive Board up to 135 kw	no	2,200.00
1092	To supply materials, labour and transport for the replacement of VSD Parts - Programming Card	no	100.00

S/No	Description	Unit	Unit Cost (\$)
1093	To supply materials, labour and transport for the replacement of VSD Parts - Current Transducer	no	180.00
1094	To supply materials, labour and transport for the replacement of SOFT STARTER Parts - TOP Fan	no	160.00
1095	To supply materials, labour and transport for the replacement of SOFT STARTER Parts - TOP Fan Capacitor	no	50.00
1096	To supply materials, labour and transport for the replacement of SOFT STARTER Parts - Built-In Vent Fan	no	350.00
1097	To supply materials, labour and transport install/replace flow meter reader including testing and commissioning	no	1,600.00
1098	To supply and install of Screen cable for BAS - 4 Cores x 1.5mm <sup>2</sup>	no	5.00
1099	To supply and install of 12" Axial flow Fan	no	280.00
1100	To supply Sling psychrometer	no	110.00
1101	To supply labour, material and transport for the collection of a Thermo-Hygrographer and return to employer inclusive checking and calibration by a certified calibrator approved by PSB	no	300.00
1102	To supply material, labour, transport and install/replace including connecting up to power point and ready to operate for an electric time switch (digital type), 230v, 50Hz, 10-30 amperes, quartz reserve (150 hrs) for 24 hours with 1 minute setting.	no	120.00
1103	To supply material, labour, transport and install/replace including connecting up to power point and ready to operate for an electric time switch (digital type), 230v, 50Hz, 7 days operations (weekly) class of protection IP42/11 with minimum time setting of 1 minute. The timer shall have at least 24 start/shop functions	no	400.00
1104	To supply all labour, materials, transport for the replace of Class C galvanised steel pipe with necessary fittings, supports, hangers and painting up to 20 mm Dia.	m	30.00
1105	To supply all labour, materials, transport for the replace of Class C galvanised steel pipe with necessary fittings, supports, hangers and painting up to 26 mm Dia	m	44.00
1106	To supply all labour, materials, transport for the replace of Class C galvanised steel pipe with necessary fittings, supports, hangers and painting up to 32 mm Dia	m	52.00
1107	To supply all labour, materials, transport for the replace of Class C galvanised steel pipe with necessary fittings, supports, hangers and painting up to 40 mm Dia	m	60.00
1108	To supply all labour, materials, transport for the replace of Class C galvanised steel pipe with necessary fittings, supports, hangers and painting up to 51 mm Dia	m	76.00
1109	To supply all labour, materials, transport for the replace of Class C galvanised steel pipe with necessary fittings, supports, hangers and painting up to 64 mm Dia	m	96.00
1110	To supply all labour, materials, transport for the replace of Class C galvanised steel pipe with necessary fittings, supports, hangers and painting up to 80 mm Dia	m	118.00
1111	To supply all labour, materials, transport for the replace of Class C galvanised steel pipe with necessary fittings, supports, hangers and painting up to 102 mm Dia	m	140.00
1112	To supply all labour, materials, transport for the replace of Class C galvanised steel pipe with necessary fittings, supports, hangers and	m	180.00

S/No	Description	Unit	Unit Cost (\$)
1113	painting up to 127 mm Dia To supply all labour, materials, transport for the replace of Class C galvanised steel pipe with necessary fittings, supports, hangers and painting up to 153 mm Dia	m	220.00
1114	To supply all labour, materials, transport for the replace of Class C galvanised steel pipe with necessary fittings, supports, hangers and painting up to 204 mm Dia	m	280.00
1115	To supply all labour, materials, transport for the replace of Class C galvanised steel pipe with necessary fittings, supports, hangers and painting up to 305 mm Dia	m	350.00
1116	To install/replace stainless steel pipe (BS 4127) up to 22mm nomiN.A.I diameter	m	20.00
1117	To install/replace stainless steel pipe (BS 4127) up to 28mm nomiN.A.I diameter	m	27.00
1118	To install/replace stainless steel pipe (BS 4127) up to 35mm nomiN.A.I diameter	m	35.00
1119	To install/replace stainless steel pipe (BS 4127) up to 42mm nomiN.A.I diameter	m	40.00
1120	To install/replace stainless steel pipe (BS 4127) up to 54mm nomiN.A.I diameter	m	45.00
1121	To supply all labour, materials, transport for the replace of Class C Black steel pipe with necessary fittings, supports, hangers and painting up to 20 mm Dia	m	16.00
1122	To supply all labour, materials, transport for the replace of Class C Black steel pipe with necessary fittings, supports, hangers and painting up to 26 mm Dia	m	17.40
1123	To supply all labour, materials, transport for the replace of Class C Black steel pipe with necessary fittings, supports, hangers and painting up to 32 mm Dia	m	28.50
1124	To supply all labour, materials, transport for the replace of Class C Black steel pipe with necessary fittings, supports, hangers and painting up to 40mm Dia	m	32.00
1125	To supply all labour, materials, transport for the replace of Class C Black steel pipe with necessary fittings, supports, hangers and painting up to 51mm Dia	m	44.00
1126	To supply all labour, materials, transport for the replace of Class C Black steel pipe with necessary fittings, supports, hangers and painting up to 64mm Dia	m	56.00
1127	To supply all labour, materials, transport for the replace of Class C Black steel pipe with necessary fittings, supports, hangers and painting up to 80mm Dia	m	66.00
1128	To supply all labour, materials, transport for the replace of Class C Black steel pipe with necessary fittings, supports, hangers and painting up to 102mm Dia	m	80.00
1129	To supply all labour, materials, transport for the replace of Class C Black steel pipe with necessary fittings, supports, hangers and painting up to 127mm Dia	m	100.00
1130	To supply all labour, materials, transport for the replace of Class C Black steel pipe with necessary fittings, supports, hangers and painting up to 153mm Dia	m	130.00
1131	To supply all labour, materials, transport for the replace of Class C	m	180.00



S/No	Description	Unit	Unit Cost (\$)
1132	Black steel pipe with necessary fittings, supports, hangers and painting up to 204mm Dia To supply all labour, materials, transport for the replace of Class C Black steel pipe with necessary fittings, supports, hangers and painting up to 305mm Dia	m	250.00
1133	To dismantle existing condenser/chilled water pipes with all accessories including insulation up to 50mm nomiN.A.I diameter	m	8.00
1134	To dismantle existing condenser/chilled water pipes with all accessories including insulation up to 150mm nomiN.A.I diameter	m	10.00
1135	To dismantle existing condenser/chilled water pipes with all accessories including insulation up to 300mm nomiN.A.I diameter	m	12.00
1136	To dismantle existing insulation for chilled water pipes and all accessories up to 50mm nomiN.A.I diameter	m	4.00
1137	To dismantle existing insulation for chilled water pipes and all accessories up to 150mm nomiN.A.I diameter	m	6.00
1138	To dismantle existing insulation for chilled water pipes and all accessories up to 300mm nomiN.A.I diameter	m	8.00
1139	To supply all materials, labour, transport for the install/replace of polyurethane foam insulation as specified for pipes up to 25mm Dia.	m	20.00
1140	To supply all materials, labour, transport for the install/replace of polyurethane foam insulation as specified for pipes up to 32mm Dia.	m	22.00
1141	To supply all materials, labour, transport for the install/replace of polyurethane foam insulation as specified for pipes up to 40mm Dia.	m	24.00
1142	To supply all materials, labour, transport for the install/replace of polyurethane foam insulation as specified for pipes up to 51mm Dia.	m	27.00
1143	To supply all materials, labour, transport for the install/replace of polyurethane foam insulation as specified for pipes up to 64mm Dia.	m	30.00
1144	To supply all materials, labour, transport for the install/replace of polyurethane foam insulation as specified for pipes up to 80mm Dia.	m	34.00
1145	To supply all materials, labour, transport for the install/replace of polyurethane foam insulation as specified for pipes up to 102mm Dia.	m	36.00
1146	To supply all materials, labour, transport for the install/replace of polyurethane foam insulation as specified for pipes up to 127mm Dia.	m	59.00
1147	To supply all materials, labour, transport for the install/replace of polyurethane foam insulation as specified for pipes up to 153mm Dia.	m	67.50
1148	To supply all materials, labour, transport for the install/replace of polyurethane foam insulation as specified for pipes up to 204mm Dia.	m	85.00
1149	To supply all materials, labour, transport for the install/replace of polyurethane foam insulation as specified for pipes up to 254mm Dia.	m	95.00
1150	To supply all materials, labour, transport for the install/replace of polyurethane foam insulation as specified for pipes up to 305mm Dia.	m	105.00
1151	To supply all materials, labour, transport for the install/replace of polyurethane foam insulation as specified for pipes up to 356mm Dia.	m	140.00
1152	To supply all materials, labour, transport for the install/replace of	m	13.00

S/No	Description	Unit	Unit Cost (\$)
1153	26G aluminium jacket with painting for pipes size up to 26mm Dia. To supply all materials, labour, transport for the install/replace of 26G aluminium jacket with painting for pipes size up to 32mm Dia.	m	15.00
1154	To supply all materials, labour, transport for the install/replace of 26G aluminium jacket with painting for pipes size up to 40mm Dia.	m	17.00
1155	To supply all materials, labour, transport for the install/replace of 26G aluminium jacket with painting for pipes size up to 51mm Dia.	m	20.00
1156	To supply all materials, labour, transport for the install/replace of 26G aluminium jacket with painting for pipes size up to 64mm Dia.	m	23.00
1157	To supply all materials, labour, transport for the install/replace of 26G aluminium jacket with painting for pipes size up to 80mm Dia.	m	27.00
1158	To supply all materials, labour, transport for the install/replace of 26G aluminium jacket with painting for pipes size up to 102mm Dia.	m	30.00
1159	To supply all materials, labour, transport for the install/replace of 26G aluminium jacket with painting for pipes size up to 127mm Dia.	m	61.00
1160	To supply all materials, labour, transport for the install/replace of 26G aluminium jacket with painting for pipes size up to 152mm Dia.	m	68.50
1161	To supply all materials, labour, transport for the install/replace of 26G aluminium jacket with painting for pipes size up to 203mm Dia.	m	70.50
1162	To supply all materials, labour, transport for the install/replace of 26G aluminium jacket with painting for pipes size up to 254mm Dia.	m	76.00
1163	To supply all materials, labour, transport for the install/replace of 26G aluminium jacket with painting for pipes size up to 305mm Dia.	m	80.00
1164	To supply all materials, labour, transport for the install/replace of 26G aluminium jacket with painting for pipes size up to 356mm Dia.	m	86.00
1165	To supply all materials, labour, transport for the install/replace of 26G aluminium jacket with painting for pipes size up to 26mm Dia.	m	9.00
1166	To supply all materials, labour, transport for the install/replace of 26G aluminium jacket with painting for pipes size up to 32mm Dia.	m	11.00
1167	To supply all materials, labour, transport for the install/replace of 26G aluminium jacket with painting for pipes size up to 40mm Dia.	m	13.00
1168	To supply all materials, labour, transport for the install/replace of 26G aluminium jacket with painting for pipes size up to 51mm Dia.	m	16.00
1169	To supply all materials, labour, transport for the install/replace of 26G aluminium jacket with painting for pipes size up to 64mm Dia.	m	19.00
1170	To supply all materials, labour, transport for the install/replace of 26G aluminium jacket with painting for pipes size up to 80mm Dia.	m	23.00
1171	To supply all materials, labour, transport for the install/replace of 26G aluminium jacket with painting for pipes size up to 102mm Dia.	m	26.00
1172	To supply all materials, labour, transport for the install/replace of 26G aluminium jacket with painting for pipes size up to 127mm Dia.	m	55.00
1173	To supply all materials, labour, transport for the install/replace of 26G aluminium jacket with painting for pipes size up to 153mm Dia.	m	61.50
1174	To supply all materials, labour, transport for the install/replace of 26G aluminium jacket with painting for pipes size up to 204mm Dia.	m	63.50
1175	To supply all materials, labour, transport for the install/replace of 26G aluminium jacket with painting for pipes size up to 254mm Dia.	m	68.50
1176	To supply all materials, labour, transport for the install/replace of 26G aluminium jacket with painting for pipes size up to 305mm Dia.	m	137.50
1177	To supply all materials, labour, transport for the install/replace of 26G aluminium jacket with painting for pipes size up to 356mm Dia.	m	168.50

S/No	Description	Unit	Unit Cost (\$)
1178	To supply all tools, labour for the dismantle and remove existing insulation (all types) for pipes size up to 26mm dia.	m	3.50
1179	To supply all tools, labour for the dismantle and remove existing insulation (all types) for pipes size up to 32mm dia.	m	3.50
1180	To supply all tools, labour for the dismantle and remove existing insulation (all types) for pipes size up to 40mm dia.	m	5.00
1181	To supply all tools, labour for the dismantle and remove existing insulation (all types) for pipes size up to 51mm dia.	m	5.00
1182	To supply all tools, labour for the dismantle and remove existing insulation (all types) for pipes size up to 64mm dia.	m	6.50
1183	To supply all tools, labour for the dismantle and remove existing insulation (all types) for pipes size up to 80mm dia.	m	8.00
1184	To supply all tools, labour for the dismantle and remove existing insulation (all types) for pipes size up to 120mm dia.	m	12.00
1185	To supply all tools, labour for the dismantle and remove existing insulation (all types) for pipes size up to 127mm dia.	m	12.00
1186	To supply all tools, labour for the dismantle and remove existing insulation (all types) for pipes size up to 152mm dia.	m	16.00
1187	To supply all tools, labour for the dismantle and remove existing insulation (all types) for pipes size up to 203mm dia.	m	24.00
1188	To supply all tools, labour for the dismantle and remove existing insulation (all types) for pipes size up to 254mm dia.	m	24.00
1189	To supply all tools, labour for the dismantle and remove existing insulation (all types) for pipes size up to 305mm dia.	m	28.00
1190	To supply all tools, labour for the dismantle and remove existing insulation (all types) for pipes size up to 356mm dia.	m	28.00
1191	To supply labour, materials, transport fo the installation of up to 10mm thickness of Armaflex insulation sheet	m2	70.00
1192	To supply labour, materials, transport fo the installation of up to 20mm thickness of Armaflex insulation sheet	m2	110.00
1193	To supply labour, materials, transport fo the installation of up to 30mm thickness of Armaflex insulation sheet	m2	150.00
1194	To supply labour, materials, transport fo the installation of up to 40mm thickness of Armaflex insulation sheet	m2	220.00
1195	To supply labour, materials, transport for install/replace polyurethane form insulation for all types of valves c/w flanges and fitting complete with 26G aluminium jacketing with painting for pipes size up to 25mm dia.	no	25.00
1196	To supply labour, materials, transport for install/replace polyurethane form insulation for all types of valves c/w flanges and fitting complete with 26G aluminium jacketing with painting for pipes size up to 32mm dia.	no	30.00
1197	To supply labour, materials, transport for install/replace polyurethane form insulation for all types of valves c/w flanges and fitting complete with 26G aluminium jacketing with painting for pipes size up to 40mm dia.	no	35.00
1198	To supply labour, materials, transport for install/replace polyurethane form insulation for all types of valves c/w flanges and fitting complete with 26G aluminium jacketing with painting for pipes size up to 51mm dia.	no	40.00
1199	To supply labour, materials, transport for install/replace polyurethane	no	60.00

S/No	Description	Unit	Unit Cost (\$)
1200	form insulation for all types of valves c/w flanges and fitting complete with 26G aluminium jacketing with painting for pipes size up to 64mm dia. To supply labour, materials, transport for install/replace polyurethane form insulation for all types of valves c/w flanges and fitting complete with 26G aluminium jacketing with painting for pipes size up to 80mm dia.	no	100.00
1201	To supply labour, materials, transport for install/replace polyurethane form insulation for all types of valves c/w flanges and fitting complete with 26G aluminium jacketing with painting for pipes size up to 102mm dia.	no	150.00
1202	To supply labour, materials, transport for install/replace polyurethane form insulation for all types of valves c/w flanges and fitting complete with 26G aluminium jacketing with painting for pipes size up to 127mm dia.	no	200.00
1203	To supply labour, materials, transport for install/replace polyurethane form insulation for all types of valves c/w flanges and fitting complete with 26G aluminium jacketing with painting for pipes size up to 135mm dia.	no	250.00
1204	To supply labour, materials, transport for install/replace polyurethane form insulation for all types of valves c/w flanges and fitting complete with 26G aluminium jacketing with painting for pipes size up to 204mm dia.	no	320.00
1205	To supply labour, materials, transport for install/replace polyurethane form insulation for all types of valves c/w flanges and fitting complete with 26G aluminium jacketing with painting for pipes size up to 254mm dia.	no	400.00
1206	To supply labour, materials, transport for install/replace polyurethane form insulation for all types of valves c/w flanges and fitting complete with 26G aluminium jacketing with painting for pipes size up to 305mm dia.	no	460.00
1207	To supply labour, materials, transport for install/replace polyurethane form insulation for all types of valves c/w flanges and fitting complete with 26G aluminium jacketing with painting for pipes size up to 356mm dia.	no	550.00
1208	To supply labour, materials, transport for install/replace polyurethane form insulation for all types of valves c/w flanges and fitting complete with 26G galvanised steel jacketing with painting for pipes size up to 25mm dia.	no	22.50
1209	To supply labour, materials, transport for install/replace polyurethane form insulation for all types of valves c/w flanges and fitting complete with 26G galvanised steel jacketing with painting for pipes size up to 32mm dia.	no	27.00
1210	To supply labour, materials, transport for install/replace polyurethane form insulation for all types of valves c/w flanges and fitting complete with 26G galvanised steel jacketing with painting for pipes size up to 40mm dia.	no	31.50
1211	To supply labour, materials, transport for install/replace polyurethane form insulation for all types of valves c/w flanges and fitting complete with 26G aluminium jacketing with painting for pipes size up to 51mm dia.	no	36.00

S/No	Description	Unit	Unit Cost (\$)
1212	To supply labour, materials, transport for install/replace polyurethane form insulation for all types of valves c/w flanges and fitting complete with 26G galvanised steel jacketing with painting for pipes size up to 64mm dia.	no	54.00
1213	To supply labour, materials, transport for install/replace polyurethane form insulation for all types of valves c/w flanges and fitting complete with 26G galvanised steel jacketing with painting for pipes size up to 80mm dia.	no	90.00
1214	To supply labour, materials, transport for install/replace polyurethane form insulation for all types of valves c/w flanges and fitting complete with 26G galvanised steel jacketing with painting for pipes size up to 102mm dia.	no	135.00
1215	To supply labour, materials, transport for install/replace polyurethane form insulation for all types of valves c/w flanges and fitting complete with 26G galvanised steel jacketing with painting for pipes size up to 127mm dia.	no	180.00
1216	To supply labour, materials, transport for install/replace polyurethane form insulation for all types of valves c/w flanges and fitting complete with 26G galvanised steel jacketing with painting for pipes size up to 153mm dia.	no	225.00
1217	To supply labour, materials, transport for install/replace polyurethane form insulation for all types of valves c/w flanges and fitting complete with 26G galvanised steel jacketing with painting for pipes size up to 204mm dia.	no	288.00
1218	To supply labour, materials, transport for install/replace polyurethane form insulation for all types of valves c/w flanges and fitting complete with 26G galvanised steel jacketing with painting for pipes size up to 254mm dia.	no	360.00
1219	To supply labour, materials, transport for install/replace polyurethane form insulation for all types of valves c/w flanges and fitting complete with 26G galvanised steel jacketing with painting for pipes size up to 305mm dia.	no	414.00
1220	To supply labour, materials, transport for install/replace polyurethane form insulation for all types of valves c/w flanges and fitting complete with 26G galvanised steel jacketing with painting for pipes size up to 356mm dia.	no	495.00
1221	To supply labour, materials, transport for install/replace gate valve without insulation but includes painting for diameter up to 15mm.	no	30.00
1222	To supply labour, materials, transport for install/replace gate valve without insulation but includes painting for diameter up to 20mm.	no	60.00
1223	To supply labour, materials, transport for install/replace gate valve without insulation but includes painting for diameter up to 26mm.	no	80.00
1224	To supply labour, materials, transport for install/replace gate valve without insulation but includes painting for diameter up to 40mm.	no	120.00
1225	To supply labour, materials, transport for install/replace gate valve without insulation but includes painting for diameter up to 51mm.	no	160.00
1226	To supply labour, materials, transport for install/replace gate valve without insulation but includes painting for diameter up to 64mm.	no	220.00
1227	To supply labour, materials, transport for install/replace gate valve without insulation but includes painting for diameter up to 80mm.	no	300.00
1228	To supply labour, materials, transport for install/replace gate valve	no	400.00

S/No	Description	Unit	Unit Cost (\$)
1229	without insulation but includes painting for diameter up to 102mm. To supply labour, materials, transport for install/replace gate valve without insulation but includes painting for diameter up to 127mm.	no	560.00
1230	To supply labour, materials, transport for install/replace gate valve without insulation but includes painting for diameter up to 153mm.	m	760.00
1231	To supply labour, materials, transport for install/replace gate valve without insulation but includes painting for diameter up to 204mm.	m	990.00
1232	To supply labour, materials, transport for install/replace gate valve without insulation but includes painting for diameter up to 254mm.	m	1,320.00
1233	To supply labour, materials, transport for install/replace gate valve without insulation but includes painting for diameter up to 305mm.	m	1,705.00
1234	To supply labour, materials, transport for install/replace gate valve with polyurethane foam insulation, aluminium jaketing and painting for diameter up to 20mm.	m	80.00
1235	To supply labour, materials, transport for install/replace gate valve with polyurethane foam insulation, aluminium jaketing and painting for diameter up to 20mm.	m	108.00
1236	To supply labour, materials, transport for install/replace gate valve with polyurethane foam insulation, aluminium jaketing and painting for diameter up to 40mm.	m	160.00
1237	To supply labour, materials, transport for install/replace gate valve with polyurethane foam insulation, aluminium jaketing and painting for diameter up to 51mm.	m	220.00
1238	To supply labour, materials, transport for install/replace gate valve with polyurethane foam insulation, aluminium jaketing and painting for diameter up to 64mm.	m	300.00
1239	To supply labour, materials, transport for install/replace gate valve with polyurethane foam insulation, aluminium jaketing and painting for diameter up to 80mm.	m	420.00
1240	To supply labour, materials, transport for install/replace gate valve with polyurethane foam insulation, aluminium jaketing and painting for diameter up to 102mm.	m	560.00
1241	To supply labour, materials, transport for install/replace gate valve with polyurethane foam insulation, aluminium jaketing and painting for diameter up to 127mm.	m	720.00
1242	To supply labour, materials, transport for install/replace gate valve with polyurethane foam insulation, aluminium jaketing and painting for diameter up to 153mm.	m	940.00
1243	To supply labour, materials, transport for install/replace gate valve with polyurethane foam insulation, aluminium jaketing and painting for diameter up to 204mm.	m	1,170.00
1244	To supply labour, materials, transport for install/replace gate valve with polyurethane foam insulation, aluminium jaketing and painting for diameter up to 254mm.	m	1,540.00
1245	To supply labour, materials, transport for install/replace gate valve with polyurethane foam insulation, aluminium jaketing and painting for diameter up to 305mm.	m	1,980.00
1246	2 way valve - To supply all materials, labour and transport for install/replace globe valve without insulation but include painting for diameter up to 15mm.	m	35.00
1247	2 way valve - To supply all materials, labour and transport for	m	55.00

S/No	Description	Unit	Unit Cost (\$)
1248	install/replace globe valve without insulation but include painting for diameter up to 20mm. 2 way valve - To supply all materials, labour and transport for install/replace globe valve without insulation but include painting for diameter up to 26mm.	m	80.00
1249	2 way valve - To supply all materials, labour and transport for install/replace globe valve without insulation but include painting for diameter up to 40mm.	m	120.00
1250	2 way valve - To supply all materials, labour and transport for install/replace globe valve without insulation but include painting for diameter up to 51mm.	m	160.00
1251	2 way valve - To supply all materials, labour and transport for install/replace globe valve without insulation but include painting for diameter up to 64mm.	m	250.00
1252	2 way valve - To supply all materials, labour and transport for install/replace globe valve without insulation but include painting for diameter up to 80mm.	m	310.00
1253	2 way valve - To supply all materials, labour and transport for install/replace globe valve without insulation but include painting for diameter up to 102mm.	m	450.00
1254	2 way valve - To supply all materials, labour and transport for install/replace globe valve without insulation but include painting for diameter up to 127mm.	m	580.00
1255	2 way valve - To supply all materials, labour and transport for install/replace globe valve without insulation but include painting for diameter up to 153mm.	m	750.00
1256	2 way valve - To supply all materials, labour and transport for install/replace globe valve without insulation but include painting for diameter up to 204mm.	m	1,100.00
1257	2 way valve - To supply all materials, labour and transport for install/replace globe valve without insulation but include painting for diameter up to 254mm.	m	1,650.00
1258	2 way valve - To supply all materials, labour and transport for install/replace globe valve without insulation but include painting for diameter up to 305mm.	m	2,420.00
1259	2 way valve - To supply all materials, labour and transport for install/replace globe valve without polyurethane foam insulation, aluminium jacketing and painting for diameter up to 26mm.	m	108.00
1260	2 way valve - To supply all materials, labour and transport for install/replace globe valve without polyurethane foam insulation, aluminium jacketing and painting for diameter up to 40mm.	m	160.00
1261	2 way valve - To supply all materials, labour and transport for install/replace globe valve without polyurethane foam insulation, aluminium jacketing and painting for diameter up to 51mm.	m	220.00
1262	2 way valve - To supply all materials, labour and transport for install/replace globe valve without polyurethane foam insulation, aluminium jacketing and painting for diameter up to 64mm.	m	310.00
1263	2 way valve - To supply all materials, labour and transport for install/replace globe valve without polyurethane foam insulation, aluminium jacketing and painting for diameter up to 80mm.	m	430.00
1264	2 way valve - To supply all materials, labour and transport for	m	580.00

S/No	Description	Unit	Unit Cost (\$)
1265	install/replace globe valve without polyurethane foam insulation, aluminium jacketing and painting for diameter up to 102mm. 2 way valve - To supply all materials, labour and transport for	m	740.00
1266	install/replace globe valve without polyurethane foam insulation, aluminium jacketing and painting for diameter up to 127mm. 2 way valve - To supply all materials, labour and transport for	no	960.00
1267	install/replace globe valve without polyurethane foam insulation, aluminium jacketing and painting for diameter up to 153mm. 2 way valve - To supply all materials, labour and transport for	no	1,320.00
1268	install/replace globe valve without polyurethane foam insulation, aluminium jacketing and painting for diameter up to 204mm. 2 way valve - To supply all materials, labour and transport for	no	1,870.00
1269	install/replace globe valve without polyurethane foam insulation, aluminium jacketing and painting for diameter up to 254mm. 2 way valve - To supply all materials, labour and transport for	no	2,640.00
1270	install/replace globe valve without polyurethane foam insulation, aluminium jacketing and painting for diameter up to 305mm. To supply all materials, labour and transport for install/replace of	no	80.00
1271	check valve without insulation but include painting for diameter up to 26mm. To supply all materials, labour and transport for install/replace of	no	120.00
1272	check valve without insulation but include painting for diameter up to 40mm. To supply all materials, labour and transport for install/replace of	no	160.00
1273	check valve without insulation but include painting for diameter up to 51mm. To supply all materials, labour and transport for install/replace of	no	220.00
1274	check valve without insulation but include painting for diameter up to 64mm. To supply all materials, labour and transport for install/replace of	no	300.00
1275	check valve without insulation but include painting for diameter up to 80mm. To supply all materials, labour and transport for install/replace of	no	450.00
1276	check valve without insulation but include painting for diameter up to 102mm. To supply all materials, labour and transport for install/replace of	no	580.00
1277	check valve without insulation but include painting for diameter up to 127mm. To supply all materials, labour and transport for install/replace of	no	770.00
1278	check valve without insulation but include painting for diameter up to 153mm. To supply all materials, labour and transport for install/replace of	no	990.00
1279	check valve without insulation but include painting for diameter up to 204mm. To supply all materials, labour and transport for install/replace of	no	1,320.00
1280	check valve without insulation but include painting for diameter up to 254mm. To supply all materials, labour and transport for install/replace of	no	1,705.00
1281	check valve without insulation but include painting for diameter up to 305mm. To supply all materials, labour and transport for install/replace of	no	108.00



S/No	Description	Unit	Unit Cost (\$)
1282	check valve with polyurethane foam insulation, aluminium jacketing and painting for diameter up to 26mm. To supply all materials, labour and transport for install/replace of check valve with polyurethane foam insulation, aluminium jacketing and painting for diameter up to 40mm.	no	160.00
1283	To supply all materials, labour and transport for install/replace of check valve with polyurethane foam insulation, aluminium jacketing and painting for diameter up to 51mm.	no	220.00
1284	To supply all materials, labour and transport for install/replace of check valve with polyurethane foam insulation, aluminium jacketing and painting for diameter up to 64mm.	no	310.00
1285	To supply all materials, labour and transport for install/replace of check valve with polyurethane foam insulation, aluminium jacketing and painting for diameter up to 80mm.	no	430.00
1286	To supply all materials, labour and transport for install/replace of check valve with polyurethane foam insulation, aluminium jacketing and painting for diameter up to 102mm.	no	580.00
1287	To supply all materials, labour and transport for install/replace of check valve with polyurethane foam insulation, aluminium jacketing and painting for diameter up to 127mm.	no	740.00
1288	To supply all materials, labour and transport for install/replace of check valve with polyurethane foam insulation, aluminium jacketing and painting for diameter up to 153mm.	no	960.00
1289	To supply all materials, labour and transport for install/replace of check valve with polyurethane foam insulation, aluminium jacketing and painting for diameter up to 204mm.	no	1,170.00
1290	To supply all materials, labour and transport for install/replace of check valve with polyurethane foam insulation, aluminium jacketing and painting for diameter up to 254mm.	no	1,540.00
1291	To supply all materials, labour and transport for install/replace of check valve with polyurethane foam insulation, aluminium jacketing and painting for diameter up to 305mm.	no	1,980.00
1292	To supply all materials, labour and transport for install/replace of 2 way valve with polyurethane foam insulation, aluminium jacketing and painting for diameter up to 26mm.	no	250.00
1293	To supply all materials, labour and transport for install/replace of 2 way valve with polyurethane foam insulation, aluminium jacketing and painting for diameter up to 40mm.	no	300.00
1294	To supply all materials, labour and transport for install/replace of 2 way valve with polyurethane foam insulation, aluminium jacketing and painting for diameter up to 51mm.	no	400.00
1295	To supply all materials, labour and transport for install/replace of 2 way valve with polyurethane foam insulation, aluminium jacketing and painting for diameter up to 76mm.	no	500.00
1296	To supply all materials, labour and transport for install/replace of 2 way valve with polyurethane foam insulation, aluminium jacketing and painting for diameter up to 101mm.	no	2,000.00
1297	To supply all materials, labour and transport for install/replace of 2 way valve with polyurethane foam insulation, aluminium jacketing and painting for diameter up to 126mm.	no	4,000.00
1298	To supply all materials, labour and transport for install/replace of 2	no	6,000.00

S/No	Description	Unit	Unit Cost (\$)
1299	way valve with polyurethane foam insulation, aluminium jacketing and painting for diameter up to 151mm. To supply all materials, labour and transport for install/replace of strainer without insulation but include painting for diameter up to 15mm.	no	40.00
1300	To supply all materials, labour and transport for install/replace of strainer without insulation but include painting for diameter up to 20mm.	no	45.00
1301	To supply all materials, labour and transport for install/replace of strainer without insulation but include painting for diameter up to 26mm.	no	55.00
1302	To supply all materials, labour and transport for install/replace of strainer without insulation but include painting for diameter up to 40mm.	no	100.00
1303	To supply all materials, labour and transport for install/replace of strainer without insulation but include painting for diameter up to 51mm.	no	150.00
1304	To supply all materials, labour and transport for install/replace of strainer without insulation but include painting for diameter up to 64mm.	no	210.00
1305	To supply all materials, labour and transport for install/replace of strainer without insulation but include painting for diameter up to 80mm.	no	270.00
1306	To supply all materials, labour and transport for install/replace of strainer without insulation but include painting for diameter up to 102mm.	no	340.00
1307	To supply all materials, labour and transport for install/replace of strainer without insulation but include painting for diameter up to 127mm.	no	420.00
1308	To supply all materials, labour and transport for install/replace of strainer without insulation but include painting for diameter up to 153mm.	no	600.00
1309	To supply all materials, labour and transport for install/replace of strainer without insulation but include painting for diameter up to 204mm.	no	700.00
1310	To supply all materials, labour and transport for install/replace of strainer without insulation but include painting for diameter up to 254mm.	no	1,320.00
1311	To supply all materials, labour and transport for install/replace of strainer without insulation but include painting for diameter up to 305mm.	no	1,705.00
1312	To supply all materials, labour and transport for install/replace of strainer include insulation, aluminium jacketing and painting for diameter up to 26mm.	no	100.00
1313	To supply all materials, labour and transport for install/replace of strainer include insulation, aluminium jacketing and painting for diameter up to 40mm.	no	150.00
1314	To supply all materials, labour and transport for install/replace of strainer include insulation, aluminium jacketing and painting for diameter up to 51mm.	no	210.00
1315	To supply all materials, labour and transport for install/replace of	no	270.00

S/No	Description	Unit	Unit Cost (\$)
1316	strainer include insulation, aluminium jacketing and painting for diameter up to 64mm. To supply all materials, labour and transport for install/replace of strainer include insulation, aluminium jacketing and painting for diameter up to 80mm.	no	340.00
1317	To supply all materials, labour and transport for install/replace of strainer include insulation, aluminium jacketing and painting for diameter up to 102mm.	no	430.00
1318	To supply all materials, labour and transport for install/replace of strainer include insulation, aluminium jacketing and painting for diameter up to 127mm.	no	530.00
1319	To supply all materials, labour and transport for install/replace of strainer include insulation, aluminium jacketing and painting for diameter up to 153mm.	no	730.00
1320	To supply all materials, labour and transport for install/replace of strainer include insulation, aluminium jacketing and painting for diameter up to 204mm.	no	950.00
1321	To supply all materials, labour and transport for install/replace of strainer include insulation, aluminium jacketing and painting for diameter up to 254mm.	no	1,540.00
1322	To supply all materials, labour and transport for install/replace of strainer include insulation, aluminium jacketing and painting for diameter up to 305mm.	no	1,980.00
1323	To supply all materials, labour and transport for install/replace of automatic air vent c/w stopcock without insulation but include painting for diameter up to 26mm.	no	90.00
1324	To supply all materials, labour and transport for install/replace of automatic air vent c/w stopcock with polyurethane foam insulation, aluminium jacketing and painting for diameter up to 26mm.	no	110.00
1325	To supply all materials, labour and transport for install/replace of rubber bellow with reinforcing fabric flexible joints with built-in mild steel flanged ends and limiting rods or threaded ends. The flexible joints shall have a normal working pressure rating of 14gf/sq cm and aluminium bursting of 42gf/sq cm for diameter up to 26mm.	no	70.00
1326	To supply all materials, labour and transport for install/replace of rubber bellow with reinforcing fabric flexible joints with built-in mild steel flanged ends and limiting rods or threaded ends. The flexible joints shall have a normal working pressure rating of 14gf/sq cm and aluminium bursting of 42gf/sq cm for diameter up to 40mm.	no	100.00
1327	To supply all materials, labour and transport for install/replace of rubber bellow with reinforcing fabric flexible joints with built-in mild steel flanged ends and limiting rods or threaded ends. The flexible joints shall have a normal working pressure rating of 14gf/sq cm and aluminium bursting of 42gf/sq cm for diameter up to 51mm.	no	120.00
1328	To supply all materials, labour and transport for install/replace of rubber bellow with reinforcing fabric flexible joints with built-in mild steel flanged ends and limiting rods or threaded ends. The flexible joints shall have a normal working pressure rating of 14gf/sq cm and aluminium bursting of 42gf/sq cm for diameter up to 64mm.	no	130.00
1329	To supply all materials, labour and transport for install/replace of rubber bellow with reinforcing fabric flexible joints with built-in mild	no	160.00

S/No	Description	Unit	Unit Cost (\$)
1330	steel flanged ends and limiting rods or threaded ends. The flexible joints shall have a normal working pressure rating of 14gf/sq cm and aluminium bursting of 42gf/sq cm for diameter up to 80mm. To supply all materials, labour and transport for install/replace of rubber bellow with reinforcing fabric flexible joints with built-in mild steel flanged ends and limiting rods or threaded ends. The flexible joints shall have a normal working pressure rating of 14gf/sq cm and aluminium bursting of 42gf/sq cm for diameter up to 102mm.	no	210.00
1331	To supply all materials, labour and transport for install/replace of rubber bellow with reinforcing fabric flexible joints with built-in mild steel flanged ends and limiting rods or threaded ends. The flexible joints shall have a normal working pressure rating of 14gf/sq cm and aluminium bursting of 42gf/sq cm for diameter up to 127mm.	no	385.00
1332	To supply all materials, labour and transport for install/replace of rubber bellow with reinforcing fabric flexible joints with built-in mild steel flanged ends and limiting rods or threaded ends. The flexible joints shall have a normal working pressure rating of 14gf/sq cm and aluminium bursting of 42gf/sq cm for diameter up to 153mm.	no	451.00
1333	To supply all materials, labour and transport for install/replace of rubber bellow with reinforcing fabric flexible joints with built-in mild steel flanged ends and limiting rods or threaded ends. The flexible joints shall have a normal working pressure rating of 14gf/sq cm and aluminium bursting of 42gf/sq cm for diameter up to 204mm.	no	638.00
1334	To supply all materials, labour and transport for install/replace of rubber bellow with reinforcing fabric flexible joints with built-in mild steel flanged ends and limiting rods or threaded ends. The flexible joints shall have a normal working pressure rating of 14gf/sq cm and aluminium bursting of 42gf/sq cm for diameter up to 254mm.	no	880.00
1335	To supply all materials, labour and transport for install/replace of rubber bellow with reinforcing fabric flexible joints with built-in mild steel flanged ends and limiting rods or threaded ends. The flexible joints shall have a normal working pressure rating of 14gf/sq cm and aluminium bursting of 42gf/sq cm for diameter up to 305mm.	no	1,100.00
1336	To supply all materials, labour and transport for applying polyurethane foam (canned type)	no	18.00
1337	To supply all materials, labour and transport for install/replace 20mm diameter pvc drain pipe on surface including all elbows, tees, sockets and supporting clips.	m	8.00
1338	To supply all materials, labour and transport for install/replace 25mm diameter pvc drain pipe on surface including all elbows, tees, sockets and supporting clips.	m	9.00
1339	To supply all materials, labour and transport for install/replace 32mm diameter pvc drain pipe on surface including all elbows, tees, sockets and supporting clips.	m	11.00
1340	To supply all materials, labour and transport for install/replace 40mm diameter pvc drain pipe on surface including all elbows, tees, sockets and supporting clips.	m	13.00
1341	To supply all materials, labour and transport for install/replace 50mm diameter pvc drain pipe on surface including all elbows, tees, sockets and supporting clips.	m	19.00
1342	To supply all materials, labour and transport for install/replace	m	26.80

S/No	Description	Unit	Unit Cost (\$)
1343	19mm diameter pvc drain pipe on surface including all elbows, tees, sockets and supporting clips and make good to area affected. To supply all materials, labour and transport for install/replace 25mm diameter pvc drain pipe on surface including all elbows, tees, sockets and supporting clips.	m	32.80
1344	To supply all materials, labour and transport for install/replace 54mm diameter pvc drain pipe on surface including all elbows, tees, sockets and supporting clips.	m	54.00
1345	To install/replace pre-insulated chilled water pipe c/w galvanised steel jacketing up to 25mm nomiN.A.I diameter.	m	49.00
1346	To install/replace pre-insulated chilled water pipe c/w galvanised steel jacketing up to 32mm nomiN.A.I diameter.	m	60.00
1347	To install/replace pre-insulated chilled water pipe c/w galvanised steel jacketing up to 40mm nomiN.A.I diameter.	m	71.00
1348	To install/replace pre-insulated chilled water pipe c/w galvanised steel jacketing up to 50mm nomiN.A.I diameter.	m	87.00
1349	To install/replace pre-insulated chilled water pipe c/w galvanised steel jacketing up to 65mm nomiN.A.I diameter.	m	103.00
1350	To install/replace pre-insulated chilled water pipe c/w galvanised steel jacketing up to 76mm nomiN.A.I diameter.	m	121.00
1351	To install/replace pre-insulated chilled water pipe c/w galvanised steel jacketing up to 102mm nomiN.A.I diameter.	m	141.00
1352	To install/replace pre-insulated chilled water pipe c/w aluminium jacketing up to 25mm nomiN.A.I diameter.	m	53.00
1353	To install/replace pre-insulated chilled water pipe c/w aluminium jacketing up to 32mm nomiN.A.I diameter.	m	64.00
1354	To install/replace pre-insulated chilled water pipe c/w aluminium jacketing up to 40mm nomiN.A.I diameter.	m	75.00
1355	To install/replace pre-insulated chilled water pipe c/w aluminium jacketing up to 50mm nomiN.A.I diameter.	m	91.00
1356	To install/replace pre-insulated chilled water pipe c/w aluminium jacketing up to 65mm nomiN.A.I diameter.	m	107.00
1357	To install/replace pre-insulated chilled water pipe c/w aluminium jacketing up to 76mm nomiN.A.I diameter.	m	125.00
1358	To install/replace pre-insulated chilled water pipe c/w aluminium jacketing up to 102mm nomiN.A.I diameter.	m	145.00
1359	To paint pipe with one coat of approved zinc chromate primer up to 45mm outside diameter.	m	0.40
1360	To paint pipe with one coat of approved zinc chromate primer up to 76mm outside diameter.	m	0.80
1361	To paint pipe with one coat of approved zinc chromate primer up to 115mm outside diameter.	m	1.00
1362	To paint pipe with one coat of approved zinc chromate primer up to 220mm outside diameter.	m	1.50
1363	To paint pipe with one coat of approved zinc chromate primer up to 324mm outside diameter.	m	1.90
1364	To paint pipe with one coat of approved zinc chromate primer up to 356mm outside diameter.	m	2.30
1365	To paint pipe with two coats of eN.A.mel finishing paint up to 45mm outside diameter.	m	0.90
1366	To paint pipe with two coats of eN.A.mel finishing paint up to 76mm	m	1.10

S/No	Description	Unit	Unit Cost (\$)
1367	outside diameter. To paint pipe with two coats of eN.A.mel finishing paint up to 115mm outside diameter.	m	1.30
1368	To paint pipe with two coats of eN.A.mel finishing paint up to 220mm outside diameter.	m	2.10
1369	To paint pipe with two coats of eN.A.mel finishing paint up to 324mm outside diameter.	m	2.70
1370	To paint pipe with two coats of eN.A.mel finishing paint up to 356mm outside diameter.	m	3.30
1371	To supply all materials, labour and transport for replace the insulation for the copper piping, pvc drain pipe, drain pan, and etc with closed cell elastomeric thermal insulation up to 13mm (1/2) ID size 3/8 wall thickness.	m	5.00
1372	To supply all materials, labour and transport for replace the insulation for the copper piping, pvc drain pipe, drain pan, and etc with closed cell elastomeric thermal insulation up to 13mm (1/2) ID size 1/2 wall thickness.	m	8.00
1373	To supply all materials, labour and transport for replace the insulation for the copper piping, pvc drain pipe, drain pan, and etc with closed cell elastomeric thermal insulation up to 13mm (1/2) ID size 3/4 wall thickness.	m	14.00
1374	To supply all materials, labour and transport for replace the insulation for the copper piping, pvc drain pipe, drain pan, and etc with closed cell elastomeric thermal insulation up to 13mm (1/2) ID size 1 wall thickness.	m	26.00
1375	To supply all materials, labour and transport for replace the insulation for the copper piping, pvc drain pipe, drain pan, and etc with closed cell elastomeric thermal insulation up to 19mm (3/4) ID size 3/8 wall thickness.	m	6.00
1376	To supply all materials, labour and transport for replace the insulation for the copper piping, pvc drain pipe, drain pan, and etc with closed cell elastomeric thermal insulation up to 19mm (3/4) ID size 1/2 wall thickness.	m	9.50
1377	To supply all materials, labour and transport for replace the insulation for the copper piping, pvc drain pipe, drain pan, and etc with closed cell elastomeric thermal insulation up to 19mm (3/4) ID size 3/4 wall thickness.	m	17.00
1378	To supply all materials, labour and transport for replace the insulation for the copper piping, pvc drain pipe, drain pan, and etc with closed cell elastomeric thermal insulation up to 19mm (3/4) ID size 1 wall thickness.	m	30.00
1379	To supply all materials, labour and transport for replace the insulation for the copper piping, pvc drain pipe, drain pan, and etc with closed cell elastomeric thermal insulation up to 25mm (1) ID size 3/8 wall thickness.	m	8.00
1380	To supply all materials, labour and transport for replace the insulation for the copper piping, pvc drain pipe, drain pan, and etc with closed cell elastomeric thermal insulation up to 25mm (1) ID size 1/2 wall thickness.	m	12.00
1381	To supply all materials, labour and transport for replace the insulation for the copper piping, pvc drain pipe, drain pan, and etc	m	19.00

S/No	Description	Unit	Unit Cost (\$)
1382	with closed cell elastomeric thermal insulation up to 25mm (1) ID size 3/4 wall thickness. To supply all materials, labour and transport for replace the insulation for the copper piping, pvc drain pipe, drain pan, and etc with closed cell elastomeric thermal insulation up to 25mm (1) ID size 1 wall thickness.	m	37.00
1383	To supply all materials, labour and transport for replace the insulation for the copper piping, pvc drain pipe, drain pan, and etc with closed cell elastomeric thermal insulation up to 35mm (1 3/8) ID size 3/8 wall thickness.	m	10.00
1384	To supply all materials, labour and transport for replace the insulation for the copper piping, pvc drain pipe, drain pan, and etc with closed cell elastomeric thermal insulation up to 35mm (1 3/8) ID size 1/2 wall thickness.	m	14.00
1385	To supply all materials, labour and transport for replace the insulation for the copper piping, pvc drain pipe, drain pan, and etc with closed cell elastomeric thermal insulation up to 35mm (1 3/8) ID size 3/4 wall thickness.	m	28.00
1386	To supply all materials, labour and transport for replace the insulation for the copper piping, pvc drain pipe, drain pan, and etc with closed cell elastomeric thermal insulation up to 35mm (1 3/8) ID size 1 wall thickness.	m	55.00
1387	To supply all materials, labour and transport for replace the insulation for the copper piping, pvc drain pipe, drain pan, and etc with closed cell elastomeric thermal insulation up to 48mm (1 7/8) ID size 3/8 wall thickness.	m	13.00
1388	To supply all materials, labour and transport for replace the insulation for the copper piping, pvc drain pipe, drain pan, and etc with closed cell elastomeric thermal insulation up to 48mm (1 7/8) ID size 1/2 wall thickness.	m	19.00
1389	To supply all materials, labour and transport for replace the insulation for the copper piping, pvc drain pipe, drain pan, and etc with closed cell elastomeric thermal insulation up to 48mm (1 7/8) ID size 3/4 wall thickness.	m	36.00
1390	To supply all materials, labour and transport for replace the insulation for the copper piping, pvc drain pipe, drain pan, and etc with closed cell elastomeric thermal insulation up to 48mm (1 7/8) ID size 1 wall thickness.	m	60.00
1391	To supply all materials, labour and transport to install/replace sheet insulation 1/4 thick.	m2	40.00
1392	To supply all materials, labour and transport to install/replace sheet insulation 3/8 thick.	m2	50.00
1393	To supply all materials, labour and transport to install/replace sheet insulation 1/2 thick.	m2	60.00
1394	To supply and install test plug.	no	28.00
1395	To supply and install test plug but with extra 13mm ball valve for isolation purpose.	no	38.00
1396	To supply and install test plug but with hot tapping method.	set	50.00
1397	To supply labour, materials, transport and installation/replacement of pipes and valves of up to 26mm dia opening onto existing pipes by using "HOT TAPPING" method.	no	150.00

S/No	Description	Unit	Unit Cost (\$)
1398	To supply labour, materials, transport and installation/replacement of pipes and valves of up to 51mm dia opening onto existing pipes by using "HOT TAPPING" method.	no	300.00
1399	To supply labour, materials, transport and installation/replacement of pipes and valves of up to 76mm dia opening onto existing pipes by using "HOT TAPPING" method.	no	450.00
1400	To supply labour, materials, transport and installation/replacement of pipes and valves of up to 101mm dia opening onto existing pipes by using "HOT TAPPING" method.	no	600.00
1401	To remove existing ducting c/w insulation for area less than 10 sq m.	job	100.00
1402	To remove old insulation from duct for area less than 10 sq m.	job	70.00
1403	To remove existing ducting c/w insulation for area more than 10 sq m.	job	10.00
1404	To remove old insulation from duct for area more than 10 sq m.	job	7.00
1405	To supply all materials, labour and transport to fabricate air duct with supports, brackets and etc materials 26BG(0.46mm) galvanised steel duct.	m2	30.00
1406	To supply all materials, labour and transport to fabricate and install/replace air duct with supports, brackets and etc materials 24BG (0.63mm) galvanised steel bare duct.	m2	32.00
1407	To supply all materials, labour and transport to fabricate and install/replace air duct with supports, brackets and etc materials 22BG (0.79mm) galvanised steel bare duct.	m2	36.00
1408	To supply all materials, labour and transport to fabricate and install/replace air duct with supports, brackets and etc materials 20BG (0.99mm) galvanised steel bare duct.	m2	46.00
1409	To supply all materials, labour and transport to fabricate and install/replace air duct with supports, brackets and etc materials 18BG (1.24mm) galvanised steel duct.	m2	56.00
1410	To supply all materials, labour and transport to fabricate and install/replace air duct with supports, brackets and etc materials 16BG (1.57mm) galvanised steel duct.	m2	66.00
1411	To supply all materials, labour and transport to fabricate and install split damper for branch duct (20BG).	no	160.00
1412	To supply all materials, labour and transport to fabricate and install neoprene flexible connection for duct.	m	32.00
1413	To fabricate and install air duct within or inside air handling unit rooms. 26BG (0.46mm) galvanised steel bare duct.	m2	33.00
1414	To fabricate and install air duct within or inside air handling unit rooms. 24BG (0.63mm) galvanised steel bare duct.	m2	35.00
1415	To fabricate and install air duct within or inside air handling unit rooms. 22BG (0.79mm) galvanised steel bare duct.	m2	40.00
1416	To fabricate and install air duct within or inside air handling unit rooms. 20BG (0.99mm) galvanised steel bare duct.	m2	51.00
1417	To fabricate and install air duct within or inside air handling unit rooms. 18BG (1.24mm) galvanised steel bare duct.	m2	62.00
1418	To fabricate and install air duct within or inside air handling unit rooms. 16BG (1.57mm) galvanised steel bare duct.	m2	70.00
1419	To supply all materials, labour and transport to install flexible ducting c/w 25mm x 32kg/cu m insulation for 150mm dia.	m	27.00



S/No	Description	Unit	Unit Cost (\$)
1420	To supply all materials, labour and transport to install flexible ducting c/w 25mm x 32kg/cu m insulation for 175mm dia.	m	30.00
1421	To supply all materials, labour and transport to install flexible ducting c/w 25mm x 32kg/cu m insulation for 200mm dia.	m	33.00
1422	To supply all materials, labour and transport to install flexible ducting c/w 25mm x 32kg/cu m insulation for 225mm dia.	m	37.50
1423	To supply all materials, labour and transport to install flexible ducting c/w 25mm x 32kg/cu m insulation for 250mm dia.	m	41.50
1424	To supply all materials, labour and transport to install flexible ducting c/w 25mm x 32kg/cu m insulation for 300mm dia.	m	50.00
1425	To supply all materials, labour and transport to install flexible ducting c/w 25mm x 32kg/cu m insulation for 350mm dia.	m	58.00
1426	To supply all materials, labour and transport to install flexible ducting c/w 25mm x 32kg/cu m insulation for 400mm dia.	m	65.00
1427	To supply all materials, labour and transport to install flexible ducting c/w 25mm x 32kg/cu m insulation for 450mm dia.	m	78.00
1428	To supply all materials, labour and transport to install flexible ducting c/w 25mm x 32kg/cu m insulation for 500mm dia.	m	84.50
1429	To supply and install flexible ducting without insulation 150mm dia.	m	16.00
1430	To supply and install flexible ducting without insulation 175mm dia.	m	19.00
1431	To supply and install flexible ducting without insulation 200mm dia.	m	24.00
1432	To supply and install flexible ducting without insulation 225mm dia.	m	26.00
1433	To supply and install flexible ducting without insulation 250mm dia.	m	30.00
1434	To supply and install flexible ducting without insulation 300mm dia.	m	36.00
1435	To supply and install flexible ducting without insulation 350mm dia.	m	43.00
1436	To supply and install flexible ducting without insulation 400mm dia.	m	48.00
1437	To supply and install flexible ducting without insulation 450mm dia.	m	54.00
1438	To supply and install flexible ducting without insulation 500mm dia.	m	60.00
1439	To supply labour and tools to cut hole opening on main duct up to 210mm dia.	no	30.00
1440	To supply labour and tools to cut hole opening on main duct up to 255mm dia.	no	40.00
1441	To supply labour and tools to cut hole opening on main duct up to 355mm dia.	no	50.00
1442	To supply materials, labour to insulate bare duct with 25mm thick fibre glass wool, thermal conductivity of no more than 0.038 W(m.K) at 24 deg C mean temperature and density of 32 kg/cu m - return air duct exterN.A.I.	m2	26.00
1443	To supply materials, labour to insulate bare duct with 51mm thick fibre glass wool, thermal conductivity of no more than 0.038 W(m.K) at 24 deg C mean temperature and density of 32 kg/cu m - supply air duct exterN.A.I.	m2	43.00
1444	To supply materials, labour to insulate bare duct with 25mm thick rockwool thermal conductivity 0.04 w/m. K at 24 deg C mean and density of 100kg/cu m covered by perforated aluminium sheet including fastening studs interN.A.Ily on duct.	m2	51.00
1445	To supply materials, labour to insulate bare duct with 25mm thick rockwool thermal conductivity 0.04 w/m. K at 24 deg C mean and density of 100kg/cu m lamiN.A.ted by double sided aluminium foil and secured by perforated aluminium sheet (approved gauge) on interN.A.I duct.	m2	58.00

S/No	Description	Unit	Unit Cost (\$)
1446	To supply materials, labour to insulate bare duct with 51mm thick rockwool thermal conductivity 0.04 w/m. K at 24 deg C mean and density of 144kg/cu m covered by perforated aluminium sheet including fastening studs interN.A.lly duct.	m2	77.00
1447	To supply materials, labour to insulate bare duct with 51mm thick rockwool thermal conductivity 0.04 w/m. K at 24 deg C mean and density of 144kg/cu m lamiN.A.ted by double sided aluminium foil and secured by perforated aluminium sheet (approved gauge) on interN.A.l duct.	m2	80.00
1448	To supply/replacement/installation of galvanised support bracket and treaded hanger rods for ducting or water pipes etc per set (bracket size: 40mm x 0.5mm, rod 10mm dia, rowbolt 10mm dia).	set	40.00
1449	To supply and install hybrid plaster min 12mm thick c/w chicken wire mesh after the insulation.	m2	78.50
1450	To cut hole opening on the supply/return/fresh air duct and install instrument test hole fitting (test port)	no	12.00
1451	To cut hole opening on the supply/return/fresh air duct and install access panels. The access panel shall be of double skin construction with at least 25mm thick fibreglass insultion frame and panel shall be constructed of high grade, heavy galvanised sheet c/w approved gasket, positive sealing latches and hinges for 150mm x 240mm (or equivalent area) of panel size.	no	60.00
1452	To cut hole opening on the supply/return/fresh air duct and install access panels. The access panel shall be of double skin construction with at least 25mm thick fibreglass insultion frame and panel shall be constructed of high grade, heavy galvanised sheet c/w approved gasket, positive sealing latches and hinges for 240mm x 375mm (or equivalent area) of panel size.	no	70.00
1453	To cut hole opening on the supply/return/fresh air duct and install access panels. The access panel shall be of double skin construction with at least 25mm thick fibreglass insultion frame and panel shall be constructed of high grade, heavy galvanised sheet c/w approved gasket, positive sealing latches and hinges for 308mm x 500mm (or equivalent area) of panel size.	no	90.00
1454	To cut hole opening on the supply/return/fresh air duct and install access panels. The access panel shall be of double skin construction with at least 25mm thick fibreglass insultion frame and panel shall be constructed of high grade, heavy galvanised sheet c/w approved gasket, positive sealing latches and hinges for 500mm x 649mm (or equivalent area) of panel size.	no	120.00
1455	To supply materials, labour and tools to prepare surface and apply one coat of approved primer and two coats of approved finishing paint to ductwork inclduing hangers and supports for area less than 10 sq m.	job	70.00
1456	To supply materials, labour and tools to prepare surface and apply one coat of approved primer and two coats of approved finishing paint to ductwork inclduing hangers and supports for area more than 10 sq m.	m2	7.00
1457	To interN.A.lly clean air duct system that includes supply and return air ducts, diffusers, interN.A.l insulation and etc. the distance between the nearest air conditioned area served and AHU shall be within 5m.	m2	80.00

S/No	Description	Unit	Unit Cost (\$)
1458	To interN.A.lly clean air duct system that includes supply air ducts, diffusers, interN.A.l insulation and etc. the distance between the nearest air conditioned area served and AHU shall be within 5m.	m2	50.00
1459	To supply and install VAV BOX of size 5" dia, model V750D, air flow 0-298 CMH.	no	130.00
1460	To supply and install VAV BOX of size 6" dia, model V750D, air flow 299-665 CMH.	no	135.00
1461	To supply and install VAV BOX of size 7" dia, model V750D, air flow 666-850 CMH.	no	140.00
1462	To supply and install VAV BOX of size 8" dia, model V750D, air flow 851-1125 CMH.	no	145.00
1463	To supply and install VAV BOX of size 10" dia, model V750D, air flow 1126-1700 CMH.	no	160.00
1464	To supply and install VAV BOX of size 12" dia, model V750D, air flow 1701-2484 CMH.	no	175.00
1465	To supply and install VAV BOX of size 14" dia, model V750D, air flow 2485-3538 CMH.	no	195.00
1466	To supply and install VAV BOX of size 16" dia, model V750D, air flow 3539-4456 CMH.	no	215.00
1467	To supply and install VAV BOX of size 18" dia, model V750D, air flow 4457-5690 CMH.	no	250.00
1468	To supply and install supply air register (side throw type) of size 300mm x 150mm fpr quantity of up to 10 nos.	no	70.00
1469	To supply and install supply air register (side throw type) of size 400mm x 150mm for quantity of up to 10 nos.	no	76.00
1470	To supply and install supply air register (side throw type) of size 400mm x 200mm for quantity of up to 10 nos.	no	82.00
1471	To supply and install supply air register (side throw type) of size 500mm x 150mm for quantity of up to 10 nos.	no	90.00
1472	To supply and install supply air register (side throw type) of size 500mm x 200mm for quantity of up to 10 nos.	no	119.00
1473	To supply and install supply air register (side throw type) of size 600mm x 200mm for quantity of up to 10 nos.	no	126.00
1474	To supply and install supply air register (side throw type) of size 300mm x 150mm for quantity of up to 30 nos.	no	63.00
1475	To supply and install supply air register (side throw type) of size 400mm x 150mm for quantity of up to 30 nos.	no	68.00
1476	To supply and install supply air register (side throw type) of size 400mm x 200mm for quantity of up to 30 nos.	no	73.80
1477	To supply and install supply air register (side throw type) of size 500mm x 150mm for quantity of up to 30 nos.	no	75.00
1478	To supply and install supply air register (side throw type) of size 500mm x 200mm for quantity of up to 30 nos.	no	79.00
1479	To supply and install supply air register (side throw type) of size 600mm x 200mm for quantity of up to 30 nos.	no	85.00
1480	To supply and install supply air register (side throw type) of size 300mm x 150mm for quantity of up to 60 nos.	no	59.00
1481	To supply and install supply air register (side throw type) of size 400mm x 150mm for quantity of up to 60 nos.	no	64.00
1482	To supply and install supply air register (side throw type) of size 400mm x 200mm for quantity of up to 60 nos.	no	69.00

S/No	Description	Unit	Unit Cost (\$)
1483	To supply and install supply air register (side throw type) of size 500mm x 150mm for quantity of up to 60 nos.	no	71.00
1484	To supply and install supply air register (side throw type) of size 500mm x 200mm for quantity of up to 60 nos.	no	74.00
1485	To supply and install supply air register (side throw type) of size 600mm x 200mm for quantity of up to 60 nos.	no	80.00
1486	To supply and install supply air register (side throw type) of size 300mm x 150mm for quantity of more than 60 nos.	no	52.50
1487	To supply and install supply air register (side throw type) of size 400mm x 150mm for quantity of more than 60 nos.	no	57.00
1488	To supply and install supply air register (side throw type) of size 400mm x 200mm for quantity of more than 60 nos.	no	61.50
1489	To supply and install supply air register (side throw type) of size 500mm x 150mm for quantity of more than 60 nos.	no	63.00
1490	To supply and install supply air register (side throw type) of size 500mm x 200mm for quantity of more than 60 nos.	no	66.00
1491	To supply and install supply air register (side throw type) of size 600mm x 200mm for quantity of more than 60 nos.	no	71.00
1492	To supply and install ceiling diffuser c/w volume control damper (four way) of size 150mm x 150mm for quantity of up to 10 nos.	no	70.00
1493	To supply and install ceiling diffuser c/w volume control damper (four way) of size 200mm x 200mm for quantity of up to 10 nos.	no	75.00
1494	To supply and install ceiling diffuser c/w volume control damper (four way) of size 300mm x 300mm for quantity of up to 10 nos.	no	95.00
1495	To supply and install ceiling diffuser c/w volume control damper (four way) of size 400mm x 400mm for quantity of up to 10 nos.	no	113.00
1496	To supply and install ceiling diffuser c/w volume control damper (four way) of size 500mm x 500mm for quantity of up to 10 nos.	no	139.00
1497	To supply and install ceiling diffuser c/w volume control damper (four way) of size 600mm x 600mm for quantity of up to 10 nos.	no	160.00
1498	To supply and install ceiling diffuser c/w volume control damper (four way) of size 150mm x 150mm for quantity of up to 30 nos.	no	68.40
1499	To supply and install ceiling diffuser c/w volume control damper (four way) of size 200mm x 200mm for quantity of up to 30 nos.	no	70.00
1500	To supply and install ceiling diffuser c/w volume control damper (four way) of size 300mm x 300mm for quantity of up to 30 nos.	no	90.00
1501	To supply and install ceiling diffuser c/w volume control damper (four way) of size 400mm x 400mm for quantity of up to 30 nos.	no	101.70
1502	To supply and install ceiling diffuser c/w volume control damper (four way) of size 500mm x 500mm for quantity of up to 30 nos.	no	125.00
1503	To supply and install ceiling diffuser c/w volume control damper (four way) of size 600mm x 600mm for quantity of up to 30 nos.	no	151.00
1504	To supply and install ceiling diffuser c/w volume control damper (four way) of size 150mm x 150mm for quantity of up to 60 nos.	no	64.00
1505	To supply and install ceiling diffuser c/w volume control damper (four way) of size 200mm x 200mm for quantity of up to 60 nos.	no	71.00
1506	To supply and install ceiling diffuser c/w volume control damper (four way) of size 300mm x 300mm for quantity of up to 60 nos.	no	86.00
1507	To supply and install ceiling diffuser c/w volume control damper (four way) of size 400mm x 00mm for quantity of up to 60 nos.	no	96.00
1508	To supply and install ceiling diffuser c/w volume control damper	no	118.00

S/No	Description	Unit	Unit Cost (\$)
1509	(four way) of size 500mm x 500mm for quantity of up to 60 nos. To supply and install ceiling diffuser c/w volume control damper	no	142.00
1510	(four way) of size 600mm x 600mm for quantity of up to 60 nos. To supply and install ceiling diffuser c/w volume control damper	no	57.00
1511	(four way) of size 150mm x 150mm for quantity of more than 60 nos. To supply and install ceiling diffuser c/w volume control damper	no	63.00
1512	(four way) of size 200mm x 200mm for quantity of more than 60 nos. To supply and install ceiling diffuser c/w volume control damper	no	76.00
1513	(four way) of size 300mm x 300mm for quantity of more than 60 nos. To supply and install ceiling diffuser c/w volume control damper	no	84.00
1514	(four way) of size 400mm x 400mm for quantity of more than 60 nos. To supply and install ceiling diffuser c/w volume control damper	no	104.00
1515	(four way) of size 500mm x 500mm for quantity of more than 60 nos. To supply and install ceiling diffuser c/w volume control damper	no	126.00
1516	(four way) of size 600mm x 600mm for quantity of more than 60 nos. To supply and install ceiling diffuser (four way) complete with plenum BOX and volume control damper of size 150mm x 150mm for quantity of up to 10 nos.	no	86.00
1517	To supply and install ceiling diffuser (four way) complete with plenum BOX and volume control damper of size 200mm x 200mm for quantity of up to 10 nos.	no	94.00
1518	To supply and install ceiling diffuser (four way) complete with plenum BOX and volume control damper of size 300mm x 300mm for quantity of up to 10 nos.	no	117.00
1519	To supply and install ceiling diffuser (four way) complete with plenum BOX and volume control damper of size 400mm x 400mm for quantity of up to 10 nos.	no	133.00
1520	To supply and install ceiling diffuser (four way) complete with plenum BOX and volume control damper of size 500mm x 500mm for quantity of up to 10 nos.	no	164.00
1521	To supply and install ceiling diffuser (four way) complete with plenum BOX and volume control damper of size 600mm x 600mm for quantity of up to 10 nos.	no	178.00
1522	To supply and install ceiling diffuser (four way) complete with plenum BOX and volume control damper of size 150mm x 150mm for quantity of up to 30 nos.	no	77.40
1523	To supply and install ceiling diffuser (four way) complete with plenum BOX and volume control damper of size 200mm x 200mm for quantity of up to 30 nos.	no	84.00
1524	To supply and install ceiling diffuser (four way) complete with plenum BOX and volume control damper of size 300mm x 300mm for quantity of up to 30 nos.	no	105.00
1525	To supply and install ceiling diffuser (four way) complete with plenum BOX and volume control damper of size 400mm x 400mm for quantity of up to 30 nos.	no	119.00

S/No	Description	Unit	Unit Cost (\$)
1526	To supply and install ceiling diffuser (four way) complete with plenum BOX and volume control damper of size 500mm x 500mm for quantity of up to 30 nos.	no	147.00
1527	To supply and install ceiling diffuser (four way) complete with plenum BOX and volume control damper of size 600mm x 600mm for quantity of up to 30 nos.	no	161.00
1528	To supply and install ceiling diffuser (four way) complete with plenum BOX and volume control damper of size 150mm x 150mm for quantity of up to 60 nos.	no	73.00
1529	To supply and install ceiling diffuser (four way) complete with plenum BOX and volume control damper of size 200mm x 200mm for quantity of up to 60 nos.	no	79.00
1530	To supply and install ceiling diffuser (four way) complete with plenum BOX and volume control damper of size 300mm x 300mm for quantity of up to 60 nos.	no	99.00
1531	To supply and install ceiling diffuser (four way) complete with plenum BOX and volume control damper of size 400mm x 400mm for quantity of up to 60 nos.	no	113.00
1532	To supply and install ceiling diffuser (four way) complete with plenum BOX and volume control damper of size 500mm x 500mm for quantity of up to 60 nos.	no	139.00
1533	To supply and install ceiling diffuser (four way) complete with plenum BOX and volume control damper of size 600mm x 600mm for quantity of up to 60 nos.	no	150.00
1534	To supply and install ceiling diffuser (four way) complete with plenum BOX and volume control damper of size 150mm x 150mm for quantity of more than 60 nos.	no	64.00
1535	To supply and install ceiling diffuser (four way) complete with plenum BOX and volume control damper of size 200mm x 200mm for quantity of more than 60 nos.	no	70.50
1536	To supply and install ceiling diffuser (four way) complete with plenum BOX and volume control damper of size 300mm x 300mm for quantity of up to 60 nos.	no	87.00
1537	To supply and install ceiling diffuser (four way) complete with plenum BOX and volume control damper of size 400mm x 400mm for quantity of more than 60 nos.	no	99.00
1538	To supply and install ceiling diffuser (four way) complete with plenum BOX and volume control damper of size 500mm x 500mm for quantity of more than 60 nos.	no	123.00
1539	To supply and install ceiling diffuser (four way) complete with plenum BOX and volume control damper of size 600mm x 600mm for quantity of more than 60 nos.	no	148.50
1540	To supply and install linear supply air diffuser 1 slot diffuser up to 1.2m length & 25mm slot for quantity of up to 10 nos.	no	120.00
1541	To supply and install linear supply air diffuser 2 slots diffuser up to 1.2m length & 25mm slot for quantity of up to 10 nos.	no	150.00
1542	To supply and install linear supply air diffuser 3 slots diffuser up to 1.2m length & 25mm slot for quantity of up to 10 nos.	no	180.00
1543	To supply and install linear supply air diffuser 4 slots diffuser up to 1.2m length & 25mm slot for quantity of up to 10 nos.	no	210.00
1544	To supply and install linear supply air diffuser 1 slot diffuser up to	no	108.00

S/No	Description	Unit	Unit Cost (\$)
1545	1.2m length & 25mm slot for quantity of up to 30 nos. To supply and install linear supply air diffuser 2 slots diffuser up to 1.2m length & 25mm slot for quantity of up to 30 nos.	no	135.00
1546	To supply and install linear supply air diffuser 3 slots diffuser up to 1.2m length & 25mm slot for quantity of up to 30 nos.	no	162.00
1547	To supply and install linear supply air diffuser 4 slots diffuser up to 1.2m length & 25mm slot for quantity of up to 30 nos.	no	189.00
1548	To supply and install linear supply air diffuser 1 slot diffuser up to 1.2m length & 25mm slot for quantity of up to 60 nos.	no	102.00
1549	To supply and install linear supply air diffuser 2 slots diffuser up to 1.2m length & 25mm slot for quantity of up to 60 nos.	no	127.50
1550	To supply and install linear supply air diffuser 3 slots diffuser up to 1.2m length & 25mm slot for quantity of up to 60 nos.	no	153.00
1551	To supply and install linear supply air diffuser 4 slots diffuser up to 1.2m length & 25mm slot for quantity of up to 60 nos.	no	178.50
1552	To supply and install linear supply air diffuser 1 slot diffuser up to 1.2m length & 25mm slot for quantity of more than 60 nos.	no	90.00
1553	To supply and install linear supply air diffuser 2 slots diffuser up to 1.2m length & 25mm slot for quantity of more than 60 nos.	no	112.50
1554	To supply and install linear supply air diffuser 3 slots diffuser up to 1.2m length & 25mm slot for quantity of more than 60 nos.	no	135.00
1555	To supply and install linear supply air diffuser 4 slots diffuser up to 1.2m length & 25mm slot for quantity of more than 60 nos.	no	157.50
1556	To supply and install linear type return air diffuser 1 slot diffuser up to 1.2m length & 25mm slot for quantity of up to 10 nos.	no	100.00
1557	To supply and install linear type return air diffuser 2 slots diffuser up to 1.2m length & 25mm slot for quantity of up to 10 nos.	no	130.00
1558	To supply and install linear type return air diffuser 3 slots diffuser up to 1.2m length & 25mm slot for quantity of up to 10 nos.	no	160.00
1559	To supply and install linear type return air diffuser 4 slots diffuser up to 1.2m length & 25mm slot for quantity of up to 10 nos.	no	180.00
1560	To supply and install linear type return air diffuser 1 slot diffuser up to 1.2m length & 25mm slot for quantity of up to 30 nos.	no	90.00
1561	To supply and install linear type return air diffuser 2 slots diffuser up to 1.2m length & 25mm slot for quantity of up to 30 nos.	no	117.00
1562	To supply and install linear type return air diffuser 3 slots diffuser up to 1.2m length & 25mm slot for quantity of up to 30 nos.	no	144.00
1563	To supply and install linear type return air diffuser 4 slots diffuser up to 1.2m length & 25mm slot for quantity of up to 30 nos.	no	162.00
1564	To supply and install linear type return air diffuser 1 slot diffuser up to 1.2m length & 25mm slot for quantity of up to 60 nos.	no	85.00
1565	To supply and install linear type return air diffuser 2 slots diffuser up to 1.2m length & 25mm slot for quantity of up to 60 nos.	no	110.50
1566	To supply and install linear type return air diffuser 3 slots diffuser up to 1.2m length & 25mm slot for quantity of up to 60 nos.	no	136.00
1567	To supply and install linear type return air diffuser 4 slots diffuser up to 1.2m length & 25mm slot for quantity of up to 60 nos.	no	153.00
1568	To supply and install linear type return air diffuser 1 slot diffuser up to 1.2m length & 25mm slot for quantity of more than 60 nos.	no	75.00
1569	To supply and install linear type return air diffuser 2 slots diffuser up to 1.2m length & 25mm slot for quantity of more than 60 nos.	no	97.00

S/No	Description	Unit	Unit Cost (\$)
1570	To supply and install linear type return air diffuser 3 slots diffuser up to 1.2m length & 25mm slot for quantity of more than 60 nos.	no	120.00
1571	To supply and install linear type return air diffuser 4 slots diffuser up to 1.2m length & 25mm slot for quantity of more than 60 nos.	no	135.00
1572	To supply and install anodised aluminium, fixed louver type return air grille c/w volume control damper of size 300mm x 300mm for quantity of up to 10 nos.	no	105.00
1573	To supply and install anodised aluminium, fixed louver type return air grille c/w volume control damper of size 600mm x 300mm for quantity of up to 10 nos.	no	150.00
1574	To supply and install anodised aluminium, fixed louver type return air grille c/w volume control damper of size 600mm x 600mm for quantity of up to 60 nos.	no	210.00
1575	To supply and install anodised aluminium, fixed louver type return air grille c/w volume control damper of size 1200mm x 600mm for quantity of up to 10 nos.	no	300.00
1576	To supply and install anodised aluminium, fixed louver type return air grille c/w volume control damper of size 1200mm x 1000mm for quantity of up to 10 nos.	no	440.00
1577	To supply and install anodised aluminium, fixed louver type return air grille c/w volume control damper of size 300mm x 300mm for quantity of up to 30 nos.	no	94.00
1578	To supply and install anodised aluminium, fixed louver type return air grille c/w volume control damper of size 600mm x 300mm for quantity of up to 30 nos.	no	140.00
1579	To supply and install anodised aluminium, fixed louver type return air grille c/w volume control damper of size 600mm x 600mm for quantity of up to 30 nos.	no	189.00
1580	To supply and install anodised aluminium, fixed louver type return air grille c/w volume control damper of size 1200mm x 600mm for quantity of up to 30 nos.	no	280.00
1581	To supply and install anodised aluminium, fixed louver type return air grille c/w volume control damper of size 1200mm x 1000mm for quantity of up to 30 nos.	no	400.00
1582	To supply and install anodised aluminium, fixed louver type return air grille c/w volume control damper of size 300mm x 300mm for quantity of up to 60 nos.	no	89.00
1583	To supply and install anodised aluminium, fixed louver type return air grille c/w volume control damper of size 600mm x 300mm for quantity of up to 60 nos.	no	134.00
1584	To supply and install anodised aluminium, fixed louver type return air grille c/w volume control damper of size 600mm x 600mm for quantity of up to 60 nos.	no	178.00
1585	To supply and install anodised aluminium, fixed louver type return air grille c/w volume control damper of size 1200mm x 600mm for quantity of up to 60 nos.	no	267.00
1586	To supply and install anodised aluminium, fixed louver type return air grille c/w volume control damper of size 1200mm x 1000mm for quantity of up to 60 nos.	no	379.00
1587	To supply and install anodised aluminium, fixed louver type return air grille c/w volume control damper of size 300mm x 300mm for	no	78.00



S/No	Description	Unit	Unit Cost (\$)
1588	quantity of more than 60 nos. To supply and install anodised aluminium, fixed louvre type return air grille c/w volume control damper of size 600mm x 300mm for quantity of more than 60 nos.	no	118.00
1589	To supply and install anodised aluminium, fixed louvre type return air grille c/w volume control damper of size 600mm x 600mm for quantity of more than 60 nos.	no	157.00
1590	To supply and install anodised aluminium, fixed louvre type return air grille c/w volume control damper of size 1200mm x 600mm for quantity of more than 60 nos.	no	236.00
1591	To supply and install anodised aluminium, fixed louvre type return air grille c/w volume control damper of size 1200mm x 1000mm for quantity of more than 60 nos.	no	334.00
1592	To supply and install anodised aluminium, fixed louvre type return air grille without volume control damper of size 300mm x 300mm for quantity of up to 10 nos.	no	88.00
1593	To supply and install anodised aluminium, fixed louvre type return air grille without volume control damper of size 600mm x 300mm for quantity of more than 60 nos.	no	126.00
1594	To supply and install anodised aluminium, fixed louvre type return air grille without volume control damper of size 600mm x 600mm for quantity of up to 10 nos.	no	156.00
1595	To supply and install anodised aluminium, fixed louvre type return air grille without volume control damper of size 1200mm x 600mm for quantity of up to 10 nos.	no	218.00
1596	To supply and install anodised aluminium, fixed louvre type return air grille without volume control damper of size 1200mm x 1000mm for quantity of up to 10 nos.	no	278.00
1597	To supply and install anodised aluminium, fixed louvre type return air grille without volume control damper of size 300mm x 300mm for quantity of up to 30 nos.	no	79.00
1598	To supply and install anodised aluminium, fixed louvre type return air grille without volume control damper of size 600mm x 300mm for quantity of up to 30 nos.	no	113.00
1599	To supply and install anodised aluminium, fixed louvre type return air grille without volume control damper of size 600mm x 600mm for quantity of up to 30 nos.	no	140.00
1600	To supply and install anodised aluminium, fixed louvre type return air grille without volume control damper of size 1200mm x 600mm for quantity of up to 30 nos.	no	195.00
1601	To supply and install anodised aluminium, fixed louvre type return air grille without volume control damper of size 1200mm x 1000mm for quantity of up to 30 nos.	no	250.00
1602	To supply and install anodised aluminium, fixed louvre type return air grille without volume control damper of size 300mm x 300mm for quantity of up to 60 nos.	no	74.00
1603	To supply and install anodised aluminium, fixed louvre type return air grille without volume control damper of size 600mm x 300mm for quantity of up to 60 nos.	no	106.00
1604	To supply and install anodised aluminium, fixed louvre type return air grille without volume control damper of size 600mm x 600mm for	no	132.00

S/No	Description	Unit	Unit Cost (\$)
1605	quantity of up to 60 nos. To supply and install anodised aluminium, fixed louvre type return air grille without volume control damper of size 1200mm x 600mm for quantity of up to 60 nos.	no	185.00
1606	To supply and install anodised aluminium, fixed louvre type return air grille without volume control damper of size 1200mm x 1000mm for quantity of up to 60 nos.	no	235.00
1607	To supply and install anodised aluminium, fixed louvre type return air grille without volume control damper of size 300mm x 300mm for quantity of more than 60 nos.	no	66.00
1608	To supply and install anodised aluminium, fixed louvre type return air grille without volume control damper of size 600mm x 300mm for quantity of more than 60 nos.	no	94.00
1609	To supply and install anodised aluminium, fixed louvre type return air grille without volume control damper of size 600mm x 600mm for quantity of more than 60 nos.	no	117.00
1610	To supply and install anodised aluminium, fixed louvre type return air grille without volume control damper of size 1200mm x 600mm for quantity of more than 60 nos.	no	163.00
1611	To supply and install anodised aluminium, fixed louvre type return air grille without volume control damper of size 1200mm x 1000mm for quantity of more than 60 nos.	no	208.00
1612	To supply and install aluminium egg crate return grille c/w galvanised steel plenum BOX and detachable aluminim frame of size 300mm x 300mm for quantity of up to 10 nos.	no	130.00
1613	To supply and install aluminium egg crate return grille c/w galvanised steel plenum BOX and detachable aluminim frame of size 600mm x 300mm for quantity of up to 10 nos.	no	160.00
1614	To supply and install aluminium egg crate return grille c/w galvanised steel plenum BOX and detachable aluminim frame of size 600mm x 600mm for quantity of up to 10 nos.	no	190.00
1615	To supply and install aluminium egg crate return grille c/w galvanised steel plenum BOX and detachable aluminim frame of size 1200mm x 600mm for quantity of up to 10 nos.	no	240.00
1616	To supply and install aluminium egg crate return grille c/w galvanised steel plenum BOX and detachable aluminim frame of size 300mm x 300mm for quantity of up to 30 nos.	no	117.00
1617	To supply and install aluminium egg crate return grille c/w galvanised steel plenum BOX and detachable aluminim frame of size 600mm x 600mm for quantity of up to 30 nos.	no	144.00
1618	To supply and install aluminium egg crate return grille c/w galvanised steel plenum BOX and detachable aluminim frame of size 600mm x 600mm for quantity of up to 30 nos.	no	171.00
1619	To supply and install aluminium egg crate return grille c/w galvanised steel plenum BOX and detachable aluminim frame of size 1200mm x 600mm for quantity of up to 30 nos.	no	216.00
1620	To supply and install aluminium egg crate return grille c/w galvanised steel plenum BOX and detachable aluminim frame of size 300mm x 300mm for quantity of up to 60 nos.	no	110.00
1621	To supply and install aluminium egg crate return grille c/w galvanised steel plenum BOX and detachable aluminim frame of	no	136.00

S/No	Description	Unit	Unit Cost (\$)
1622	size 600mm x 300mm for quantity of up to 60 nos. To supply and install aluminium egg crate return grille c/w galvanised steel plenum BOX and detachable aluminim frame of size 600mm x 600mm for quantity of up to 60 nos.	no	161.00
1623	To supply and install aluminium egg crate return grille c/w galvanised steel plenum BOX and detachable aluminim frame of size 1200mm x 600mm for quantity of up to 60 nos.	no	204.00
1624	To supply and install aluminium egg crate return grille c/w galvanised steel plenum BOX and detachable aluminim frame of size 300mm x 300mm for quantity of more than 60 nos.	no	97.00
1625	To supply and install aluminium egg crate return grille c/w galvanised steel plenum BOX and detachable aluminim frame of size 600mm x 300mm for quantity of more than 60 nos.	no	120.00
1626	To supply and install aluminium egg crate return grille c/w galvanised steel plenum BOX and detachable aluminim frame of size 600mm x 600mm for quantity of more than 60 nos.	no	140.00
1627	To supply and install aluminium egg crate return grille c/w galvanised steel plenum BOX and detachable aluminim frame of size 1200mm x 600mm for quantity of more than 60 nos.	no	180.00
1628	To supply and install aluminium egg crate type return air grille with detachable frame or fixed frame of size 300mm x 300mm for quantity of up to 10 nos.	no	115.00
1629	To supply and install aluminium egg crate type return air grille with detachable frame or fixed frame of size 600mm x 300mm for quantity of up to 10 nos.	no	145.00
1630	To supply and install aluminium egg crate type return air grille with detachable frame or fixed frame of size 600mm x 600mm for quantity of up to 10 nos.	no	170.00
1631	To supply and install aluminium egg crate type return air grille with detachable frame or fixed frame of size 1200mm x 600mm for quantity of up to 10 nos.	no	210.00
1632	To supply and install aluminium egg crate type return air grille with detachable frame or fixed frame of size 300mm x 300mm for quantity of up to 30 nos.	no	103.00
1633	To supply and install aluminium egg crate type return air grille with detachable frame or fixed frame of size 600mm x 300mm for quantity of up to 30 nos.	no	130.00
1634	To supply and install aluminium egg crate type return air grille with detachable frame or fixed frame of size 600mm x 600mm for quantity of up to 30 nos.	no	153.00
1635	To supply and install aluminium egg crate type return air grille with detachable frame or fixed frame of size 1200mm x 600mm for quantity of up to 30 nos.	no	189.00
1636	To supply and install aluminium egg crate type return air grille with detachable frame or fixed frame of size 300mm x 300mm for quantity of up to 60 nos.	no	97.00
1637	To supply and install aluminium egg crate type return air grille with detachable frame or fixed frame of size 600mm x 300mm for quantity of up to 60 nos.	no	123.00
1638	To supply and install aluminium egg crate type return air grille with detachable frame or fixed frame of size 600mm x 600mm for	no	144.00

S/No	Description	Unit	Unit Cost (\$)
1639	quantity of up to 60 nos. To supply and install aluminium egg crate type return air grille with detachable frame or fixed frame of size 1200mm x 600mm for quantity of up to 60 nos.	no	178.00
1640	To supply and install aluminium egg crate type return air grille with detachable frame or fixed frame of size 300mm x 300mm for quantity of more than 60 nos.	no	86.00
1641	To supply and install aluminium egg crate type return air grille with detachable frame or fixed frame of size 600mm x 300mm for quantity of more than 60 nos.	no	108.00
1642	To supply and install aluminium egg crate type return air grille with detachable frame or fixed frame of size 600mm x 600mm for quantity of more than 60 nos.	no	127.00
1643	To supply and install aluminium egg crate type return air grille with detachable frame or fixed frame of size 1200mm x 600mm for quantity of more than 60 nos.	no	157.00
1644	To supply and install PVC egg crate type return air grille c/w aluminium frame of size 300mm x 300mm for quantity of up to 10 nos.	no	42.00
1645	To supply and install PVC egg crate type return air grille c/w aluminium frame of size 600mm x 300mm for quantity of up to 10 nos.	no	50.00
1646	To supply and install PVC egg crate type return air grille c/w aluminium frame of size 600mm x 600mm for quantity of up to 10 nos.	no	60.00
1647	To supply and install PVC egg crate type return air grille c/w aluminium frame of size 1200mm x 600mm for quantity of up to 10 nos.	no	90.00
1648	To supply and install PVC egg crate type return air grille c/w aluminium frame of size 300mm x 300mm for quantity of up to 30 nos.	no	37.00
1649	To supply and install PVC egg crate type return air grille c/w aluminium frame of size 600mm x 600mm for quantity of up to 30 nos.	no	45.00
1650	To supply and install PVC egg crate type return air grille c/w aluminium frame of size 600mm x 600mm for quantity of up to 30 nos.	no	54.00
1651	To supply and install PVC egg crate type return air grille c/w aluminium frame of size 1200mm x 600mm for quantity of up to 30 nos.	no	81.00
1652	To supply and install PVC egg crate type return air grille c/w aluminium frame of size 300mm x 300mm for quantity of up to 60 nos.	no	35.00
1653	To supply and install PVC egg crate type return air grille c/w aluminium frame of size 600mm x 300mm for quantity of up to 60 nos.	no	42.00
1654	To supply and install PVC egg crate type return air grille c/w aluminium frame of size 600mm x 600mm for quantity of up to 60 nos.	no	51.00
1655	To supply and install PVC egg crate type return air grille c/w aluminium frame of size 1200mm x 600mm for quantity of up to 60	no	76.00

S/No	Description	Unit	Unit Cost (\$)
1656	nos. To supply and install PVC egg crate type return air grille c/w aluminium frame of size 300mm x 300mm for quantity of more than 60 nos.	no	31.00
1657	To supply and install PVC egg crate type return air grille c/w aluminium frame of size 600mm x 300mm for quantity of more than 60 nos.	no	37.00
1658	To supply and install PVC egg crate type return air grille c/w aluminium frame of size 600mm x 600mm for quantity of more than 60 nos.	no	45.00
1659	To supply and install PVC egg crate type return air grille c/w aluminium frame of size 1200mm x 600mm for quantity of more than 60 nos.	no	67.50
1660	To supply and install aluminium opposed blade ducted volume control damper of size 150mm x 150mm or equivalent area for quantity of up to 10 nos.	no	88.00
1661	To supply and install aluminium opposed blade ducted volume control damper of size 200mm x 250mm or equivalent area for quantity of up to 10 nos.	no	90.00
1662	To supply and install aluminium opposed blade ducted volume control damper of size 250mm x 250mm or equivalent area for quantity of up to 10 nos.	no	92.00
1663	To supply and install aluminium opposed blade ducted volume control damper of size 300mm x 300mm or equivalent area for quantity of up to 10 nos.	no	95.00
1664	To supply and install aluminium opposed blade ducted volume control damper of size 350mm x 350mm or equivalent area for quantity of up to 10 nos.	no	140.00
1665	To supply and install aluminium opposed blade ducted volume control damper of size 400mm x 400mm or equivalent area for quantity of up to 10 nos.	no	145.00
1666	To supply and install aluminium opposed blade ducted volume control damper of size 450mm x 450mm or equivalent area for quantity of up to 10 nos.	no	175.00
1667	To supply and install aluminium opposed blade ducted volume control damper of size 500mm x 500mm or equivalent area for quantity of up to 10 nos.	no	180.00
1668	To supply and install aluminium opposed blade ducted volume control damper of size 550mm x 550mm or equivalent area for quantity of up to 10 nos.	no	185.00
1669	To supply and install aluminium opposed blade ducted volume control damper of size 600mm x 600mm or equivalent area for quantity of up to 10 nos.	no	190.00
1670	To supply and install aluminium opposed blade ducted volume control damper of size 150mm x 150mm or equivalent area for quantity of up to 30 nos.	no	79.00
1671	To supply and install aluminium opposed blade ducted volume control damper of size 200mm x 250mm or equivalent area for quantity of up to 30 nos.	no	81.00
1672	To supply and install aluminium opposed blade ducted volume control damper of size 200mm x 250mm or equivalent area for	no	82.00

S/No	Description	Unit	Unit Cost (\$)
1673	quantity of up to 30 nos. To supply and install aluminium opposed blade ducted volume control damper of size 300mm x 300mm or equivalent area for quantity of up to 30 nos.	no	85.00
1674	To supply and install aluminium opposed blade ducted volume control damper of size 350mm x 350mm or equivalent area for quantity of up to 30 nos.	no	126.00
1675	To supply and install aluminium opposed blade ducted volume control damper of size 400mm x 400mm or equivalent area for quantity of up to 30 nos.	no	130.00
1676	To supply and install aluminium opposed blade ducted volume control damper of size 450mm x 450mm or equivalent area for quantity of up to 30 nos.	no	157.00
1677	To supply and install aluminium opposed blade ducted volume control damper of size 500mm x 500mm or equivalent area for quantity of up to 30 nos.	no	162.00
1678	To supply and install aluminium opposed blade ducted volume control damper of size 550mm x 550mm or equivalent area for quantity of up to 30 nos.	no	166.00
1679	To supply and install aluminium opposed blade ducted volume control damper of size 600mm x 600mm or equivalent area for quantity of up to 30 nos.	no	171.00
1680	To supply and install aluminium opposed blade ducted volume control damper of size 150mm x 150mm or equivalent area for quantity of up to 60 nos.	no	74.00
1681	To supply and install aluminium opposed blade ducted volume control damper of size 200mm x 250mm or equivalent area for quantity of up to 60 nos.	no	76.00
1682	To supply and install aluminium opposed blade ducted volume control damper of size 250mm x 250mm or equivalent area for quantity of up to 60 nos.	no	78.00
1683	To supply and install aluminium opposed blade ducted volume control damper of size 300mm x 300mm or equivalent area for quantity of up to 60 nos.	no	80.00
1684	To supply and install aluminium opposed blade ducted volume control damper of size 350mm x 350mm or equivalent area for quantity of up to 60 nos.	no	119.00
1685	To supply and install aluminium opposed blade ducted volume control damper of size 400mm x 400mm or equivalent area for quantity of up to 60 nos.	no	123.00
1686	To supply and install aluminium opposed blade ducted volume control damper of size 450mm x 450mm or equivalent area for quantity of up to 60 nos.	no	148.00
1687	To supply and install aluminium opposed blade ducted volume control damper of size 500mm x 500mm or equivalent area for quantity of up to 60 nos.	no	153.00
1688	To supply and install aluminium opposed blade ducted volume control damper of size 550mm x 550mm or equivalent area for quantity of up to 60 nos.	no	157.00
1689	To supply and install aluminium opposed blade ducted volume control damper of size 600mm x 600mm or equivalent area for	no	161.00

S/No	Description	Unit	Unit Cost (\$)
1690	quantity of up to 60 nos. To supply and install aluminium opposed blade ducted volume control damper of size 150mm x 150mm or equivalent area for quantity of more than 60 nos.	no	66.00
1691	To supply and install aluminium opposed blade ducted volume control damper of size 200mm x 250mm or equivalent area for quantity of more than 60 nos.	no	67.00
1692	To supply and install aluminium opposed blade ducted volume control damper of size 250mm x 250mm or equivalent area for quantity of more than 60 nos.	no	69.00
1693	To supply and install aluminium opposed blade ducted volume control damper of size 300mm x 300mm or equivalent area for quantity of more than 60 nos.	no	71.00
1694	To supply and install aluminium opposed blade ducted volume control damper of size 350mm x 350mm or equivalent area for quantity of more than 60 nos.	no	105.00
1695	To supply and install aluminium opposed blade ducted volume control damper of size 400mm x 400mm or equivalent area for quantity of more than 60 nos.	no	108.00
1696	To supply and install aluminium opposed blade ducted volume control damper of size 450mm x 450mm or equivalent area for quantity of more than 60 nos.	no	131.00
1697	To supply and install aluminium opposed blade ducted volume control damper of size 500mm x 500mm or equivalent area for quantity of more than 60 nos.	no	135.00
1698	To supply and install aluminium opposed blade ducted volume control damper of size 550mm x 550mm or equivalent area for quantity of more than 60 nos.	no	138.00
1699	To supply and install aluminium opposed blade ducted volume control damper of size 600mm x 600mm or equivalent area for quantity of more than 60 nos.	no	142.00
1700	To supply and install weatherproof fresh air grilles of size 150mm x 150mm or equivalent area for quantity of up to 10 nos.	no	79.00
1701	To supply and install weatherproof fresh air grilles of size 200mm x 200mm or equivalent area for quantity of up to 10 nos.	no	80.00
1702	To supply and install weatherproof fresh air grilles of size 250mm x 250mm or equivalent area for quantity of up to 10 nos.	no	90.00
1703	To supply and install weatherproof fresh air grilles of size 300mm x 300mm or equivalent area for quantity of up to 10 nos.	no	100.00
1704	To supply and install weatherproof fresh air grilles of size 350mm x 350mm or equivalent area for quantity of up to 10 nos.	no	115.00
1705	To supply and install weatherproof fresh air grilles of size 400mm x 400mm or equivalent area for quantity of up to 10 nos.	no	130.00
1706	To supply and install weatherproof fresh air grilles of size 450mm x 450mm or equivalent area for quantity of up to 10 nos.	no	145.00
1707	To supply and install weatherproof fresh air grilles of size 500mm x 500mm or equivalent area for quantity of up to 10 nos.	no	160.00
1708	To supply and install weatherproof fresh air grilles of size 550mm x 550mm or equivalent area for quantity of up to 10 nos.	no	180.00
1709	To supply and install weatherproof fresh air grilles of size 600mm x 600mm or equivalent area for quantity of up to 10 nos.	no	200.00

S/No	Description	Unit	Unit Cost (\$)
1710	To supply and install weatherproof fresh air grilles of size 150mm x 150mm or equivalent area for quantity of up to 30 nos.	no	63.00
1711	To supply and install weatherproof fresh air grilles of size 200mm x 200mm or equivalent area for quantity of up to 30 nos.	no	72.00
1712	To supply and install weatherproof fresh air grilles of size 250mm x 250mm or equivalent area for quantity of up to 30 nos.	no	81.00
1713	To supply and install weatherproof fresh air grilles of size 300mm x 300mm or equivalent area for quantity of up to 30 nos.	no	90.00
1714	To supply and install weatherproof fresh air grilles of size 350mm x 350mm or equivalent area for quantity of up to 30 nos.	no	103.00
1715	To supply and install weatherproof fresh air grilles of size 400mm x 400mm or equivalent area for quantity of up to 30 nos.	no	117.00
1716	To supply and install weatherproof fresh air grilles of size 450mm x 450mm or equivalent area for quantity of up to 30 nos.	no	130.00
1717	To supply and install weatherproof fresh air grilles of size 500mm x 500mm or equivalent area for quantity of up to 30 nos.	no	144.00
1718	To supply and install weatherproof fresh air grilles of size 550mm x 550mm or equivalent area for quantity of up to 30 nos.	no	162.00
1719	To supply and install weatherproof fresh air grilles of size 600mm x 600mm or equivalent area for quantity of up to 30 nos.	no	180.00
1720	To supply and install weatherproof fresh air grilles of size 150mm x 150mm or equivalent area for quantity of up to 60 nos.	no	59.50
1721	To supply and install weatherproof fresh air grilles of size 200mm x 200mm or equivalent area for quantity of up to 60 nos.	no	68.00
1722	To supply and install weatherproof fresh air grilles of size 250mm x 250mm or equivalent area for quantity of up to 60 nos.	no	76.50
1723	To supply and install weatherproof fresh air grilles of size 300mm x 300mm or equivalent area for quantity of up to 60 nos.	no	85.00
1724	To supply and install weatherproof fresh air grilles of size 350mm x 350mm or equivalent area for quantity of up to 60 nos.	no	97.00
1725	To supply and install weatherproof fresh air grilles of size 400mm x 400mm or equivalent area for quantity of up to 60 nos.	no	110.50
1726	To supply and install weatherproof fresh air grilles of size 450mm x 450mm or equivalent area for quantity of up to 60 nos.	no	123.00
1727	To supply and install weatherproof fresh air grilles of size 500mm x 500mm or equivalent area for quantity of up to 60 nos.	no	136.00
1728	To supply and install weatherproof fresh air grilles of size 550mm x 550mm or equivalent area for quantity of up to 60 nos.	no	153.00
1729	To supply and install weatherproof fresh air grilles of size 600mm x 600mm or equivalent area for quantity of up to 60 nos.	no	170.00
1730	To supply and install weatherproof fresh air grilles of size 150mm x 150mm or equivalent area for quantity of more than 60 nos.	no	52.50
1731	To supply and install weatherproof fresh air grilles of size 200mm x 200mm or equivalent area for quantity of more than 60 nos.	no	60.00
1732	To supply and install weatherproof fresh air grilles of size 250mm x 250mm or equivalent area for quantity of more than 60 nos.	no	67.50
1733	To supply and install weatherproof fresh air grilles of size 300mm x 300mm or equivalent area for quantity of more than 60 nos.	no	75.00
1734	To supply and install weatherproof fresh air grilles of size 350mm x 350mm or equivalent area for quantity of more than 60 nos.	no	86.00
1735	To supply and install weatherproof fresh air grilles of size 400mm x	no	97.50



S/No	Description	Unit	Unit Cost (\$)
1736	400mm or equivalent area for quantity of more than 60 nos. To supply and install weatherproof fresh air grilles of size 450mm x 450mm or equivalent area for quantity of more than 60 nos.	no	108.00
1737	To supply and install weatherproof fresh air grilles of size 500mm x 500mm or equivalent area for quantity of more than 60 nos.	no	120.00
1738	To supply and install weatherproof fresh air grilles of size 550mm x 550mm or equivalent area for quantity of more than 60 nos.	no	135.00
1739	To supply and install weatherproof fresh air grilles of size 600mm x 600mm or equivalent area for quantity of more than 60 nos.	no	150.00
1740	To supply and install SISIRof approved fire damper without modification of existing hole of size 600mm x 300mm or equivalent area for quantity of up to 10 nos.	no	300.00
1741	To supply and install SISIRof approved fire damper without modification of existing hole of size 1200mm x 300mm or equivalent area for quantity of up to 10 nos.	no	450.00
1742	To supply and install SISIRof approved fire damper without modification of existing hole of size 1500mm x 300mm or equivalent area for quantity of up to 10 nos.	no	600.00
1743	To supply and install SISIRof approved fire damper without modification of existing hole of size 2000mm x 300mm or equivalent area for quantity of up to 10 nos.	no	800.00
1744	To supply and install SISIRof approved fire damper without modification of existing hole of size 1800mm x 400mm or equivalent area for quantity of up to 10 nos.	no	830.00
1745	To supply and install SISIRof approved fire damper without modification of existing hole of size 1900mm x 500mm or equivalent area for quantity of up to 10 nos.	no	870.00
1746	To supply and install SISIR approved fire damper without modification of existing hole of size 2000mm x 600mm or equivalent area for quantity of up to 10 nos.	no	1,150.00
1747	To supply and install SISIR approved fire damper without modification of existing hle of size 600mm x 300mm or equivalent area for quantity of up to 30 nos.	no	270.00
1748	To supply and install SISIR approved fire damper without modification of existing hole of size 1200mm x 300mm or equivalent area for quantity of up to 30 nos.	no	405.00
1749	To supply and install SISIR approved fire damper without modification of existing hole of size 1500mm x 300mm or equivalent area for quantity of up to 30 nos.	no	540.00
1750	To supply and install SISIR approved fire damper without modification of existing hole of size 2000mm x 300mm or equivalent area for quantity of up to 30 nos.	no	720.00
1751	To supply and install SISIR approved fire damper without modification of existing hole of size 1800mm x 400mm or equivalent area for quantity of up to 30 nos.	no	747.00
1752	To supply and install SISIR approved fire damper without modification of existing hole of size 1900mm x 500mm or equivalent area for quantity of up to 30 nos.	no	783.00
1753	To supply and install SISIR approved fire damper without modification of existing hole of size 2000mm x 600mm or equivalent area for quantity of up to 30 nos.	no	1,035.00

S/No	Description	Unit	Unit Cost (\$)
1754	To supply and install SISIR approved fire damper without modification of existing hole of size 600mm x 300mm or equivalent area for quantity of up to 60 nos.	no	255.00
1755	To supply and install SISIR approved fire damper without modification of existing hle of size 1200mm x 300mm or equivalent area for quantity of up to 60 nos.	no	382.00
1756	To supply and install SISIR approved fire damper without modification of existing hle of size 1500mm x 300mm or equivalent area for quantity of up to 60 nos.	no	510.00
1757	To supply and install SISIR approved fire damper without modification of existing hle of size 2000mm x 300mm or equivalent area for quantity of up to 60 nos.	no	680.00
1758	To supply and install SISIR approved fire damper without modification of existing hle of size 1800mm x 400mm or equivalent area for quantity of up to 60 nos.	no	705.00
1759	To supply and install SISIR approved fire damper without modification of existing hole of size 1900mm x 500mm or equivalent area for quantity of up to 60 nos.	no	739.00
1760	To supply and install SISIR approved fire damper without modification of existing hole of size 2000mm x 600mm or equivalent area for quantity of up to 60 nos.	no	977.50
1761	To supply and install SISIR approved fire damper without modification of existing hole of size 600mm x 300mm or equivalent area for quantity of up to 60 nos.	no	225.00
1762	To supply and install SISIR approved fire damper without modification of existing hole of size 1200mm x 300mm or equivalent area for quantity of up to 60 nos.	no	337.50
1763	To supply and install SISIR approved fire damper without modification of existing hole of size 1500mm x 300mm or equivalent area for quantity of up to 60 nos.	no	450.00
1764	To supply and install SISIR approved fire damper without modification of existing hole of size 2000mm x 300mm or equivalent area for quantity of up to 60 nos.	no	600.00
1765	To supply and install SISIR approved fire damper without modification of existing hole of size 1800mm x 400mm or equivalent area for quantity of up to 60 nos.	no	622.50
1766	To supply and install SISIR approved fire damper without modification of existing hole of size 1900mm x 500mm or equivalent area for quantity of up to 60 nos.	no	652.50
1767	To supply and install SISIR approved fire damper without modification of existing hole of size 2000mm x 600mm or equivalent area for quantity of up to 60 nos.	no	862.50
1768	To supply and install SISIR approved fire damper through modification of existing hole of size 600mm x 300mm or equivalent area for quantity of up to 10 nos.	no	350.00
1769	To supply and install SISIR approved fire damper through modification of existing hole of size 1200mm x 300mm or equivalent area for quantity of up to 10 nos.	no	300.00
1770	To supply and install SISIR approved fire damper through modification of existing hole of size 1500mm x 300mm or equivalent area for quantity of up to 10 nos.	no	650.00

S/No	Description	Unit	Unit Cost (\$)
1771	To supply and install SISIR approved fire damper through modification of existing hole of size 2000mm x 300mm or equivalent area for quantity of up to 10 nos.	no	850.00
1772	To supply and install SISIR approved fire damper through modification of existing hole of size 1800mm x 400mm or equivalent area for quantity of up to 10 nos.	no	870.00
1773	To supply and install SISIR approved fire damper through modification of existing hole of size 1900mm x 500mm or equivalent area for quantity of up to 10 nos.	no	920.00
1774	To supply and install SISIR approved fire damper through modification of existing hole of size 2000mm x 600mm or equivalent area for quantity of up to 10 nos.	no	1,200.00
1775	To supply and install SISIR approved fire damper through modification of existing hole of size 600mm x 300mm or equivalent area for quantity of up to 30 nos.	no	315.00
1776	To supply and install SISIR approved fire damper through modification of existing hole of size 1200mm x 300mm or equivalent area for quantity of up to 30 nos.	no	450.00
1777	To supply and install SISIR approved fire damper without modification of existing hole of size 1500mm x 300mm or equivalent area for quantity of up to 30 nos.	no	585.00
1778	To supply and install SISIR approved fire damper without modification of existing hole of size 2000mm x 300mm or equivalent area for quantity of up to 30 nos.	no	765.00
1779	To supply and install SISIR approved fire damper through modification of existing hole of size 1800mm x 400mm or equivalent area for quantity of up to 30 nos.	no	783.00
1780	To supply and install SISIR approved fire damper through modification of existing hole of size 1900mm x 500mm or equivalent area for quantity of up to 30 nos.	no	828.00
1781	To supply and install SISIR approved fire damper through modification of existing hole of size 2000mm x 600mm or equivalent area for quantity of up to 30 nos.	no	1,080.00
1782	To supply and install SISIR approved fire damper through modification of existing hole of size 600mm x 300mm or equivalent area for quantity of up to 60 nos.	no	297.50
1783	To supply and install SISIR approved fire damper through modification of existing hole of size 1200mm x 300mm or equivalent area for quantity of up to 60 nos.	no	425.00
1784	To supply and install SISIR approved fire damper through modification of existing hole of size 1500mm x 300mm or equivalent area for quantity of up to 60 nos.	no	552.50
1785	To supply and install SISIR approved fire damper through modification of existing hole of size 2000mm x 300mm or equivalent area for quantity of up to 60 nos.	no	722.50
1786	To supply and install SISIR approved fire damper through modification of existing hole of size 1800mm x 400mm or equivalent area for quantity of up to 60 nos.	no	739.50
1787	To supply and install SISIR approved fire damper through modification of existing hole of size 1900mm x 500mm or equivalent area for quantity of up to 60 nos.	no	782.00

S/No	Description	Unit	Unit Cost (\$)
1788	To supply and install SISIR approved fire damper through modification of existing hole of size 2000mm x 600mm or equivalent area for quantity of up to 60 nos.	no	1,020.00
1789	To supply and install SISIR approved fire damper through modification of existing hole of size 600mm x 300mm or equivalent area for quantity of more than 60 nos.	no	262.50
1790	To supply and install SISIR approved fire damper through modification of existing hole of size 1200 x 300mm or equivalent area for quantity of more than 60 nos.	no	375.00
1791	To supply and install SISIR approved fire damper through modification of existing hole of size 1500 x 300mm or equivalent area for quantity of more than 60 nos.	no	487.50
1792	To supply and install SISIR approved fire damper through modification of existing hole of size 2000mm x 300mm or equivalent area for quantity of more than 60 nos.	no	637.50
1793	To supply and install SISIR approved fire damper through modification of existing hole of size 1800mm x 400mm or equivalent area for quantity of more than 60 nos.	no	652.50
1794	To supply and install SISIR approved fire damper through modification of existing hole of size 1900mm x 500mm or equivalent area for quantity of up to 60 nos.	no	690.00
1795	To supply and install SISIR approved fire damper through modification of existing hole of size 2000mm x 600mm or equivalent area for quantity of more than 60 nos.	no	900.00
1796	To supply materials and labour to install/replace drip pan (22 gauge galvanized steel sheet) without insulation and coated with anti-rust primer and 2 coats of finishing paint up to 1 sq ft area	no	30.00
1797	To supply materials and labour to install/replace drip pan (22 gauge galvanized steel sheet) without insulation and coated with anti-rust primer and 2 coats of finishing paint up to 2sq ft area	no	45.00
1798	To supply materials and labour to install/replace drip pan (22 gauge galvanized steel sheet) without insulation and coated with anti-rust primer and 2 coats of finishing paint up to 3sq ft area	no	60.00
1799	To supply materials and labour to install/replace drip pan (22 gauge galvanized steel sheet) without insulation and coated with anti-rust primer and 2 coats of finishing paint up to 4sq ft area	no	75.00
1800	To supply materials and labour to install/replace drip pan (22 gauge galvanized steel sheet) without insulation and coated with anti-rust primer and 2 coats of finishing paint up to 5sq ft area	no	90.00
1801	To supply materials and labour to install/replace drip pan (22 gauge galvanized steel sheet) without insulation and coated with anti-rust primer and 2 coats of finishing paint up to 6sq ft area	no	105.00
1802	To supply materials and labour to install/replace drip pan (22 gauge galvanized steel sheet) with anti-rust primer and 2 coats of finishing paint) complete with 1 x 1 lb fibre glass insulation for area up to 1 sq ft.	no	60.00
1803	To supply materials and labour to install/replace drip pan (22 gauge galvanized steel sheet) with anti-rust primer and 2 coats of finishing paint) complete with 1 x 1 lb fibre glass insulation for area up to 2 sq ft	no	75.00
1804	To supply materials and labour to install/replace drip pan (22 gauge	no	90.00

S/No	Description	Unit	Unit Cost (\$)
1805	galvanised steel sheet) with anti-rust primer and 2 coats of finishing paint) complete with 1 x 1 lb fibre glass insulation for area up to 3 sq ft To supply materials and labour to install/replace drip pan (22 gauge galvanised steel sheet) with anti-rust primer and 2 coats of finishing paint) complete with 1 x 1 lb fibre glass insulation for area up to 4 sq ft	no	105.00
1806	To supply materials and labour to install/replace drip pan (22 gauge galvanised steel sheet) with anti-rust primer and 2 coats of finishing paint) complete with 1 x 1 lb fibre glass insulation for area up to 5 sq ft	no	120.00
1807	To supply materials and labour to install/replace drip pan (22 gauge galvanised steel sheet) with anti-rust primer and 2 coats of finishing paint) complete with 1 x 1 lb fibre glass insulation for area up to 6 sq ft	no	135.00
1808	To supply all labour, materials for the overhauling of air-cooled system cooling coil, blower, etc. Non-chemical steam cleaning and painting of rusty parts up to 27,320 Btuh cooling capacity	no	55.00
1809	To supply all labour, materials for the overhauling of air-cooled system cooling coil, blower, etc. Non-chemical steam cleaning and painting of rusty parts up to 61,470 Btuh cooling capacity	no	77.00
1810	To supply all labour, materials for the overhauling of air-cooled system cooling coil, blower <(>&<)> etc with approved chemical) and painting of rusty parts up to 36 kw cooling capacity.	no	8.50
1811	To supply all labour, materials for the overhauling of air-cooled system cooling coil, blower <(>&<)> etc with approved chemical) and painting of rusty parts up to 53 kw cooling capacity.	no	110.00
1812	To supply all labour, materials for the chemical cleaning of air-cooled system cooling coil with approved chemical and painting of rusty parts up to 71 kw cooling capacity	no	132.00
1813	To supply all labour, materials for the chemical cleaning of air-cooled system cooling coil with approved chemical and painting of rusty parts up to 106 kw cooling capacity	no	154.00
1814	To supply all labour, materials for the chemical cleaning of air-cooled system cooling coil with approved chemical and painting of rusty parts up to 141 kw cooling capacity	no	176.00
1815	To supply all labour, materials for the chemical cleaning of air-cooled system cooling coil with approved chemical and painting of rusty parts up to 176 kw cooling capacity	no	198.00
1816	To supply all labour, materials for the chemical cleaning of water cooled direct expansion coil with approved chemical and painting of rusty parts up to 18 kw cooling capacity	no	66.00
1817	To supply all labour, materials for the chemical cleaning of water cooled direct expansion coil with approved chemical and painting of rusty parts up to 36kw cooling capacity	no	71.00
1818	To supply all labour, materials for the chemical cleaning of water cooled direct expansion coil with approved chemical and painting of rusty parts up to 53kw cooling capacity	no	88.00
1819	To supply all labour, materials for the chemical cleaning of water cooled direct expansion coil with approved chemical and painting of rusty parts up to 71kw cooling capacity	no	93.00

S/No	Description	Unit	Unit Cost (\$)
1820	To supply all labour, materials for the chemical cleaning of water cooled direct expansion coil with approved chemical and painting of rusty parts up to 106kw cooling capacity	no	104.00
1821	To supply all labour, materials for the chemical cleaning of water cooled direct expansion coil with approved chemical and painting of rusty parts up to 141kw cooling capacity	no	110.00
1822	To supply all labour, materials for the chemical cleaning of water cooled direct expansion coil with approved chemical and painting of rusty parts up to 176kw cooling capacity	no	121.00
1823	To supply all labour, materials for the chemical cleaning of air-cooled condenser with approved chemical and painting of rusty parts up to 2 RT (7.0kw) cooling capacity	no	70.00
1824	To supply all labour, materials for the overhauling of air-cooled condenser with approved chemical and painting of rusty parts up to 5RT (17.5 kw) cooling capacity	no	90.00
1825	To supply all labour, materials for the overhauling of air-cooled condenser with approved chemical and painting of rusty parts up to 10RT (35.1 kw) cooling capacity	no	100.00
1826	To supply all labour, materials for the overhauling of air-cooled condenser with approved chemical and painting of rusty parts up to 15RT (52.7 kw) cooling capacity	no	120.00
1827	To supply all labour, materials for the chemical cleaning of air-cooled condenser with approved chemical and painting of rusty parts up to 20RT (70.3kw) cooling capacity	no	150.00
1828	To supply all labour, materials for the overhauling of air-cooled condenser with approved chemical and painting of rusty parts up to 30RT (105.5kw) cooling capacity	no	170.00
1829	To supply all labour, materials for the chemical cleaning of air-cooled condenser with approved chemical and painting of rusty parts up to 40RT (140.6 kw) cooling capacity	no	190.00
1830	To supply all labour, materials for the chemical cleaning of air-cooled condenser with approved chemical and painting of rusty parts up to 50RT (175.8kw) cooling capacity	no	210.00
1831	To supply all labour, materials for the chemical cleaning of air-cooled condenser with approved chemical and painting of rusty parts up to 60 RT (21.1 kw) cooling capacity	no	220.00
1832	To supply all labour, materials for the chemical cleaning of air-cooled condenser with approved chemical and painting of rusty parts up to 70 RT (246kw) cooling capacity	no	230.00
1833	To supply all labour, materials for the chemical cleaning of chilled water cooling coils (AHUs and FCUs) with approved chemical and painting of rusty parts up to 4 kw cooling capacity	no	55.00
1834	To supply all labour, materials for the chemical cleaning of chilled water cooling coils (AHUs and FCUs) with approved chemical and painting of rusty parts up to 11kw cooling capacity	no	88.00
1835	To supply all labour, materials for the chemical cleaning of chilled water cooling coils (AHUs and FCUs) with approved chemical and painting of rusty parts up to 18 kw cooling capacity	no	110.00
1836	To supply all labour materials for the chemical cleaning of chilled water cooling coils (AHUs and FCUs) with approved chemical and painting of rusty parts up to 36 kw cooling capacity	no	132.00

S/No	Description	Unit	Unit Cost (\$)
1837	To supply all labour, materials for the chemical cleaning of chilled water cooling coils (AHUs and FCUs) with approved chemical and painting of rusty parts up to 53 kw cooling capacity	no	154.00
1838	To supply all labour, materials for the chemical cleaning of chilled water cooling coils (AHUs and FCUs) with approved chemical and painting of rusty parts up to 71 kw cooling capacity	no	165.00
1839	To supply all labour, materials for the chemical cleaning of chilled water cooling coils (AHUs and FCUs) with approved chemical and painting of rusty parts up to 106 kw cooling capacity	no	176.00
1840	To supply all labour, materials for the chemical cleaning of chilled water cooling coils (AHUs and FCUs) with approved chemical and painting of rusty parts up to 141 kw cooling capacity	no	187.00
1841	To supply all labour, materials for the chemical cleaning of chilled water cooling coils (AHUs and FCUs) with approved chemical and painting of rusty parts up to 176 kw cooling capacity	no	220.00
1842	To supply all labour, materials for the chemical cleaning of chilled water cooling coils (AHUs and FCUs) with approved chemical and painting of rusty parts up to 212 kw cooling capacity	no	253.00
1843	To supply all labour, materials for the chemical cleaning of chilled water cooling coils (AHUs and FCUs) with approved chemical and painting of rusty parts up to 282 kw cooling capacity	no	308.00
1844	To supply all labour, materials for the chemical cleaning of chilled water cooling coils (AHUs and FCUs) with approved chemical and painting of rusty parts up to 352 kw cooling capacity	no	374.00
1845	To supply all labour, materials for the chemical cleaning of chilled water cooling coils (AHUs and FCUs) with approved chemical and painting of rusty parts up to 423 kw cooling capacity	no	440.00
1846	To supply all labour, materials for the chemical cleaning of chilled water cooling coils (AHUs and FCUs) with approved chemical and painting of rusty parts up to 493 kw cooling capacity	no	506.00
1847	To supply all labour, materials for the chemical cleaning of chilled water cooling coils (AHUs and FCUs) with approved chemical and painting of rusty parts up to 563 kw cooling capacity	no	570.00
1848	To supply all labour, materials for the dismantling of chilled water fan coil unit for rewinding of motor with CLASS F insulation, rebushing, chemical cleaning of coil, clearing drain pipe and painting of all rusty parts and drip pan	no	440.00
1849	To supply all labour, materials for the chemical cleaning of air-cooled condenser with approved chemical and painting of rusty parts up to 80 RT (281 kw) cooling capacity	no	240.00
1850	To supply all labour, materials for the chemical cleaning of air-cooled condenser with approved chemical and painting of rusty parts up to 90RT and above (316kw) cooling capacity	no	270.00
1851	N.A.		
1852	N.A.		
1853-	N.A.		
1862			
1863	To supply all labour, chemical and submit monthly water treatment report for cooling towers 950RT & above	no	1,500.00
1864-	N.A.		
1866			

S/No	Description	Unit	Unit Cost (\$)
1867-1877	N.A.		
1878	To supply all labour, chemical for the water treatment of chilled water system (monthly) for central chiller plant	No	260.00
1879	To supply all labour, materials and transport to loan and install chemical dosing pump c/w chemical tank for cooling tower.	no	200.00
1880	To supply all labour, materials and transport to collect cooling tower water or fresh water samples to SGH/PSB Lab or any authorities approved Lab for testing of Legionella bacteria with test report.	no	150.00
1881	To supply all labour, materials and transport to collect cooling tower samples to SGH/PSB Lab or any authorities approved Lab for standard plate count test with test report (per sample).	no	50.00
1882	To supply and replace biocide/corrosion chemical dosing pump of max capacity fo up to 1.1 1/hr and max pressure of 15 bar c/w fittings and wirings including testing and commissioning.	no	450.00
1883	To supply and replace biocide/corrosion chemical dosing pump of max capacity fo up to 2.1 1/hr and max pressure of 25 bar c/w fittings and wirings including testing and commissioning.	no	650.00
1884	To supply and replace a solenoid valve oc 1/2" for bleeding in a water treatment system c/w fittings and wirings	no	180.00
1885	To supply and replace a conductivity controller including testing and commissioning for water treatment system	no	1,100.00
1886	To cut through reinforcement concrete floor or wall to form openingup to 0.02cu m.	no	45.00
1887	To cut through reinforcement concrete floor or wall to form openingup to 0.05cu m.	no	60.00
1888	To cut through reinforcement concrete floor or wall to form openingup to 0.1cu m.	no	100.00
1889	To cut through reinforcement concrete floor or wall to form openingup to 0.15cu m.	no	150.00
1890	To cut through reinforcement concrete floor or wall to form openingup to 0.2cu m.	no	200.00
1891	To cut through reinforcement concrete floor or wall to form openingup to 0.3cu m.	no	250.00
1892	To cut through reinforcement concrete floor or wall to form openingup to 0.4cu m.	no	300.00
1893	To cut through reinforcement concrete floor or wall to form openingup to 0.5cu m.	no	350.00
1894	To cut through reinforcement concrete floor or wall to form openingup to 0.6cu m.	no	400.00
1895	To supply labour, materials, transport and tools to cut through brickwall to form opening up to 0.02 cu m.	no	40.00
1896	To supply labour, materials, transport and tools to cut through brickwall to form opening up to 0.05 cu m.	no	54.00
1897	To supply labour, materials, transport and tools to cut through brickwall to form opening up to 0.10 cu m.	no	80.00
1898	To supply labour, materials, transport and tools to cut through brickwall to form opening up to 0.15 cu m.	no	120.00
1899	To supply labour, materials, transport and tools to cut through brickwall to form opening up to 0.20 cu m.	no	140.00
1900	To supply labour, materials, transport and tools to cut through	no	175.00



S/No	Description	Unit	Unit Cost (\$)
1901	brickwall to form opening up to 0.30 cu m. To supply labour, materials, transport and tools to cut through brickwall to form opening up to 0.40 cu m.	no	210.00
1902	To supply labour, materials, transport and tools to cut through brickwall to form opening up to 0.50 cu m.	no	245.00
1903	To supply labour, materials, transport and tools to cut through brickwall to form opening up to 0.60 cu m.	no	280.00
1904	To supply labour, materials, transport and tools to patch up opening for pipes /conduits with waterproof cement and sand mortar up to 100mm diameter.	no	10.00
1905	To supply labour, materials, transport and tools to patch up opening for pipes /conduits with waterproof cement and sand mortar up to 205mm diameter.	no	14.00
1906	To supply labour, materials, transport and tools to patch up opening for pipes /conduits with waterproof cement and sand mortar up to 305mm diameter.	no	20.00
1907	To prepare wall surface and apply one base coat of 20% dilution of synthetic emulsion paint and one finishing coat of synthetic emulsion paint to wall of handling unit room of any colour approved by SO.	m2	2.40
1908	To seal up louvred panels, holes etc with 6mm thick master board (calcium silicated matric reinforced with cellulose).	m2	26.00
1909	To seal up louvred panels, holes etc with 6mm thick waterproof plywood.	m2	12.00
1910	To seal up louvred panels, holes etc with brick and cement plaster (wall thickness up to 225mm).	m2	20.00
1911	To supply labour, materials, transport and tools to patch up opening for pipes /conduits with waterproof cement and sand mortar up to 100mm diameter.	m2	45.00
1912	To supply and erect steel staging of height from 3m high but not exceeding 5m high and remove after use and clearing debris off site.	no	56.00
1913	To supply and erect steel staging of height from 5m high but not exceeding 7m high and remove after use and clearing debris off site.	no	77.00
1914	To supply and erect steel staging of height from 7m high but not exceeding 10m high and remove after use and clearing debris off site.	no	101.00
1915	To supply and install stainless steel plain latch used for securing AHU and Cooling Tower access panels and fastened with bolts and nuts to SO's approval.	no	32.00
1916	To supply and install stainless steel plain latch used for securing AHU and Cooling Tower access panels and fastened with screws or rivets to SO's approval.	no	30.00
1917	To provide monthly servicing inspection for chilled water fan coil unit as per spec and attending complaint calls (unlimited) for addition or omission unit for central air-con system. Cost per unit per service per month.	no	6.00
1918	To provide monthly servicing inspection for AHU as per spec and attending complaint calls (unlimited) for addition or omission unit for central air-con system. Cost per unit per service per month.	no	20.00

S/No	Description	Unit	Unit Cost (\$)
1919	To provide monthly servicing inspection for MVF inclusive of cleaning, checking of control check and adjust alignment of all drive, greasing all bearings etc, housekeeping for addition or omission unit. Cost per unit per service per month.	no	4.00
1920	To provide monthly servicing inspection for water pumps as per spec and attending complaint calls (unlimited) for addition or omission unit for central air-con system. Cost per unit per service per month.	no	40.00
1921	To provide monthly servicing inspection for cooling towers as per spec and attending complaint calls (unlimited) for addition or omission unit for central air-con system. Cost per unit per service per month.	no	80.00
1922	To provide monthly servicing inspection for chillers as per spec and attending complaint calls (unlimited) for addition or omission unit for central air-con system. Cost per unit per service per month.	no	400.00
1923	To provide rental of elevated platform (min 2 hours) for access to high places including all necessary fuel, operator/driver, parking, ALS, clearance with traffic police etc.	trip	400.00
1924	To provide mobile crane for hoisting air-con equipment to/from roof top of building including operator.	trip	400.00
1925	Service to provide for preparation of drawing (tracing, drafting etc) for negative of AO size (1189mm x 841mm)	no	120.00
1926	Service to provide for preparation of drawing (tracing, drafting etc) for negative of A1 size (594mm x 841mm)	no	55.00
1927	Service to provide for preparation of drawing (tracing, drafting etc) for negative of A2 size (594mm x 841mm)	no	40.00
1928	Service to provide for preparation of drawing (tracing, drafting etc) for negative of A3 size (297mm x 841mm)	no	30.00
1929	To supply and provide printed drawing of paper size AO (1189mm x 841mm)	no	5.50
1930	To supply and provide printed drawing of paper size A1 (594mm x 841mm)	no	4.50
1931	To supply and provide printed drawing of paper size A2 (420mm x 841mm)	no	2.50
1932	To supply and provide printed drawing of paper size A3 (297mm x 420mm)	no	1.50
1933-1936	N.A.		
1937	Replacement of fan motor shaft up to 0.75kw (1 HP)	no	50.00
1938	Washable netting filter with permanent filter permanent plastic frame - all sizes (original for split unit air-conditioner)	no	18.00
1939	Aluminium filter frame up to 2.8 feet sq (20 x 20)	no	18.00
1940	Aluminium filter frame up to 4 feet sq (24 x 24)	no	25.00
1941	To repair/fabricate housing (condenser, condenser FCU) with 22 gauge galvanised steel sheet coated with anti-rust primer and paint. Min cost for area which is less than 2 sq feet (include labour).	lot	30.00
1942	To repair/fabricate housing (condenser, condenser FCU) with 22 gauge galvanised steel sheet coated with anti-rust primer and paint. Addition cost above 2 sq feet (include labour).	lot	35.00
1943	To re-insulate 1 x 2 lb fibreglass insulation. Min cost for area which is less than 5 sq m (include labour).	lot	75.00

S/No	Description	Unit	Unit Cost (\$)
1944	To re-insulate 1 x 2 lb fibreglass insulation addition. A.I cost above 5 sq m (include labour).	m2	15.00
1945	Smoke detector with sensitivity of 1.8%	no	250.00
1946	To supply/replace 3 core wire x 16/0076	m	1.50
1947	To supply/replace 3 core wire x 40/0076	m	2.00
1948	To supply/replace 3 core wire x 70/0076	m	3.00
1949	Spray painting fo existing grilles or diffusers with face area equal or less than 3.06 sq ft (21 x 21) including removal from site for scrapping and painting and fixing back.	no	35.00
1950	Spray painting fo existing grilles or diffusers with face area more than 3.06 sq ft (21 x 21) up to 9.0 sq ft (3 x 3) including removal from site for scrapping and painting and fixing back.	no	50.00
1951	To replace the insulation for copper piping, pvc drain pipe etc with rigid polyurethane foam machine injected into the annulus bewtween pipe and 24 gauge aluminium jacketing (density 48kg/m3), thermal conductivity 0.023 w/m k or lower at 23 deg C, service temp -50 to 140 deg C) up to 35mm (1 3/8") dia with min 1 1/2" (38mm) thickness & 2 pvc pipes in one jacketing.	no	40.00
1952	Low temp control - Penn CNT-003E	no	331.90
1953	Low pressure - CNT-017E	no	147.65
1954	High pressure - CNT-019E	no	151.40
1955	Oil pressure - CNT-016E	no	497.60
1956	Pilot light green - LIT 002E	no	16.90
1957	Pilot light red - LIT 004E	no	17.80
1958	Fuse 6 amp - FUS 020E	no	54.30
1959	Relay time delay - RLY 048E	no	139.60
1960	TPA part for RLY 048E - RLY 050E	no	271.00
1961	Timer - RLY 097E	no	207.50
1962	Contactore - CTR 059E	no	378.20
1963	Overload - RLY 006E	no	374.80
1964-1982	N.A.		
1983	Collect chiller oil sample & test report	sample	400.00
1984	To supply and replace O-ring 015-02354-008 / 028-13837	no	14.30
1985	To supply and replace oil filter c/w O-ring part no 026-31654-000 and 026-32000-000	no	420.00
1986	To supply and replace oil return educator part no 366-78307-000	no	1,628.70
1987	To supply and replace solenoid valve part no 025-20996-000	no	1,007.40
1988	To supply and replace solenoid control part no 025-28721-000/025-30464-000	no	1,807.60
1989	To supply and replace transducer, evaporator pressure part no 025-28678-001	no	659.80
1990	To supply and replace transducer, oil pressure part no 025-28678-002	no	659.80
1991	To supply and replace sensor, oil and discharge part no 025-28936-000	no	287.50
1992	To supply and replace oil heater thermostat part no 024-25500-000	no	876.80
1993	To supply and replace water BOX gasket part no 028-09951-000	m	38.76
1994	To supply and replace water temp sensor part no 025-29964-000	no	107.50
1995	To supply and replace relay part no 024-23962-000	no	66.70
1996	To supply and replace transformer part no 025-27911-000, 025-	no	231.90

S/No	Description	Unit	Unit Cost (\$)
	30889-000		
1997	To supply and replace Fuse 5 amp part no 025-14019-000	no	7.70
1998	To supply and replace Fuse 15 amp part no 025-14834-000	no	10.00
1999	To supply and replace Fuse 20 amp part no 025-29186-000	no	13.30
2000	To supply and replace control micro board part no 031-01065-001/031-01065-002	no	6,650.00
2001	To supply and replace control power supply part no 031-01080-000	no	1,132.10
2002	To supply and replace control digital input part no 031-00935-000	no	11,370.70
2003	To supply and replace control logic board part no 031-00936-003	no	3,467.42
2004	To supply and replace shaft seal assembly part no 015-02354-003	no	1,664.50
2005	To supply and replace shaft seal assembly part no 015-02352-003	no	2,391.20
2006	To supply and replace oil heater part no 025-29119-000	no	270.70
2007	To supply and replace oil level switch part no 024-25500	no	876.80
2008	To supply and replace control high pressure part no 025-28690-000	no	446.80
2009	To supply and replace potentiometer part no 015-02352-016	no	974.50
2010	To supply and replace Filter Drier 1/2 Dia. Part No.026-31563 (026-32358)	no	97.00
2011	To supply and replace Filter Drier 5/8 Dia. Part No.026-32020	no	97.00
2012	To supply and replace Valve Relief 1/2 NPTE Part No.022-04484	no	685.70
2013	To supply and replace Rupture Disc c/w Gasket Part No. 026-09353/ (075-02357)	no	400.50
2014	To supply and replace York C Compressor Oil Part No. 011-00312-000 for (size SO, S1 & S2) - R22	no	275.00
2015	To supply and replace York S Compressor Oil (S3/S4) Part No. 011-00922	no	958.00
2016	To supply all labour, materials, tools and transportation to replace Compressor Oil York K Oil 011-00533	no	757.00
2017	To supply and replace Thrust Bearing Kit Part No. 0042683	no	2,932.50
2018	To supply and replace Roller Bearing Kit Part No. 0004406/7	no	2,274.00
2019	To supply and replace Gasket Overhaul Kit Part No. 0055601	no	840.00
2020	To supply and replace O-Ring Part No. 026-32001	no	41.00
2021	To supply and replace Check Valve, Compressor	no	1,400.00
2022	To supply and replace Oil Separator Gasket Compressor	no	520.00
2023	To supply and replace Oil Cooler	no	825.20
2024	To supply and replace O-Ring Oil Gasket	no	7.00
2025	To supply all materials, labour, tools and transportation to replace Oil Filter for YORK YK Chiller 026-32386-000	no	207.00
2026	To supply all materials, labour, tools and transportation to replace Oil Filter for YORK YK Chiller 028-08312-003	no	32.00
2027	To supply all materials, labour, tools and transportation to replace Oil Filter for YORK YK Chiller 026-13508-000	no	117.40
2028	To supply all materials, labour, tools and transportation to replace Oil Filter for YORK YK Chiller 029-16764-000	no	213.70
2029	To supply all materials, labour, tools and transportation to replace Oil Filter for YORK YK Chiller 013-02987	no	311.30
2030	To supply all materials, labour, tools and transportation to replace Oil Filter for YORK YK Chiller 011-00549	no	793.00
2031	To supply all materials, labour, tools and transportation to replace Oil Filter for YORK YK Chiller 026-32020	no	97.00
2032	To supply all materials, labour, tools and transportation to replace Oil Filter for YORK YK Chiller 026-31654	no	356.00

S/No	Description	Unit	Unit Cost (\$)
2033	To supply all materials, labour, tools and transportation to replace Oil Filter for YORK YK Chiller 026-32000	no	60.00
2034	Nitrogen Gas	cylinder	40.00
2035	Refrigerant R-11 Levy Included	lb	6.80
2036	Refrigerant R-12 Levy Included	lb	6.80
2037	Compressor Oil (18 Litre per pail)	pail	520.00
2038	Vacuum Pump Oil	tube	31.10
2039	Sealerstiv Tape	roll	22.00
2040	N.A.		
2041	Refrigerant R-134a	lb	5.20
2042	To Supply and Replace Oil Filter c/w Gasket Part No 026-11225/028-08312	no	187.00
2043	To Supply and Replace Oil Eductor Filter Drier Part No 026-14777-07	no	97.00
2044	To Supply and Replace Oil Return Eductor Part No 364-18241	no	786.80
2045	To Supply and Replace Oil Pump Starter Part No 024-19119-002	no	687.80
2046	To Supply and Replace High Pressure Control Part No 025-14385	no	305.90
2047	To Supply and Replace Overload Element Part No 024-20092	no	78.30
2048	To Supply and Replace Float Switch Part No 024-16306	no	911.70
2049	To Supply and Replace Solenoid Valve for S2/S3 Compressor Part No 025-29137	no	313.80
2050	To Supply and Replace Foul Gas Filter Drier Part No 026-28173	no	76.00
2051	To Supply and Replace 3-Way Valve Solenoid Part No 025-16988	no	655.40
2052	To Supply and Replace Check Valve 1/4 Part No 022-03902	no	134.60
2053	To Supply and Replace Purge Filter Drier Part No 026-14777-007	no	97.00
2054	To Supply and Replace Flow Switch Part No 024-15793	no	840.70
2055	To Supply and Replace Condenser Transducer Part No 025-29148-001	no	659.80
2056	To Supply and Replace Evaporator Transducer Part No 025-29148-002	no	659.80
2057	To Supply and Replace Water BOX Gasket Part No 028-09951	no	11.80
2058	To Supply and Replace Oil Transducer (Low) Part No 025-29148-003	no	659.80
2059	To Supply and Replace Oil Transducer (High) Part No 025-29148-003	no	659.80
2060	To Supply and Replace Water Temperature Sensor Part No 025-28935/025-29964	no	107.50
2061	To Supply and Replace Relay Part No 024-23962	no	66.70
2062	To Supply and Replace Transformer Part No 025-27911	no	231.90
2063	To Supply and Replace Fuse 5 Amp Part No 025-14019	no	7.70
2064	To Supply and Replace Fuse 15 Amp Part No 025-14384	no	10.00
2065	To Supply and Replace Control Micro Board Part No 031-00940-001	no	5,297.50
2066	To Supply and Replace Control Power Supply Part No 031-01080	no	1,260.90
2067	To Supply and Replace Control Digital Input Part No 031-00935	no	1,130.70
2068	To Supply and Replace Control Relay Board Part No 031-00932-001	no	1,157.60
2069	To Supply and Replace Keyboard Switch Part No 024-24606	no	549.10
2070	To Supply and Replace Display Board Part No 031-00775-001	no	1,698.60
2071	To Supply and Replace Control Current Module Part No 031-00947	no	2,252.00
2072	To Supply and Replace Control Current Module Part No 031-00936-	no	3,467.40

S/No	Description	Unit	Unit Cost (\$)
2073	003 To Supply and Replace Oil/Discharge Temp Sensor Part No 025-28936	no	287.50
2074	To Supply and Replace Bearing Kit Part No 464-46887	no	23,963.20
2075	To Supply and Replace Shaft Seal Kit Part No 464-46874	no	1,788.30
2076	To Supply and Replace Gasket Kit Part No 364-47163	no	785.70
2077	To Supply and Replace Equalize Solenoid Valve Part No 025-25935 (025-28988)	no	687.10
2078	To Supply and Replace Oil Pump Assembly Part No 026-28158	no	9,495.10
2079	To Supply and Replace Oil Heater Part No 025-09445	no	1,427.00
2080	To Supply and Replace Thermostat Part No 024-23990	no	367.10
2081	To Supply and Replace Valve Relief Valve 3/4 Part No 022-06801	no	925.90
2082	To Supply and Replace PRV Motor Part No 025-17175	no	3,557.20
2083	To Supply and Replace Impeller Part No	no	10,780.00
2084	To Supply and Replace Motor Bearing Set Part No	no	880.00
2085	To Supply and Replace Water Pump Part No 026-31070	no	848.40
2086	To Supply and Replace Control Trigger Board Part No 031-00925-003 (371-01450-003)	no	5,901.10
2087	To Supply and Replace SCR Assy Part No 371-01085-004 (375-03048-004)	no	6,889.59
2088	To Supply and Replace S.S.S.Fuse 15A Part No 025-25584	no	53.10
2089	To Supply and Replace S.S.S.Fuse 4A Part No 025-27973	no	10.60
2090	To Supply and Replace S.S.S. Sensor Part No 025-27652	no	310.20
2091	To Supply and Replace S.S.S. Transformer Part No 025-26294	no	1,929.50
2092	To Supply and Replace Oil Filter Gasket Part No.	no	7.00
2093	Supply and Replace O-Ring for 025-30961-000 028-12513-000	no	2.20
2094	Supply and Replace Evaporator Refrigerant Temperature Sensor Straight Threads 025-34159-000	no	202.10
2095	Supply and Replace Oil Gasket - Pintype Cartridges (2 pcs) 028-08312-005	no	32.00
2096-2107	Supply and Replace - Oil Filter Drive 026-32386-000 (2 nos)	no	207.00
2108-2124	N.A.		
2125	Supply and Replacement of O Ring Baby Transmission KK-71EW-263	no	26.41
2126	Supply and Replacement of O Ring Oil Pump KK-71EW-268	no	21.66
2127	Supply and Replacement of O Ring Inner KK-71EW-449	no	32.30
2128	Supply and Replacement of O Ring Otter Diff KK-71EW-463	no	69.16
2129	Supply and Replacement of O Ring Comp KK-71EW-463	no	84.17
2130	Supply and Replacement of O Ring Motor Cover KK-71EW-470	no	88.92
2131	Supply and Replacement of O Ring Suction Housing KK-71EW-471	no	160.55
2132	Supply and Replacement of Impeller Spacer 02XB3500-6801	no	558.60
2133	Supply and Replacement of Impeller Key 19HR212-1042	no	195.70
2134	Supply and Replacement of Sealing Washer AU-52N.A.-171	no	22.80
2135	Supply and Replacement of Impeller Washer 02XB0500-2701	no	15.39
2136	Supply and Replacement of Oil Heater Gasket 19XB-680-005	no	88.35
2137	Supply and Replacement of Suction Gasket 19XB5500-2503	no	53.01
2138	Supply and Replacement of O Ring Demister KK-71EW-229	no	6.08
2139	Supply and Replacement of O Ring Discharge Line 19XB5500-2502	no	53.01
2140	Supply and Replacement of O Laby, Rotor Shaft 02XB3400-7501	no	5,371.30

S/No	Description	Unit	Unit Cost (\$)
2141	Supply and Replacement of Bearing Compressor Gear End 02XB3502-7201	no	3,826.60
2142	Supply and Replacement of Bearing Drive End rotor 02XB3502-2401	no	3,919.70
2143	Supply and Replacement of Hi-speed Shaft Bearing 02XB3502-7301	no	2,669.50
2144	Supply and Replacement of Thrust & Shaft Assembly 19XL-660-012	no	22,923.50
2145	Supply and Replacement of Ring Seal 02XB3501-5901	no	706.80
2146	Supply and Replacement of Bearing Assembly 02XB-660-003	no	6,513.20
2147	Supply and Replacement of Pad Packaged Adjusting 19-D-23-841	no	383.80
2148	Supply and Replacement of Thrust Shoe Assembly 19DA-23-203	no	2,114.70
2149	Supply and Replacement of Guide Vane O Ring KK-71EW-228	no	5.70
2150	Supply and Replacement of V Ring Set Outter KK-71HT-014	no	46.93
2151	Supply and Replacement of V Ring Set Inner KK71HT-016	no	84.93
2152	Supply and Replacement of Seal Nylon 1aEA-4101931	no	22.04
2153	Supply and Replacement of Filter Kit 02XB660-004	no	260.30
2154	Supply and Replacement of O Ring KK-71EW-023	no	3.80
2155	Supply and Replacement of O Ring KK-71EW-134	no	4.75
2156	Supply and Replacement of O Ring KK-71EW-165	no	28.88
2157	Supply and Replacement of O Ring KK-71EW-223	no	3.04
2158	Supply and Replacement of O Ring KK-71EW-256	no	25.46
2159	Supply and Replacement of Condenser W/B Gasket 09XB5500-1801	no	122.36
2160	Supply and Replacement of Cooler W/B Gasket 10XB5500-1801	no	122.36
2161	Supply and Replacement of Filter KH-42ME-060	no	136.99
2162	Supply and Replacement of Filter Drier ALCO-EK-605-1	no	131.86
2163	Supply and Replacement of Compressor Oil R134A P903-1005	no	520.00
2164	Supply and Replacement of Lo Voltage TermiN.A.I HY-85AA-062	no	444.60
2165	Supply and Replacement of Actuator Motor HF-26BB-024	no	3,100.80
2166	Supply and Replacement of SMM CES0121319-01	no	3,737.30
2167	Supply and Replacement of PS10 19XB-0400-85011	no	6,370.70
2168	Supply and Replacement of LID CES0130036	no	10,792.00
2169	Supply and Replacement of Temp Sensor HH-79N2-047	no	127.10
2170	Supply and Replacement of Cable Temp Sensor HH-79NZ-048	no	54.90
2171	Supply and Replacement of Pressure Transducer HK-05YZ-002	no	636.50
2172-2445	N.A.		
2446	Supply labour/tools to clean condenser tube (ASD) up to 750RT. 1. To lubricate the motor bearings (chiller) 2. To check the solid state starter connections and tightness 3. To service the starter cooling pumps and check the cooling system, refill when necessary and operation 4. To perform leaks test using system pressure, check controls and recalibration if necessary 5. To megger and check tightness of the chiller motor termiN.A.Is 6. To drain out water from the condenser unit 7. To remove the non-piping end of the condenser water box cover 8. To clean the tubes using brushes by manual or machine 9. To apply anti-rust paint for the interN.A.I part of the water box cover 10. To replace water box gasket and fix back the cover 11. To fill up water and commissioning the system.	job	860.00
2447	Supply labour/tools to clean tube (ASD) up to 1500RT. 1. To drain out water from the cooler unit 2. To remove cooler water box cover	job	1200.00

S/No	Description	Unit	Unit Cost (\$)
	3. To clean the tubes using brushes by manual or machine 4. To apply antirust paint for the interN.A.I part of the water box cover 5. To replace water box gasket and fix back the cover 6. To reinsulate the damaged insulation parts 7. To fill up water and commissioning the system.		
2448	Skilled Tradesman (eg concretor, steel e.g. concretor, steel bender, mason, electrician, mechanic, plumber, painter, carpenter, plasterer, tiler, welder, etc.	hr	12.00
2449	Supervisor (between 8.30am to 6.00pm, from Monday to Saturday)	hr	30.00
2450-2452	N.A.		
2453	Supply Engineer between 0800 hrs to 1800 hrs on weekdays	hr	32.00
2454	Supply Supervisor/Technical officer between 0800 hrs to 1800 hrs on weekdays	hr	22.00
2455	Supply Senior Technician/Technician between 0800 hrs to 1800 hrs on weekdays	hr	12.00
2456	Supply Engineer between 1801 hrs to 0759 hrs on weekdays and full day (Sat/Sun/PH)	hr	40.00
2457	Supply Supervisor/Technical officer between 1801 hrs to 0759 hrs on weekdays and full day (Sat/Sun/PH)	hr	30.00
2458	Supply Senior Technician/Technician between 1801 hrs to 0759 hrs on weekdays and full day (Sat/Sun/PH)	hr	20.00
2459	To supply all materials, labour and transport for installation / replacement of motorized butterfly valve c/w electrical actuator up to size 105mm	no	930.00
2460	To supply all materials, labour and transport for installation / replacement of motorized butterfly valve c/w electrical actuator up to size 155mm	no	1,110.00
2461	To supply all materials, labour and transport for installation / replacement of motorized butterfly valve c/w electrical actuator up to size 205mm	no	1,680.00
2462	To supply all materials, labour and transport for installation / replacement of motorized butterfly valve c/w electrical actuator up to size 255mm	no	1,980.00
2463	To supply all materials, labour, tools, equipment and transport for steam cleaning of the cooling coil of the air-handling unit (AHU) of any capacities and sizes	no	70.00



**PRICE SCHEDULE OF RATES III – ELECTRICAL WORKS****1. MAINTENANCE, REPAIRS, ADDITIONS & ALTERATIONS**

<b>S/No</b>	<b>Description</b>	<b>Unit</b>	<b>Unit Cost (\$)</b>
1	Ceiling/Pendant/Bracket light pt c/w 5 amp SP flush moulded switch and moulded box.	no	24.00
2	Ceiling/Pendant/Bracket light pt without switch.	no	20.00
3	Ceiling/Pendant/Bracket light pt c/w 5 amp 2 way SP flush moulded switch and moulded box.	no	30.00
4	Spotlight pt c/w 5 amp SP flush moulded switch and moulded box.	no	30.00
5	Bracket wall fan pt c/w 5 amp SP flush moulded switch and moulded box, fan mounting block etc.	no	24.00
6	Ceiling fan pt c/w 5 amp flush moulded switch and moulded box, regulator mounting block and fan hook.	no	36.00
7	Exhaust fan pt c/w 5 amp flush moulded switch and moulded box etc.	no	24.00
8	Power socket outlet pt c/w 13 amp single gang switch socket outlet and moulded box (including ring circuits).	no	40.00
9	Power socket outlet pt c/w 15 amp round pin flush type switch socket outlet and moulded box.	no	50.00
10	Power socket outlet pt c/w 13 amp twin flush type switch socket outlet and moulded box (including ring circuits).	no	50.00
11	Electric clock pt c/w fuse connector.	no	24.00
12	Water heater pt c/w 20A DP switch with neon indicator and fused connection unit.	no	50.00
13	Power socket outlet pt c/w 20 amp DP switch with neon indicator and 15 amp socket outlet adjacent to air- conditioner.	no	60.00
14	Power socket outlet pt c/w 20 amp DP switch with neon indicator and 15 amp socket outlet, 3-way connector and teak block (180mm x 200mm x 32mm) w/o starter.	no	80.00
15	Red toggle of switch instead of white toggle of switch (additional cost).	no	3.00
16	Additional neon light for any moulded socket outlet plate or switch plate.	no	4.00
17	Hand dryer point c/w 13A single gang switch socket outlet and moulded box, 3-pin plug.	no	32.00
18	Telephone pt c/w socket or faceplate (RJ11 or RJ45) with base.	no	15.00
19	Power socket outlet pt c/w 13 amp single gang switch socket outlet and moulded box (including ring circuits) but not exceeding 40M.	no	150.00
20	Power socket outlet pt c/w 15 amp single gang switch socket outlet and moulded box (including ring circuits) but not exceeding 40M.	no	140.00
21	Supply and Install Ceiling Pendent/Bracket light point c/w 5Amp 1/2 way SP switch, flush moulded box, in PVC trunking/conduit, 3x1 core 11.5mm <sup>2</sup> PVC cable of above 50m run.	lot	100.00
22	Supply and Install power point c/w 2 x 13Amp switch socket outlet, flush moulded box, in PVC trunking/conduit, 6x1 core 2.5mm <sup>2</sup> PVC cable of above 40m run, including ring circuit.	lot	180.00
23	Power Socket outlet point c/w 20 amp DP shuttered combined metal switch socket but not exceeding 40M metal clad switch with neon indicator and 15 amp socket outlet adjacent to air-condition but not exceeding 40M.	no	259.00
24	Not in use		
25	Not in use		
26	Spotlight pt c/w 5 amp SP surface type metal clad switch.	no	42.00

S/No	Description	Unit	Unit Cost (\$)
27	Bracket wall fan pt c/w 5 amp SP surface type metal clad switch, teak block and necessary accessories.	no	34.00
28	Ceiling fan pt c/w 5 amp surface type metal clad switch, fan hook, teak block for mounting regulator etc.	no	50.00
29	Power socket outlet pt c/w 3-pin & 13 amp shuttered combined metal clad switched socket outlet (including ring circuits).	no	45.00
30	Power socket outlet pt c/w 3-pin 15 amp shuttered combined metal clad switch socket outlet.	no	70.00
31	Electric clock pt c/w fuse connector.	no	34.00
32	Power socket outlet pt c/w 13 amp shuttered type twin combined metal clad switch socket outlet (including ring circuit)	no	53.00
33	Water heater pt c/w 20 amp DP switch with neon indicator light and fused connection unit.	no	70.00
34	Power socket outlet pt c/w 20 amp DP metal clad switch with neon indicator and 15 amp socket outlet adjacent to air- conditioner.	no	84.00
35	Power socket outlet pt c/w 20 amp DP switch with neon indicator lamp and 15 amp socket outlet, 3-way connector and teak block of size 180mm x 260mm x 32mm w/o starter.	no	112.00
36	Additional neon light for any moulded socket outlet plate or switch plate.	no	4.00
37	Power socket outlet pt c/w 20 amp DP shuttered combined metal clad switch socket but not exceeding 40M metal clad switch with neon indicator and 15 amp socket outlet adjacent to air-condition but not exceeding 40M.	no	259.00
38	1 x 1 sq mm PVC/PVC insulated cable.	m	0.35
39	1 x 1.5 sq mm PVC/PVC insulated cable.	m	0.45
40	1 x 2.5 sq mm PVC/PVC insulated cable.	m	0.60
41	1 x 4 sq mm PVC/PVC insulated cable.	m	0.75
42	1 x 6 sq mm PVC/PVC insulated cable.	m	1.40
43	1 x 10 sq mm PVC/PVC insulated cable.	m	1.70
44	1 x 16 sq mm PVC/PVC insulated cable.	m	2.60
45	1 x 25 sq mm PVC/PVC insulated cable.	m	3.80
46	1 x 35 sq mm PVC/PVC insulated cable.	m	5.30
47	1 x 50 sq mm PVC/PVC insulated cable.	m	6.75
48	1 x 70 sq mm PVC/PVC insulated cable.	m	9.30
49	1 x 95 sq mm PVC/PVC insulated cable.	m	13.60
50	1 x 120 sq mm PVC/PVC insulated cable.	m	15.50
51	1 x 150 sq mm PVC/PVC insulated cable.	m	18.60
52	1 x 185.0mm <sup>2</sup> PVC insulated cable.	m	23.50
53	1 x 240 sq mm PVC/PVC insulated cable.	m	30.00
54	1 x 300 sq mm PVC/PVC insulated cable.	m	39.00
55	1 x 630 sq mm PVC/PVC insulated cable.	m	78.00
56	1 x 1 sq mm PVC insulated cable.	m	0.30
57	1 x 1.5 sq mm PVC insulated cable.	m	0.40
58	Supply and Install Ceiling/Pendent/Bracket light point c/w 5Amp 1/2 way SP metal clad switch, flush moulded box, in GI steel conduit, 3x1 core 1.5mm <sup>2</sup> PVC cable above 50m run.	lot	140.00
59	Supply and Install power point c/w 2 x 13Amp metal clad switch socket outlet, flush moulded box, in GI steel conduit, 6x1 core 2.5mm <sup>2</sup> PVC cable of above 40m run, including ring circuit.	lot	200.00
60	Supply and Install power point c/w 2 x 15Amp metal clad switch socket outlet, flush moulded box, in GI steel trunking/conduit, 3x1 core 2.5mm <sup>2</sup> PVC cable above 40m run.	lot	180.00

S/No	Description	Unit	Unit Cost (\$)
61	1 x 2.5 sq mm PVC insulated cable.	m	0.40
62	1 x 4.0 sq mm PVC insulated cable.	m	0.60
63	1 x 6.0 sq mm PVC insulated cable.	m	1.05
64	1 x 10.0 sq mm PVC insulated cable.	m	1.50
65	1 x 16.0 sq mm PVC insulated cable.	m	2.20
66	1 x 25.0 sq mm PVC insulated cable.	m	3.30
67	1 x 35.0 sq mm PVC insulated cable.	m	4.60
68	1 x 50.0 sq mm PVC insulated cable.	m	6.05
69	1 x 70.0 sq mm PVC insulated cable.	m	8.40
70	1 x 95.0 sq mm PVC insulated cable.	m	12.40
71	1 x 120.0 sq mm PVC insulated cable.	m	14.00
72	1 x 150.0 sq mm PVC insulated cable.	m	16.80
73	1 x 185.0 sq mm PVC insulated cable.	m	21.40
74	1 x 240 sq mm PVC insulated cable.	m	27.00
75	3-core x 16/0.2 PVC insulated/sheathed flexible cord.	m	0.85
76	3-core x 40/0.25 PVC flexible insulated/sheathed cord.	m	1.90
77	3-core x 70/0.25 PVC flexible insulated/sheathed cord.	m	3.60
78	Supply & install 2 pairs multi core telephone cable.	m	0.85
79	FR-XLPEILSZH cable to IEC 331 IEC332 SS299 CWZ 0.6/1KV, 1C x 25 sq mm	m	13.20
80	FR-XLPEILSZH cable to IEC 331 IEC332 SS299 CWZ 0.6/1KV, 1C x 35 sqmm	m	17.30
81	FR-XLPEILSZH cable to IEC 331 IEC332 SS299 CWZ 0.6/1KV, 1C x 50 sq mm	m	21.90
82	FR-XLPEILSZH cable to IEC 331 IEC332 SS299 CWZ 0.6/1KV, 1C x 70 sq mm	m	28.80
83	FR-XLPEILSZH cable to IEC 331 IEC332 SS299 CWZ 0.6/1KV, 1C x 95 sq mm to 150 sq mm.	m	33.60
84	FR-XLPEILSZH cable to IEC 331 IEC332 SS299 CWZ 0.6/1KV, but cable size 1.5 sq mm.	m	3.60
85	FR-XLPEILSZH cable to IEC 331 IEC332 SS299 CWZ0.6/1KV, but cable size 2.5 sq mm.	m	4.10
86	FR-XLPEILSZH cable to IEC 331 IEC332 SS299 CWZ0.6/1KV, but cable size 4 - 6 sq mm.	m	5.50
87	FR-XLPEILSZH cable to IEC 331 IEC332 SS299 CWZ0.6/1KV, but cable size 10 sq mm.	m	7.00
88	FR-XLPEILSZH cable to IEC 331 IEC332 SS299 CWZ0.6/1KV, but cable size 16 sq mm.	m	9.40
89	Supply and lay 20 core, 0.5mm <sup>2</sup> , metallic sheathed multi core cables.	m	36.00
90	Supply and lay 10 pair telephone cables.	m	6.00
91	FR-XLPEILSZH cable to IEC 331 IEC332 SS299 CWZ 0.6/1KV, but cable size 185 - 300 mm <sup>2</sup> .	m	48.00
92	Supply and lay RG 6 cable, SCV cable.	m	4.80
93	20 gauges steel trunking c/w removable cover and bracket (not exceeding 1 metre spacing) 50mm x 25mm.	m	4.80
94	20 gauges steel trunking c/w removable cover and bracket (not exceeding 1 metre spacing) 50mm x 50mm.	m	5.90
95	20 gauges steel trunking c/w removable cover and bracket (not exceeding 1 metre spacing) 75mm x 50mm.	m	7.00
96	20 gauges steel trunking c/w removable cover and bracket (not exceeding 1 metre spacing) 100mm x 50mm.	m	8.60
97	20 gauges steel trunking c/w removable cover and bracket (not exceeding 1 metre spacing) 100mm x 75mm.	m	10.50
98	20 gauges steel trunking c/w removable cover and bracket (not exceeding 1 metre spacing) 150mm x 50mm.	m	10.80

S/No	Description	Unit	Unit Cost (\$)
99	20 gauges steel trunking c/w removable cover and bracket (not exceeding 1 metre spacing) 150mm x 75mm.	m	11.60
100	20 gauges steel trunking c/w removable cover and bracket (not exceeding 1 metre spacing) 150mm x 100mm.	m	13.40
101	20 gauges steel trunking c/w removable cover and bracket (not exceeding 1 metre spacing) 200mm x 100mm.	m	14.20
102	20 gauges steel trunking c/w removable cover and bracket (not exceeding 1 metre spacing) 250mm x 150mm.	m	16.00
103	20 gauges steel trunking c/w removable cover and bracket (not exceeding 1 metre spacing) 300mm x 150mm.	m	16.90
104	18 gauges steel trunking c/w removable cover and bracket (not exceeding 1 metre spacing) 50mm x 25mm.	m	5.60
105	18 gauges steel trunking c/w removable cover and bracket (not exceeding 1 metre spacing) 50mm x 50mm.	m	7.00
106	18 gauges steel trunking c/w removable cover and bracket (not exceeding 1 metre spacing) 75mm x 50mm.	m	8.50
107	18 gauges steel trunking c/w removable cover and bracket (not exceeding 1 metre spacing) 100mm x 50mm.	m	9.50
108	18 gauges steel trunking c/w removable cover and bracket (not exceeding 1 metre spacing) 100mm x 75mm.	m	11.90
109	18 gauges steel trunking c/w removable cover and bracket (not exceeding 1 metre spacing) 150mm x 50mm.	m	12.50
110	18 gauges steel trunking c/w removable cover and bracket (not exceeding 1 metre spacing) 150mm x 75mm.	m	13.50
111	18 gauges steel trunking c/w removable cover and bracket (not exceeding 1 metre spacing) 150mm x 100mm.	m	15.20
112	18 gauges steel trunking c/w removable cover and bracket (not exceeding 1 metre spacing) 200mm x 100mm.	m	16.00
113	18 gauges steel trunking c/w removable cover and bracket (not exceeding 1 metre spacing) 250mm x 150mm.	m	17.80
114	18 gauges steel trunking c/w removable cover and bracket (not exceeding 1 metre spacing) 300mm x 150mm.	m	18.60
115	To supply labour and materials including fixing, making good of the concrete work and PVC trunking 50mm x 12mm.	m	2.80
116	To supply labour and materials including fixing, making good of the concrete work and PVC trunking 50mm x 25mm.	m	3.20
117	To supply labour and materials including fixing, making good of the concrete work and PVC trunking 59mm x 14mm.	m	4.00
118	To supply labour and materials including fixing, making good of the concrete work and PVC trunking 20mm x 12mm.	m	1.60
119	To supply labour and materials including fixing, making good of the concrete work and PVC trunking 32mm x 12mm.	m	2.00
120	To supply labour and materials including fixing, making good of the concrete work and PVC trunking 38mm x 12mm.	m	2.40
121	Galvanised steel conduit c/w saddles run on surface 20mm.	m	3.00
122	Galvanised steel conduit c/w saddles run on surface 25mm.	m	4.00
123	Galvanised steel conduit c/w saddles run on surface 32mm.	m	5.20
124	Galvanised steel conduit c/w saddles run on surface 40mm.	m	6.10
125	Galvanised steel conduit c/w saddles run on surface 50mm.	m	7.50
126	Galvanised steel conduit c/w saddles run in wall/in floor 20mm.	m	3.80
127	Galvanised steel conduit c/w saddles run in wall/in floor 25mm.	m	4.80

S/No	Description	Unit	Unit Cost (\$)
128	Galvanised steel conduit c/w saddles run in wall/in floor 32mm.	m	6.20
129	Galvanised steel conduit c/w saddles run in wall/in floor 40mm.	m	7.40
130	Galvanised steel conduit c/w saddles run in wall/in floor 50mm.	m	9.00
131	GI flexible conduit 20mm.	m	2.00
132	GI flexible conduit 25mm.	m	2.80
133	Brass terminated gland 20mm.	m	1.20
134	Brass terminated gland 25mm.	m	1.50
135	Flexible PVC conduit 20mm.	m	1.80
136	Flexible PVC conduit 25mm.	m	2.20
137	PVC termination gland 20mm.	m	2.00
138	PVC termination gland 25mm.	m	2.50
139	1.2mm thick perforated metal tray c/w brackets fixed on wall/floor slab 75mm.	m	7.00
140	1.2mm thick perforated metal tray c/w brackets fixed on wall/floor slab 100mm.	m	8.00
141	1.2mm thick perforated metal tray c/w brackets fixed on wall/floor slab 150mm.	m	10.80
142	1.6mm thick perforated metal tray c/w brackets fixed on wall/floor slab 150mm.	m	11.80
143	1.6mm thick perforated metal tray c/w brackets fixed on wall/floor slab 200mm.	m	14.60
144	1.6mm thick perforated metal tray c/w brackets fixed on wall/floor slab 300mm.	m	3.00
145	1.6mm thick perforated metal tray c/w brackets fixed on wall/floor slab 375mm.	m	28.20
146	1.6mm thick perforated metal tray c/w brackets fixed on wall/floor slab 450mm.	m	35.60
147	1.6mm thick perforated metal tray c/w brackets fixed on wall/floor slab 600mm.	m	46.00
148	To supply labour and materials including fixing, making good of the concrete work and PVC trunking 50mm x 50mm.	m	4.00
149	To supply labour and materials including fixing, making good of the concrete work and PVC trunking 75mm x 50mm.	m	4.80
150	To supply labour and materials including fixing, making good of the concrete work and PVC trunking 75mm x 75mm.	m	5.50
151	To supply labour and materials including fixing, making good of the concrete work and PVC trunking 100mm x 50mm.	m	6.00
152	18mm diameter surface PVC conduit c/w saddles.	m	1.80
153	25mm diameter surface PVC conduit c/w saddles.	m	2.80
154	32mm diameter surface PVC conduit c/w saddles.	m	3.40
155	Supply and install PVC flexible conduit from 32mm to 40mm diameter.	m	3.20
156	Supply and install PVC termination cable gland 38mm diameter.	no	3.00
157	2mm thick epoxy coated cable ladder medium duty (knock- down type) size: 150mm to 250mm.	m	70.00
158	2mm thick epoxy coated cable ladder medium duty (knock- down type) size: 300mm.	m	75.00
159	2mm thick epoxy coated cable ladder medium duty (knock- down type) size: 450mm.	m	80.00
160	2mm thick epoxy coated cable ladder medium duty (knock- down type) size: 600mm.	m	85.00

S/No	Description	Unit	Unit Cost (\$)
161	2mm thick epoxy coated cable ladder medium duty (knock- down type) size: 750mm.	m	90.00
162	2mm thick epoxy coated cable ladder medium duty (knock- down type) size: 900mm.	m	95.00
163	Supply and install PVC glands termination for 10mm <sup>2</sup> to 25mm <sup>2</sup> .	no	2.00
164	Supply and install PVC glands termination for 35mm <sup>2</sup> to 70mm <sup>2</sup> .	no	4.00
165	Supply and install PVC glands termination for 95mm <sup>2</sup> to 150mm <sup>2</sup> .	no	6.00
166	Supply and install PVC glands termination for 240mm <sup>2</sup> to 400mm <sup>2</sup> .	no	8.00
167	Supply and install lightning earth electrode 3.6m x 16mm diameter copper clad steel rod c/w brass or copper clamp and 20cm x 20cm GI inspection box with heavy duty hinged cover, fibre glass base and riveted trifoliate labelling: LIGHTNING EARTH ELECTRODE DO NOT REMOVE.	no	200.00
168	Supply and install copper lightning finial, 300mm-600mm x 16mm c/w base plate including connecting up to interconnecting copper tape.	no	15.00
169	Supply and install 25mm x 3.25mm copper tape using purpose made copper or brass saddles on purpose made cement blocks at one metre intervals or vertical run for down conductors.	m	7.50
170	Supply and install brass test clamp c/w expansion bolt or ramset onto wall.	no	20.00
171	Supply and install square tape clamp for forming straight through, cross or tee joint in tape.	no	7.00
172	Supply and install 25mm x 3.25mm aluminum tape using purpose made aluminum saddles on purpose made cement blocks at one metre intervals.	m	3.50
173	Supply and install aluminum finial 300mm-600mm x 16mm diameter solid aluminum c/w base plate as Fuse RA105 or equivalent including connecting up to interconnecting aluminum tape.	no	10.00
174	Supply and install square tape clamp for forming straight through, cross or tee joint in aluminum tape as Fuse CT005 or equivalent.	no	2.50
175	Supply and install bi-metallic connector for joining aluminum to copper tape as Fuse Type A CN910 or equivalent including connecting up copper/aluminum tapes.	no	40.00
176	Supply and install 50mm UPVC conduit to enclose lightning down conductor.	no	4.00
177	Supply and replace existing lightning earth inspection box with angle steel reinforced chamber with 10mm thick steel checker plates.	no	40.00
178	Highly non-linear surge protection of characteristic [a>30], as OBO V20C or equivalent, 0.8 KV impulse breakdown voltage, 75 KA current capacity (8/20 characteristic) for DIN- rail mounting.	no	100.00
179	Highly non-linear 3 phase surge protection of characteristic [a>30], as OBO V20C or equivalent, 0.8 KV impulse breakdown voltage, 75 KA current capacity (8/20 characteristic) with fault monitoring by audio and visual signalling.	no	550.00
180	13A surge protective plug top, impulse breakdown voltage 0.6 KV, 2.5 KA current capacity (8/20 characteristics)	no	50.00
181	As above but for 15A surge protective plug top.	no	80.00
182	Single phase surge protection module for DB board DIN rail mounting as SP-200-2D or equivalent, impulse breakdown voltage < 1KV, current capacity 20 KA (8/20 characteristics) with thermal fault indications as an integral unit with Live, Neutral and Earth connections.	no	120.00

S/No	Description	Unit	Unit Cost (\$)
183	Supply and install earth electrode 3.6m deep x 16mm diameter copper clad steel rod c/w brass or copper clamp and 20cm x 20cm GI inspection box with heavy duty hinged cover, fibre glass base and riveted trifoliate labeling: SAFETY EARTH ELECTRODE DO NOT REMOVE.	no	200.00
184	Supply and install earth electrode 16mm diameter x 5.4m deep diameter copper clad steel rod c/w brass or copper clamp and 20cm x 20cm GI inspection box with heavy duty hinged cover, fibre glass base and riveted trifoliate labelling: SAFETY EARTH ELECTRODE DO NOT REMOVE.	no	240.00
185	Supply and lay 25mm x 3.20mm copper tap including the excavating in ground, backfilling, compacting, make good and returfing.	m	12.50
186	Supply and lay earth clip sizes 19mm to 50mm.	no	1.50
187	Earth pit of 2m depth c/w 1m x 1m x 3m copper plate, 5 Nos 16mm diameter by 3.6m long copper earth electrodes connected to concrete inspections pit as per Sketch F1. The work includes excavating in ground, backfilling, temporary shoring, competing, make good returfing.	no	1,600.00
188	Supply labour, materials and install PUB approved RCCB 40A/0.03, 2 pole, 240V including protective insulation cover to termination position.	no	50.00
189	Supply labour, materials and install PUB approved RCCB 40A/0.01, 2 pole, 240V including protective insulation cover to termination position.	no	60.00
190	Supply labour, materials and install PUB approved RCCB 40A/0.03 to 0.3A sensitivity, 4 pole 415V including protective insulation cover to termination position.	no	80.00
191	Supply labour, materials and install PUB approved RCCB 40A/0.5, 4 pole 415V including protective insulation cover to termination position.	no	95.00
192	Supply labour, materials and install PUB approved RCCB 63A/0.03, 2 pole 240V including protective insulation cover to termination position.	no	90.00
193	Supply labour, materials and install PUB approved RCCB 63A/0.1, 2 pole 240V including protective insulation cover to termination position.	no	90.00
194	Supply labour, materials and install PUB approved RCCB 63A/0.03 - 0.3, 4 pole 415V including protective insulation cover to termination position.	no	110.00
195	Supply labour, materials and install PUB approved RCCB 63A/0.5 4 pole, 415V including protective insulation cover to termination position.	no	150.00
196	Supply labour, materials and install PUB approved RCCB 100A/0.03 - 0.5, 4 pole, 415V including protective insulation cover to termination position.	no	200.00
197	Combined RCCB/MCB in-one as follows: RCCB - 30 mA 0.1 sec trip 30A MCB - 5-30A (Type B - D) M6 duty.	no	120.00
198	Earth pit of 2m depth c/w 1m x 1m x 3m copper plate, 5 Nos 16mm diameter by 3.6m long copper earth electrodes connected to concrete inspections pit as per Sketch F1. The work includes excavating in ground, backfilling, temporary shoring, competing, make good returfing.	no	70.00
199	Supply labour, materials and install PUB approved RCCB 40A/0.03, 2 pole, 240V including protective insulation cover to termination position.	no	144.00
200	Supply labour, materials and install PUB approved RCCB 40A/0.01, 2 pole, 240V including protective insulation cover to termination position.	no	192.00
201	Supply labour, materials and install PUB approved RCCB 40A/0.03 to 0.3A sensitivity, 4 pole 415V including protective insulation cover to termination position.	no	228.00
202	Supply labour, materials and install PUB approved RCCB 40A/0.5, 4 pole 415V including protective insulation cover to termination position.	no	420.00
203	Supply labour, materials and install PUB approved RCCB 63A/0.03, 2 pole 240V including protective insulation cover to termination position.	no	624.00

S/No	Description	Unit	Unit Cost (\$)
204	Supply labour, materials and install PUB approved RCCB 63A/0.1, 2 pole 240V including protective insulation cover to termination position.	no	660.00
205	Supply labour, materials and install PUB approved RCCB 63A/0.03 - 0.3, 4 pole 415V including protective insulation cover to termination position.	no	840.00
206	Supply labour, materials and install PUB approved RCCB 63A/0.5 4 pole, 415V including protective insulation cover to termination position.	no	1,200.00
207	Supply labour, materials and install PUB approved RCCB 100A/0.03 - 0.5, 4 pole, 415V including protective insulation cover to termination position.	no	1,572.00
208	Supply labour, materials and install approved MCCB 20-40A 3 pole, 415V, 50KA including protective insulation cover to termination position.	no	216.00
209	Supply labour, materials and install approved MCCB 45-60A 3 pole, 415V, 50KA including protective insulation cover to termination position.	no	276.00
210	Supply labour, materials and install approved MCCB 100-125A 3 pole, 415V, 50KA including protective insulation cover to termination position.	no	340.00
211	Supply labour, materials and install approved MCCB 150-160A 3 pole, 415V, 50KA including protective insulation cover to termination position.	no	540.00
212	Supply labour, materials and install approved MCCB 200-225A 3 pole, 415V, 50KA including protective insulation cover to termination position.	no	780.00
213	Supply labour, materials and install approved MCCB 250-300A 3 pole, 415V, 50KA including protective insulation cover to termination position.	no	700.00
214	Supply labour, materials and install approved MCCB 400 amps, 3 pole, 415V, 50KA including protective insulation cover to termination position.	no	1,000.00
215	Supply labour, materials and install approved MCCB 500 amps, 3 pole, 415V, 50KA including protective insulation cover to termination position.	no	1,440.00
216	Supply labour, materials and install approved MCCB 600 amps, 3 pole, 415V, 50KA including protective insulation cover to termination position.	no	1,824.00
217	Supply labour, materials and install approved MCCB 800 amps, 3 pole, 415V, 50KA including protective insulation cover to termination position.	no	2,412.00
218	Supply labour, materials and install approved MCCB 1000 amps, 3 pole, 415V, 50KA including protective insulation cover to termination position.	no	3,600.00
219	Supply and install/replace 20A TO 60A DP MCCB in existing panel inclusive of termination and connection works.	no	90.00
220	Supply, install and replace Low Voltage Air Circuit Breaker 3 pole, 65KA breaking capacity, fixed or Draw out unit of rated current up to 800Amp, c/w Micro logic control unit, auxillary contacts, top <(>&<)> commissioning, injection test and PE endorsement with report.	job	6,400.00
221	Supply, install and replace Low Voltage Air Circuit Breaker 4 pole, 65KA breaking capacity, fixed or Draw out unit of rated current up to 125Amp, c/w Micro logic control unit, auxillary contacts, top <(>&<)> bottom horizontal connections, trip coil, all necessary materials, labour, test <(>&<)> commissioning, injection test and PE endorsement with report.	job	7,200.00
222	Supply, install and replace Low Voltage Air Circuit Breaker 3 pole, 65KA breaking capacity, fixed or Draw out unit of rated current up to 1250Amp, c/w Micro logic control unit, auxillary contacts, top <(>&<)> bottom horizontal connections, trip coil, all necessary materials, labour, test <(>&<)> commissioning, injection test and PE endorsement with report.	job	7,000.00
223	Supply, install and replace Low Voltage Air Circuit Breaker 4 pole, 65KA breaking capacity, fixed or Draw out unit of rated current up to 1250Amp, c/w Micro logic control unit, auxillary contacts, top <(>&<)> bottom horizontal connections, trip coil, all necessary materials, labour, test <(>&<)> commissioning, injection test and PE endorsement with report.	job	8,300.00



S/No	Description	Unit	Unit Cost (\$)
224	Supply, install and replace Low Voltage Air Circuit Breaker 3 pole, 65KA breaking capacity, fixed or Draw out unit of rated current up to 1600Amp, c/w Micro logic control unit, auxillary contacts, top <(>&<)> bottom horizontal connections, trip coil, all necessary materials, labour, test <(>&<)> commissioning, injection test and PE endorsement with report.	job	8,000.00
225	Supply, install and replace Low Voltage Air Circuit Breaker 4 pole, 42KA breaking capacity, fixed or Draw out unit of rated current up to 1600Amp, c/w Micro logic control unit, auxillary contacts, top <(>&<)> bottom horizontal connections, trip coil, all necessary materials, labour, test <(>&<)> commissioning, injection test and PE endorsement with report.	job	9,500.00
226	Supply, install and replace Low Voltage Air Circuit Breaker 3 pole, 65KA breaking capacity, fixed or Draw out unit of rated current up to 2500Amp, c/w Micro logic control unit, auxillary contacts, top <(>&<)> bottom horizontal connections, trip coil, all necessary materials, labour, test <(>&<)> commissioning, injection test and PE endorsement with report.	job	10,902.00
227	Supply, install and replace Low Voltage Air Circuit Breaker 4 pole, 65KA breaking capacity, fixed or Draw out unit of rated current up to 2500Amp, c/w Micro logic control unit, auxillary contacts, top <(>&<)> bottom horizontal connections, trip coil, all necessary materials, labour, test <(>&<)> commissioning, injection test and PE endorsement with report.	job	14,356.00
228	Supply, install and replace Low Voltage Air Circuit Breaker 3 pole, 65KA breaking capacity, fixed or Draw out unit of rated current up to 3200Amp, c/w Micro logic control unit, auxillary contacts, top <(>&<)> bottom horizontal connections, trip coil, all necessary materials, labour, test <(>&<)> commissioning, injection test and PE endorsement with report.	job	13,353.00
229	Supply, install and replace Low Voltage Air Circuit Breaker 4 pole, 65KA breaking capacity, fixed or Draw out unit of rated current up to 3200Amp, c/w Micro logic control unit, auxillary contacts, top <(>&<)> bottom horizontal connections, trip coil, all necessary materials, labour, test <(>&<)> commissioning, injection test and PE endorsement with report.	job	16,000.00
230	Supply, install and replace Low Voltage Air Circuit Breaker 3 pole, 65KA breaking capacity, fixed or Draw out unit of rated current up to 4000Amp, c/w Micro logic control unit, auxillary contacts, top <(>&<)> bottom horizontal connections, trip coil, all necessary materials, labour, test <(>&<)> commissioning, injection test and PE endorsement with report.	job	15,000.00
231	Supply, install and replace Low Voltage Air Circuit Breaker 4 pole, 65KA breaking capacity, fixed or Draw out unit of rated current up to 4000Amp, c/w Micro logic control unit, auxillary contacts, top <(>&<)> bottom horizontal connections, trip coil, all necessary materials, labour, test <(>&<)> commissioning, injection test and PE endorsement with report.	job	18,000.00
232	Supply, install and replace Low Voltage Air Circuit Breaker 3 pole, 65KA breaking capacity, fixed or Draw out unit of rated current up to 5000Amp, c/w Micro logic control unit, auxillary contacts, top <(>&<)> bottom horizontal connections, trip coil, all necessary materials, labour, test <(>&<)> commissioning, injection test and PE endorsement with report.	job	21,000.00
233	Supply, install and replace Low Voltage Air Circuit Breaker 4 pole, 65KA breaking capacity, fixed or Draw out unit of rated current up to 5000Amp, c/w Micro logic control unit, auxillary contacts, top <(>&<)> bottom horizontal connections, trip coil, all necessary materials, labour, test <(>&<)> commissioning, injection test and PE endorsement with report.	job	26,000.00

S/No	Description	Unit	Unit Cost (\$)
234	Supply, install and replace Automatic Transfer Switch, 3 pole, 65KA breaking capacity, fixed or Draw out unit of rated current up to 600Amp to 1600Amp, c/w Micro logic control unit, auxillary contacts, top <(>&<)> bottom horizontal connections, trip coil, electrical interlock mechanism, gear motor, control wirings and relay, all necessary materials, labour, test <(>&<)> commissioning, injection test and PE endorsement with report.	job	16,718.00
235	Supply, install and replace Automatic Transfer Switch, 4 pole, 65KA breaking capacity, fixed or Draw out unit of rated current up to 600Amp to 1600Amp, c/w Micro logic control unit, auxillary contacts, top <(>&<)> bottom horizontal connections, trip coil, electrical interlock mechanism, gear motor, control wirings and relay, all necessary materials, labour, test <(>&<)> commissioning, injection test and PE endorsement with report.	job	19,500.00
236	Supply and replace Merlin Gerlin Sepam 1000, 230V.	no	800.00
237	Supply, deliver, replace and install ACB trip unit (Any brand, types, capacity and model).	no	4,000.00
238	Supply, deliver, replace and install ACB Mico logic processor unit (Any brand, types, capacity and model).	no	5,000.00
239	Supply, deliver, replace and install ACB shunt trip coil.	no	150.00
240	Supply, deliver, replace and install MCCB rotary lever (Any brand, types, capacity and model).	no	100.00
241	Supply, deliver, replace and install stop, start push button / push button c/w pilot light.	no	10.00
242	4 ways, Type A Distribution Board.	no	70.00
243	8 ways, Type A Distribution Board.	no	90.00
244	12 ways, Type A Distribution Board.	no	120.00
245	16 ways, Type A Distribution Board.	no	160.00
246	18 ways, Type A Distribution Board.	no	180.00
247	20 ways, Type A Distribution Board.	no	190.00
248	24 ways, Type A Distribution Board.	no	220.00
249	28 ways, Type A Distribution Board.	no	250.00
250	30 ways, Type A Distribution Board.	no	260.00
251	3 x 4 ways, Type B Distribution Board.	no	132.00
252	3 x 6 ways, Type B Distribution Board.	no	198.00
253	3 x 8 ways, Type B Distribution Board.	no	242.00
254	3 x 10 ways, Type B Distribution Board.	no	286.00
255	3 x 12 ways, Type B Distribution Board.	no	308.00
256	3 x 14 ways, Type B Distribution Board.	no	352.00
257	3 x 16 ways, Type B Distribution Board.	no	396.00
258	3 x 18 ways, Type B Distribution Board.	no	440.00
259	3 x 24 ways, Type B Distribution Board.	no	506.00
260	3 x 4 ways, Type C/D Distribution Board.	no	216.00
261	3 x 6 ways, Type C/D Distribution Board.	no	324.00
262	3 x 8 ways, Type C/D Distribution Board.	no	396.00
263	3 x 10 ways, Type C/D Distribution Board.	no	468.00
264	3 x 12 ways, Type C/D Distribution Board.	no	504.00
265	3 x 14 ways, Type C/D Distribution Board.	no	576.00
266	3 x 16 ways, Type C/D Distribution Board.	no	648.00
267	3 x 18 ways, Type C/D Distribution Board.	no	720.00
268	3 x 24 ways, Type C/D Distribution Board.	no	828.00
269	45A TP MCB M6, 6KA duty.	no	80.00
270	60A TP MCB M6, 6KA duty.	no	100.00

S/No	Description	Unit	Unit Cost (\$)
271	40A - 100A, 500V c/w HRC Fuse or MCCB plug-in unit.	no	1,350.00
272	125A - 200A, 500V c/w HRC Fuse or MCCB plug-in unit.	no	2,800.00
273	250A - 400A, 500V c/w HRC Fuse or MCCB plug-in unit.	no	4,800.00
274	Supply and install 30A to 160A tap off unit for Telemecanique busbar type canals or equivalent c/w HRC fuses including connection.	no	900.00
275	Supply and install 200A to 315A tap off unit for Telemecanique busbar type canals or equivalent c/w HRC fuses including connection.	no	2,000.00
276	Kasuga or equivalent DTL Earth Fault relay c/w 105 deg C small wiring.	no	300.00
277	Kasuga or equivalent DTL Over current relay for 3 phase c/w 105 deg C small wiring.	no	500.00
278	GEC or equivalent IDMTL Earth Fault relay c/w 105 deg C small wiring.	no	900.00
279	GEC or equivalent IDMTL Over Current relay for 3 phase c/w 105 deg C small wiring.	no	2,000.00
280	Indicator lights c/w low voltage (230/6.3V) transformer & cover, holder, bulb (1 unit = set of 3).	no	45.00
281	Fuse holders c/w 2A HRC cartridge fuses and wiring (1 unit = set of 3).	no	45.00
282	Supply and install Class 1 Ammeter, size 96mm x 96mm flush mounted instantaneous type	no	130.00
283	Supply and install Class 1 Ammeter, size 96mm x 96mm flush mounted (8 min) Maximum demand type.	no	150.00
284	Supply and install Class 1 Ammeter, size 96mm x 96mm flush mounted combined (8 min) Maximum demand and instantaneous type (2 dial).	no	250.00
285	Supply and install Class 1, 500V Voltmeter size 96mm x 96mm flush mounted.	no	60.00
286	5P10 Up to 400A/5A Protection. Current transformer (CT).	no	120.00
287	5P10 500A - 1000A/5A Protection CT.	no	180.00
288	5P10 1200A - 2500A/5A Protection CT.	no	230.00
289	5P5 Up to 400A/5A Protection CT.	no	100.00
290	5P5 500A - 1000A/5A Protection CT.	no	160.00
291	5P5 1200A - 2500A/5A Protection CT.	no	200.00
292	Class 1 Up to 400A/5A Metering CT.	no	100.00
293	Class 1 500A - 1000A/5A Metering CT.	no	150.00
294	Class 1 1200A - 2500A/5A Metering CT.	no	200.00
295	Supply and install neutral link up to 100 Amps.	no	26.00
296	Supply and install neutral link up to 100 Amp to 250 Amps.	no	38.00
297	Supply and install white plate.	no	5.00
298	Supply and install copper busbar tinned 185mm <sup>2</sup> area.	m	25.00
299	Supply and install copper busbar tinned 250mm <sup>2</sup> area.	m	30.00
300	Supply and install 16A - 20A contactor 4 pole 230V.	no	45.00
301	Supply and install 32A - 45A contactor 4 pole 230V.	no	80.00
302	Supply and install 40A to 60A contactor 4 pole 230V.	no	100.00
303	Opening of hole on the spot 2" x 2".	no	14.50
304	Opening of hole on the spot 3" x 2".	no	18.00
305	Opening of hole on the spot 4" x 2".	no	21.50
306	Opening of hole on the spot 4" x 3".	no	24.00
307	Opening of hole on the spot 6" x 4".	no	30.00
308	Welding of bracket "on the spot" for MCCB, Kwh meter, earth fault relay, timer, contactor etc.	no	36.00
309	Cutting concrete floor for up to 2 conduit of any size including making good.	m	7.50
310	6 - 32A SP MCB. M9, 10 KA duty. Type B/C/D	no	13.00
311	45A SP MCB. M9, 10KA duty. Type B/C/D	no	20.00

S/No	Description	Unit	Unit Cost (\$)
312	20A - 30A DP MCB M9, 10KA duty. Type B/C/D	no	38.00
313	45A DP MCB M9, 10KA duty. Type B/C/D	no	50.00
314	60A DP MCB M9, 10KA duty Type B/C/D.	no	63.00
315	100A DP MCB, 15KA duty Type B/C/D.	no	90.00
316	60A TP MCB, 15KA duty Type B/C/D.	no	120.00
317	100A TP MCB, 15KA duty Type B/C/D.	no	165.00
318	Supply and install voltmeter selector switch of 7-positions and rotary type.	no	50.00
319	Supply and install ammeter selector switch of up to 5- positions and rotary type.	no	60.00
320	Earth Leakage Relay (0.03 to 10 or 30 Amp and time, 0 to 5 sec) c/w display indicator.	no	380.00
321	Zero-phase current transformer with up to 100mm diameter hole for cables.	no	200.00
322	MCB type neon indicating light fitting.	no	10.00
323	Supply and install copper busbar tinned up to 312mm <sup>2</sup> area.	no	35.00
324	Supply and install copper busbar tinned up to 626mm <sup>2</sup> area.	no	60.00
325	Opening of hole on the spot 2 x 1.	no	12.00
326	Supply and install 30A DP Isolator M6, 6KA duty.	no	24.00
327	60A DP MCB M6, 6KA duty/63A SP Type C MCB, 10KA	no	50.00
328	Supply, install and replace 40Amp to 45Amp TPN MCB, M10 Type D, 10KA.	no	110.00
329	Supply, install and replace 100Amp, 4 pole 230V, contactor.	no	220.00
330	Supply, install and replace Lighting/Power Distribution board (DB) of 24ways, TP Type A/B c/w 40Amp TP Type C MCB, 3 nos of 40Amp 2pole 100mA sensitivity, 12nos of 10A SP 10 MCB, comb busbar including labour of joining of outgoing cable with cable links, rearranging of sub-main cables and termination of all incoming and outgoing cables, cable markers, simple line, name plate.	lot	1,000.00
331	Supply, install and replace Lighting Distribution board (DB) of 48ways, TP Type C/D c/w 40Amp TP Type C MCB, BI connectors, 3 nos of 40Amp 2pole 100mA sensitivity, 18nos of 10A SP M10 MCB, comb busbar including labour of joining of outgoing cable with cable links, rearranging of sub- main cables and termination of all incoming and outgoing cables, cable markers, simple line, name plate.	lot	1,340.00
332	Supply, install and replace Power Distribution board (DB) of 48ways, TP Type C/D c/w 40Amp TP Type C MCB, BI connectors, 12 nos of 40Amp 2pole 100mA sensitivity, 12nos of 10A SP M10 MCB, comb busbar including labour of joining of outgoing cable with cable links, rearranging of sub-main cables and termination of all incoming and outgoing cables, cable markers, simple line, name plate.	lot	1,900.00
333	Supply, install and replace Lighting Distribution board (DB) of 48ways, TP Type C/D c/w 40Amp TP Type C MCB, BI connectors, 3 nos of 40Amp 2pole 100mA sensitivity, 18nos of 10A SP M10 MCB, comb busbar including labour of joining of outgoing cable with cable links, rearranging of sub- main cables and termination of all incoming and outgoing cables, cable markers, simple line, name plate.	lot	1,500.00
334	Supply, install and replace Power Distribution board (DB) of 54ways, TP Type C/D c/w 40Amp TP Type C MCB, BI connectors, 13 nos of 40Amp 2pole 100mA sensitivity, 13nos of 10A SP M10 MCB, comb busbar including labour of joining of outgoing cable with cable links, rearranging of sub-main cables and termination of all incoming and outgoing cables, cable markers, simple line, name plate.	lot	2,100.00

S/No	Description	Unit	Unit Cost (\$)
335	Supply, install and replace Power Distribution board (DB) of 72ways, TP Type C/D c/w 63Amp TP Type C MCB, BI connectors, 18 nos of 63Amp 2pole 100mA sensitivity, 18nos of 16Amp - 32Amp SP M10 MCB, comb busbar including labour of joining of outgoing cable with cable links, rearranging of sub-main cables and termination of all incoming and outgoing cables, cable markers, simple line, name plate.	lot	3,200.00
336	Supply, install and replace Power Distribution board (DB) of 72ways, TP Type C/D c/w 100Amp TP Type C MCB, BI connectors, 18 nos of 63Amp 2pole 100mA sensitivity, 18nos of 16Amp - 32Amp SP M10 MCB, comb busbar including labour of joining of outgoing cable with cable links, rearranging of sub-main cables and termination of all incoming and outgoing cables, cable markers, simple line, name plate.	lot	3,300.00
337	Supply, install and replace 20Amp to 32Amp TPN MCB, M10 Type B/C/D, 10KA.	no	90.00
338	Supply and install 12 way terminal block (any sizes) c/w reeling.	no	25.00
339	Supply and install temporary DB (up to 500A) c/w socket outlet assembly, (up to 100 nos) 13A twin power points and complete power and final circuit cables (more than 100 m) to load side for 1 week inclusive of PH, Saturday and Sunday, night works.	no	1,000.00
340	Supply and install 125 - 160A contactor, 4 pole, 230V coil.	no	500.00
341	Supply, install & replace on delay control timer, 230V, 0 - 30 sec/30 min/30 days c/w base.	no	77.00
342	Supply, install and replace 3 way, 400V, 200A-800A, 4 pole manual transfer switch c/w modification.	no	990.00
343	Supply and install GS spotlight fitting c/w 150/200 watt lamp.	no	75.00
344	High bay fitting with rugged, heavy duty die cast aluminum housing and either upright or direct high purity heavy gauge aluminum reflector c/w 400W metal halide lamp, control gear and mounting arm, chain and dust cover.	no	565.00
345	High bay fitting with rugged, heavy duty die cast aluminum housing and either upright or direct high purity heavy gauge aluminum reflector c/w 250W metal halide lamp, control gear and mounting arm, chain and dust cover.	no	500.00
346	Wall mounted fitting with prismatic polycarbonate refractor and one piece injection moulded bronze polycarbonate housing (interior surface is vacuum metallized aluminium for maximum reflectivity). All weather gasket is provided and using vandal resistant screw to retain refractor & protect lamp c/w 70W high pressure sodium or metal halide lamp and control gear.	no	350.00
347	Floodlight fitting c/w 250W tubular HPSV or metal halide lamp and control gear.	no	550.00
348	Floodlight fitting c/w 400W tubular HPSV or metal halide lamp and control gear.	no	635.00
349	Batten Fluorescent Luminaries 1x14W , 625mm in length c/w tubes.	no	25.00
350	Batten Fluorescent Luminaries 1x28W , 1235mm in length c/w tubes.	no	30.00
351	Batten Fluorescent Luminaries 2x28W , 1235mm in length c/w tubes.	no	42.00
352	Batten Fluorescent Luminaries 1x54W , 1540mm in length c/w tubes.	no	40.00
353	Batten Fluorescent Luminaries with Metal Reflector 1x28W , 1235mm in length c/w tubes.	no	36.00
354	Batten Fluorescent Luminaries with Metal Reflector 2x28W , 1235mm in length c/w tubes.	no	48.00

S/No	Description	Unit	Unit Cost (\$)
355	Batten Fluorescent Luminaries for wall or surface mounting with Angle Reflector, Open End Blackboard Type 1x28W , 1235mm in length c/w tubes.	no	32.00
356	Batten Fluorescent Luminaries for wall or surface mounting with Angle Reflector, Open End Blackboard Type 1x54W , 1540mm in length c/w tubes.	no	44.00
357	Batten Fluorescent Luminaries with Wire-Guard and Hinge Lockable Type 1x14W, 625mm in length c/w tube.	no	30.00
358	Batten Fluorescent Luminaries with Wire-Guard and Hinge Lockable Type 1x28W , 1235mm in length c/w tube.	no	35.00
359	Weather-proof Fluorescent Luminaries with IP 55 Protection 1 x 28W , 1267mm in length c/w tube.	no	84.00
360	Weather-proof Fluorescent Luminaries with IP 55 Protection 2 x 28W , 1267mm in length c/w tube.	no	110.00
361	Recessed Mounting for suspended ceiling board type with hinged aluminium frame and prismatic acrylic diffuser for bat-wing light distribution 2x14W , 625mm in length c/w tubes and electronic ballast.	no	195.00
362	Recessed Mounting for suspended ceiling board type with hinged aluminium frame and prismatic acrylic diffuser for bat-wing light distribution 3x14W, 625mm in length c/w tubes and electronic ballast.	no	270.00
363	Recessed Mounting for suspended ceiling board type with hinged aluminium frame and prismatic acrylic diffuser for bat-wing light distribution 2x28W , 1245mm in length c/w tubes and electronic ballast.	no	210.00
364	Recessed Mounting for suspended ceiling board type with hinged aluminium frame and prismatic acrylic diffuser for bat-wing light distribution 3x28W , 1245mm in length c/w tubes and electronic ballast.	no	270.00
365	Recessed Mounting for suspended ceiling board type with hinged aluminium frame and prismatic acrylic diffuser for bat-wing light distribution 4x28W , 1245mm in length c/w tubes and electronic ballast.	no	300.00
366	Down rods not exceeding 2x1m including conduit boxes and cover.	m	9.00
367	Additional length of down rods (for fluorescent fitting)	m	3.60
368	Surface Mounting Fluorescent Luminaries with Prismatic acrylic diffuser and 2 white metal end caps for 1x14W, 625mm in length c/w tube.	no	40.00
369	Surface Mounting Fluorescent Luminaries with Prismatic acrylic diffuser and 2 white metal end caps for 2x14W, 625mm in length c/w tube.	no	52.00
370	Surface Mounting Fluorescent Luminaries with Prismatic acrylic diffuser and 2 white metal end caps for 1x28W , 1235mm in length c/w tube.	no	60.00
371	Surface Mounting Fluorescent Luminaries with Prismatic acrylic diffuser and 2 white metal end caps for 2x28W , 1235mm in length c/w tube.	no	75.00
372	Surface Mounting, Fluorescent Luminaries Prismatic acrylic diffuser with hinged cover for 2x14W, 1235mm in length c/w tubes & electronic ballasts.	no	120.00
373	Surface Mounting, Fluorescent Luminaries Prismatic acrylic diffuser with hinged cover for 3x14W c/w tubes & electronic ballasts.	no	150.00
374	Surface Mounting, Fluorescent Luminaries Prismatic acrylic diffuser with hinged cover for 2x28W c/w tubes & electronic ballasts.	no	200.00
375	Surface Mounting, Fluorescent Luminaries Prismatic acrylic diffuser with hinged cover for 4x28W c/w tubes & electronic ballasts.	no	275.00
376	Surface Mounting, Fluorescent Luminaries with 5-sided wrap-around prismatic acrylic diffuser with hinged cover for 1x14W, 625mm in length c/w tubes.	no	50.00
377	Surface Mounting, Fluorescent Luminaries with 5-sided wrap-around prismatic acrylic diffuser with hinged cover for 2x14W, 625mm in length c/w tubes.	no	65.00

S/No	Description	Unit	Unit Cost (\$)
378	Surface Mounting, Fluorescent Luminaries with 5-sided wrap-around prismatic acrylic diffuser with hinged cover for 1x28W , 1235mm in length c/w tubes.	no	68.00
379	Surface Mounting, Fluorescent Luminaries with 5-sided wrap-around prismatic acrylic diffuser with hinged cover for 2x28W , 1235mm in length c/w tubes.	no	88.00
380	Reed diffuser fitting with 2 white metal end caps for 1x14W, 625mm in length c/w tube.	no	40.00
381	Reed diffuser fitting with 2 white metal end caps for 2x14W, 625mm in length c/w tube.	no	52.00
382	Reed diffuser fitting with 2 white metal end caps for 1x28W , 625mm in length c/w tube.	no	60.00
383	Reed diffuser fitting with 2 white metal end caps for 2x28W , 625mm in length c/w tube.	no	75.00
384	Recessed mounting for suspended ceiling board type, M2 mirror optic diffuser 2x14W, (300mm x 625mm) c/w tubes and 2 Electronic Ballasts.	no	200.00
385	Recessed mounting for suspended ceiling board type, M2 mirror optic diffuser 2x14W, (625mm x 625mm) c/w tubes and 2 Electronic Ballasts.	no	210.00
386	Recessed mounting for suspended ceiling board type, M2 mirror optic diffuser 2x28W, (300mm x1245mm) c/w tubes and 2 Electronic Ballasts.	no	240.00
387	Recessed mounting for suspended ceiling board type, M2 mirror optic diffuser 3x28W, (600mm x1245mm) c/w tubes and 3 Electronic Ballasts.	no	300.00
388	Recessed mounting for suspended ceiling board type, M2 mirror optic diffuser 4x28W, (600mm x1245mm) c/w tubes and 4 Electronic Ballasts.	no	320.00
389	Recessed mounting for suspended ceiling board type, M2 mirror optic diffuser 4x14W, (625mm x625mm) c/w tubes and 4 Electronic Ballasts.	no	300.00
390	Recessed mounting for suspended ceiling board type, M2 mirror optic diffuser 3x14W, (625mm x625mm) c/w tubes and 3 Electronic Ballasts.	no	270.00
391	1x8W LED exit light (single/double faceplate with/without arrow)	no	245.00
392	Not in use		
393	Not in use		
394	Not in use		
395	Not in use		
396	Non-maintained rectangular box design "Mains-fail" emergency lighting luminaries c/w minimum 2 hours duration Ni-Cd batteries, LED Indicating Light and test button and 1 x 8W fluorescent tube and opal diffuser.	no	160.00
397	Strip ceiling (corridor) fluorescent light fitting, Philips TB285 c/w 2 x 28W tubes & 2 electronic ballasts.	no	220.00
398	Security luminaries with integral control gear supplied with 2 x 13W PLC lamps.	no	90.00
399	Security luminaries with 1 x HPL80W mercury lamp.	no	180.00
400	HF electronics ballast 1 x 13W - 42W PLC luminaries inclusive of replacement.	no	40.00
401	Weatherproof Fluorescent Luminaries with IP55 protection, 667mm in length c/w tube 1 x 14W.	no	64.00
402	Weatherproof Fluorescent Luminaries with IP55 protection, 667mm in length c/w tube 2 x 14W.	no	84.00
403	Surface mounting, fluorescent Luminaries Prismatic acrylic diffuser with hinged cover for 3 x 28W c/w tubes & electronic ballasts.	no	240.00
404	Surface mounting, fluorescent luminaries with M2 mirror optic diffuser c/w 2 x 14W tubes & 2 electronic ballasts.	no	210.00

S/No	Description	Unit	Unit Cost (\$)
405	Surface mounting, fluorescent luminaries with M2 mirror optic diffuser c/w 3 x 14W tubes & 3 electronic ballasts.	no	275.00
406	Surface mounting, fluorescent luminaries with M2 mirror optic diffuser c/w 2 x 28W tubes & 2 electronic ballasts.	no	230.00
407	Surface mounting, fluorescent luminaries with M2 mirror optic diffuser c/w 3 x 28W tubes & 3 electronic ballasts.	no	310.00
408	Supply and install 190mm-220mm diameter 1 x 36W - 18W PLC down light luminaries c/w aluminium mounting ring white, silver anodized aluminium reflector and control gear.	no	155.00
409	Similar as above PLC down light luminaries of 2 x 13W PLC lamps.	no	185.00
410	Similar as above PLC down light luminaries of 2 x 26W PLC lamps.	no	200.00
411	Similar as above PLC down light luminaries of 1 x 11W - 18W PLC lamp and self-contained batter power pack of 2 hours duration.	no	380.00
412	Supply and install 50W, 12 Volts halogen recessed down light luminaries c/w 230/12V step-down transformer.	no	60.00
413	Supply and install (or retrofit into any fitting) including wiring and connecting up ready to function the power pack suitable for 8W tube c/w minimum 2 hours duration with Ni-cd batteries, LED indicating lights, test discharge buttons.	no	110.00
414	Similar complete set of power pack as above for 14 - 28W fluorescent fitting.	no	140.00
415	Chargeable batteries for 8W exit light to light up for 2 hours.	no	20.00
416	Chargeable batteries for 14 - 28W or 20W - 40W fluorescent tubes to light up tube for 2 hours.	no	40.00
417	Not in use		
418	Emergency LED light fitting of twin lamp similar to type UFO or equivalent.	no	140.00
419	Floodlight fitting c/w 70W-175W tubular discharge lamp and control gear.	no	250.00
420	600mm x 1245mm recessed fluorescent fitting c/w 2 x 28w tri-phosphor lamps, 2 x Dimmable HF electronics ballasts and semi-gloss cat 2 mirror louvre.	no	350.00
421	600mm x 1245mm recessed fluorescent fitting c/w 3 x 28w tri-phosphor lamps, 3 x Dimmable HF electronics ballasts and semi-gloss cat 3 mirror louvre.	no	450.00
422	600mm x 1245mm recessed fluorescent fitting c/w 4 x 28w tri-phosphor lamps, 4 x Dimmable HF electronics ballasts and semi-gloss cat 3 mirror louvre.	no	650.00
423	Recessed down-light c/w 2 x plate 42w tri-phosphor, lamps, dimmable HF electronics ballasts and anodise faceted aluminum reflector.	no	450.00
424	Recessed down-light c/w 2 x plate 26w tri-phosphor, lamps, dimmable HF electronics ballasts and anodise faceted aluminum reflector.	no	400.00
425	Dimmable HF electronics ballast 1 x 14W - 28W one ballast to one fluorescent lamp inclusive of replacement.	no	120.00
426	Dimmable HF electronics ballast 2 x 14W - 28W one ballast to one fluorescent lamp inclusive of replacement.	no	150.00
427	Dimmable HF electronics ballast 1 x 13W - 42W PLC luminaries inclusive of replacement.	no	150.00
428	Recessed mounting for suspended ceiling board type, M2 mirror optics diffuser 2 x 14W (625mm x 625mm) c/w tubes and 2 dimmable HF electronic ballast.	no	320.00
429	Recessed mounting for suspended ceiling board type, M2 mirror optics diffuser 3 x 14W (625mm x 625mm) c/w tubes and 3 dimmable HF	no	450.00



S/No	Description	Unit	Unit Cost (\$)
	electronic ballast.		
430	To replace existing electronic ballast all labours, parts <(>&<)> cables to light fittings, 1 x 28W ballast/1 x 14W ballast.	no	30.00
431	Supply, install and replace 2 x 54W weather proof fluorescent luminaries with IP 55 protection.	no	115.00
432	Supply, install and replace explosion proof 2 x 28W light fixture c/w light tube.	no	700.00
433	To supply and install wall mounted luminaries (any types of face plate description "Caution/Lecture in Progress/Laser in Operation/Toxic Discharge"/complete with gear and LED/tubes.	no	450.00
434	To supply and install LED type of flood light fixture 80-200W complete with inverter and LED.	no	600.00
435	To supply and install LED type of halogen light fixture complete with inverter and LED. (3-10W ), any colour rendering, weather proof.	no	120.00
436	Supply, deliver, replace and install circular globe fixtures c/w gear <(>&<)> lamp up to 250W, Globe of 400 diameter.	no	300.00
437	Supply, deliver, replace and install Zebra Crossing yellow circular globe c/w 30 - 50W LED including driver, timer, PCB.	no	500.00
438	Main bell wiring pt 230 Volts c/w switch.	no	24.00
439	Mains wiring point for bell transformer.	no	20.00
440	Bell push pt c/w bell push 30m run bell wire and mounting block.	no	24.00
441	240 to 6-24V bell transformer 12VA make.	no	15.00
442	6-24V (AC or DC) electric bell, 75mm diameter	no	10.00
443	6-24V (AC or DC) electric buzzer.	no	10.00
444	230 volt electric gong 150mm diameter revolving light / baby siren / buzzer.	no	60.00
445	230 volt electric gong 225mm diameter revolving light / baby siren / buzzer.	no	100.00
446	300mm diameter AC230V electric, wall mounted clock with red seconds hand and 72 hours of power reserve in case of power failure.	no	200.00
447	Electronic multi-function bell timer c/w a choice of 4 melodies, 2 control output channels and easy to program.	no	950.00
448	300mm Wall Clock DC 1.5V.	no	50.00
449	Supply, install and replace TV point including splitter.	no	20.00
450	Supply, deliver, replace and install UPS >= 10KVA, 3 phase, 63A c/w 4 output terminal, tolerance range +/- 10%.	no	5,000.00
451	Supply, deliver, replace and install UPS >= 20KVA, 3 phase, 63A c/w 4 output terminal, tolerance range +/- 10%.	no	8,000.00
452	Supply, deliver, replace and install UPS >= 10KVA, 1 phase, 63A c/w 4 output terminal, tolerance range +/- 10%.	no	2,000.00
453	Supply, deliver, replace and install UPS >= 20KVA, 1 phase, 63A c/w 4 output terminal, tolerance range +/- 10%.	no	4,000.00
454	To remove one lighting point including wiring fitting, batten, conduits etc and make good wall or ceiling surface (excluding touch-up).	no	4.00
455	To remove one power point including wiring fitting, batten, conduits etc and make good wall or ceiling surface (excluding touch-up).	no	4.00
456	To remove bracket, exhaust or ceiling oscillating fan pt including wiring fan, batten, or conduits mounting block and make good wall surface.	no	6.00
457	To remove ceiling fan pt including wiring, batten, fan/hook and regulator make good wall or ceiling surface (excluding touch up).	no	5.00
458	To take down ceiling fan, wall bracket fans, oscillating fan.	no	3.00
459	To take down fluorescent/tungsten light fitting (ceiling, pendant or	no	3.00

S/No	Description	Unit	Unit Cost (\$)
	recessed).		
460	To touch up one light point or power point including plastering and painting, etc to match existing wall surface.	no	2.20
461	To take down Perimeter and security light fitting c/w arm and bracket (Any type).	no	8.00
462	To remove one single or 3-phase isolator point including wiring, conduits, etc and make good wall or ceiling surface.	no	8.00
463	To take down high bay luminaries c/w integrated control gear and bracket and make good with painting.	no	15.00
464	Lighting fitting of any type (ceiling, pendant or recessed).	no	6.00
465	1.5m or 1.2m sweep ceiling fan and speed regulator.	no	8.00
466	Wall bracket or exhaust fan (all sizes).	no	6.00
467	Ceiling oscillating fan (all sizes).	no	6.00
468	Perimeter and security light fitting (any type).	no	10.00
469	Electric Clock or Bell Timer (all sizes).	no	6.00
470	Tungsten light point with simple shade.	no	12.60
471	Light point with fitting of any type.	no	8.50
472	Ceiling fan point and fan c/w fan hook, regulator and teak block.	no	20.00
473	Bracket fan point c/w fan mounting block and fan.	no	11.00
474	Switch points c/w switch and teak block metal box.	no	7.00
475	13A or 15A switch socket outlet point.	no	9.00
476	Supply and replace/install including connecting up 5 amps white rocker plate SP c/w moulded surface mounting box.	no	5.00
477	Supply and replace/install including connecting up 2 ways 5 amps white rocker plate SP c/w moulded surface mounting box.	no	6.40
478	Supply and replace/install including connecting up 2g 5 amps white rocker plate SP c/w moulded surface mounting box.	no	6.40
479	Supply and replace/install including connecting up 3g 5 amps white rocker plate SP c/w moulded surface mounting box.	no	9.20
480	Supply and replace/install including connecting up 4g 5 amps white rocker plate SP c/w moulded surface mounting box.	no	11.00
481	Supply and replace/install including connecting up 13 amps switch socket outlet c/w moulded box.	no	7.00
482	Supply and replace/install including connecting up 2g 13 amps switch socket outlet c/w moulded box.	no	16.00
483	Supply and replace/install including connecting up 15 amps switch socket outlet c/w moulded box.	no	12.40
484	Supply and replace/install including connecting up 13 amps metal clad switch socket outlet c/w box.	no	10.40
485	Supply and replace/install including connecting up 2g 13 amps metal clad switch socket outlet c/w box.	no	18.00
486	Supply and replace/install including connecting up 15 Amps metal clad switch socket outlet c/w box	no	13.00
487	Supply and replace/install including connecting up 20 Amps double-pole switch with indicator light c/w moulded box	no	20.00
488	Supply and install including connecting up time switch electric operated 230 volt 50 c/s 10-30 Amp Quartz reserve (150) yours) 24 hour dial with 15 mins settings	no	180.00
489	Supply and install including connecting up 15-20 Amps DOL motor starter contactor c/w auxillary contacts	no	160.00

S/No	Description	Unit	Unit Cost (\$)
490	Supply and install including connecting up 30 Amps single (3 phase) DOL motor starter contactor c/w auxillary contacts	no	300.00
491	Supply and install 20 Amps TPN metal clad isolator c/w 4mm2 PVC cable in conduit/trunking not less than 30m	no	328.00
492	Supply and install 30 Amps TPN metal clad isolator c/w 6mm2 PVC cable in conduit/trunking not less than 30m	no	362.00
493	Supply and install 50 Amps TPN metal clad isolator c/w 25mm2 PVC cable in metal trunking not less than 30m	no	829.00
494	Supply and install 100 Amps TPN metal clad isolator c/w 50mm2 PVC cable in metal trunking not less than 30m	no	1,420.00
495	Supply and install 160 Amps TPN metal clad isolator c/w 70mm2 PVC cable in metal trunking not less than 30m	no	2,000.00
496	Power socket outlet c/w 13A weatherproof type socket outlet, plug top and metal screwed cover in GI conduit up to 3 x 15m run of 2.5mm2 PVC cable	no	150.00
497	Power socket outlet c/w 15A weatherproof type socket outlet, plug top and metal screwed cover in GI conduit up to 3 x 15m run of 4.0mm2 PVC cable	no	150.00
498	Power socket outlet c/w 13A ivory socket outlet with spring cover and gasket in GI conduit up to 3 x 15m run of 2.5mm2 PVC cable	no	100.00
499	Power socket outlet c/w 15A ivory socket outlet with spring cover and gasket in GI conduit up to 3 x 15m of 2.5mm2 PVC cable	no	100.00
500	Supply and install 5 Amp SP weatherproof switched or unswitched socket outlet	no	20.00
501	Supply and install 5 Amp twin gang weather-proof switched or unswitched socket outlet.	no	30.00
502	Supply and install 13 Amp GI weather-proof socket outlet c/w weatherproof plug top and screw cap as LEWDEN or equivalent.	no	105.00
503	Supply and install 13 Amp plastic weather-proof socket outlet c/w spring gasket cover.	no	75.00
504	Supply and install water-proof isolator with minimum protection of IP 55, 20ADF	no	60.00
505	Supply and install water-proof isolator with minimum protection of IP 55, 32ADF	no	80.00
506	Supply and install water-proof isolator with minimum protection of IP 55, 45ADF	no	90.00
507	Supply and install water-proof isolator with minimum protection of IP 55, 60ADF	no	100.00
508	Supply and install water-proof isolator with minimum protection of IP 55, 20ATPN	no	78.00
509	Supply and install water-proof isolator with minimum protection of IP 55, 32ATPN	no	90.00
510	Supply and install water-proof isolator with minimum protection of IP 55, 45ATPN	no	120.00
511	Supply and install water-proof isolator with minimum protection of IP 55, 60ATPN	no	150.00
512	Supply and replace 250W Metal Halide Lamp	no	75.00
513	Supply and replace 400W Metal Halide Lamp	no	90.00
514	Supply and replace 250 - 400W Metal Halide ballast, Type Constant W attage Auto-Transformer (CWA)	no	100.00
515	Supply and replace Igniter for 70W - 400W metal halide high bay luminaries	no	32.00
516	Supply and replace including connecting up 150 watt PAR 38 Reflector Lamp	no	12.00

S/No	Description	Unit	Unit Cost (\$)
517	Supply and replace including connecting up 14 watt 400mm energy saving glue tube (Any colour rendering)	no	5.00
518	Supply and replace including connecting up 28 watt 1200mm energy saving glue tube (Any colour rendering)	no	9.50
519	Supply and replace including connecting up 54 watt 1500mm energy saving fluo tube	no	7.50
520	Supply and replace including connecting up fluorescent starter of any size	no	1.50
521	Supply and replace including connecting up low loss ballast for 14 watt lamp	no	9.00
522	Supply and replace including connecting up low loss ballast for 28 watt lamp	no	11.00
523	Supply and replace including connecting up PL 9 watts to 13 watt lamp	no	9.00
524	Supply and replace including connecting up 10w to 40w 2D fluorescent lamp 2 to 4 pin	no	15.50
525	Supply and replace including connecting up 60w and above spiral compact fluorescent lamp	no	30.00
526	Supply and replace including connecting up PL-18 - 26 watt lamp	no	15.00
527	Supply and replace including connecting up ballast for PL 9 watt - 11 watt	no	6.00
528	Supply and replace including connecting up ballast for PL 13 watt - 18 watt	no	8.00
529	Supply and replace 10W - 13W PLC lamp including connecting up	no	14.00
530	Supply and replace 18W - 26W PLC lamp including connecting up	no	16.50
531	Supply and replace including connecting up ceiling rose with 3-plate	no	4.50
532	Supply and replace including connecting up batten holder/lamp holder	no	4.50
533	Supply and replace including connecting up capacitor for 1- 2 metre or 1.5 metres ceiling fan	no	9.00
534	Supply and replace including connecting up 3 amp SP water tight switch	no	20.00
535	Supply and replace including connecting up twin gang 5 amp SP water tight switch	no	30.00
536	Supply and replace including connecting up ceiling fan regulator of any type and make	no	16.50
537	Supply and replace 8w fluorescent tube for exit light luminaries including connecting up	no	3.00
538	Supply and install plot cell control switch including connecting up	no	45.00
539	Supply and replace polypropylene power factor capacitor for any sizes of light fitting	no	5.00
540	Supply and replace prismatic acrylic diffuser, size 600mm x 600mm	no	10.00
541	Supply and replace prismatic acrylic diffuser, size 1200 x 600mm	no	14.00
542	Supply and replace existing diffuser to egg crate silver anodized diffuser of any sizes including disposal	no	25.00
543	Supply and replace/install including connecting up 6 gang 5 amps white rocker plate SP c/w moulded surface mounting box	no	12.00
544	Supply and replace/install including connecting up 8 gang 5 amps white rocker plate SP c/w moulded surface mounting box	no	14.00
545	Supply and install/replace including connecting up to power point and ready to operate for an electronic time switch 230V, 50Hz, 7 days operations, class of operation IP 42/11, with minimum time setting of 1 minute. The timer shall have 24 start/stop functions.	no	400.00
546	Supply and install digital electronics time switch 230 volt 50 Hz c/s 10 Amp.	no	160.00
547	Supply and install including connecting up to 35-60 Amp star-delta motor starter contactor c/w auxillary contacts	no	340.00
548	Supply and replace Bulb ES or BC 15w-100w	no	3.00

S/No	Description	Unit	Unit Cost (\$)
549	Supply and replace 42W PLC (4 pins) lamp (OSRAM) or equivalent	no	30.00
550	Supply and replace 35w-50w Halogen lamp c/w Cool beam & UV filter type	no	20.00
551	Supply and replace 10w Halogen lamp (Emergency light)	no	10.00
552	Supply & replace 5w 6.3v blub (pilot indicating light)	no	2.00
553	Supply and replace 35w - 60w ES or BC carbon bulb (Philips) or equivalent	no	40.00
554	Supply & replace 20w - 40w UV fluorescent	no	40.00
555	Supply & replace 50w HME mercury lamp	no	14.00
556	Supply & replace Ballast for 50w HME mercury lamp	no	26.00
557	Supply & replace 32w -40W circular flow lamp	no	10.00
558	Digital KHH meter, 32A to 1000A equivalent c/w CTS ,< (>&<) > connections, wiring	no	300.00
559	Supply & replace 150W - 250w Sodium Vapour lamps ballast	no	50.00
560	Supply and replace 150w-250w sodium Vapour lamp	no	120.00
561	Supply & replace 70w metal halide lamp/sodium	no	35.00
562	Supply and replace 70w-200w metal halide lamp	no	50.00
563	Supply and replace 70w - 200w metal halide ballast, type constant wattage auto-transformer (CWA)	no	70.00
564	Supply and replace outdoor light fitting (L-810) 35w-50w 12V low voltage c/w bulb and transformer	no	120.00
565	Supply and replace outdoor light fitting 12V to 24V, 35w - 50w transformer	no	50.00
566	Supply and replace including connecting 50 to 65 watt lamps (energy saving lamp)	no	40.00
567	Supply & replace 1000 to 2000 watts sodium/mercury/metal halide lamp	no	150.00
568	Supply & replace ballast for 1000 to 2000 watts sodium/mercury/metal halide lamp	no	250.00
569	Supply & replace ignitor for 1000 to 2000 watts sodium/mercury 1 metal halide lamp	no	50.00
570	Supply & replace including connecting up ballast for PLC 10- 23 watts	no	7.00
571	Supply & replace including connecting up ballast for PLC 18- 26 watts	no	16.00
572	Supply & replace fluorescent tube T5 (16mm) extra slim 25w Supply & replace weather protected junction Box IP65 of	no	18.00
573	any sizes	no	120.00
574	Supply & replace ground buried luminaries metal halide fitting c/w 1 x 70w/100w lamp complete with control gear and protection conforms to IP 67 class 1	no	500.00
575	To check, testing, service and commissioning (software programming) lighting dimming system	no	400.00
576	To supply & replace 4-stage scene control & push button	no	300.00
577	To supply & replace master ON/OFF switch c/w indicating lights	no	70.00
578	To supply & replace HF electronic dimmable ballast for PLC bulb	no	120.00
579	To supply & replace HP electronic dimmable ballast for fluorescent tube	no	90.00
580	To supply & replace LT/HT step-down transformer for outdoor building lighted signages (Any capacity)	no	150.00
581	To supply & replace outdoor water-proof lighted signages bulb	no	8.00
582	To supply & replace programmable Dim Actuator DC 24V in Dimming System	no	120.00
583	To supply & replace bus-voltage supply module	no	200.00
584	To supply & replace programmable dimming control modules 0.7kw to 2 kw range	no	1,000.00
585	To supply & replace plug in thysistor or Transistor modules for phase controlled in dimming system, the power range from 3 kw to 5 kw with	no	1,200.00

S/No	Description	Unit	Unit Cost (\$)
	phase control		
586	Supply, install and replace Emergency Push button, 240V c/w Red button	no	40.00
587	Supply, install and replace 2 Amp to 10 Amp, cartridge fuse	no	3.00
588	Supply, install and replace Programmable Digital Power KWH meter (EDMI) c/w remote monitoring capability, CTs testing and commissioning, surge protection and LEW endorsement	lot	3,500.00
589	Supply, deliver and install 230B, 50 HZ Dehumidifier of capacity of at least 25 litres	no	2,500.00
590	Supply, install and replace Motion/ Presence Detector control switch, 230V, 50 hz c/w timer control capability for at least 30 minutes, detection angle of 360 degrees horizontal, 180 degrees vertical range and wiring	no	240.00
591	Supply & install Isolator point c/w 160Amp TP IP65 Isolator, in metal trunking, 5 x 1 core 70mm <sup>2</sup> PVC cable above 30m run	lot	2,000.00
592	Supply up to 28w 1200mm x 38mm fluo tube (any type of colour rendering)	no	4.00
593	Supply, install and replace explosion proof tube 1 x 28w	no	80.00
594	Supply, install and replace explosion proof ballast, 1 x 28W	no	100.00
595	To replace 1 x 54W electronics ballast	no	35.00
596	Supply and replace 1 x 108W electronics ballast	no	70.00
597	Supply, deliver, replace & install 10A 1-5 gang switches c/w 1 dimmer <(>&<)> base	no	20.00
598	Supply, deliver, replace & install 10A 1-5 gang switches c/w 2 dimmer (<(>&<)> base	no	25.00
599	Supply, deliver, replace and install 3-10W LED (halogen type 0 bulb c/w UV filter	no	30.00
600	Supply, deliver, replace and install Halogens LED/light strip driver	no	40.00
601	Supply, deliver, replace and install 1500mm light strip, 15- 30W	no	80.00
602	Supply, deliver, replace and install energy paving PAR 38, 25w	no	30.00
603	CDMT Lamp, 2 PIN - 15 W	no	30.00
604	Supply, install and replace 3 way, 400V 200A - 800A, 4 pole manual transfer switch c/w modification	no	990.00
605	Excavate cable pit for fault location 1.5m x 1.5m x 1.5m deep on ground including backfilling, compacting, make good and returfing (other size pits will be pro-rated accordingly)	no	150.00
606	Excavate trench 750mm deep x 300mm width on ground and backfilling including re-turfing	m	12.00
607	Excavate trench 750mm deep and 60mm width on ground and backfilling including re-turfing	m	14.00
608	Excavate trench 750mm x 300mm on gravel road and backfilling including making good	m	80.00
609	Excavate trench 750mm x 300mm on metalled/concrete surface using diamond cutter and patching/milling	m	120.00
610	Supply and lay in prepared trench 100mm dia PVC pipe with 300mm x 300mm concrete haunching and materials and	m	16.80
611	Supply and lay in prepared trench 150mm dia PVC pipe with 450mm x 450mm concrete haunching and materials and labour for PVC pipe jointing	m	28.00
612	Supply and lay cable warning files (Yellow colour)	m	10.00
613	Supply and lay cable markers with engraving and painting (150mm x 100mm x 5mm)	no	40.00
614	Supply and lay 6mm <sup>2</sup> 2 core PVC/SWA/PVC cable to BS 6346, 600/1000V grade	m	8.40

S/No	Description	Unit	Unit Cost (\$)
615	Supply and lay 10mm <sup>2</sup> 2 core PVC/SWA/PVC cable to BS 6346, 600/1000V grade	m	12.60
616	Supply and lay 16mm <sup>2</sup> 2 core PVC/SWA/PVC cable to BS 6346, 600/1000V grade	m	16.45
617	Supply and lay 4mm <sup>2</sup> - 10mm <sup>2</sup> 4 core PVC/SWA/PVC cable to BS 6346, 600/1000V grade	m	18.80
618	Supply and lay 16mm <sup>2</sup> 4 core PVC/SW A/PVC cable to BS 6346, 600/1000V grade	m	27.30
619	Supply and lay 25mm <sup>2</sup> 2 core PVC/SW A/PVC cable to BS 6346, 600/1000V grade	m	22.10
620	Supply and lay 25mm <sup>2</sup> 4 core PVC/SW A/PVC cable to BS 6346, 600/1000V grade	m	37.35
621	Supply and lay 95mm <sup>2</sup> 4 core PVC/SW A/PVC cable to BS 6346, 600/1000V grade	m	117.35
622	Supply and lay 150mm <sup>2</sup> 4 core XLPE or PVC/SWA/PVC cable to BS 6346, 600/1000V grade	m	180.70
623	Supply and lay 240mm <sup>2</sup> 4 core XLPE or PVC/SWA/PVC cable to BS 6346, 600/1000V grade	m	252.00
624	Supply and lay 300mm <sup>2</sup> 4 core XLPE or PVC/SWA/PVC cable to BS 6346, 600/1000V grade	m	300.00
625	Supply and install brass glands termination for 10mm <sup>2</sup> to 25mm <sup>2</sup> 2C PVC/SW A/PVC cable	no	35.00
626	Supply and install brass glands termination for 35mm <sup>2</sup> to 70mm <sup>2</sup> 2C -4C PVC or XLPE/SW A/PVC cable	no	35.00
627	Supply and install brass glands termination for 95mm <sup>2</sup> to 150mm <sup>2</sup> 4C PVC or XLPE/SWA/PVC cable	no	65.00
628	Supply and install brass glands termination for 240mm <sup>2</sup> to 400mm <sup>2</sup> 4C PVC or XLPE/SW A/PVC cable	no	125.00
629	Pot end c/w lead inner sleeves any size of cable	no	49.50
630	Up to 4mm <sup>2</sup> conductor	no	2.50
631	Up to 10mm <sup>2</sup> conductor	no	3.50
632	16mm <sup>2</sup> to 25mm <sup>2</sup> conductor	no	6.00
633	50mm <sup>2</sup> to 150mm <sup>2</sup> conductor	no	16.00
634	180mm <sup>2</sup> and above	no	22.00
635	6mm <sup>2</sup> tp 16mm <sup>2</sup> 2 core or 4 core straight through joint	no	130.00
636	25mm <sup>2</sup> 2 core or 4 core straight through joint	no	200.00
637	95mm <sup>2</sup> to 150mm <sup>2</sup> 4 core straight through joint	no	270.00
638	240mm <sup>2</sup> to 400mm <sup>2</sup> 4 core straight through joint	no	325.00
639	Supply and lay 70mm <sup>2</sup> 4 core XLPE/SW A/PVC cable to IEC 502, 600/1000V grade	m	90.00
640	Supply and lay 35mm <sup>2</sup> 4 core XLPE/SW A/PVC cable to IEC 502, 600/1000V grade	m	54.00
641	Supply and lay 50mm <sup>2</sup> 4 core XLPE/SW A/PVC cable to IEC 502, 600/1000V grade	m	72.00
642	Supply and lay 70mm <sup>2</sup> 4 core XLPE/SWA/PVC cable to IEC 502, 600/1000V grade	m	90.00
643	Supply, lay and replace 6600V, 300mm <sup>2</sup> 3 core XLPE underground cable (High Tension), including excavation of at least 1.5m deep, backfilling, compacting, returfing and cable slab.	m	360.00

S/No	Description	Unit	Unit Cost (\$)
644	Supply, lay and replace 22000V, 300mm <sup>2</sup> , 3 core XLPE underground cable (High Tension) including excavation of at least 1.5m deep backfilling, compacting, returfing and cable slab.	m	400.00
645	Supply, labour all materials for 6600V to 2200V underground High Tension cable straight joint including excavation of at least 1.5m deep backfilling, compacting, returfing, cable slab, test <(>&<)> commissioning c/w PE endorsement and reports	lot	3,000.00
646	Supply, lay and replace 10 pairs, 240V 2.5mm <sup>2</sup> , DSTA PVC pilot underground cable, including excavation of at least 1.5m deep, backfilling, compacting, returfing and cable slab	m	50.00
647	Supply, lay and replace 20 pairs, 240V 2.5mm <sup>2</sup> , DSTA PVC pilot underground cable, including excavation of at least 1.5m deep, backfilling, compacting, returfing and cable slab	m	120.00
648	Supply, labour, all materials for 10 pairs or 20 pairs, 240V 2.5mm <sup>2</sup> , underground DSTA PC pilot cable straight joint including excavation of at least 1.5m deep, backfilling, compacting, returfing, cable slab, test <(>&<)> commissioning c/w PE endorsement and reports	lot	2,200.00
649	Supply, labour (licensed cable detector), equipment and all materials necessary to check, trace, trouble shoot, cable detection and submission of report (for all types of underground high tension cable - 6600V/2200KV	no	2,500.00
650	Supply and install brass gland termination for 4mm <sup>2</sup> to 6mm <sup>2</sup> , 2C-4C PVC or XLPE/SW A/PVC cable	no	25.00
651	Supply and replace including connecting up 28 watt, 900mm	no	8.50
652	Supply deliver, install and replace heavy duty 6mm thickness rubber insulation mat	m	40.00
653	Supply and lay 6mm <sup>2</sup> XLPE single core cable, 600 /1000V	m	4.80
654	Supply and lay 10mm <sup>2</sup> XLPE single core cable, 600 /1000V	m	5.40
655	Supply and lay 16mm <sup>2</sup> XLPE single core cable, 600/1000V	m	6.00
656	Supply and lay 25mm <sup>2</sup> XLPE single core cable, 600/1000V	m	9.60
657	Supply and lay 35mm <sup>2</sup> XLPE single core cable, 600/1000V	m	12.00
658	Supply and lay 50mm <sup>2</sup> XLPE single core cable. 600/1000V	m	15.60
659	Supply and lay 70mm <sup>2</sup> XLPE single core cable, 600/1000V	m	21.60
660	Supply and lay 95mm <sup>2</sup> XLPE single core cable, 600/1000V	m	26.40
661	Supply and lay 120mm <sup>2</sup> XLPE single core cable, 600/1000V	m	42.00
662	Supply and lay 150mm <sup>2</sup> XLPE single core cable, 600/1000V	m	57.60
663	Supply and lay 240mm <sup>2</sup> XLPE single core cable, 600/1000V	m	114.00
664	Supply and lay 300mm <sup>2</sup> XLPE single core cable, 600/1000V	m	144.00
665	Supply and lay 400mm <sup>2</sup> XLPE single core cable, 600/1000V	m	192.00
666	Supply and lay 500mm <sup>2</sup> XLPE single core cable, 600/1000V	m	240.00
667	Supply and lay 630mm <sup>2</sup> XLPE single core cable, 600/1000V	m	300.00
668	Ceiling fan 40 to 60 inches sweep c/w up to 1.5 metres down rod and speed regulator. Make: National F601BS or equivalent (SISIR approved)	no	200.00
669	Bracket wall fan 300mm oscillating. Make Hitachi or equivalent (SISIR approved)	no	130.00
670	Bracket wall fan 400mm oscillating. Make Hitachi or equivalent (SISIR approved)	no	200.00
671	Bracket wall fan 500mm oscillating. Make Hitachi or equivalent (SISIR approved)	no	350.00
672	Bracket wall fan 600mm oscillating. Make Hitachi or equivalent (SISIR approved)	no	400.00
673	Ceiling oscillating fan 400mm x/w bracket and regulator Hitachi or similar	no	144.00



S/No	Description	Unit	Unit Cost (\$)
674	Additional length of down rod for ceiling fan	no	6.00
675	To supply/install 20cm KDK or equivalent exhaust fan	no	121.00
676	To supply/install 25cm KDK or equivalent exhaust fan	no	150.00
677	To supply/install 30cm KDK or equivalent exhaust fan	no	187.00
678	To supply/install 30cm KDK or equivalent Industry exhaust fan	no	400.00
679	To supply/install 50cm KDK or equivalent Industry exhaust fan	no	520.00
680	To supply/install 40cm KDK or equivalent Industry exhaust fan	no	700.00
681	Open a concrete hole for exhaust fan including providing wooden frame	no	75.00
682	To remove existing window glass and cover back by wooden block c/w painting	no	18.00
683	To supply/install 15cm KDK or equivalent exhaust fan	no	100.00
684	Painting of existing ceiling fan (all sizes) - sand down and clean before painting	no	10.00
685	Supply and install or replace hand drier (automatic) similar to "Stibel Eltron or "vortice" - ADHR or equivalent	no	450.00
686	Supply and replace the printed Circuit Board (PCB) in the hand-drier including removing the defective PCB, connecting up ready for operation and testing	no	120.00
687	Supply and replace the heating element in the hand-drier including connecting up and testing	no	55.00
688	Paint ceiling fan 1.5 metres or 1.2 metres sweep c/w speed regulator (sand down and clean before painting)	no	10.00
689	Paint fluorescent fitting c/w down rods (sand down and clean before painting)	no	7.00
690	Paint 300mm - 400mm bracket wall (oscillating) fan (sand down and clean before painting)	no	7.00
691	Paint 500mm - 600mm bracket wall (oscillating) fan (sand down and clean before painting)	no	9.00
692	To carry out inspection on safe operation of the ceiling fan inclusive of the system, supports, bolts, etc. for impending corrosion, fatigue failure and disintegration and to ensure that the fan will not collapse within 12 months from the date of inspection. A report and certification of completion for the fans shall be issued by the Contractor to the University	no	30.00
693	To perform 1 time servicing for Dehumidifier inclusive of washing of filters, clearing of reservoir etc.	no	50.00
694	To make good or convert existing opening to fire stop (for opening not more than 3m x 3m per level)	no	300.00
695	Supply/install 13 amps plug top	no	3.00
696	Supply/install 15 amps plug top	no	4.00
697	Supply and install stainless steel type of anchor bolt and nut (this item does not apply to new installation)	no	30.00
698	Arrange for PUB testing and installation of lighting/power KWH meter for first consumer 40A to 100A TF supply c/w LEW endorsement	no	100.00
699	Arrange for testing and installation of lighting/power KWH meter for subsequent consumer unit within the same premises	no	50.00
700	Scrapping and repainting of O/G box for feeder pillar (one under coat of anti-rust paint and two coats of approved finishing paint)	no	80.00
701	Scrapping and repainting street lighting, perimeter lighting or O/H distribution steel poles (one undercoat of anti-rust paint and two coats of approved finishing paint and numbered accordingly by 3" brass stencils)	no	80.00

S/No	Description	Unit	Unit Cost (\$)
702	Scrapping and repainting street lighting, perimeter lighting or O/H distribution steel poles (one undercoat of anti-rust paint and two coats of approved finishing paint and numbered accordingly by 3" brass stencils)	no	60.00
703	Scrapping and repainting outdoor park lighting pole (one undercoat of antirust paint and two coats of approved finishing paint and numbered accordingly by 3" brass stencils)	no	100.00
704	Install only and make concrete foundation, correct wiring c/w provision of parts, install pole top fitting and globe cover, check cable and commission street lights. (lamp post by others)	no	120.00
705	Breaking up concrete foundation, excavate, backfill, straighten street light pole or overhead mains, mild steel pole and remake concrete foundation	no	42.00
706	Breaking up concrete foundation, excavate, backfill and remove street light pole c/w pole top fitting overhead main pole and return to Estate Office Store, including provision of labour and transport	no	65.00
707	Shunt trip coil for MCCB of any ampere	no	100.00
708	Danger signboard in 4 languages	no	18.00
709	Danger sticker in 4 languages	no	10.00
710	60A BI Connector	no	20.00
711	100A BI Connector	no	30.00
712	20-150 Amp 1-phase direct connected KWH meter	no	240.00
713	Selector switch	no	20.00
714	Insulating fibre 300mm x 300mm x 5mm	no	10.00
715	insulation PVC sheet 300mm x 300mm x 1.5mm	no	4.00
716	1.5mm <sup>2</sup> to 4mm <sup>2</sup> cable link	no	2.50
717	30-100A 3-phase direct connected KWH meter	no	450.00
718	200 to 400/5A 3-phase 4 wire CT connected KWH meter	no	600.00
719	Weather proof switch socket c/w plug 20A single phase 3 poles or three phase 4 poles	no	220.00
720	Weather-proof switch socket c/w plug 30A single phase 3 poles or three phase 4 poles	no	270.00
721	Weather-proof switch socket c/w plug 30A three phase 5 poles	no	350.00
722	Weather-proof switch socket c/w plug 60A three phase 5 poles	no	450.00
723	Electronic potential dimming switch to Philips LPS-100 or equivalent	no	100.00
724	Supply and riveting of traffolyte labels (engraved with black/white/red letterings on backgrounds) up to 150mm x 40 mm	no	5.00
725	Similar to the above labels from above 150mm x 40mm Circular globe of 400 to 650mm diameter	no	8.00
726	Supply all labour, transport, materials and equipment to conduct Primary Injection (PI)	no	400.00
727	Testing of circuit breaker inclusive of LEW (PE) endorsement (First Test)	no	450.00
728	Similar to above PI Test but for subsequent breaker at the same time	no	150.00
729	Supply all labour, transport, materials and equipment to conduct Secondary Injection (SI) Testing of circuit breaker inclusive of LEW (PE) endorsement (First Test)	no	350.00
730	Similar to above SI test but for subsequent breaker at the same time	no	100.00
731	Supply labour, transport, tools and material for the servicing of LT SWBD inclusive of air circuit breaker (of any rating up to 400A)	no	400.00
732	Soppy and lay 150mm diameter heavy duty UPVC pipe including socket connector and end cap SS141 Class B	m	15.00
733	Supply and lay 100mm diameter heavy duty UPVC pipe including socket connector and end cap SS141 Class B	m	12.00

S/No	Description	Unit	Unit Cost (\$)
734	Supply and lay 50mm diameter heavy duty UPVC pipe including socket connector and end cap SS213	m	10.00
735	To update a A1 or AO size electrical soft/hardcopy single line drawing c/w PE endorsement	no	300.00
736	High performance lead acid (Plante type) battery for Genset of 1.85v 157AH at C8 20°C	no	300.00
737	Nickel cadmium battery of 1.15v of 33AH at C5 20°C	no	250.00
738	Height of scaffolding 4.1m to 10m	no	100.00
739	Height of scaffolding 4m to 10m c/w certified scaffold erector PE endorsement	no	500.00
740	Height of scaffolding 10m and above c/w certified scaffold erector PE endorsement	no	1,000.00
741	Not In Use		
742	Not In Use		
743	Circular globe of 400 diameter and below	no	200.00
744	Hiring of suspended cradles/gondolas or mechanically powered jack type gondolas of 2.00m length of below including erection, maintaining, shirting anchorages testing certifying by approval engineer endorsement removing after use, all as specified for first week	no	1,000.00
745	To supply & install industrial plug and connector (IP44) 20A to 32A, 240v	no	150.00
746	To supply & install industrial plug and connector (IP44) 20A to 32A, 400v	no	230.00
747	Supply only GE SPECTRA BUSWAY (225A to 600A) with 3 pole dull neutral and 50% internal copper earth bar	no	2,500.00
748	Supply 60A/10A TPN MCCB Plug Unit	no	1,251.00
749	Supply 150A/200A TPN MCCB Plug	no	2,658.00
750	Supply 300A/400a TPN MCCB Plug	no	4,514.00
751	Supply 600A TPN MCCB Plug Unit	no	8,124.00
752	Supply only flange end for 225A to 100A Busway	no	960.00
753	Supply only flange end for 1200a to 1600A Busway	no	1,350.00
754	Supply only Flange end for 200A to 3000A Busway	no	2,110.00
755	Supply only cable tap box for 225a to 1000A Busway	no	770.00
756	Supply only cable tap box for 1200A to 1600A Busway	no	111.00
757	Supply only cable tap box for 2000A to 3000a Busway	no	1,800.00
758	Supply only spring hanger for 225A to 3000A Busway to 3000A Busway	no	36.00
759	Supply and end box for 225A	no	80.00
760	Supply only 90 Deg elbow for 225A to 300A Busway	no	337.00
761	Supply only tee for 225A to 300A Busway	no	405.00
762	Supply/install/replace Busway 400A - 800A (TP40) with 3 pole full neutral 50% internal copper earth bar c/2 cable tap box, spring hanger, end box and testing & commissioning	no	3,000.00
763	Supply/Install/Replace Busway 1000A -1600A (IP40) with 3 pole full neutral 50% internal copper earth bar c/w cable Tap Box, spring Hanger, End Box and Testing & commissioning	no	3,700.00
764	Supply/Install/Replace Busway 1350A -2000A (IP40) with 3 pole full neutral 50% internal copper earth bar c/w cable Tap Box, spring Hanger, End Box and Testing & commissioning	no	4,500.00
765	Supply/Install/Replace Busway 2000A -3200A (IP40) with 3 pole full neutral 50% internal copper earth bar c/w cable Tap Box, spring Hanger, End Box and Testing & commissioning	no	5,000.00

S/No	Description	Unit	Unit Cost (\$)
766	Supply/Install/Replace Busway 3200A -4000A (IP40) with 3 pole full neutral 50% internal copper earth bar c/w cable Tap Box, spring Hanger, End Box and Testing & commissioning	no	5,800.00
767	Supply/Install/Replace Road lighting Die Cast aluminum alloy fitting IP66 c/w control gear of 150W - 250W high pressure sodium lamps, ignitor, anodised reflector and mounting bracket.	no	950.00
768	Supply/install/replace Zebra Crossing lighting fitting c/w synchronized timer, yellow globe lamp 100W bulb (long life type)	no	400.00
769	Re-arrangement of main cables of any sizes at Switch room riser & Plant Room	no	300.00
770	Supply of labour and carry out underground detection service by qualified or licensed person	no	800.00
771	Supply/Install/Replace Decorative Bollard fitting c/w control gear, lamp holder at 1m height complete with underground planting.	no	350.00
772	Supply labour, transport, tools and material for the servicing of LT SWBD of rate up to 800A for sub LT SW RM and MDB	no	200.00
773	Supply & install 150A to 250A 4-pole Termination block	no	100.00
774	Supply and Install 300A to 400A 4-pole Termination Block	no	140.00
775	Supply/install/replace road lighting Die Cast Aluminium alloy fitting IP66 c/w control gear of 150W-250W high pressure sodium lamps, ignitor, anodised reflector, 3-6m hot-dipped galvanised planted or flanged pole, concrete plinth with PE endorsement, drawing of the underground concrete plinth, labor to excavate and backfill of earth, luminous labelling and mounting bracket	no	2,200.00
776	To check, maintenance, labour & conduct lightning and earthing impedance test c/w reported drawing by LEW schedule of servicing and others	per building	420.00
777	To provide labour to open panels and conduct thermal infra- red imaging scanning c/w report for each LT board with/without coupler/MSB/sub board	per LT board	500.00
778	To check, maintenance, labour and conduct Insulation test and tightening of Busbar system both vertical and horizontal position c/w report and drawing by LEW during after office hour period including on Sunday and Public Holiday	no	200.00
779	Not In Use		
780	Supply install and replace Zebra crossing lamp-post c/w 3m galvanized flagged pole, concrete plinth with PE (C&S) endorsement, drawing of the underground concrete plinth, labor to excavate and backfill of earth, painting of yellow & black colour, luminous labeling synchronized timer, yellow globe and 100W bulb	no	1,200.00
781	Supply, labour, equipment & all materials equipment necessary to conduct check and service of low tension servicing of Main switchboard (MSB with two incoming Air Circuit Breakers with one coupler of capacity from 1.5 MVA to 2.5MVA, MCCBs, Primary injection Test (PI) Secondary Injection Test (SI) Earth Fault Relays Over current Relays, current transformers replacement of bulbs, and fuses an other related parts with the MSB tightening of busbars, cleaning/vacuuming of enclosure, Professional engineer service to Turn OFF & ON of the ACBs/MCCBs submission of reports (COC, PI/SI testing, insulation/megger test) c/w FE endorsement. The work is to be carried out on after hour, ie Saturday, Sunday and Public Holiday	lot	5,000.00

S/No	Description	Unit	Unit Cost (\$)
782	Supply, labour, equipment & all materials equipment necessary to conduct check and service of low tension servicing of Main switchboard (MSB) with two incoming Air Circuit Breakers with one coupler of capacity less than 1.5 MVA .5MVA, MCCBs, Primary injection Test (PI) Secondary Injection Test (Si) Earth Fault Relays Over current Relays, current transformers replacement of bulbs, and fuses an other related parts with the MSB tightening of busbars, cleaning/vacuuming of enclosure, Professional engineer service to Turn OFF <(>&<)> ON of the ACBs/MCCBs submission of reports (COC, PI/SI testing, insulation/megger test) c/w PE endorsement. The work is to be carried out after office hour, ie Saturday, Sunday and Public Holiday	lot	3,400.00
783	Supply labour, install, erect transport, equipment, tools and all materials of metal scaffolding work c/w with safety step ladders, toe boards, hardness and others related safety gadgets including inspection and testing c/w Per endorsement, submission to comply to all relevant authorities, eg MOM in compliance to BCA's safety Act requirements for the height of at least 15 metres and above	lot	850.00
784	Supply and replace 230V, hour run meter	no	180.00
785	Supply and install AO/A1 size drawing frame	no	100.00
786	13A single PVC switch socket outlet c/w built in RCD and pilot lights	no	99.00
787	13A twin PVC switch socket outlet c/w built in RCD and pilot lights	no	140.00
788	Draw, update, replace and install AO/A1 size, SLD/electrical layout/floor plan in hardcopy and soft copy both PDF & AutoCAD format c/w LEW endorsement	no	150.00
789	Supply, deliver replace and install electrical enclosure keyway/lockset hinges/turn, knob/ABROY lockset	no	20.00
790	Supply, deliver replace and install digital power analyser c/w communication module "Rudolf/MG/Janitza Brand" or equivalent	no	300.00
791	Rental of mobile genset 501 - 1000KVA for a day (including supply, deliver, install, including fuel, main & final cabling, Socket Outlet Assembly, LEW endorsement on test report, apply SI license, comply to CP88 and MOM requirements)	no	800.00
792	Provide mobile crane for street light maintenance/repairs, above 6m from ground level, replacement of 1-4 street lights	no	200.00
793	Provide mobile crane for street light maintenance/repairs, above 6m from ground level, replacement of 5-8 street lights	no	300.00
794	Provide mobile crane for street light maintenance/repairs above 6m from ground level, replacement of 8-12 street lights	no	400.00
795	Up to 0..025 cu metre	no	260.00
796	In excess of 0.025 cu metre to 0.05 cu metre	no	400.00
797	In excess of 0.5 cu metre to 0.75 cu metre	no	500.00
798	In excess of 0.975 cu metre to 0.1 cu metre	no	600.00
799	In excess of 0.1 cu metre to 0.125 cu metre	no	700.00
800	In excess of 0.125 cu metre to 0.18 cu metre	no	800.00
801	In excess of 0.18 cu metre to 0.27 cu metre	no	900.00
802	Supply and install weatherproof mild steel 16 SWG enclosure (powder coated) c/w rain hood and provision for padlocking of size 1100mm(H) x 1000mm (W) x 450mm (D)	no	950.00
803	Planted /flange mounted 3-3.5m pole	no	280.00
804	Planted/flanged mounted 6m pole	no	450.00
805	Planted/flanged mounted 8m pole	no	600.00

S/No	Description	Unit	Unit Cost (\$)
806	Supply and install hot-dipped galvanized mild steel bracket for one floodlight luminaries to be used on lamp pole	no	210.00
807	Similar as above but for two or three floodlight luminaries on lamp pole	no	300.00
808	Supply and install OG Box of size 1300mm(H) x 820mm(W) x 350mm(D) c/w base	no	1,600.00
809	Supply and install OG Box of size 1200mm(H) x 700mm(W) x 250mm(D) c/w base	no	1,200.00
810	Supply and install OG Box of size 1200mm(H) x 700mm(W) x 220mm(D) c/w base	no	1,100.00
811	Concrete collar, plinth and foundation OG box only	no	360.00
812	To supply, fabricate, deliver & install Main Distribution board (MCB) of 250 Amp to 400Amp, 400V rating, weatherproof IP55, mild steel, 16 SWG enclosure (power coated) of dimension of Up to 0.35m <sup>3</sup> , c/w indicating lights (2 sets) fuses, Earth Fault relay shunt trip, Ammeter, voltmeter, selector switch, CTs 6 Nos of out going 40Amp to 150Amp, 22KA TP MCCB. All works shall include PE endorsement. Single-line drawing, terminations, removal cutting of holes, rearrangement of submains cables cleaning and other related works.	lot	6,500.00
813	To supply, fabricate, deliver & install Main Distribution board (MCB) of 500 Amp to 800Amp, 400V rating, weatherproof IP55, mild steel, 16 SWG enclosure (power coated) of dimension of up to 1.25m <sup>3</sup> , c/w indicating lights (2 sets) fuses, Earth Fault relay shunt trip, Ammeter, voltmeter, selector switch, CTS 6 Nos of out going 40Amp to 300Amp, 22KA TP MCCB. All works shall include PE endorsement. Single-line drawing, terminations, removal cutting of holes, rearrangement of submains cables cleaning and other related works.	lot	10,000.00
814	To supply, fabricate, deliver & install Main KWH meter enclosure c/w EMA's KWH meter, BI, cut-out (MCB or Fuses) Internal wiring, termination works, removal and LEW endorsement up to at least 45 KVA 240/400V.	lot	400.00
815	Supply, fabricate, deliver & install KWH meter enclosure c/w EMA's KWh meter BI, Cut-out (MCB or Fuses) Internal wiring terminating works, removal and LEW endorsement up to at least 104KVA, 240/400V	lot	
816-823	Not In Use		
824	Dispatch LEW/ Electrician services works on weekdays whole day (24hrs)	hr	50.00
825	Dispatch LEW/ Electrician services on (Sat/Sun/PH) whole day (24hrs)	hr	70.00
826	Dispatch LEW/ Technician services works on weekdays whole day(24hrs)	hr	100.00
827	Dispatch LEW/ Technician services on (Sat/Sun/PH) whole day (24hrs)	hr	130.00
828	Dispatch LEW/ PE services works on weekdays whole day(24hrs)	hr	160.00
829	Dispatch LEW/PE services on (Sat/Sun/PH) whole day(24hrs)	hr	200.00
830	Labour charges for engineer to check, test and recommission the Dimming programmable console systems at Lecture theatre and Seminar Room	hr	60.00
831	Not in use		
832	To supply, deliver, transportation for rental of Room Lift to a height of at least 20 metre c/w Licensed machine operator, valid certified permit of the machine and other necessary	lot	650.00
833	IRAT Technician equipped with gear and mounting accessories	hr	20.00
834	Draftsmen service	hr	10.00
835	High grade lubrication oil	lit	8.00
836	High grade coolant	no	4.00
837	Fuel filter	no	51.00
838	Air filter	no	92.00

S/No	Description	Unit	Unit Cost (\$)
839	Oil filter	no	377.00
840	Supply manpower , transportation, hoisting including cables, equipment and other accessories for the executing of Artifice Load-bank Testing (up to 500KVA)	lot	4500.00
841	Supply manpower , transportation, hoisting including cables, equipment and other accessories for the executing of Artifice Load-bank Testing (up to 1500KVA)	lot	8000.00
842	To supply and perform the shutdown Preventive Maintenance to one switchgear panel of 22kV AIS or GIS switchboard of any makes inclusive of busbar & cable insulation test and submitting endorsed test report	ea	1050.00
843	To supply and perform the shutdown Preventive maintenance to one unit of either 22kV/400V to 1.5 - 3.5MVA distribution transformer (of any makes) inclusive of cleaning conducting the transformer windings & cable insulation tests, oil dielectric test & protection devices interfacing test, and submitting test reports.	ea	520.00
844	To check, clean and perform the maintenance for 30VDC battery panel unit	ea	200.00
845	To supply, deliver, collect and perform oil quality test (OQT) on the main tank of distribution transformer with ratings ranging from either 22kV/ 415V for 1.5 – 3.5MVA and submitting test reports	ea	350.00
846	To supply, deliver, collect and perform dissolved gas analysis test (DGA) on the main tank of distribution transformer with ratings ranging from either 22kV/ 415V for 1.5 – 3.5MVA and submitting test reports	ea	400.00
847	To supply, deliver and perform partial discharge locator (PDL) measurement with the supplement of using ultra sound detector, if necessary, on one 22kV panel and submitting test reports	ea	350.00
848	To supply, deliver and perform partial discharge monitor (PDM) measurement on 22kV switchboard of up to a max of 7 panels for duration of up to 7 days inclusive of submitting test reports	ea	3500.00
849	To supply, deliver, dismantle, dispose, replace and/or install 1 set of HV or LV warning/caution signage	ea	50.00
850	To supply, deliver, dismantle, dispose, replace and/or install 1set of first aid chart	ea	40.00
851	To supply, deliver, dispose, replace and/or lay 1 full length, of up to 5metres, of rubber mats of 6mm thickness in-front of the HV or LV main switchboard	ea	250.00
852	Replace the existing faulty battery panel unit with the supply, deliver, dispose, install, test and commission the new battery charger with batteries cells in the same battery charger enclosure for the 30VDC supply	ea	4200.00
853	Carry out top-up of nitrogen gas to 1.5 – 3.5MVA transformer tank inclusive of verification checks both before and after top up and further top-up to detect leakage if necessary	ea	700.00
854	Carry out on-site repair of oil leak from bolted tank cover of 1.5 – 3.5MVA transformer inclusive of replacing the worn-out gasket, pumping out and in of transformer oil, conducting insulation resistance and ratio tests, etc	ea	12000.00
855	Carry out replacement of transformer pressure switch inclusive of verification checks both before- and after- replacement	ea	3200.00
856	Carry out replacement of transformer oil temperature guage inclusive of verification checks both before- and after- replacement	ea	3200.00
857	Carry out replacement of transformer oil level guage inclusive of verification checks both before- and after- replacement	ea	3200.00

S/No	Description	Unit	Unit Cost (\$)
858	To replace to new protection relays inclusive of verification tests: removing, installing and connecting of cables and relays and checks both before and after replacement Over- Current without high set relay	ea	4000.00
859	To replace to new protection relays inclusive of verification tests: removing, installing and connecting of cables and relays and checks both before and after replacement Over- Current with high set relay	ea	5500.00
860	To replace to new protection relays inclusive of verification tests: removing, installing and connecting of cables and relays and checks both before and after replacement pilot wire protection	ea	4000.00
861	To replace to new protection relays inclusive of verification tests removing, installing and connecting of cables and relays and checks both before and after replacement earth fault	ea	2500.00
862	To carry out cable insulation tests to high voltage power cables and/or pilot and supervisory cables	lot	500.00
863	Supply and lay/install 2 row 2 nos of 150mm diameter HD UPVC pipers encased in concrete	m	200.00
864	To supply, deliver to site and lay 22kV 3C/300 sq mm XLPE/DSTA/PVC multi-core, stranded copper conductor cable in prepared trench (exclude the trench excavation)	m	220.00
865	To supply, deliver to site and lay 22kV 3C/185 sq mm XLPE/DSTA/PVC multi-core, stranded copper conductor cable in prepared trench (exclude the trench excavation)	m	330.00
866	To supply, deliver to site and lay 1 length of 10 twisted pairs 2.5 sq mm PVC/SWA/PVC pilot cable in prepared trench (exclude the trench excavation)	m	100.00
867	To supply, deliver to site and lay 1 length of 20 twisted pairs 2.5 sq mm PVC/SWA/PVC pilot cable in prepared trench (exclude the trench excavation)	m	200.00
868	Licensed cable jointer to supply and install cable joint for straight cable joint to 22kV power cable	ea	2500.00
869	Rental of mobile genset 501 - 1000KVA for a week (including supply, deliver, install, including fuel, main & final cabling, Socket Outlet Assembly, LEW endorsement on test report, apply SI license, comply to CP88 and MOM requirements)	lot	4000.00
870	Rental of mobile genset 200 - 500KVA for a day (including supply, deliver, install, including fuel, main & final cabling, Socket Outlet Assembly , LEW endorsement on test report, apply SI license, comply to CP88 and MOM requirements)	lot	500.00
871	Rental of mobile genset 200 - 500KVA for a week (including supply, deliver, install, including fuel, main & final cabling, Socket Outlet Assembly , LEW endorsement on test report, apply SI license, comply to CP88 and MOM requirements)	lot	2700.00
872	Rental of mobile genset 80 - 199KVA for a day (including supply, deliver, install, including fuel, main & final cabling, Socket Outlet Assembly , LEW endorsement on test report, apply SI license, comply to CP88 and MOM requirements)	lot	300.00
873	Rental of mobile genset 80 - 199KVA for a week (including supply, deliver, install, including fuel, main & final cabling, Socket Outlet Assembly , LEW endorsement on test report, apply SI license, comply to CP88 and MOM requirements)	lot	1900.00
874	Supply and install single phase 16Amp cee form (male & female) in PVC trunking/conduit, 3x1 core 2.5mm <sup>2</sup> PVC cable of above 40m run	lot	200.00



S/No	Description	Unit	Unit Cost (\$)
875	Supply and install single phase 32Amp cee form (male & female) in PVC trunking/conduit, 3x1 core 6mm <sup>2</sup> PVC cable of above 40m run	lot	250.00
876	Supply and install three phase 32Amp cee form (male & female) in PVC trunking/conduit, 5x1 core 6mm <sup>2</sup> PVC cable of above 40m run	lot	380.00
877	Supply and install three phase 63Amp cee form (male & female) in PVC trunking/conduit, 5x1 core 16mm <sup>2</sup> PVC cable of above 40m run	lot	500.00
878	3 core x 105/0.25 flexible insulated neoprene cables	m	4.20
879	Supply Engineer between 0800 hrs to 1800 hrs on weekdays	hr	32.00
880	Supply Supervisor/Technical officer between 0800 hrs to 1800 hrs on weekdays	hr	22.00
881	Supply Senior Technician / Technician between 0800 hrs to 1800 hrs on weekdays	hr	12.00
882	Supply Engineer between 1801 hrs to 0759 hrs on weekdays and full day (Sat/Sun/PH)	hr	40.00
883	Supply Supervisor/Technical officer between 1801 hrs to 0759 hrs on weekdays and full day (Sat/Sun/PH)	hr	30.00
884	Supply Senior Technician / Technician between 1801 hrs to 0759 hrs on weekdays and full day (Sat/Sun/PH)	hr	20.00
885	6 ways 13A domestic power socket extension strip c/w 1 x 13plug top	ea	18.00
886	10 ways 13A domestic power socket extension strip c/w 1 x 13plug top	ea	24.00

**PRICE SCHEDULE OF RATES IV – PLUMBING AND SANITARY****1. MAINTENANCE, REPAIRS, ADDITIONS & ALTERATIONS**

<b>S/No</b>	<b>Description</b>	<b>Unit</b>	<b>Unit Cost (\$)</b>
1	To supply, install or replace Roof to galvanised storage tank gauge 12 complete with cover not exceeding 0.5m <sup>3</sup> .	EACH	264.00
2	To supply, install or replace Roof to galvanised storage tank gauge 12 complete with cover not exceeding 0.5m <sup>3</sup> but not exceeding 1.0m <sup>3</sup> .	EACH	319.00
3	To supply, install or replace Roof to galvanised storage water tank gauge 12 complete with cover not exceeding 1.0m <sup>3</sup> but not exceeding 1.5m <sup>3</sup> .	EACH	385.00
4	To supply, install or replace Roof to galvanised storage water tank gauge 12 complete with cover not exceeding 1.5m <sup>3</sup> but not exceeding 2.0m <sup>3</sup> .	EACH	440.00
5	To supply, install or replace Roof to galvanised storage water tank gauge 12 complete with cover not exceeding 2.5m <sup>3</sup> but not exceeding 3.0m <sup>3</sup> .	EACH	495.00
6	To supply, install or replace 4880mm x 2440mm x 2440mm x 2.5mm thick pressed stainless steel water tank complete with colour coated profiled galvanised tank cover (0.55mm thick), stainless steel cleats, stays, stainless steel bolts, nuts and washers within the tank, electro-galvanised steel bolts, nuts and washers outside the tanks and all other necessary fittings including adjustment, connections to piping, cleaning and making good work disturbed (Use of crane measured separately).	EACH	12,222.00
7	To supply, install or replace 3660mm x 2440mm x 2440mm x 2.5mm thick pressed stainless steel water tank complete with colour coated profiled galvanised tank cover (0.55mm thick), stainless steel cleats, stays, stainless steel bolts, nuts and washers within the tank, electro-galvanised steel bolts, nuts and washers outside the tanks and	EACH	9,870.00

S/No	Description	Unit	Unit Cost (\$)
8	<p>all other necessary fittings including adjustment, connections to piping, cleaning and making good work disturbed (Use of crane measured separately).</p> <p>To supply, install or replace 2440mm x 2440mm x 2440mm x 2.5mm thick pressed stainless steel water tank complete with colour coated profiled galvanised tank cover (0.55mm thick), stainless steel cleats, stays, stainless steel bolts, nuts and washers within the tank, electro-galvanised steel bolts, nuts and washers outside the tanks and all other necessary fittings including adjustment, connections to piping, cleaning and making good work disturbed (Use of crane measured separately)</p>	EACH	8,778.00
9	<p>To supply, install or replace 4880mm x 1220mm x 1220mm x 2.5mm thick pressed stainless steel water tank complete with colour coated profiled galvanised tank cover (0.55mm thick), stainless steel cleats, stays, stainless steel bolts, nuts and washers within the tank, electro-galvanised steel bolts, nuts and washers outside the tanks and all other necessary fittings including adjustment, connections to piping, cleaning and making good work disturbed (Use of crane measured separately)</p>	EACH	5,313.00
10	<p>To supply, install or replace 3660mm x 1220mm x 1220mm x 2.5mm thick pressed stainless steel water tank complete with colour coated profiled galvanised tank cover (0.55mm thick), stainless steel cleats, stays, stainless steel bolts, nuts and washers within the tank, electro-galvanised steel bolts, nuts and washers outside the tanks and all other necessary fittings including adjustment, connections to piping, cleaning and making good work disturbed (Use of crane measured separately)</p>	EACH	4,158.00
11	<p>To supply, install or replace 2440mm x 1220mm x 1220mm x 2.5mm thick pressed stainless steel water tank complete with colour coated profiled galvanised tank cover (0.55mm thick),</p>	EACH	3,003.00

S/No	Description	Unit	Unit Cost (\$)
	stainless steel cleats, stays, stainless steel bolts, nuts and washers within the tank, electro-galvanised steel bolts, nuts and washers outside the tanks and all other necessary fittings including adjustment, connections to piping, cleaning and making good work disturbed (Use of crane measured separately).		
12	To supply, install or replace 1220mm x 1220mm x 1220mm x 2.5mm thick pressed stainless steel water tank complete with colour coated profiled galvanised tank cover (0.55mm thick), stainless steel cleats, stays, stainless steel bolts, nuts and washers within the tank, electro-galvanised steel bolts, nuts and washers outside the tanks and all other necessary fittings including adjustment, connections to piping, cleaning and making good work disturbed (Use of crane measured separately)	EACH	1,848.00
13	To supply , install or replace 1.20m x 1.20m x 1.20m high x 2.5mm thick stainless steel water tank complete with colourbond spandek cover (0.66mm thick), stainless steel cleats, stays, seelastrip, stainless steel bolts, nuts, and washers within the tank, electro-galvanised steel bolts, nuts and washers outside the tank and all other necessary fittings including adjustment, connections to piping, cleaning and making good work disturbed (Use of crane measured separately).	EACH	1,733.00
14	To supply, install or replace 2.40m x 1.20m x 1.20m high x 2.5mm thick stainless steel water tank complete with colourbond spandek cover (0.66mm thick), stainless steel cleats, stays, seelastrip, stainless steel bolts, nuts, and washers within the tank, electro-galvanised steel bolts, nuts and washers outside the tank and all other necessary fittings including adjustment, connections to piping, cleaning and making good work disturbed (Use of crane measured separately).	EACH	2,772.00
15	To supply, install or replace	EACH	8,663.00

S/No	Description	Unit	Unit Cost (\$)
	4.80m x 2.40m x 1.20m high x 2.5mm thick stainless steel water tank complete with colourbond spandek cover (0.66mm thick), stainless steel cleats, stays, seelastrip, stainless steel bolts, nuts and washers within the tank, electro-galvanised steel bolts, nuts and washers outside the tank and all other necessary fittings including adjustment, connections to piping, cleaning and making good work disturbed (Use of crane measured separately).		
16	To supply, install or replace 1.0m x 1.0m x 1.0m high approved fibreglass press-moulded sectional water tank complete with inlet, outlet, drain, airvent, man-hole cover, internal and external ladder, etc including all necessary connections and adjustment to piping.	EACH	2,080.00
17	To supply, install or replace 1.0m x 2.0m x 1.0m high approved fibreglass press-moulded sectional water tank complete with inlet, outlet, drain, airvent, man-hole cover, internal and external ladder, etc including all necessary connections and adjustment to piping.	EACH	3,057.00
18	To supply, install or replace 1.0m x 3.0m x 1.0m high approved fibreglass press-moulded sectional water tank complete with inlet, outlet, drain, airvent, man-hole cover, internal and external ladder, etc including all necessary connections and adjustment to piping.	EACH	3,915.00
19	To supply, install or replace 1.0m x 4.0m x 1.0m high approved fibreglass press-moulded sectional water tank complete with inlet, outlet, drain, airvent, man-hole cover, internal and external ladder, etc including all necessary connections and adjustment to piping.	EACH	4,770.00
20	To supply, install or replace 1.0m x 5.0m x 1.0m high approved fibreglass press-moulded sectional water	EACH	5,683.00

S/No	Description	Unit	Unit Cost (\$)
21	tank complete with inlet, outlet, drain, airvent, man-hole cover, internal and external ladder, etc including all necessary connections and adjustment to piping.  To supply, install or replace 2.0m x 2.0m x 1.0m high approved fibreglass press-moulded sectional water tank complete with inlet, outlet, drain, airvent, man-hole cover, internal and external ladder, etc including all necessary connections and adjustment to piping.	EACH	4,365.00
Item	Description	Unit	Unit price SGD
22	To supply, install or replace 2.0m x 3.0m x 1.0m high approved fibreglass press-moulded sectional water tank complete with inlet, outlet, drain, airvent, man-hole cover, internal and external ladder, etc including all necessary connections and adjustment to piping.	EACH	5,724.00
23	To supply, install or replace 2.0m x 4.0m x 1.0m high approved fibreglass press-moulded sectional water tank complete with inlet, outlet, drain, airvent, man-hole cover, internal and external ladder, etc including all necessary connections and adjustment to piping.	EACH	7,065.00
24	To supply, install or replace 2.0m x 5.0m x 1.0m high approved fibreglass press-moulded sectional water tank complete with inlet, outlet, drain, airvent, man-hole cover, internal and external ladder, etc including all necessary connections and adjustment to piping.	EACH	8,370.00
25	To supply, install or replace 1.0m x 1.0m x 2.5m high approved fibreglass press-moulded sectional water tank complete with inlet, outlet, drain, airvent, man-hole cover, internal and external ladder, etc including all necessary connections and adjustment to piping.	EACH	4,725.00

S/No	Description	Unit	Unit Cost (\$)
26	To supply, install or replace 1.0m x 2.0m x 2.5m high approved fibreglass press-moulded sectional water tank complete with inlet, outlet, drain, airvent, man-hole cover, internal and external ladder, etc including all necessary connections and adjustment to piping.	EACH	6,871.00
27	To supply, install or replace 1.0m x 3.0m x 2.5m high approved fibreglass press-moulded sectional water tank complete with inlet, outlet, drain, airvent, man-hole cover, internal and external ladder, etc including all necessary connections and adjustment to piping.	EACH	8,973.00
28	To supply, install or replace 1.0m x 4.0m x 2.5m high approved fibreglass press-moulded sectional water tank complete with inlet, outlet, drain, airvent, man-hole cover, internal and external ladder, etc including all necessary connections and adjustment to piping.	EACH	1,163.00
29	To supply, install or replace 1.0m x 5.0m x 2.5m high approved fibreglass press-moulded sectional water tank complete with inlet, outlet, drain, airvent, man-hole cover, internal and external ladder, etc including all necessary connections and adjustment to piping.	EACH	2,030.00
30	To supply, install or replace 2.0m x 2.0m x 2.5m high approved fibreglass press-moulded sectional water tank complete with inlet, outlet, drain, airvent, man-hole cover, internal and external ladder, etc including all necessary connections and adjustment to piping.	EACH	6,487.00
31	To supply, install or replace 2.0m x 3.0m x 2.5m high approved fibreglass press-moulded sectional water tank complete with inlet, outlet, drain, airvent, man-hole, cover, internal and external ladder, etc including all	EACH	8,381.00

S/No	Description	Unit	Unit Cost (\$)
32	necessary connections and adjustment to piping. To supply, install or replace 2.0m x 4.0m x 2.5m high approved fibreglass press-moulded sectional water tank complete with inlet, outlet, drain, airvent, man-hole cover, internal and external ladder, etc including all necessary connections and adjustment to piping.	EACH	10,302.00
33	To supply, install or replace 2.0m x 5.0m x 2.5m high approved fibreglass press-moulded sectional water tank complete with inlet, outlet, drain, airvent, man-hole cover, internal and external ladder, etc including all necessary connections and adjustment to piping.	EACH	12,179.00
Item	Description	Unit	Unit price SGD
34	To supply, install or replace 1.0m x 1.0m x 1.5m high (1,500 litres) approved prefabricated fibreglass reinforced polyester (FRP) panel water tank complete with cover, ladders, manhole and other accessories and installing in any position including fixing with gaskets, bolts, etc adjustment, connections to existing/new pipes and cleaning, all in accordance to manufacturer's instruction.	EACH	2,571.00
35	To supply, install or replace 1.0m x 5.0m x 1.5m high (7,500 litres) approved prefabricated fibreglass reinforced polyester (FRP) panel water tank complete with cover, ladders, manhole and other accessories and installing in any position including fixing with gaskets, bolts, etc adjustment, connections to existing/new pipes and cleaning, all in accordance to manufacturer's instruction.	EACH	9,266.00
36	To supply, install or replace 1.22m x 1.22m x 1.22m deep x 3.12mm thick (1,818 litres) pressed steel storage tank or other equal and approved type (excluding cover) and for	EACH	739.00



S/No	Description	Unit	Unit Cost (\$)
	installing in any position, twisting, all necessary connections, adjustment to existing/new pipes and making good work disturbed.(Lining/painting measured separately).		
37	To supply, install or replace 1.22m x 1.22m x 1.22m deep x 5mm thick (1,818 litres) pressed steel storage tank or other equal and approved type (excluding cover) and for installing in any position, twisting, all necessary connections, adjustment to existing/new pipes and making good work disturbed. (Lining/painting measured separately).	EACH	843.00
38	To supply, install or replace in addition to each additional stage of 1,818 litres capacity (excluding cover) to 1.22m x 1.22m deep x 3.12mm thick Pressed Steel Storage Tank or other equal and approved type and for installing in any position, twisting, all necessary connections, adjustment to existing/new pipes and making good work disturbed. (Lining/painting measured separately).	EACH	601.00
39	To supply, install or replace in addition to each additional stage of 1,818 litres capacity (excluding cover) to 1.22m x 1.22m deep x 5mm thick Pressed Steel Storage Tank or other equal and approved type and for installing in any position, twisting, all necessary connection, adjustment to existing/new pipes and making good work disturbed (Lining/painting measured separately).	EACH	684.00
40	To supply, install or replace in addition to each additional stage of 1,818 litres capacity (excluding cover) to 1.22m x 1.22m x 5mm deep x 3.2mm thick Pressed Steel Storage Tank or other equal and approved type and for installing in any position, twisting, all necessary connections, adjustment to existing/new pipes and making good work disturbed. (Lining/painting measured separately).	EACH	601.00

S/No	Description	Unit	Unit Cost (\$)
41	To supply labour, materials, tools and transport for the installation or replacement of Storage Water Tank dimension : 4800mm x 2400mm x 2400mm x 2.5mm thick grade 316 pressed stainless steel water tank, complete with stainless steel cover, access openings, stainless steel cleats, stays, bolts, nuts and washers with external aluminum ladder and internal stainless steel ladder and all other necessary accessories and fittings (use of crane measured separately) The size given is approximate.	EACH	29,000.00
42	To supply labour, materials, tools and transport for the installation or replacement of Storage Water Tank dimension : 3600mm x 2400mm x 2400mm x 2.5mm thick grade 316 pressed stainless steel water tank, complete with stainless steel cover, access openings, stainless steel cleats, stays, bolts, nuts and washers with external aluminum ladder and internal stainless steel ladder and all other necessary accessories and fittings (use of crane measured separately) The size given is approximate.	EACH	23,200.00
43	To supply labour, materials, tools and transport for the installation or replacement of Storage Water Tank dimension : 2400mm x 1200mm x 1200mm x 2.5mm thick grade 316 pressed stainless steel water tank, complete with stainless steel cover, access openings, stainless steel cleats, stays, bolts, nuts and washers with external aluminum ladder and internal stainless steel ladder and all other necessary accessories and fittings (use of crane measured separately) The size given is approximate.	EACH	17,400.00
44	To supply, install or replace Aluminium ladder of approved design and size, for use in water tank.	MR	55.00
45	To provide labour, materials, tools, equipment and transport to carry out the Chemical Flushing (approved chemical) to	JOB	280.00

S/No	Description	Unit	Unit Cost (\$)
	existing copper pipes including all necessary pipe setup and send water sample to approved laboratory for testing ( all testing fees included ) and to make good to all pipework disturbed upon completion. (For 1 - 20 tap points)		
46	To provide labour, materials, tools, equipment and transport to carry out the Chemical Flushing (approved chemical) to existing copper pipes including all necessary pipe setup and send water sample to approved laboratory for testing ( all testing fees included ) and to make good to all pipework disturbed upon completion (For more than 20 tap points)	JOB	250.00
47	To provide labour, materials, tools, equipment and transport to carry out the Mechanical Flushing to existing copper pipes including all necessary pipe setup and send water sample to approved laboratory for testing ( all testing fees included ) and to make good to all pipework disturbed upon completion (For more than 20 tap points)	JOB	250.00
48	To provide labour, materials, tools, equipment and transport to carry out the Mechanical Flushing to existing copper pipes including all necessary pipe setup and send water sample to approved laboratory for testing ( all testing fees included ) and to make good to all pipework disturbed upon completion (For more than 20 tap points)	JOB	200.00
49	To provide labour, materials, tools, equipment and transport to carry out the Mechanical Flushing to existing copper pipes including all necessary pipe setup and send water sample to approved laboratory for testing ( all testing fees included ) and to make good to all pipework disturbed upon completion (For more than 20 tap points)	JOB	200.00
50	To supply labour, materials, tools and transport to wash, clean and paint internal surfaces of existing water tank	m2	16.73

S/No	Description	Unit	Unit Cost (\$)
	with "Shell Bituminous Solution PF4" or other approved equivalent (Actual area done measured).		
51	To supply labour, materials, chemicals, transport, tools and equipments for washing, cleaning, reconditioning and painting internal surfaces of existing water tank with approved bituminous solution/epoxy solution and line the tank with polyethylene (PE) lining all in accordance with the manufacturer's instructions (Inclusive of 5 year warranty).	m2	75.00
52	To supply labour, materials, chemicals, transport, tools and equipments for washing, flushing and cleaning internal surface and structure of water tank (Any Type) to remove rust, scales, sand, other sediments and etc by using power brush and tools including refilling with clean water upon completion.	m2	3.20
53	To supply labour, materials, chemicals, transport, tools and equipments for washing, flushing and cleaning internal surface and structure of water tank (Any Type) to remove rust, scales, sand, other sediments and etc by using non-conventional method ie. chemical washing inclusive of risk assessment reports equipments and personnel and refilling with clean water upon completion.	m3	26.00
54	Not In Use	-	
55	Not In Use	-	
56	Not In Use	-	
57	To supply labour, equipments and materials for testing of water samples including transportation from site and submission of test reports for Physical, Chemical and Bacteriological to ensure the tank water is fit for human consumption.	EACH	45.00
58	To provide a qualified Safety Assessor personnel to conduct testing and detecting gasses for confined space	JOB	200.00

S/No	Description	Unit	Unit Cost (\$)
	(such as manhole, water tanks and etc.) including all the necessary equipments, tool and machinery and complete with submission of Test Report. (Rate per Attendance)		
59	Professional Engineer to design, supervise the installation, testing and commissioning including certification on fire protection system installed	JOB	488.75
60	Prepare of the complete coloured As Build Drawing for any type of services (on a per area basis)	JOB	98.50
61	To supply all labour, materials, transport, tools, and equipments for apply epoxy coating(0.3 - 0.5mm thick) to internal surfaces and structure.	m2	55.10
62	To supply and lined internal faces of water tank with 2mm thick 'HDPE' high density polyethylene sheet all in accordance with the manufacturer's instructions (Height of tank: 1.20m or up to 2.40m) inclusive of 5 year warranty including dismantle all tank covers, clean, scrap/brush to remove loose rust and scale, apply one coat of PUB approved rust converter.	m2	97.60
63	To supply and lined internal faces of water tank with 2mm thick 'HDPE' high density polyethylene sheet all in accordance with the manufacturer's instructions (Height of tank: 2.4m and above) inclusive of 5 year warranty including dismantle all tank covers, clean, scrap/brush to remove loose rust and scale apply one coat of PUB approved rust converter.	m2	111.30
64	To supply and lined internal faces of water tank with 2mm thick "HDPE" high density polyethylene sheet all in accordance with the manufacturer's instructions (Height of tank: 3.60m) (inclusive of 5 years warranty)	m2	141.30
65	To replace the water tank internal mild steel braces with stainless steel grade 316 angle section (50 x 50 x 6mm thick)	MR	108.00

S/No	Description	Unit	Unit Cost (\$)
	complete with cleats, bolts and nuts all in accordance with the manufacturer's instructions.		
66	Drill holes in existing storage tank for pipe connections, including all necessary fittings, etc (rate for each hole).	EACH	11.90
67	To supply, install or replace water tank cover of 24 SWG galvanised iron, not exceeding 1.50m <sup>2</sup> in area (measured on plan) of pyramoidal shape with beaded edges turned down and fixing on existing or new water tanks (painting measured separately)	EACH	133.10
68	To supply, install or replace in addition to each additional stage of 1.50m <sup>2</sup> in area (measured on plan).	EACH	203.26
69	To supply, install or replace 150mm diameter approved high pressure brass valve come with brass arm and brass ball float in water tank including taking out existing set.	EACH	2,800.00
70	To supply, install or replace 100mm diameter gate valve - brass.	EACH	187.10
71	Labour for repairing defective ball cock of water tank including renewing washer.	EACH	17.83
72	To supply, install or replace 100mm rubber cup washer for lower tank ball valve.	EACH	24.80
73	Labour and material for welding ball float to lever in water tank.	JOB	24.80
74	Labour for repairing defective W.C. cistern including renewing washer.	EACH	7.50
75	To supply, install or replace 15mm diameter (0.7mm thick) surface run copper pipes to BS 2871 including taking down existing and disposed off site (any pipe fittings and chasing concrete or trench excavation measured separately)	MR	5.25
76	To supply, install or replace 22mm	MR	7.40

S/No	Description	Unit	Unit Cost (\$)
	diameter (0.9mm thick) surface run copper pipes to BS 2871 including taking down existing and disposed off site (any pipe fittings and chasing concrete or trench excavation measured separately)		
77	To supply, install or replace 28mm diameter (0.9mm thick) surface run copper pipes to BS 2871 including taking down existing and disposed off site (any pipe fittings and chasing concrete or trench excavation measured separately)	MR	9.20
78	To supply, install or replace 35mm diameter (1.2mm thick) surface run copper pipes to BS 2871 including taking down existing and disposed off site (any pipe fittings and chasing concrete or trench excavation measured separately)	MR	12.40
79	To supply, install or replace 42mm diameter (1.2mm thick) surface run copper pipes to BS 2871 including taking down existing and disposed off site (any pipe fittings and chasing concrete or trench excavation measured separately)	MR	14.20
80	To supply, install or replace 54mm diameter (1.2mm thick) surface run copper pipes to BS 2871 including taking down existing and disposed off site (any pipe fittings and chasing concrete or trench excavation measured separately)	MR	18.85
81	To supply, install or replace 67mm diameter (1.2mm thick) surface run copper pipes to BS 2871 including taking down existing and disposed off site (any pipe fittings and chasing concrete or trench excavation measured separately)	MR	25.25
82	To supply, install or replace 76mm diameter (1.5mm thick) surface run copper pipes to BS 2871 including taking down existing and disposed off site (any pipe fittings and chasing concrete or trench excavation measured separately)	MR	40.45
83	To supply, install or replace 108mm diameter (1.5mm thick) surface run copper pipes to BS 2871 including taking down existing and disposed off site (any	MR	52.10

S/No	Description	Unit	Unit Cost (\$)
	pipe fittings and chasing concrete or trench excavation measured separately)		
84	To supply, install or replace 15mm diameter (1.0mm thick) for buried underground copper pipes to BS 2871 (any pipe fittings and chasing concrete or trench excavation measured separately)	MR	8.40
85	To supply, install or replace 22mm diameter (1.2mm thick) for buried underground copper pipes to BS 2871 (any pipe fittings and chasing concrete or trench excavation measured separately)	MR	11.45
86	To supply, install or replace 28mm diameter (1.2mm thick) for buried underground copper pipes to BS 2871 (any pipe fittings and chasing concrete or trench excavation measured separately)	MR	13.75
87	To supply, install or replace 35mm diameter (1.5mm thick) for buried underground copper pipes to BS 2871 (any pipe fittings and chasing concrete or trench excavation measured separately)	MR	19.10
88	To supply, install or replace 42mm diameter (1.5mm thick) for buried underground copper pipes to BS 2871 (any pipe fittings and chasing concrete or trench excavation measured separately)	MR	21.40
89	To supply, install or replace 54mm diameter (2.0mm thick) for buried underground copper pipes to BS 2871 (any pipe fittings and chasing concrete or trench excavation measured separately)	MR	26.00
90	To supply, install or replace 67mm diameter (2.0mm thick) for buried underground copper pipes to BS 2871 (any pipe fittings and chasing concrete or trench excavation measured separately)	MR	34.40



S/No	Description	Unit	Unit Cost (\$)
91	To supply, install or replace 76mm diameter (2.0mm thick) for buried underground copper pipes to BS 2871 (any pipe fittings and chasing concrete or trench excavation measured separately)	MR	54.30
92	To supply, install or replace 108mm diameter (2.5mm thick) for buried underground copper pipes to BS 2871 (any pipe fittings and chasing concrete or trench excavation measured separately)	MR	70.35
93	To supply, install or replace 75mm diameter Socket of approved dezincification resistance brass compression fittings to BS864.	EACH	81.20
94	To supply, install or replace 75mm diameter union couplings copper pipe fittings.	EACH	41.17
95	To supply, install or replace 75mm diameter Tee copper pipe fittings.	EACH	63.83
96	To supply, install or replace 75mm diameter Elbows pipe fittings	EACH	59.80
97	To supply, install or replace 75mm x 50mm diameter Reducers copper pipe fittings.	EACH	77.00
98	To supply, install or replace 75mm M.B.L. copper bend.	EACH	60.38
99	To supply, install or replace 75mm M.B.L. copper elbow.	EACH	53.48
100	To supply, install or replace 100mm M.B.L. copper bend.	EACH	94.88
101	To supply, install or replace 100mm M.B.L. copper elbow.	EACH	94.88
102	To supply, install or replace 75mm M.B.L. copper socket.	EACH	27.60
103	To supply, install or replace 100mm M.B.L. copper socket.	EACH	48.30
104	To supply, install or replace 75mm	EACH	117.30

S/No	Description	Unit	Unit Cost (\$)
	M.B.L. copper adaptor M or F.		
105	To supply, install or replace 100mm M.B.L. copper adaptor M or F.	EACH	198.38
106	To supply, install or replace 75mm M.B.L. copper Tee.	EACH	82.80
107	To supply, install or replace 100mm M.B.L. copper Tee.	EACH	129.38
108	To supply, install or replace 75mm M.B.L. copper reducer.	EACH	55.20
109	To supply, install or replace 100mm M.B.L. copper reducer.	EACH	79.35
110	To supply, install or replace 15mm diameter Connectors copper pipe fittings.	EACH	3.30
111	To supply, install or replace 22mm diameter Connectors copper pipe fittings.	EACH	4.70
112	To supply, install or replace 28mm diameter Connectors copper pipe fittings.	EACH	7.30
113	To supply, install or replace 35mm diameter Connectors copper pipe fittings.	EACH	9.50
114	To supply, install or replace 42mm diameter Connectors copper pipe fittings.	EACH	12.20
115	To supply, install or replace 54mm diameter Connectors copper pipe fittings.	EACH	17.70
116	To supply, install or replace 15mm diameter Tee Copper pipe fittings.	EACH	5.10
117	To supply, install or replace 22mm diameter Tee copper pipe fittings.	EACH	7.60
118	To supply, install or replace 28mm diameter Tee copper pipe fittings.	EACH	11.10
119	To supply, install or replace 35mm diameter Tee Copper pipe fittings.	EACH	18.30

S/No	Description	Unit	Unit Cost (\$)
120	To supply, install or replace 42mm diameter Tee copper pipe fittings.	EACH	23.00
121	To supply, install or replace 54mm diameter Tee copper pipe fittings.	EACH	38.50
122	To supply, install or replace 15mm diameter Elbows, copper pipe fittings.	EACH	3.60
123	To supply, install or replace 22mm diameter Elbows, copper pipe fittings.	EACH	5.50
124	To supply, install or replace 28mm diameter Elbows, copper pipe fittings.	EACH	6.80
125	To supply, install or replace 35mm diameter Elbows, copper pipe fittings.	EACH	9.80
126	To supply, install or replace 42mm diameter Elbows, copper pipe fittings.	EACH	13.10
127	To supply, install or replace 54mm diameter Elbows, copper pipe fittings.	EACH	22.50
128	To supply, install or replace 22mm diameter Reducers copper pipe fittings.	EACH	14.84
129	To supply, install or replace 28mm diameter Reducers copper pipe fittings.	EACH	14.89
130	To supply, install or replace 35mm diameter Reducers copper pipe fittings.	EACH	18.06
131	To supply, install or replace 42mm diameter Reducers copper pipe fittings.	EACH	21.56
132	To supply, install or replace 54mm diameter Reducers copper pipe fittings.	EACH	48.70
133	To supply, install or replace 13mm diameter copper to copper coupling.	EACH	7.88
134	To supply, install or replace 20mm diameter copper to copper coupling	EACH	9.32
135	To supply, install or replace 42mm and below M.B.L. copper bend, elbow.	EACH	13.10
136	To supply, install or replace 54mm M.B.L. copper elbow.	EACH	22.50

S/No	Description	Unit	Unit Cost (\$)
137	To supply, install or replace 54mm M.B.L. copper socket.	EACH	10.35
138	To supply, install or replace 54mm M.B.L. copper adaptor M or F.	EACH	21.56
139	To supply, install or replace 54mm M.B.L. copper Tee.	EACH	24.15
140	To supply, install or replace 54mm M.B.L. copper reducer.	EACH	14.84
141	To supply, install or replace 75mm x 40mm diameter Reducer of approved dezincification resistance brass compression fittings to BS864	EACH	67.60
142	To supply, install or replace 75mm x 75mm x 50mm diameter Reducer Tee of approved dezincification resistance brass compression fittings to BS864.	EACH	151.40
143	To supply, install or replace 75mm diameter CMI Socket of approved dezincification resistance brass compression fittings to BS864.	EACH	67.60
144	To supply, install or replace 80mm ductile iron pipes spigot and socket JT type laid in trench or fixed to wall.	MR	38.70
145	To supply, install or replace 100mm ductile iron pipes spigot and socket JT type laid in trench or fixed to wall.	MR	43.20
146	To supply, install or replace 150mm ductile iron pipes spigot and socket JT type laid in trench or fixed to wall.	MR	58.50
147	To supply, install or replace 200mm ductile iron pipes spigot and socket JT type laid in trench or fixed to wall.	MR	78.90
148	To supply, install or replace 300mm ductile iron pipes spigot and socket JT type laid in trench or fixed to wall.	MR	118.40
149	To supply, install or replace 60mm ductile iron pipes flanged JT type laid in trench or fixed to wall.	MR	41.40
150	To supply, install or replace 80mm	MR	51.80

S/No	Description	Unit	Unit Cost (\$)
	ductile iron pipes flanged JT type laid in trench or fixed to wall.		
151	To supply, install or replace 100mm ductile iron pipes flanged JT type laid in trench or fixed to wall.	MR	62.60
152	To supply, install or replace 125mm ductile iron pipes flanged JT type laid in trench or fixed to wall.	MR	69.30
153	To supply, install or replace 150mm ductile iron pipes flanged JT type laid in trench or fixed to wall.	MR	78.30
154	To supply, install or replace 200mm ductile iron pipes flanged JT type laid in trench or fixed to wall.	MR	121.70
155	To supply, install or replace 300mm ductile iron pipes flanged JT type laid in trench or fixed to wall.	MR	182.50
156	To supply, install or replace ductile iron pipe fittings - 60mm flanged and socket connector.	EACH	36.00
157	To supply, install or replace ductile iron pipe fittings - 80mm flanged and socket connector.	EACH	43.50
158	To supply, install or replace ductile iron pipe fittings - 100mm flanged and socket connector.	EACH	68.60
159	To supply, install or replace ductile iron pipe fittings - 125mm flanged and socket connector.	EACH	71.10
160	To supply, install or replace ductile iron pipe fittings - 150mm flanged and socket connector.	EACH	93.50
161	To supply, install or replace ductile iron pipe fittings - 200mm flanged and socket connector.	EACH	120.90
162	To supply, install or replace ductile iron pipe fittings -300mm flanged and socket connector.	EACH	181.45
163	To supply, install or replace	EACH	25.20

S/No	Description	Unit	Unit Cost (\$)
	ductile iron pipes for fittings - 60mm flanged and spigot connector.		
164	To supply, install or replace ductile iron pipe fittings - 100 mm flanged and spigot connector.	EACH	37.60
165	To supply, install or replace ductile iron pipe fittings - 150mm flanged and spigot connector.	EACH	65.00
166	To supply, install or replace ductile iron pipe fittings - 200mm flanged and spigot connector.	EACH	85.17
167	To supply, install or replace ductile iron pipes fittings - 300mm flanged and spigot connector.	EACH	130.25
168	To supply, install or replace ductile iron pipe fittings - 60mm with 90 degrees double socket bend.	EACH	46.30
169	To supply, install or replace ductile iron pipe fittings - 80mm with 90 degrees double socket bend.	EACH	60.50
170	To supply, install or replace ductile iron pipe fittings - 100mm with 90 degrees double socket bend.	EACH	75.90
171	To supply, install or replace ductile iron pipe fittings - 125mm with 90 degrees double socket bend.	EACH	98.10
172	To supply, install or replace ductile iron pipe fittings - 150mm with 90 degrees double socket bend.	EACH	129.10
173	To supply, install or replace ductile iron pipe fittings - 200mm with 90 degrees double socket bend.	EACH	158.19
174	To supply, install or replace ductile iron pipe fittings - 300mm with 90 degrees double socket bend.	EACH	237.32
175	To supply, install or replace ductile iron pipe fittings - 60mm with 45 degrees double socket bend.	EACH	46.30
176	To supply, install or replace	EACH	63.10

S/No	Description	Unit	Unit Cost (\$)
	ductile iron pipe fittings - 80mm with 45 degrees double socket bend.		
177	To supply, install or replace ductile iron pipe fittings - 100mm with 45 degrees double socket bend.	EACH	79.70
178	To supply, install or replace ductile iron pipe fittings - 125mm with 45 degrees double socket bend.	EACH	98.90
179	To supply, install or replace ductile iron pipe fittings - 150mm with 45 degrees double socket bend.	EACH	128.50
180	To supply, install or replace ductile iron pipe fittings - 200mm with 45 degrees double socket bend.	EACH	157.55
181	To supply, install or replace ductile iron pipe fittings - 300mm with 45 degrees double socket bend.	EACH	236.25
182	To supply, install or replace ductile iron pipe fittings - 60mm with 22 degrees 30' double socket bend.	EACH	44.25
183	To supply, install or replace ductile iron pipe fittings - 80mm with 22 degrees 30' double socket bend	EACH	55.60
184	To supply, install or replace ductile iron pipe fittings - 100mm with 22 degrees 30' double socket bend.	EACH	68.10
185	To supply, install or replace ductile iron pipe fittings - 125mm with 22 degrees 30' double socket bend.	EACH	86.50
186	To supply, install or replace ductile iron pipe fittings - 150mm with 22 degrees 30' double socket bend.	EACH	111.30
187	To supply, install or replace ductile iron pipe fittings - 200mm with 22 degrees 30' double socket bend.	EACH	143.50
188	To supply, install or replace ductile iron pipe fittings - 300mm with 22 degrees 30' double socket bend.	EACH	215.50
189	To supply, install or replace	EACH	42.60

S/No	Description	Unit	Unit Cost (\$)
	ductile iron pipe fittings - 60mm with 11 degrees 15' double socket bend.		
190	To supply, install or replace ductile iron pipe fittings - 80mm with 11 degrees 15' double socket bend.	EACH	54.90
191	To supply, install or replace ductile iron pipe fittings - 100mm with 11 degrees 15' double socket bend	EACH	66.60
192	To supply, install or replace ductile iron pipe fittings - 125mm with 11 degrees 15' double socket bend.	EACH	83.90
193	To supply, install or replace ductile iron pipe fittings - 150mm with 11 degrees 15' double socket bend.	EACH	107.20
194	To supply, install or replace ductile iron pipe fittings - 200mm with 11 degrees 15' double socket bend.	EACH	138.05
195	To supply, install or replace ductile iron pipe fittings - 300mm with 11 degrees 15' double socket bend.	EACH	207.55
196	To supply, install or replace ductile iron pipe fittings - 60mm with 90 degrees double flanged bend.	EACH	39.20
197	To supply, install or replace ductile iron pipe fittings - 80mm with 90 degrees double flanged bend.	EACH	43.40
198	To supply, install or replace ductile iron pipe fittings - 100mm with 90 degrees double flanged bend.	EACH	69.90
199	To supply, install or replace ductile iron pipe fittings - 125mm with 90 degrees double flanged bend.	EACH	85.20
200	To supply, install or replace ductile iron pipe fittings - 150mm with 90 degrees double flanged bend.	EACH	116.60
201	To supply, install or replace ductile iron pipe fittings - 200mm with 90 degrees double flanged bend.	EACH	138.40
202	To supply, install or replace	EACH	207.55



S/No	Description	Unit	Unit Cost (\$)
	ductile iron pipe fittings - 300mm with 90 degrees double flanged bend.		
203	To supply, install or replace ductile iron pipe fittings - 60mm with 45 degrees double flanged bend.	EACH	35.50
204	To supply, install or replace ductile iron pipe fittings - 80mm with 45 degrees double flanged bend.	EACH	42.30
205	To supply, install or replace ductile iron pipe fittings - 100mm with 45 degrees double flanged bend.	EACH	68.00
206	To supply, install or replace ductile iron pipe fittings - 125mm with 45 degrees double flanged bend.	EACH	81.50
207	To supply, install or replace ductile iron pipe fittings - 150mm with 45 degrees double flanged bend.	EACH	111.00
208	To supply, install or replace ductile iron pipe fittings - 200mm with 45 degrees double flanged bend.	EACH	127.85
209	To supply, install or replace ductile iron pipe fittings - 300mm with 45 degrees double flanged bend.	EACH	191.75
210	To supply, install or replace ductile iron pipe for fittings - 60mm with double flanged duckfoot elbow.	EACH	54.20
211	To supply, install or replace ductile iron pipe for fittings - 80mm with double flanged duckfoot elbow.	EACH	60.30
212	To supply, install or replace ductile iron pipe fittings - 100mm with double flanged duckfoot elbow.	EACH	87.70
213	To supply, install or replace ductile iron pipe fittings - 125mm with double flanged duckfoot elbow.	EACH	109.90
214	To supply, install or replace ductile iron pipe fittings - 150mm with double flanged duckfoot elbow.	EACH	146.60
215	To supply, install or replace	EACH	179.68

S/No	Description	Unit	Unit Cost (\$)
	ductile iron pipe fittings - 200mm with double flanged duckfoot elbow.		
216	To supply, install or replace ductile iron pipe fittings - 300mm with double flanged duckfoot elbow.	EACH	269.50
217	To supply, install or replace ductile iron pipe fittings - 60mm with blank flange.	EACH	17.50
218	To supply, install or replace ductile iron pipe fittings - 80mm with blank flange.	EACH	25.70
219	To supply, install or replace ductile iron pipe fittings - 100mm with blank flange.	EACH	38.50
220	To supply, install or replace ductile iron pipe fittings - 125mm with blank flange.	EACH	45.10
221	To supply, install or replace ductile iron pipe fittings - 150mm with blank flange.	EACH	60.80
222	To supply, install or replace ductile iron pipe fittings - 200mm with blank flange.	EACH	70.60
223	To supply, install or replace ductile iron pipe fittings - 300mm with blank flange.	EACH	105.85
224	To supply, install or replace ductile iron pipe fittings - 60mm with socket sleeve.	EACH	48.00
225	To supply, install or replace ductile iron pipe fittings - 80mm with socket sleeve.	EACH	62.80
226	To supply, install or replace ductile iron pipe fittings - 100mm with socket sleeve.	EACH	75.80
227	To supply, install or replace ductile iron pipe fittings - 125mm with socket sleeve.	EACH	94.00
228	To supply, install or replace	EACH	118.70

S/No	Description	Unit	Unit Cost (\$)
	ductile iron pipe fittings - 150mm with socket sleeve.		
229	To supply, install or replace ductile iron pipe fittings - 200mm with socket sleeve.	EACH	155.60
230	To supply, install or replace ductile iron pipe fittings - 300mm with socket sleeve.	EACH	233.65
231	To supply, install or replace ductile iron pipe fittings - 60mm diameter socket tee with 45 degrees branch.	EACH	98.50
232	To supply, install or replace ductile iron pipe fittings - 80mm diameter socket tee with 45 degrees branch.	EACH	122.40
233	To supply, install or replace ductile iron pipe fittings - 100mm diameter socket tee with 45 degrees branch.	EACH	138.00
234	To supply, install or replace ductile iron pipe fittings - 125mm diameter socket tee with 45 degrees branch.	EACH	156.60
235	To supply, install or replace ductile iron pipe fittings - 150mm diameter socket tee with 45 degrees branch.	EACH	193.60
236	To supply, install or replace ductile iron pipe fittings - 200mm diameter socket tee with 45 degrees branch.	EACH	261.95
237	To supply, install or replace ductile iron pipe fittings - 300mm diameter socket tee with 45 degrees branch.	EACH	392.92
238	To supply, install or replace ductile iron pipe fittings - 60mm diameter double flanged sleeve (250mm)	EACH	63.50
239	To supply, install or replace ductile iron pipe fittings - 80mm	EACH	79.70

S/No	Description	Unit	Unit Cost (\$)
240	diameter double flanged sleeve (250mm) To supply, install or replace ductile iron pipe fittings - 100mm diameter double flanged sleeve (250mm)	EACH	111.00
241	To supply, install or replace ductile iron pipe fittings - 125mm diameter double flanged sleeve (250mm)	EACH	122.90
242	To supply, install or replace ductile iron pipe fittings - 150mm diameter double flanged sleeve (250mm)	EACH	160.10
243	To supply, install or replace ductile iron pipe fittings - 200mm diameter double flanged sleeve (250mm)	EACH	208.82
244	To supply, install or replace ductile iron pipe fittings - 300mm diameter double flanged sleeve (250mm)	EACH	313.31
245	To supply, install or replace ductile iron pipe fittings - 60mm diameter double flanged sleeve (500mm)	EACH	78.10
246	To supply, install or replace ductile iron pipe fittings - 80mm diameter double flanged sleeve (500mm)	EACH	95.40
247	To supply, install or replace ductile iron pipe fittings - 100mm diameter double flanged sleeve (500mm)	EACH	123.80
248	To supply, install or replace ductile iron pipe fittings - 125mm diameter double flanged sleeve (500mm)	EACH	144.10
249	To supply, install or replace ductile iron pipe fittings - 150mm diameter double flanged sleeve (500mm)	EACH	171.00
250	To supply, install or replace ductile iron pipe fittings - 200mm diameter double flanged sleeve (500mm)	EACH	241.45
251	To supply, install or replace ductile iron pipe fittings - 300mm diameter double flanged sleeve (500mm)	EACH	362.10
252	To supply, install or replace ductile iron pipe fittings - 60mm	EACH	41.00

S/No	Description	Unit	Unit Cost (\$)
	diameter plain end connecting sleeve.		
253	To supply, install or replace ductile iron pipe fittings - 80mm diameter plain end connecting sleeve.	EACH	56.60
254	To supply, install or replace ductile iron pipe fittings - 100mm diameter plain end connecting sleeve.	EACH	66.40
255	To supply, install or replace ductile iron pipe fittings - 125mm diameter plain end connecting sleeve.	EACH	79.80
256	To supply, install or replace ductile iron pipe fittings - 150mm diameter plain end connecting sleeve.	EACH	104.40
257	To supply, install or replace ductile iron pipe fittings - 200mm diameter plain end connecting sleeves.	EACH	135.72
258	To supply, install or replace ductile iron pipe fittings - 300mm diameter plain end connecting sleeves.	EACH	203.67
259	To supply, install or replace ductile iron pipe fittings - 60mm diameter double flanged U-bend.	EACH	135.20
260	To supply, install or replace ductile iron pipe fittings - 80mm diameter double flanged U-bend.	EACH	158.40
261	To supply, install or replace ductile iron pipe fittings - 100mm diameter double flanged U-bend.	EACH	212.40
262	To supply, install or replace ductile iron pipe fittings - 125mm diameter double flanged U-bend.	EACH	225.30
263	To supply, install or replace ductile iron pipe fittings - 150mm diameter double flanged U-bend.	EACH	262.50
264	To supply, install or replace ductile iron pipe fittings - 200mm diameter double flanged U-bend.	EACH	355.65
265	To supply, install or replace ductile iron pipe fittings - 300mm	EACH	533.48

S/No	Description	Unit	Unit Cost (\$)
	diameter double flanged U-bend.		
266	To supply, install or replace ductile iron pipe fittings - 60mm diameter four flanged cross.	EACH	150.20
267	To supply, install or replace ductile iron pipe fittings - 80mm diameter four flanged cross.	EACH	180.70
268	To supply, install or replace ductile iron pipe fittings - 100mm diameter four flanged cross.	EACH	253.60
269	To supply, install or replace ductile iron pipe fittings - 125mm diameter four flanged cross.	EACH	289.40
270	To supply, install or replace ductile iron pipe fittings - 150mm diameter four flanged cross.	EACH	338.20
271	To supply, install or replace ductile iron pipe fittings - 200mm diameter four flanged cross.	EACH	457.73
272	To supply, install or replace ductile iron pipe fittings - 300mm diameter four flanged cross.	EACH	686.67
273	To supply, install or replace ductile iron pipe for 60mm x 60mm three flanged tee.	EACH	63.20
274	To supply, install or replace ductile iron pipe for 80mm x 60mm three flanged tee.	EACH	66.90
275	To supply, install or replace ductile iron pipe for 80mm x 80mm three flanged tee.	EACH	73.20
276	To supply, install or replace ductile iron pipe for 100mm x 60mm three flanged tee.	EACH	89.70
277	To supply, install or replace ductile iron pipe for 100mm x 80mm three flanged tee.	EACH	95.00
278	To supply, install or replace ductile iron pipe for 100mm x 100mm	EACH	108.50

S/No	Description	Unit	Unit Cost (\$)
	three flanged tee.		
279	To supply, install or replace ductile iron pipe for 125mm x 60mm three flanged tee.	EACH	101.40
280	To supply, install or replace ductile iron pipe for 125mm x 80mm three flanged tee.	EACH	112.80
281	To supply, install or replace ductile iron pipe for 125mm x 100 mm three flanged tee.	EACH	124.70
282	To supply, install or replace ductile iron pipe for 125mm x 125mm three flanged tee.	EACH	130.70
283	To supply, install or replace ductile iron pipe for 150mm x 65mm three flanged tee.	EACH	128.50
284	To supply, install or replace ductile iron pipe for 150mm x 80mm three flanged tee.	EACH	138.10
285	To supply, install or replace ductile iron pipe for 150mm x 100mm three flanged tee.	EACH	149.90
286	To supply, install or replace ductile iron pipe for 150mm x 125mm three flanged tee.	EACH	153.70
287	To supply, install or replace ductile iron pipe for 150mm x 150mm three flanged tee.	EACH	168.10
288	To supply, install or replace ductile iron pipe for 200mm x 200mm three flanged tee.	EACH	217.00
289	To supply, install or replace ductile iron pipe for 300mm x 300mm three flanged tee.	EACH	325.55
290	To supply, install or replace ductile iron pipe fitting - 60mm x 60 mm double socket tees with flanged branch.	EACH	81.60
291	To supply, install or replace ductile iron pipe fittings - 80mm x 60mm	EACH	87.40

S/No	Description	Unit	Unit Cost (\$)
	double socket tees with flanged branch.		
292	To supply, install or replace ductile iron pipe fittings - 80mm x 80mm double socket tees with flanged branch.	EACH	89.10
293	To supply, install or replace ductile iron pipe fittings 100mm x 60mm double socket tees with flanged branch.	EACH	99.90
294	To supply, install or replace ductile iron pipe fittings - 100mm x 80mm double socket tees with flanged branch.	EACH	102.60
295	To supply, install or replace ductile iron pipe fittings - 100mm x 100mm double socket tees with flanged branch.	EACH	116.20
296	To supply, install or replace ductile iron pipe fittings - 125mm x 60mm double socket tees with flanged branch.	EACH	136.10
297	To supply, install or replace ductile iron pipe fittings - 125mm x 80mm double socket tees with flanged branch.	EACH	141.50
298	To supply, install or replace ductile iron pipe fittings - 125mm x 100mm double socket tees with flanged branch.	EACH	155.70
299	To supply, install or replace ductile iron pipe fittings - 125mm x 125mm double socket tees with flanged branch.	EACH	163.50
300	To supply, install or replace ductile iron pipe fittings - 150mm x 60mm double socket tees with flanged branch.	EACH	159.30
301	To supply, install or replace ductile iron pipe fittings - 150mm x 80mm double socket tees with flanged branch.	EACH	171.50
302	To supply, install or replace ductile iron pipe fittings - 150mm x 100mm double socket tees with flanged	EACH	184.50



S/No	Description	Unit	Unit Cost (\$)
	branch.		
303	To supply, install or replace ductile iron pipe fittings - 150mm x 125mm double socket tees with flanged branch.	EACH	194.40
304	To supply, install or replace ductile iron fittings - 150mm x 150mm double socket tees with flanged branch.	EACH	210.40
305	To supply, install or replace ductile iron pipe fittings - 200mm x 200mm double socket tees with flanged branch.	EACH	258.65
306	To supply, install or replace ductile iron pipe fittings - 300mm x 300mm double socket tees with flanged branch.	EACH	387.94
307	To supply, install or replace ductile iron pipe fittings - 60mm x 60mm all socket tees.	EACH	87.60
308	To supply, install or replace ductile iron pipe fittings - 80mm x 60mm all socket tees.	EACH	102.60
309	To supply, install or replace ductile iron pipe fittings - 80mm x 80mm all socket tees.	EACH	108.80
310	To supply, install or replace ductile iron pipe fittings - 100mm x 60mm all socket tees.	EACH	113.00
311	To supply, install or replace ductile iron pipe fittings - 100mm x 80mm all socket tees.	EACH	122.80
312	To supply, install or replace ductile iron pipe fittings - 100mm x 100mm all socket tees.	EACH	130.30
313	To supply, install or replace ductile iron pipe fittings - 125mm x 60mm all socket tees.	EACH	139.70
314	To supply, install or replace ductile iron pipe fittings - 125mm x 80mm all socket tees.	EACH	151.80

S/No	Description	Unit	Unit Cost (\$)
315	To supply, install or replace ductile iron pipe fittings - 125mm x 100mm all socket tees.	EACH	161.40
316	To supply, install or replace ductile iron pipe fittings - 125mm x 125mm all socket tees.	EACH	165.20
317	To supply, install or replace ductile iron pipe fittings - 150mm x 60mm all socket tees.	EACH	163.50
318	To supply, install or replace ductile iron pipe fittings - 150mm x 80mm all socket tees.	EACH	168.30
319	To supply, install or replace ductile iron pipe fittings - 150mm x 100mm all socket tees.	EACH	183.00
320	To supply, install or replace ductile iron pipe fittings - 150mm x 125mm all socket tees.	EACH	195.60
321	To supply, install or replace ductile iron pipe fittings - 150mm x 150mm all socket tees.	EACH	209.70
322	To supply, install or replace ductile iron pipe fittings - 200mm x 200mm all socket tees.	EACH	280.55
323	To supply, install or replace ductile iron pipe fittings - 300mm x 300mm all socket tees.	EACH	420.83
324	To supply, install or replace ductile iron pipe fittings - 80mm x 60mm double socket reducers.	EACH	53.60
325	To supply, install or replace ductile iron pipe fittings - 100mm x 60mm double socket reducers.	EACH	60.80
326	To supply, install or replace ductile iron pipe fittings - 100mm x 80mm double socket reducers.	EACH	70.70
327	To supply, install or replace ductile iron pipe fittings - 125mm x 60mm double socket reducers.	EACH	68.00

S/No	Description	Unit	Unit Cost (\$)
328	To supply, install or replace ductile iron pipe fittings - 125mm x 80mm double socket reducers.	EACH	81.00
329	To supply, install or replace ductile iron pipe fittings - 125mm x 100mm double socket reducers.	EACH	86.60
330	To supply, install or replace ductile iron pipe fittings - 150mm x 60mm double socket reducers.	EACH	83.30
331	To supply, install or replace ductile iron pipe fittings - 150mm x 80mm double socket reducers.	EACH	95.70
332	To supply, install or replace ductile iron pipe fittings - 150mm x 100mm double socket reducers.	EACH	102.00
333	To supply, install or replace ductile iron pipe fittings - 150mm x 125mm double socket reducers.	EACH	112.20
334	To supply, install or replace ductile iron pipe fittings - 200mm x 150mm double socket reducers.	EACH	184.60
335	To supply, install or replace ductile iron pipe fittings - 300mm x 200mm double socket reducers.	EACH	224.50
336	To supply, install or replace ductile iron pipe fittings - 80mm x 60mm double flanged reducers.	EACH	46.70
337	To supply, install or replace ductile iron pipe fittings - 100mm x 60mm double flanged reducers.	EACH	55.00
338	To supply, install or replace ductile iron pipe fittings - 100mm x 80mm double flanged reducers.	EACH	55.90
339	To supply, install or replace ductile iron pipe fittings - 125mm x 60mm double flanged reducers.	EACH	44.40
340	To supply, install or replace ductile iron pipe fittings - 125mm x 80mm double flanged reducers.	EACH	50.90

S/No	Description	Unit	Unit Cost (\$)
341	To supply, install or replace ductile iron pipe fittings - 125mm x 100mm double flanged reducers.	EACH	62.60
342	To supply, install or replace ductile iron pipe fittings - 150mm x 60mm double flanged reducers.	EACH	63.00
343	To supply, install or replace ductile iron pipe fittings - 150mm x 80mm double flanged reducers.	EACH	72.00
344	To supply, install or replace ductile iron pipe fittings - 150mm x 100mm double flanged reducers.	EACH	90.00
345	To supply, install or replace ductile iron pipe fittings - 150mm x 125mm double flanged reducers.	EACH	115.40
346	To supply, install or replace ductile iron pipe fittings - 200mm x 150mm double socket reducers.	EACH	154.16
347	To supply, install or replace ductile iron pipe fittings - 300mm x 200mm double socket reducers.	EACH	231.20
348	To supply, install or replace 50mm diameter Cast Iron Hubless epoxy coated pipe to ISO 6594 Standard complete with pipe supports, brackets, hangers and accessories, laid in trench or fix to wall (Pipe fittings, excavation and scaffold shall be paid separately)	MR	32.00
349	To supply, install or replace 75mm diameter Cast Iron Hubless epoxy coated pipe to ISO 6594 Standard complete with pipe supports, brackets, hangers and accessories, laid in trench or fix to wall (Pipe fittings, excavation and scaffold shall be paid separately)	MR	45.00
350	To supply, install or replace 100mm diameter Cast Iron Hubless epoxy coated pipe to ISO 6594 Standard complete with pipe supports, brackets, hangers and accessories, laid in trench or fix to wall (Pipe fittings, excavation and scaffold shall be paid separately)	MR	58.00

S/No	Description	Unit	Unit Cost (\$)
351	To supply, install or replace 150mm diameter Cast Iron Hubless epoxy coated pipe to ISO 6594 Standard complete with pipe supports, brackets, hangers and accessories, laid in trench or fix to wall (Pipe fittings, excavation and scaffold shall be paid separately)	MR	80.00
352	To supply, install or replace 200mm diameter Cast Iron Hubless epoxy coated pipe to ISO 6594 Standard complete with pipe supports, brackets, hangers and accessories, laid in trench or fix to wall (Pipes fittings, excavation and scaffold shall be paid separately)	MR	135.00
353	To supply, install or replace 50mm diameter cast iron Hubless bend / elbow including coupling clip.	EACH	23.00
354	To supply, install or replace 75mm diameter cast iron Hubless bend / elbow including coupling clip.	EACH	35.00
355	To supply, install or replace 100mm diameter cast iron Hubless bend / elbow including coupling clip.	EACH	42.00
356	To supply, install or replace 150mm diameter cast iron Hubless bend / elbow including coupling clip.	EACH	60.00
357	To supply, install or replace 200mm diameter cast iron Hubless bend / elbow including coupling clip.	EACH	86.00
358	To supply, install or replace 50mm diameter cast iron Hubless single branch Tee including coupling clip.	EACH	45.00
359	To supply, install or replace 75mm diameter cast iron Hubless equal / unequal branch Tee including coupling clip.	EACH	48.00
360	To supply, install or replace 100mm diameter cast iron Hubless equal / unequal branch Tee including coupling clip.	EACH	60.00
361	To supply, install or replace 150mm	EACH	98.00

S/No	Description	Unit	Unit Cost (\$)
	diameter cast iron Hubless equal / unequal branch Tee including coupling clip.		
362	To supply, install or replace 200mm diameter cast iron Hubless equal / unequal branch Tee including coupling clip.	EACH	180.00
363	To supply, install or replace 50mm diameter cast iron Hubless end plug including coupling clip.	EACH	22.00
364	To supply, install or replace 70mm diameter cast iron Hubless end plug including coupling clip.	EACH	30.00
365	To supply, install or replace 100mm diameter cast iron Hubless end plug including coupling clip.	EACH	38.00
366	To supply, install or replace 150mm diameter cast iron Hubless end plug including coupling clip.	EACH	46.00
367	To supply, install or replace 200mm diameter cast iron Hubless end plug including coupling clip.	EACH	58.00
368	To supply, install or replace 70mm diameter cast iron Hubless reducer including coupling clip.	EACH	30.00
369	To supply, insall or replace 100mm diameter cast iron Hubless reducer including coupling clip.	EACH	38.00
370	To supply, install or replace 150mm diameter cast iron Hubless reducer including coupling clip.	EACH	48.00
371	To supply, install or replace 200mm diameter cast iron Hubless reducer including coupling clip.	EACH	55.00
372	To supply, install or replace 50mm diameter cast iron Hubless coupling rubber and stainless steel clip.	EACH	18.00
373	To supply, install or replace 75mm diameter cast iron Hubless coupling rubber and stainless steel clip.	EACH	21.00

S/No	Description	Unit	Unit Cost (\$)
374	To supply, install or replace 100mm diameter cast iron Hubless coupling rubber and stainless steel clip.	EACH	23.00
375	To supply, install or replace 150mm diameter cast iron Hubless coupling rubber and stainless steel clip.	EACH	28.00
376	To supply, install or replace 200mm diameter cast iron Hubless coupling rubber and stainless steel clip.	EACH	38.00
377	To supply, install or replace 100mm diameter cast iron Hubless 'p' or 's' floor trap with or without air vent.	EACH	68.00
378	To supply, install or replace 50mm diameter cast iron Hubless access Tee including coupling clip.	EACH	38.00
379	To supply, install or replace 70mm diameter cast iron Hubless access Tee including coupling clip.	EACH	45.00
380	To supply, install or replace 100mm diameter cast iron Hubless access Tee including coupling clip.	EACH	68.00
381	To supply, install or replace 150mm diameter cast iron Hubless access Tee including coupling clip.	EACH	98.00
382	To supply, install or replace 200mm diameter cast iron Hubless access Tee including coupling clip.	EACH	215.00
383	To supply, install or replace 40mm (1 1/2") diameter Flexible Coupling Model: 7705 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	40.00
384	To supply, install or replace 50mm (2" ) Flexible Coupling Model: 7705 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	42.00
385	To supply, install or replace 65mm (2 1/2") diameter Flexible Coupling Model: 7705 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM,	EACH	45.00

S/No	Description	Unit	Unit Cost (\$)
	LPC, VDS approved.		
386	To supply, install or replace 80mm (3" ) diameter Flexible Coupling Model: 7705 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	50.00
387	To supply, install or replace 100mm (4") diameter Flexible Coupling Model: 7705 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	60.00
388	To supply, install or replace 125mm (5") diameter Flexible Coupling Model: 7705 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	83.00
389	To supply, install or replace 150mm (6")diameter Flexible Coupling Model: 7705 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	90.00
390	To supply, install or replace 200mm (8") or 216.3 O/D diameter Flexible Coupling Model: 7705 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	140.00
391	To supply, install or replace 65mm x 28mm ( 2 1/2" x 1" ) diameter Mechanical Tee (Threaded Outlet) Model: 7721 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	65.00
392	To supply, install or replace 65mm x 32mm ( 2 1/2" x 1 1/4" ) diameter Mechanical Tee (Threaded Outlet) Model: 7721 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	66.00
393	To supply, install or replace 65mm x 40mm ( 2 1/2" x 1 1/4" ) diameter Mechanical Tee (Threaded Outlet) Model: 7721 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	67.00



S/No	Description	Unit	Unit Cost (\$)
394	To supply, install or replace 80mm x 28mm ( 3" x 1" ) diameter Mechanical Tee (Threaded Outlet) Model: 7721 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	72.00
395	To supply, install or replace 80mm x 32 mm( 3" x 1 1/4" ) diameter Mechanical Tee (Threaded Outlet) Model: 7721 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	73.00
396	To supply, install or replace 80mm x 40mm (3" x 1 1/2" ) diameter Mechanical Tee (Threaded Outlet) Model: 7721 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM,LPC, VDS approved.	EACH	74.00
397	To supply, install or replace 80mm x 50mm ( 3" x 2" ) diameter Mechanical Tee (Threaded Outlet) Model: 7721 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM,LPC, VDS approved.	EACH	75.00
398	To supply, install or replace 100mm x 28mm ( 4" x 1" ) diameter Mechanical Tee (Threaded Outlet) Model: 7721 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	85.00
399	To supply, install or replace 100mm x 32mm ( 4" x 1 1/4" ) diameter Mechanical Tee (Threaded Outlet) Model: 7721 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM,LPC, VDS approved.	EACH	86.00
400	To supply, install or replace 100mm x 40mm ( 4" x 1 1/2" ) diameter Mechanical Tee (Threaded Outlet) Model: 7721 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM,LPC, VDS approved.	EACH	87.00
401	To supply, install or replace 100mm x 50mm ( 4" x 2" ) diameter Mechanical Tee (Threaded Outlet) Model: 7721 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM,LPC, VDS approved.	EACH	88.00
402	To supply, install or replace	EACH	90.00

S/No	Description	Unit	Unit Cost (\$)
403	100mm x 65mm ( 4" x 2 1/2" ) diameter Mechanical Tee (Threaded Outlet) Model: 7721 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM,LPC, VDS approved.  To supply, install or replace 100mm x 80mm ( 4" x 3" ) diameter Mechanical Tee (Threaded Outlet) Model: 7721 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM,LPC, VDS approved.	EACH	92.00
404	To supply, install or replace 150mm x 32mm ( 6" x 1 1/4" ) diameter Mechanical Tee Threaded Outlet) Model: 7721 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM,LPC, VDS approved.	EACH	112.00
405	To supply, install or replace 150mm x 40mm ( 6" x 1 1/2" ) diameter Mechanical Tee (Threaded Outlet) Model: 7721 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM,LPC, VDS approved.	EACH	113.00
406	To supply, install or replace 150mm x 50mm ( 6" x 2" ) diameter Mechanical Tee (Threaded Outlet) Model: 7721 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	114.00
407	To supply, install or replace 150mm x 65mm ( 6" x 2 1/2" ) diameter Mechanical Tee (Threaded Outlet) Model: 7721 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM,LPC, VDS approved.	EACH	115.00
408	To supply, install or replace 150mm x 80mm ( 6" x 3" ) diameter Mechanical Tee (Threaded Outlet) Model: 7721 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM,LPC, VDS approved.	EACH	119.00
409	To supply, install or replace 150mm x 100mm ( 6" x 4" ) diameter Mechanical Tee (Threaded Outlet) Model: 7721 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM,LPC, VDS approved.	EACH	121.00
410	To supply, install or replace 40mm ( 1 1/2")diameter 90 ° Grooved Elbow Model: 7110 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS	EACH	40.00

S/No	Description	Unit	Unit Cost (\$)
	approved.		
411	To supply, install or replace 50mm (2") diameter 90 ° Grooved Elbow Model: 7110 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	45.00
412	To supply, install or replace 65mm (2 1/2") diameter 90 ° Grooved Elbow Model: 7110 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	54.00
413	To supply, install or replace 80mm (3") diameter 90 ° Grooved Elbow Model: 7110 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	65.00
414	To supply, install or replace 100mm (4") diameter 90 ° Grooved Elbow Model: 7110 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	86.00
415	To supply, install or replace 125mm (5") diameter 90 ° Grooved Elbow Model: 7110 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	103.00
416	To supply, install or replace 150mm (6") diameter 90 Grooved Elbow Model: 7110 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	122.00
417	To supply, install or replace 200mm or 216.3 O/D ( 8" ) diameter 90 ° Grooved Elbow Model: 7110 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	187.00
418	To supply, install or replace 65mm (2 1/2") diameter 45 ° Grooved Elbow Model 7111 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	49.00
419	To supply, install or replace	EACH	65.00

S/No	Description	Unit	Unit Cost (\$)
420	80mm (3") diameter 45 ° Grooved Elbow Model 7111 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.  To supply, install or replace 100mm (4")diameter 45 ° Grooved Elbow Model 7111 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	84.00
421	To supply, install or replace 125mm (5") diameter 45 ° Grooved Elbow Model 7111 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	104.00
422	To supply, install or replace 150mm (6") diameter 45 Grooved Elbow Model 7111 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	124.00
423	To supply, install or replace 200mm (8")diameter 45 ° Grooved Elbow Model 7111 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	184.00
424	To supply, install or replace 40mm (1 1/2") diameter Grooved Equal Tee Model: 7120 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	44.00
425	To supply, install or replace 50mm (2") diameter Grooved Equal Tee Model: 7120 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	47.00
426	To supply, install or replace 65mm (2 1/2") diameter Grooved Equal Tee Model: 7120 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	49.00
427	To supply, install or replace 80mm (3") diameter Grooved Equal Tee Model: 7120 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	57.00

S/No	Description	Unit	Unit Cost (\$)
428	To supply, install or replace 100mm (4") diameter Grooved Equal Tee Model: 7120 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	72.00
429	To supply, install or replace 125mm (5") diameter Grooved Equal Tee Model: 7120 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	94.00
430	To supply, install or replace 150mm (6") diameter Grooved Equal Tee Model: 7120 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	121.00
431	To supply, install or replace 200mm (8") diameter Grooved Equal Tee Model: 7120 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	173.00
432	To supply, install or replace 65mm x 50mm ( 2 1/2" x 2" ) diameter Grooved Con - Reducer Model: 7150 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	44.00
433	To supply, install or replace 80mm x 50mm ( 3" x 2" ) diameter Grooved Con - Reducer Model: 7150 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	52.00
434	To supply, install or replace 80mm x 65mm (3" x 2 1/2" ) diameter Grooved Con - Reducer Model: 7150 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	54.00
435	To supply, install or replace 100mm x 50mm ( 4" x 2" ) diameter Grooved Con - Reducer Model: 7150 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	69.00
436	To supply, install or replace 100mm x 65mm ( 4" x 2 1/2" ) diameter Grooved Con - Reducer Model: 7150	EACH	70.00

S/No	Description	Unit	Unit Cost (\$)
437	Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.  To supply, install or replace 100mm x 80mm ( 4" x 3" ) diameter Grooved Con - Reducer Model: 7150 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	75.00
438	To supply, install or replace 150mm x 50mm ( 6" x 2" ) diameter Grooved Con - Reducer Model: 7150 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	96.00
439	To supply, install or replace 150mm x 65mm ( 6" x 2 1/2" ) diameter Grooved Con - Reducer Model: 7150 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	102.00
440	To supply, install or replace 150mm x 80mm ( 6" x 3" ) diameter Grooved Con - Reducer Model: 7150 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	104.00
441	To supply, install or replace 150mm x 100mm ( 6" x 4" ) diameter Grooved Con - Reducer Model: 7150 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	105.00
442	To supply, install or replace 200mm x 100mm or 216.3 O/D ( 8" x 4" ) diameter Grooved Con - Reducer Model: 7150 Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM,LPC, VDS approved.	EACH	134.00
443	To supply, install or replace 40mm (1 1/2") diameter Grooved End Cap Model: 7160	EACH	38.00
444	To supply, install or replace 50mm (2") diameter Grooved End Cap Model: 7160	EACH	39.00
445	To supply, install or replace 65mm (2 1/2") diameter Grooved End Cap Model: 7160	EACH	42.00
446	To supply, install or replace 80mm	EACH	45.00

S/No	Description	Unit	Unit Cost (\$)
	( 3" ) diameter Grooved End Cap Model: 7160		
447	To supply, install or replace 100mm ( 4" ) diameter Grooved End Cap Model: 7160	EACH	54.00
448	To supply, install or replace 125mm ( 5" ) diameter Grooved End Cap Model: 7160	EACH	67.00
449	To supply, install or replace 150mm (6") diameter Grooved End Cap Model: 7160.	EACH	77.00
450	To supply, install or replace 200mm or 216.3 O/D ( 8" ) diameter Grooved End Cap Model: 7160	EACH	94.00
451	To supply, install or replace 100mm (4") diameter Grooved End Cap with Plug Model: 7160P Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	68.00
452	To supply, install or replace 150mm (6") diameter Grooved End Cap with Plug Model: 7160P Shurjoint mechanical pipe fittings to USA ISO 9002 UL/FM, LPC, VDS approved.	EACH	92.00
453	To supply, install or replace 100mm diameter approved vitrified clay drain pipes including flexible joints to British Standard 65 and 540 to correct line and grade and in accordance to manufacturer's specification Including labour, materials, tools and transport (trench, sand or concrete bed measured separately)	MR	21.30
454	To supply, install or replace 150mm diameter approved vitrified clay drain pipes including flexible joints to British Standard 65 and 540 to correct line and grade and in accordance to manufacturer's specification Including labour, materials, tools and transport (trench, sand or concrete bed measured separately)	EACH	25.80
455	To supply, install or replace	MR	45.00

S/No	Description	Unit	Unit Cost (\$)
	225mm diameter approved vitrified clay drain pipes including flexible joints to British Standard 65 and 540 to correct line and grade and in accordance to manufacturer's specification Including labour, materials, tools and transport (trench, sand or concrete bed measured separately)		
456	To supply, install or replace 100mm diameter vitrified clay drain pipe fittings for bend 45° or 90°	NO	26.00
457	To supply, install or replace 150mm diameter vitrified clay drain pipe fittings for bend 45° or 90°	EACH	48.00
458	To supply, install or replace 225mm diameter vitrified clay drain pipe fittings for bend 45° or 90°	NO	83.20
459	To supply, install or replace 150mm diameter vitrified clay drain pipe fittings for oblique junction, drop junction, tee or other fittings.	NO	72.50
460	To supply, install or replace 225mm diameter or above vitrified clay drain pipe for oblique junction, drop junction, tee or other fittings.	NO	119.80
461	To supply, install or replace 15mm diameter Sprinkler Galvanised Iron Pipes including all brackets.	MR	12.35
462	To supply, install or replace 20mm diameter Sprinkler Galvanised Iron Pipes including all brackets.	MR	14.00
463	To supply, install or replace 25mm diameter Sprinkler Galvanised Iron Pipes including all brackets.	MR	15.90
464	To supply, install or replace 32mm diameter Sprinkler Galvanised Iron Pipes including all brackets.	MR	19.00
465	To supply, install or replace 40mm diameter Sprinkler Galvanised Iron Pipes including all brackets.	MR	21.82
466	To supply, install or replace 50mm	MR	30.30



S/No	Description	Unit	Unit Cost (\$)
	diameter Sprinkler Galvanised Iron Pipes including all brackets.		
467	To supply, install or replace 65mm diameter Sprinkler Galvanised Iron Pipes including all brackets.	MR	42.20
468	To supply, install or replace 80mm diameter Sprinkler Galvanised Iron Pipes including all brackets.	MR	51.90
469	To supply, install or replace 100mm diameter Sprinkler Galvanised Iron Pipes including all brackets.	MR	69.80
470	To supply, install or replace 150mm diameter Sprinkler Galvanised Iron Pipes including all brackets.	MR	104.50
471	To supply, install or replace 200mm diameter Sprinkler Galvanised Iron Pipes including all brackets.	MR	163.80
472	To supply, install or replace 250mm diameter Sprinkler Galvanised Iron Pipes including all brackets.	MR	239.20
473	To supply, install or replace 20mm galvanised coupling and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	5.25
474	To supply, install or replace 25mm galvanised coupling and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	6.15
475	To supply, install or replace 40mm galvanised coupling and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	8.75
476	To supply, install or replace 50mm galvanised coupling and accessories including cutting off existing pipes and accessories, re-threading, all JTs	EACH	14.00

S/No	Description	Unit	Unit Cost (\$)
	and providing additional holderbats if necessary.		
477	To supply, install or replace 80mm galvanised coupling and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	38.95
478	To supply, install or replace 100mm galvanised coupling and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary	EACH	52.50
479	To supply, install or replace 20mm galvanised elbows and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	2.60
480	To supply, install or replace 25mm galvanised elbows and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	3.60
481	To supply, install or replace 32mm galvanised elbows and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	4.65
482	To supply, install or replace 40mm galvanised elbows and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	5.70
483	To supply, install or replace 65mm galvanised elbows and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	14.90

S/No	Description	Unit	Unit Cost (\$)
484	To supply, install or replace 80mm galvanised elbows and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	21.25
485	To supply, install or replace 100mm galvanised elbows and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	26.25
486	To supply, install or replace (25mm - 20mm) galvanised reducer and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	6.30
487	To supply, install or replace (32mm - 25mm) galvanised reducer and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	7.90
488	To supply, install or replace (40mm - 30mm) galvanised reducer and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	10.15
489	To supply, install or replace (50mm - 25mm) galvanised reducer and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	12.25
490	To supply, install or replace (50mm - 40mm) galvanised reducer and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	12.70
491	To supply, install or replace (80mm - 50mm) galvanised reducer and accessories including cutting off	EACH	20.30

S/No	Description	Unit	Unit Cost (\$)
492	existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.  To supply, install or replace (100mm - 50mm) galvanised reducer and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	25.40
493	To supply, install or replace 20mm x 20mm x 20mm galvanised tees and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	6.65
494	To supply, install or replace 25mm x 20mm x 25mm galvanised tees and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	7.45
495	To supply, install or replace 25mm x 25mm x 25mm galvanised tees and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	8.30
496	To supply, install or replace 40mm x 25mm x 40mm galvanised tees and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	11.90
497	To supply, install or replace 40mm x 40mm x 40mm galvanised tees and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	13.30
498	To supply, install or replace 50mm x 40mm x 50mm galvanised tees and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	14.90

S/No	Description	Unit	Unit Cost (\$)
499	To supply, install or replace 50mm x 50mm x 50mm galvanised tees and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	16.65
500	To supply, install or replace 65mm x 50mm x 65mm galvanised tees and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	19.50
501	To supply, install or replace 65mm x 65mm x 65mm galvanised tees and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	21.70
502	To supply, install or replace 80mm x 80mm x 80mm galvanised tees and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	28.70
503	To supply, install or replace 100mm x 100mm x 100mm galvanised tees and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	35.90
504	To supply, install or replace 100mm x 50mm x 100mm galvanised tees and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	35.70
505	To supply, install or replace (32mm- 25mm) galvanised reducing elbow and accessories including cutting off existing pipes and accessories, re-threading, all joints and providing additional holderbats if necessary.	EACH	9.10
506	To supply, install or replace (25mm - 20mm) galvanised reducing elbow	EACH	7.00

S/No	Description	Unit	Unit Cost (\$)
	and accessories including cutting off existing pipes and accessories, re-threading, all joints and providing additional holderbats if necessary.		
507	To supply, install or replace 20mm galvanised pipe union with two male or female ends and accessories including cutting off existing pipes and accessories re-threading, all JTs and providing additional holderbats if necessary.	EACH	4.90
508	To supply, install or replace 25mm galvanised pipe union with two male or female ends and accessories including cutting off existing pipes and accessories re-threading, all JTs and providing additional holderbats if necessary.	EACH	6.80
509	To supply, install or replace 32mm galvanised pipe union with two male or female ends and accessories including cutting off existing pipes and accessories re-threading, all JTs and providing additional holderbats if necessary.	EACH	7.90
510	To supply, install or replace 40mm galvanised pipe union with two male or female ends and accessories including cutting off existing pipes and accessories re-threading, all JTs and providing additional holderbats if necessary.	EACH	9.65
511	To supply, install or replace 50mm galvanised pipe union with two male or female ends and accessories including cutting off existing pipes and accessories re-threading, all JTs and providing additional holderbats if necessary.	EACH	12.25
512	To supply, install or replace 80mm galvanised pipe union with two male or female ends and accessories including cutting off existing pipes and accessories re-threading, all JTs and providing additional holderbats if necessary.	EACH	38.50

S/No	Description	Unit	Unit Cost (\$)
513	To supply, install or replace 100mm galvanised pipe union with two male or female ends and accessories including cutting off existing pipes and accessories re-threading, all JTs and providing additional holderbats if necessary.	EACH	52.50
514	To supply, install or replace 20mm galvanised bush and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	3.15
515	To supply, install or replace 25mm galvanised bush and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	4.20
516	To supply, install or replace 40mm galvanised bush and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	5.25
517	To supply, install or replace 50mm galvanised bush and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	7.00
518	To supply, install or replace 80mm galvanised bush and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	12.25
519	To supply, install or replace 100mm galvanised bush and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	15.75
520	To supply, install or replace 13mm	EACH	1.70

S/No	Description	Unit	Unit Cost (\$)
	galvanised nipple and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.		
521	To supply, install or replace 20mm galvanised nipple and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	2.30
522	To supply, install or replace 25mm galvanised nipple and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	3.30
523	To supply, install or replace 32mm galvanised nipple and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	4.55
524	To supply, install or replace 40mm galvanised nipple and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	5.10
525	To supply, install or replace 80mm galvanised nipple and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	17.50
526	To supply, install or replace 100mm galvanised nipple and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	21.00
527	To supply, install or replace 20mm galvanised collar connector and accessories including cutting off existing pipes and accessories, re-	EACH	3.10



S/No	Description	Unit	Unit Cost (\$)
	threading, all JTs and providing additional holderbats if necessary.		
528	To supply, install or replace 25mm galvanised collar connector and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	4.10
529	To supply, install or replace 32mm galvanised collar connector and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	6.15
530	To supply, install or replace 40mm galvanised collar connector and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	7.45
531	To supply, install or replace 50mm galvanised collar connector and accessories in including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	8.75
532	To supply, install or replace 80mm galvanised collar connector and accessories including cutting off existing pipes and accessories, re-threading, all JTs and providing additional holderbats if necessary.	EACH	15.75
533	To supply, install or replace 20mm galvanised cap end or plug and accessories including cutting off existing pipes and accessories re-threading, all JTs and providing additional holderbats if necessary.	EACH	2.45
534	To supply, install or replace 25mm galvanised cap end or plug and accessories including cutting off existing pipes and accessories re-threading, all JTs and providing additional holderbats if necessary.	EACH	3.50

S/No	Description	Unit	Unit Cost (\$)
535	To supply, install or replace 30mm galvanised cap end or plug and accessories including cutting off existing pipes and accessories re-threading, all JTs and providing additional holderbats if necessary.	EACH	4.40
536	To supply, install or replace 40mm galvanised cap end or plug and accessories including cutting off existing pipes and accessories re-threading, all JTs and providing additional holderbats if necessary.	EACH	5.25
537	To supply, install or replace 50mm galvanised cap end or plug and accessories including cutting off existing pipes and accessories re-threading, all JTs and providing additional holderbats if necessary.	EACH	6.85
538	To supply, install or replace 65mm galvanised cap end or plug and accessories including cutting off existing pipes and accessories re-threading, all JTs and providing additional holderbats if necessary.	EACH	7.00
539	To supply, install or replace 80mm galvanised cap end or plug and accessories including cutting off existing pipes and accessories re-threading, all JTs and providing additional holderbats if necessary.	EACH	8.75
540	To supply, install or replace 100mm galvanised cap end or plug and accessories including cutting off existing pipes and accessories re-threading, all JTs and providing additional holderbats if necessary.	EACH	12.25
541	To supply, install or replace 100mm diameter Galvanised Flanged Plate.	EACH	15.60
542	To supply, install or replace bolted flanged Joints including necessary drilling, thread ends, flange plates, gaskets, bolts and nuts to 50mm diameter galvanised pipe.	JOB	21.60
543	To supply, install or replace	JOB	32.40

S/No	Description	Unit	Unit Cost (\$)
	bolted flanged Joints including necessary drilling, thread ends, flange plates, gaskets, bolts and nuts to 75mm diameter galvanised pipe.		
544	To supply, install or replace bolted flanged Joints including necessary drilling, thread ends, flange plates, gaskets, bolts and nuts to 100mm diameter galvanised pipe.	JOB	42.00
545	Not In Use	-	
546	Supply & install or replace pendant spray sprinkler head with adjustable 2 piece ceiling plate c/w range pipe.	EACH	149.50
547	Supply & Install or replace pendant spray sprinkler head with cover plate c/w range pipe.	EACH	224.25
548	Supply & Install or replace pendant spray sprinkler head without ceiling plate c/w range pipe.	EACH	149.50
549	Supply & Install or replace upright spray sprinkler head without ceiling plate c/w range pipe.	EACH	149.50
550	Supply & Install or replace relocation of sprinkler head and c/w range pipe.	EACH	90.00
551	Supply & Install or replace 100mm diameter sprinkler alarm valve c/w alarm gong, trimset, pressure switch and gauge complying to CP 52 : 2004, Automatic Fire Sprinkler System.	EACH	4,485.00
552	Supply & Install or replace 150mm diameter sprinkler alarm valve c/w alarm gong, trimset, pressure switch and gauge complying to CP 52 : 2004, Automatic Fire Sprinkler System.	EACH	5,980.00
553	Supply & Install or replace pressure switch (for 300 psi and below)	EACH	300.00
554	Supply & Install or replace flow switch (for 300 psi and below)	EACH	400.00
555	Supply & Install or replace 2 ways (420 sq. mm x 300 D) Breaching Inlet	EACH	747.50

S/No	Description	Unit	Unit Cost (\$)
	Installation c/w cabinet lockets and keys for Fire Brigade to comply with Automatic Fire Sprinkler System CP 52: 2004		
556	Supply & Install or replace 4 ways (420 sq. mm x 300 D) Breaching Inlet Installation c/w cabinet lockset and keys for Fire Brigade to comply with Automatic Fire Sprinkler System CP 52 : 2004	EACH	1,046.50
557	Supply & Install or replace 100mm dial face Pressure Gauge (0 to 14 bar) c/w gauge cock.	EACH	61.00
558	Supply & Install or replace 80mm diameter (500 - 1000 l/m) Shunt gap flow meter.	EACH	1,650.00
559	Supply & Install or replace 100mm diameter (1000 - 2500 l/m) Shunt gap flow meter.	EACH	1,755.00
560	Supply & Install or replace 150mm diameter (1000 - 5000 l/m) Shunt gap flow meter.	EACH	2,080.00
561	Supply & Install or replace 150mm diameter Alarm Sounder (weather proof)	EACH	117.00
562	Supply & Install or replace 200mm diameter Alarm Sounder (weather proof)	EACH	198.00
563	Supply & Install or replace 150mm diameter Alarm Sounder (normal)	EACH	66.00
564	Supply & Install or replace 200mm diameter Alarm Sounder (normal)	EACH	134.00
565	Supply & Install or replace Landing Valve (2 outlets) for Dry Riser c/w cabinet, lockset and keys.	EACH	507.00
566	Supply & Install or replace Landing Valve (1 outlet) for Dry Riser c/w cabinet, lockset and keys.	EACH	215.00
567	Supply & Install or replace Landing Valve cap c/w chain.	EACH	25.00
568	Supply & Install or replace Air release valve.	EACH	60.00

S/No	Description	Unit	Unit Cost (\$)
569	Supply & Install or replace pendant spray sprinkler head.	EACH	27.60
570	Supply & Install or replace upright spray sprinkler head.	EACH	27.60
571	Supply & Install or replace conceal sprinkler with white cover plate.	EACH	74.75
572	Supply & Install or replace sprinkler 2 piece adjustable plate.	EACH	34.45
573	Supply & Install or replace white cover plate for conceal sprinkler.	EACH	34.45
574	Supply & Install or replace metal guard for sprinkler.	EACH	25.30
575	Supply & Install or replace conceal sprinkler with white cover plate (79 degree)	EACH	95.45
576	Supply & Install or replace sprinkler 2 piece adjustable plate (79 degree) for sprinkler.	EACH	27.60
577	Supply & Install or replace white cover plate for conceal sprinkler (79 degree)	EACH	34.45
578	Supply & Install or replace Metal guard (79 degree) for sprinkler.	EACH	23.00
579	Supply & Install or replace pendant spray sprinkler head (141 degree).	EACH	41.40
580	Supply & Install or replace upright spray sprinkler head (141 degree)	EACH	41.40
581	Supply & Install or replace conceal sprinkler with white cover plate (141 degree)	EACH	112.70
582	Supply & Install or replace sprinkler 2 piece adjustable plate (141 degree)	EACH	27.60
583	Supply & Install or replace white cover plate for conceal sprinkler (141 degree)	EACH	36.80
584	Supply & Install or replace metal guard for sprinkler (141 degree)	EACH	25.30
585	Repainting of 20mm diameter Sprinkler	MR	8.00

S/No	Description	Unit	Unit Cost (\$)
	pipes (inclusive of one primer coat and two finishing coat of SISIR approved paint)		
586	Repainting of 25mm diameter Sprinkler pipes (inclusive of one primer coat and two finishing coat of SISIR approved paint)	MR	9.78
587	Repainting of 32mm diameter Sprinkler pipes (inclusive of one primer coat and two finishing coat of SISIR approved paint)	MR	10.35
588	Repainting of 40mm diameter Sprinkler pipes (inclusive of one primer coat and two finishing coat of SISIR approved paint)	MR	10.93
589	Repainting of 50mm diameter Sprinkler pipes (inclusive of one primer coat and two finishing coat of SISIR approved paint)	MR	11.50
590	Repainting of 65mm diameter Sprinkler pipes (inclusive of one primer coat and two finishing coat of SISIR approved paint)	MR	12.08
591	Repainting of 80mm diameter Sprinkler pipes (inclusive of one primer coat and two finishing coat of SISIR approved paint)	MR	12.65
592	Repainting 100mm diameter Sprinkler pipes (inclusive of one primer coat and two finishing coating of SISIR approved paint)	MR	13.23
593	Repainting of 150mm diameter (inclusive of one prime coat and two finishing coat of SISIR approved paint) Material No: 8700050072 Old Material No: CF0072I	MR	13.80
594	Coating of existing 20mm diameter Sprinkler pipes with fire proofing or equivalent material (2 hour rated) approved by FSB.	MR	50.95
595	Coating of existing 25mm diameter Sprinkler pipes with fire proofing or	MR	57.90

S/No	Description	Unit	Unit Cost (\$)
	equivalent material (2 hour rated) approved by FSB.		
596	Coating of existing 32mm diameter Sprinkler pipes with fire proofing or equivalent material (2 hour rated) approved by FSB.	MR	60.00
597	Coating of existing 40mm diameter Sprinkler pipes with fire proofing or equivalent material (2 hour rated) approved by FSB.	MR	71.20
598	Coating of existing 50mm diameter Sprinkler pipes with fire proofing or equivalent material (2 hour rated) approved by FSB.	MR	76.25
599	Coating of existing 65mm diameter Sprinkler pipes with fire proofing or equivalent material (2 hour rated) approved by FSB.	MR	88.95
600	Coating of existing 80mm diameter Sprinkler pipes with fire proofing or equivalent material (2 hour rated) approved by FSB.	MR	101.65
601	Coating of existing 100mm diameter Sprinkler pipes with fire proofing or equivalent material (2 hour rated) approved by FSB.	MR	127.05
602	Coating of existing 150mm diameter Sprinkler pipes with fire proofing or equivalent material (2 hour rated) approved by FSB.	MR	152.50
603	To supply labour to drain and recharge of sprinkler system upon completion of job.	JOB	260.00
604	To supply labour to isolate and recharge system upon completion of job Material No: 8700050083 Old Material No: CF0083I	O JO	148.60
605	To supply and install alarm gong (not more than 8" dia.)	EACH	635.40
606	To supply and install side wall spray spinkler	EACH	58.65

S/No	Description	Unit	Unit Cost (\$)
607	To supply, install or replace 13mm diameter Galvanised Steel pipe to SS 17 with PUB approved internal lining including hacking of hole through walls or slabs, cutting off existing and disposed off site. (all pipe fittings and trench excavation measured separately)	MR	6.50
608	To supply, install or replace 19mm diameter Galvanised Steel pipe to SS 17 with PUB approved internal lining including hacking of hole through walls or slabs, cutting off existing and disposed off site. (all pipe fittings and trench excavation measured separately)	MR	8.35
609	To supply, install or replace 25mm diameter Galvanised Steel pipe to SS 17 with PUB approved internal lining including hacking of hole through walls or slabs, cutting off existing and disposed off site. (all pipe fittings and trench excavation measured separately)	MR	12.05
610	To supply, install or replace 32mm diameter Galvanised Steel pipe to SS 17 with PUB approved internal lining including all necessary pipe holderbats /brackets, etc. fixed to brickwork/concrete or laid in cased concrete, in floor or trench. (All pipe fittings and chasing concrete or trench excavation measured seperately)	MR	15.55
611	To supply, install or replace 40mm diameter Galvanised Steel pipe to SS 17 with PUB approved internal lining including hacking of hole through walls or slabs, cutting off existing and disposed off site. (all pipe fittings and trench excavation measured separately)	MR	17.70
612	To supply, install or replace 50mm diameter Galvanised Steel pipe to SS 17 with PUB approved internal lining including hacking of hole through walls or slabs, cutting off existing and	MR	22.05



S/No	Description	Unit	Unit Cost (\$)
613	disposed off site. (all pipe fittings and trench excavation measured separately) To supply, install or replace 65mm diameter Galvanised Steel pipe to SS 17 with PUB approved internal lining including hacking of hole through walls or slabs, cutting off existing and disposed off site and make good all work disturbed on completion. (all pipe fittings and trench excavation measured separately)	MR	29.25
614	To supply, install or replace 75mm-80mm diameter Galvanised Steel pipe to SS 17 with PUB approved internal lining including hacking of hole through walls or slabs, cutting off existing and disposed off site. (all pipe fittings and trench excavation measured separately)	MR	36.15
615	To supply, install or replace 100mm diameter Galvanised Steel pipe to SS 17 with PUB approved internal lining including hacking of hole through walls or slabs, cutting off existing and disposed off site. (all pipe fittings and trench excavation measured separately)	MR	45.75
616	To supply, install or replace 150mm diameter Galvanised Steel pipe to SS 17 with PUB approved internal lining including hacking of hole through walls or slabs, cutting off existing and disposed off site. (all pipe fittings and trench excavation measured separately)	MR	83.00
617	To supply, install or replace 13mm diameter Socket Galvanised Steel pipe fitting with PUB approved internal lining, including cutting off existing pipes and fittings. (Trench excavation measured separately)	EACH	1.50
618	To supply, install or replace 25mm diameter Socket Galvanised steel pipe fitting with PUB approved internal lining, including cutting off existing	EACH	3.40

S/No	Description	Unit	Unit Cost (\$)
	pipes and fittings. (Trench excavation measured separately)		
619	To supply, install or replace 40mm diameter Socket Galvanised Steel pipe fitting with PUB approved internal lining, including cutting off existing pipes and fittings.(Trench excavation measured separately)	EACH	5.00
620	To supply, install or replace 50mm diameter Socket Galvanised Steel pipe fitting with PUB approved internal lining, including cutting off existing pipes and fittings.(Trench excavation measured separately)	EACH	6.50
621	To supply, install or replace 65mm diameter Socket Galvanised Steel pipe fitting with PUB approved internal lining, including cutting off existing pipes fittings.(Trench excavation measured separately)	EACH	12.80
622	To supply, install or replace 75mm diameter Socket Galvanised Steel pipe fitting with PUB approved internal lining, including cutting off existing pipes and fittings. (Trench excavation measured separately)	EACH	15.60
623	To supply, install or replace 25mm x 13mm x 25mm diameter Reducing Tee Galvanised Steel pipe fitting with PUB approved internal lining and accessories, including cutting off existing pipes and fittings.(Trench excavation measured separately)	EACH	7.10
624	To supply, install or replace 50mm x 25mm x 50mm diameter Reducing Tee Galvanised Steel pipe fitting with PUB approved internal lining and accessories, including cutting off existing pipes and fittings.(Trench excavation measured separately)	EACH	14.20
625	To supply , install or replace 75mm x 32mm x 75mm diameter Reducing Tee Galvanised Steel pipe fitting with PUB approved internal lining and accessories, including cutting off	EACH	32.00

S/No	Description	Unit	Unit Cost (\$)
	existing pipes and fittings.(Trench excavation measured separately)		
626	To supply, install or replace 65mm x 50mm diameter Reducing Elbow Galvanised Steel pipe fitting with PUB approved internal lining and accessories,including cutting existing pipes and fittings.(Trench excavation measured separately)	EACH	23.60
627	To supply, install or replace 65mm x 13mm diameter Reducing Elbow Galvanised Steel pipe fitting with PUB approved internal lining and accessories, including cutting off existing pipes and fittings.(Trench excavation measured separately)	EACH	21.50
628	To supply, install or replace 50mm x 40mm diameter Reducing Elbow Galvanised Steel pipe fitting with PUB approved internal lining and accessories, including cutting off existing pipes and fittings. (Trench excavation measured separately)	EACH	12.20
629	To supply, install or replace 50mm x 13mm diameter Reducing Elbow Galvanised Steel pipe fitting with PUB approved internal lining and accessories, including cutting off existing pipes and fittings.(Trench excavation measured separately)	EACH	11.70
630	To supply, install or replace 13mm diameter Tee Galvanised Steel pipe fitting with PUB approved internal lining and accessories, including cutting off existing pipes and fittings. (Trench excavation measured separately)	EACH	2.70
631	To supply, install or replace 25mm diameter Tee Galvanised Steel pipe fitting with PUB approved internal lining and accessories, including cutting off existing pipes and fittings.(Trench excavation measured separately)	EACH	5.00
632	To supply, install or replace 40mm diameter Tee Galvanised Steel pipe	EACH	7.90

S/No	Description	Unit	Unit Cost (\$)
	fitting with PUB approved internal lining and accessories, including cutting off existing pipes and make good to all work disturbed on completion. (Trench excavation measured separately)		
633	To supply, install or replace 50mm diameter Tee Galvanised Steel pipe fitting with PUB approved internal lining and accessories, including cutting off existing pipes and fittings. (Trench excavation measured separately)	EACH	10.00
634	To supply, install or replace 65mm diameter Tee Galvanised Steel pipe fitting with PUB approved internal lining and accessories, including cutting off existing pipes and fittings. (Trench excavation measured separately)	EACH	23.60
635	To supply, install or replace 75mm diameter Tee Galvanised Steel pipe fitting with PUB approved internal lining and accessories, including cutting off existing pipes and fittings. (Trench excavation measured separately)	EACH	26.70
636	To supply, install or replace 13mm diameter Elbow Galvanised Steel pipe fitting with PUB approved internal lining, including cutting off existing pipes and fittings. (Trench excavation measured separately)	EACH	1.60
637	To supply, install or replace 75mm diameter Elbow/Bend Galvanised Steel pipe fitting with PUB approved internal lining, including cutting off existing pipes and fittings. (Trench excavation measured separately)	EACH	22.60
638	To supply, install or replace - new galvanised steel holderbats or clips for water pipes not exceeding 25mm diameter including making good all work disturbed.	EACH	1.22
639	To supply, install or replace - new galvanised steel holderbats or clips for water pipes exceeding 25mm diameter but not exceeding 50mm diameter including making good all work	EACH	1.43

S/No	Description	Unit	Unit Cost (\$)
	disturbed.		
640	To supply, install or replace - new galvanised steel holderbats or clips for water pipes exceeding 50mm diameter including making good all work disturbed.	EACH	3.08
641	To supply, install or replace 50mm diameter nipple Galvanised Steel pipe fitting with PUB approved internal lining, including cutting off existing pipes and fittings. (Trench excavation measured separately)	EACH	8.05
642	To supply, install or replace 75mm diameter nipple Galvanised Steel pipe fitting with PUB approved internal lining, including cutting off existing pipes and fittings.(Trench excavation measured separately)	EACH	17.40
643	To supply, install or replace 32mm galvanised steel "P" or "S" trap with cleaning eye in new or replacement including all connections and adjustment to pipe.	EACH	7.30
644	To supply, install or replace 38mm galvanised steel "P" or "S" trap with cleaning eye in new or replacement including all connections and adjustment to pipe.	EACH	9.00
645	To supply, install or replace 32mm brass with cleaning eye in new or replacement including connections and adjustment to pipe.	EACH	26.50
646	To supply, install or replace 38mm brass trap with cleaning eye in new or replacement including connections and adjustment to pipe.	EACH	32.80
647	To supply, install or replace 38mm diameter approved polyurethane antiacid "P" or "S" trap in new or replacement including all connections and adjustment to pipe.	EACH	38.60
648	To supply, install or replace 38mm diameter approved vulcathene anti-acid	EACH	79.80

S/No	Description	Unit	Unit Cost (\$)
	"P" or "S" trap in new or replacement including all connections and adjustment to pipe.		
649	To supply, install or replace Approved 13mm - 15mm diameter brass compression coupling stainless steel pipes and fittings to BS 4127.	EACH	3.25
650	To supply, install or replace Approved 22mm diameter brass compression coupling stainless steel pipes and fittings to BS 4127	EACH	3.90
651	To supply, install or replace Approved 28mm diameter brass compression coupling stainless steel pipes and fittings to BS 4127	EACH	6.70
652	To supply, install or replace Approved 35mm diameter brass compression coupling stainless steel pipes and fittings to BS 4127	EACH	8.90
653	To supply, install or replace Approved 42mm diameter brass compression coupling stainless steel pipes and fittings to BS 4127	EACH	11.10
654	To supply, install or replace Approved 54mm diameter brass compression coupling stainless steel pipes and fittings to BS 4127	EACH	14.20
655	To supply, install or replace Approved 42mm x 54mm diameter Coupling/Union Compression for Stainless Steel pipes fittings to BS 864	EACH	17.60
656	To supply, install or replace approved 35mm x 54mm diameter Coupling/Union Compression for Stainless Steel pipes fittings to BS 864	EACH	16.90
657	To supply, install or replace approved 54mm diameter Brass Stop End fitting to BS 864 for Stainless Steel pipes	EACH	16.40
658	To supply, install or replace approved 54mm diameter Brass Nipple fitting to BS 864 for Stainless Steel pipes	EACH	3.10
659	To supply, install or replace approved 28mm x 15mm x 28mm diameter Tee Compression fitting to BS 864 for Stainless Steel pipes	EACH	9.70

S/No	Description	Unit	Unit Cost (\$)
660	To supply, install or replace 40mm (1 1/2 ") diameter or below stainless steel clamp.	EACH	180.00
661	To supply, install or replace 50mm (2 ") diameter stainless steel clamp.	EACH	205.00
662	To supply, install or replace 65mm (2 1/2") diameter stainless steel clamp.	EACH	220.00
663	To supply, install or replace 80mm (3 ") diameter stainless steel clamp.	EACH	245.00
664	To supply, install or replace 100mm (4 ") diameter stainless steel clamp.	EACH	260.00
665	To supply, install or replace 150mm (6 ") diameter stainless steel clamp.	EACH	350.00
666	To supply, install or replace 200mm (8 ") diameter stainless steel clamp.	EACH	380.00
667	To supply, install or replace 300mm (12 ") diameter or above stainless steel clamp.	EACH	490.00
668	To supply, install or replace approved 13mm - 15mm diameter Elbow Compression fitting to BS 864 for Stainless Steel pipes	EACH	3.90
669	To supply, install or replace approved 22mm diameter Elbow Compression fitting to BS 864 for Stainless Steel pipes	EACH	4.60
670	To supply, install or replace approved 28mm diameter Elbow Compression fitting to BS 864 for Stainless Steel pipes	EACH	6.10
671	To supply, install or replace approved 35mm diameter Elbow Compression fitting to BS 864 for Stainless Steel pipes	EACH	10.10
672	To supply, install or replace approved 42mm diameter Elbow Compression fitting to BS 864 for Stainless Steel pipes	EACH	13.30
673	To supply, install or replace approved 54mm diameter Elbow Compression fitting to BS 864 for Stainless Steel pipes	EACH	20.30
674	To supply, install or replace approved	EACH	28.20

S/No	Description	Unit	Unit Cost (\$)
675	75mm diameter Elbow Compression fitting to BS 864 for Stainless Steel pipes.  To supply, install or replace 38mm diameter Polypropylene or other equal and approved non-corrosive, acid resistance pipes and fittings fixed with moulded holding clips or brackets to users' requirements where necessary and jointed by "Mechanical" method or any other means as required.	MR	34.40
676	To supply, install or replace 51mm diameter Polypropylene or other equal and approved non-corrosive, acid-resistance pipes and fittings fixed with moulded holding clips or brackets to users' requirements where necessary and jointed by "Mechanical" method or any other means as required.	MR	43.00
677	To supply, install or replaced 76mm diameter Polpropylene or other equal and approved non-corrosive, acid-resistance pipes and fittings fixed with moulded holding clips or brackets to users' requirements where necessary and jointed by "Mechanical" method or any other means as required.	MR	81.85
678	To supply, install or replace 102mm diameter Polypropylene or other equal and approved non-corrosive, acid-resistance pipes and fittings with moulded holding clips or brackets to users' requirements where necessary and jointed by "Mechanical" method or any other means as required.	MR	125.84
679	To supply, install or replace Approved 76mm x 76mm x 76mm tee polypropylene pipe (chemical resistant) fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	79.45
680	To supply, install or replace Approved 102mm x 102mm x 102mm tee polypropylene pipe (chemical resistant) fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	108.00



S/No	Description	Unit	Unit Cost (\$)
681	To supply, install or replace Approved 76mm elbow Polypropylene pipe (chemical resistant) fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	68.75
682	To supply, install or replace Approved 102mm elbow Polypropylene pipe (chemical resistant) fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	80.75
683	To supply, install or replace Approved 76mm x 38mm reducer Polypropylene pipe (chemical resistant) fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	23.60
684	To supply, install or replace Approved 75mm x 51mm reducer Polypropylene pipe (chemical resistant) fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	27.65
685	To supply, install or replace Approved 100mm x 51mm reducer Polypropylene pipe (chemical resistant) fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	35.60
686	To supply, install or replace Approved 102mm x 51mm reducer Polypropylene pipe (chemical resistant) fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	36.85
687	To supply, install or replace Approved 102mm x 76mm reducer Polypropylene pipe (chemical resistant) fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	38.80
688	To supply, install or replace Approved 38mm x 38mm x 38mm tee polypropylene pipe (chemical resistant) fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	39.60
689	To supply, install or replace Approved 51mm x 51mm x 51mm tee polypropylene	EACH	53.20

S/No	Description	Unit	Unit Cost (\$)
	pipe (chemical resistant) fittings including cutting off existing pipes and make good all work disturbed on completion.		
690	To supply, install or replace Approved 38mm elbow Polypropylene pipe (chemical resistant) fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	34.05
691	To supply, install or replace Approved 51mm elbow Polypropylene pipe (chemical resistant) fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	46.00
692	To supply, install or replace Approved 51mm x 38mm reducer Polypropylene pipe (chemical resistant) fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	19.35
693	To supply, install or replace Approved 38mm socket connect Polypropylene pipe (chemical resistant) fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	30.60
694	To supply, install or replace Approved 51mm socket connect Polypropylene pipe (chemical resistant) fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	41.15
695	To supply, install or replace Approved 76mm socket connect Polypropylene pipe (chemical resistant) fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	61.85
696	To supply, install or replace Approved 102mm socket connect Polypropylene pipe (chemical resistant) fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	79.87
697	To supply, install or replace Approved 38mm bottle trap Polypropylene pipe (chemical resistant) fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	64.80

S/No	Description	Unit	Unit Cost (\$)
698	To supply, install or replace Approved 38mm waste Polypropylene pipe (chemical resistant) fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	30.00
699	To supply, install or replace 13mm diameter UPVC Heavy Duty water supply pipe to SS 141 including hacking of hole through walls or slabs, cutting off existing and disposed off site and make good all work disturbed on completion. (all pipe fittings and trench excavation measured separately)	MR	4.40
700	To supply, install or replace 15mm-16mm diameter UPVC Heavy Duty water supply pipe to SS 141 including hacking of hole through walls or slabs, cutting off existing and disposed off site and make good all work disturbed on completion. (all pipe fittings and trench excavation measured separately)	MR	4.65
701	To supply, install or replace 20mm diameter UPVC Heavy Duty water supply pipe to SS 141 including hacking of hole through walls or slabs, cutting off existing and disposed off site and make good all work disturbed on completion. (all pipe fittings and trench excavation measured separately)	MR	5.20
702	To supply, install or replace 25mm diameter UPVC Heavy Duty water supply pipe to SS 141 including hacking of hole through walls or slabs, cutting off existing and disposed off site and make good all work disturbed on completion. (all pipe fittings and trench excavation measured separately)	MR	6.95
703	To supply, install or replace 32mm diameter UPVC Heavy Duty water supply pipe to SS 141 including hacking of hole through walls or slabs, cutting off existing and disposed off site and make good all work disturbed on completion. (all pipe fittings and trench excavation measured separately)	MR	7.55

S/No	Description	Unit	Unit Cost (\$)
704	To supply, install or replace 40mm diameter UPVC Heavy Duty water supply pipe to SS 141 including hacking of hole through walls or slabs, cutting off existing and disposed off site and make good all work disturbed on completion. (all pipe fittings and trench excavation measured separately)	MR	9.00
705	To supply, install or replace 50mm diameter UPVC Heavy Duty water supply pipe to SS 141 including hacking of hole through walls or slabs, cutting off existing and disposed off site and make good all work disturbed on completion. (all pipe fittings and trench excavation measured separately)	MR	11.35
706	To supply, install or replace 80mm diameter UPVC Heavy Duty water supply pipe to SS 141 including hacking of hole through walls or slabs, cutting off existing and disposed off site and make good all work disturbed on completion. (all pipe fittings and trench excavation measured separately)	MR	14.20
707	To supply, install or replace 100mm diameter UPVC Heavy Duty water supply pipe to SS 141 including hacking of hole through walls or slabs, cutting off existing and disposed off site and make good all work disturbed on completion. (all pipe fittings and trench excavation measured separately)	MR	20.90
708	To supply, install or replace 155mm diameter UPVC Heavy Duty water supply pipe to SS 141 including hacking of hole through walls or slabs, cutting off existing and disposed off site and make good all work disturbed on completion. (all pipe fittings and trench excavation measured separately)	MR	25.55
709	To supply, install or replace Approved 16mm UPVC heavy duty bend elbow and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	2.70
710	To supply, install or replace Approved	EACH	2.90

S/No	Description	Unit	Unit Cost (\$)
	20mm UPVC heavy duty bend elbow and fittings including cutting off existing pipes and make good all work disturbed on completion.		
711	To supply, install or replace Approved 25mm UPVC heavy duty bend elbow and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	3.20
712	To supply, install or replace Approved 32mm UPVC heavy duty bend elbow and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	3.60
713	To supply, install or replace Approved 40mm UPVC heavy duty bend elbow and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	4.80
714	To supply, install or replace Approved 50mm UPVC heavy duty bend elbow and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	5.90
715	To supply, install or replace Approved 80mm UPVC heavy duty bend elbow and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	13.30
716	To supply, install or replace Approved 100mm UPVC heavy duty bend elbow and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	22.90
717	To supply, install or replace Approved 155mm UPVC heavy duty bend elbow and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	28.23
718	To supply, install or replace Approved 16mm UPVC heavy duty connector or socket and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	2.50

S/No	Description	Unit	Unit Cost (\$)
719	To supply, install or replace Approved 20mm UPVC heavy duty connector or socket and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	2.70
720	To supply, install or replace Approved 25mm UPVC heavy duty connector or socket and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	3.00
721	To supply, install or replace Approved 32mm UPVC heavy duty connector or socket and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	3.20
722	To supply, install or replace Approved 40mm UPVC heavy duty connector or socket and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	3.90
723	To supply, install or replace Approved 50mm UPVC heavy duty connector or socket and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	4.00
724	To supply, install or replace approved 65mm diameter UPVC heavy duty Connector or Socket fittings to including cutting off existing pipes and make good to all work disturbed on completion. (Trench excavation measured seperately)	MR	8.20
725	To supply, install or replace Approved 80mm UPVC heavy duty connector or socket and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	8.50
726	To supply, install or replace Approved 100mm UPVC heavy duty connector or socket and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	18.20
727	To supply, install or replace Approved 155mm UPVC heavy duty connector or	EACH	23.34

S/No	Description	Unit	Unit Cost (\$)
	socket and fittings including cutting off existing pipes and make good all work disturbed on completion.		
728	To supply, install or replace Approved 16mm UPVC heavy duty valve socket and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	2.80
729	To supply, install or replace Approved 20mm UPVC heavy duty valve socket and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	2.90
730	To supply, install or replace Approved 25mm UPVC heavy duty valve socket and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	3.15
731	To supply, install or replace Approved 32mmUPVC heavy duty valve socket and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	3.38
732	To supply, install or replace Approved 40mm UPVC heavy duty valve socket and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	4.80
733	To supply, install or replace Approved 50mm UPVC heavy duty valve socket and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	7.70
734	To supply, install or replace Approved 80mm UPVC heavy duty valve socket and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	13.15
735	To supply, install or replace Approved 100mm UPVC heavy duty valve socket and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	22.25

S/No	Description	Unit	Unit Cost (\$)
736	To supply, install or replace Approved 155mm UPVC heavy duty valve socket and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	32.25
737	To supply, install or replace Approved 20mm UPVC saddle clip and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	1.00
738	To supply, install or replace Approved 25mm UPVC saddle clip and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	1.30
739	To supply, install or replace Approved 32mm UPVC saddle clip and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	1.40
740	To supply, install or replace Approved 40mm UPVC saddle clip and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	1.60
741	To supply, install or replace Approved 50mm UPVC saddle clip and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	1.60
742	To supply, install or replace Approved 16mm UPVC heavy duty faucet socket and fittings including cutting off existing pipes and make good all work disturbed on completion. 20mm UPVC heavy duty faucet socket and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	2.90
744	To supply, install or replace Approved pipes and make good all work disturbed on completion.	EACH	3.20
745	To supply, install or replace Approved 16mm UPVC heavy duty end cap and	EACH	1.70



S/No	Description	Unit	Unit Cost (\$)
746	fittings including cutting off existing To supply, install or replace Approved 20mm UPVC heavy duty end cap and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	2.05
747	To supply, install or replace Approved 25mm UPVC heavy duty end cap and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	2.25
748	To supply, install or replace Approved 32mm UPVC heavy duty end cap and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	2.45
749	To supply, install or replace Approved 40mm UPVC heavy duty end cap and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	3.70
750	To supply, install or replace Approved 50mm UPVC heavy duty end cap and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	6.85
751	To supply, install or replace Approved 80mm UPVC heavy duty end cap and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	10.75
752	To supply, install or replace Approved 100mm UPVC heavy duty end cap and fitting including cutting off existing pipes and make good all work disturbed on completion.	EACH	18.30
753	To supply, install or replace approved 20mm x 13mm UPVC heavy duty reducing socket and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	2.60
754	To supply, install or replace approved 25mm x 20mm UPVC heavy duty reducing	EACH	2.90

S/No	Description	Unit	Unit Cost (\$)
	socket and fittings including cutting off existing pipes and make good all work disturbed on completion.		
755	To supply, install or replace approved 32mm x 25mm UPVC heavy duty reducer and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	3.20
756	To supply, install or replace approved 40mm x 32mm UPVC heavy duty reducer and fittings including cutting off existing pipes and make good all work disturbed on completion. 50mm x 25mm UPVC heavy duty reducer and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	5.80
758	To supply, install or replace Approved pipes and make good all work disturbed on completion.	EACH	9.60
759	To supply, install or replace Approved 80mm x 50mm UPVC heavy duty reducer and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	15.20
760	To supply, install or replace Approved 100mm x 50mm UPVC heavy duty reducer and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	29.15
761	To supply, install or replace Approved 100mm x 80mm UPVC heavy duty reducing socket and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	32.00
762	To supply, install or replace Approved 150mm x 100mm UPVC heavy duty reducing socket and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	50.95
763	To supply, install or replace Approved 16mm x 16mm x 16mm UPVC heavy duty Tee and fittings including cutting off	EACH	3.90

S/No	Description	Unit	Unit Cost (\$)
	existing pipes and make good all work disturbed on completion.		
764	To supply, install or replace Approved 20mm x 20mm x 20mm UPVC heavy duty Tee and fittings including cutting off existing pipes and make good all work disturbed on completion. Old Material No: CA5032I	EACH	4.10
765	To supply, install or replace Approved 25mm x 25mm x 25mm UPVC heavy duty Tee and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	4.50
766	To supply, install or replace Approved 32mm x 32mm x 32mm UPVC heavy duty Tee and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	5.50
767	To supply, install or replace Approved 40mm x 40mm x 40mm UPVC heavy duty Tee and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	6.30
768	To supply, install or replace Approved 50mm x 50mm x 50mm UPVC heavy duty Tee and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	8.80
769	To supply, install or replace Approved 25mm x 16mm x 25mm UPVC heavy duty Reducing Tee and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	4.20
770	To supply, install or replace Approved 40mm x 20mm x 40mm UPVC heavy duty Reducing Tee and fittings including cutting off existing pipes and make good all work disturbed on completion. 40mm x 25mm x 40mm UPVC heavy duty Reducing Tee and fittings including cutting off existing pipes and make good all work disturbed on completion	EACH	5.80
772	To supply, install or replace approved 40mm x 32mm x 40mm diameter UPVC	EACH	7.00

S/No	Description	Unit	Unit Cost (\$)
	heavy duty Reducing Tee fittings to including cutting off existing pipes and make good to all work disturbed on completion.(Trench excavation measured seperately)		
773	To supply, install or replace Approved 50mm x 40mm x 50mm UPVC heavy duty Reducing Tee and fittings including cutting off existing pipes and make good all work disturbed on completion. 80mm x 50mm x 80mm UPVC heavy duty Reducing Tee and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	7.00
775	To supply, install or replace Approved 75mm x 75mm x 75mm UPVC heavy duty Tee and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	18.80
776	To supply, install or replace Approved 100mm x 50mm x 100mm UPVC heavy duty Reducing Tee and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	28.70
777	To supply, install or replace Approved 100mm x 100mm x 100mm UPVC heavy duty Tee and fittings including cutting off existing pipes and make good all work disturbed on completion.	EACH	37.00
778	To supply, install or replace Approved 155mm x 155mm x 155mm UPVC heavy duty Tee and fittings including cutting off existing pipes and make good all work disturbed on completion. (75mm-80mm) x (75mm-80mm) x (75mm-80mm) UPVC Tee and fittings for vent, waste and anti-syphonage pipes including cutting off old pipe and make good all work disturbed on completion.	EACH	53.85
780	To supply, install or replace Approved syphonage pipes including cutting off old pipe and make good all work disturbed on completion.	EACH	17.30
781	To supply, install or replace Approved 150mm x 150mm x 150mm UPVC Tee and	EACH	29.80

S/No	Description	Unit	Unit Cost (\$)
	fittings for vent, waste and anti syphonage pipes including cutting off old pipe and make good all work disturbed on completion.		
782	To supply, install or replace Approved 80mm x 50mm x 80mm PVC Reducing Tee and fittings for vent,waste and anti syphonage pipes including cutting off old pipe and make good all work disturbed on completion.	EACH	6.70
783	To supply, install or replace Approved 100mm x 50mm x 100mm UPVC Reducing Tee and fittings for vent, waste and anti-syphonage pipes including cutting off old pipe and make good all work disturbed on completion.	EACH	15.20
784	To supply, install or replace Approved 80mm UPVC connector or socket and fittings for vent, waste and anti syphonage pipes including cutting off old pipe and make good all work disturbed on completion.	EACH	7.95
785	To supply, install or replace Approved 100mm UPVC connector or socket and fittings for vent, waste and anti syphonage pipes including cutting off old pipe and make good all work disturbed on completion.	EACH	9.80
786	To supply, install or replace Approved 150mm UPVC connector or socket and fittings for vent, waste and anti syphonage pipes including cutting off old pipe andmake good all work disturbed on completion.	EACH	22.10
787	To supply, install or replace Approved 80mm UPVC bend and elbow and fittings for vent, waste and anti-syphonage pipes including cutting off old pipe and make good all work disturbed on completion.	EACH	9.80
788	To supply, install or replace Approved 100mm UPVC bend and elbow and fittings for vent, waste and anti-syphonage pipes including cutting off old pipe and make good all work disturbed on completion.	EACH	11.95

S/No	Description	Unit	Unit Cost (\$)
789	To supply, install or replace Approved 150mm UPVC bend and elbow and fittings for vent, waste and anti-syphonage pipes including cutting off old pipe and make good all work disturbed on completion.	EACH	30.00
790	To supply, install or replace Approved 80mm UPVC elbow with cleaning eye complete with plug and fittings for vent, waste and anti-syphonage pipes including cutting off old pipe and make good all work disturbed on completion.	EACH	13.90
791	To supply, install or replace Approved 100mm UPVC elbow with cleaning eye complete with plug and fittings for vent, waste and anti-syphonage pipes including cutting off old pipe and make good all work disturbed on completion. 150mm UPVC elbow with cleaning eye complete with plug and fittings for vent, waste and anti-siphonage pipes including cutting off old pipe and make good all work disturbed on completion.	EACH	14.25
793	To supply, install or replace Approved fittings for vent, waste and anti-siphonage pipes including cutting off existing pipe and make good all work disturbed on completion.	EACH	9.40
794	To supply, install or replace Approved 100mm x 80mm UPVC reducing socket with cleaning eye complete with plug and existing pipe and make good all work disturbed on completion.	EACH	11.75
795	To supply, install or replace Approved 150mm x 80mm UPVC SS 313 reducing socket with cleaning eye.	EACH	25.70
796	To supply, install or replace Approved 16mm x 16mm x 16mm UPVC Tee and fittings for vent, waste and anti-syphonage pipes including cutting off old pipe and make good all work disturbed on completion.	EACH	3.30
797	To supply, install or replace Approved 20mm x 20mm x 20mm UPVC Tee and fittings for vent, waste and anti-syphonage pipes including cutting off old pipe and make	EACH	3.50

S/No	Description	Unit	Unit Cost (\$)
798	good all work disturbed on completion. To supply, install or replace Approved 25mm x 25mm x 25mm UPVC Tee and fittings for vent, waste and anti-syphonage pipes including cutting off old pipe and make good all work disturbed on completion. 32mm x 32mm x 32mm UPVC Tee and fittings for vent, waste and anti-syphonage pipes including cutting off old pipe and make good all work disturbed on completion.	EACH	3.90
800	To supply, install or replace Approved including cutting off old pipe and make good all work disturbed on completion.	EACH	5.35
801	To supply, install or replace Approved 50mm x 50mm x 50mm UPVC Tee and fittings for vent, waste and anti-syphonage pipes including cutting off old pipe and make good all work disturbed on completion.	EACH	7.50
802	To supply, install or replace Approved 25mm x 13mm x 25mm UPVC Reducing Tee and fittings for vent, waste and anti- syphonage pipes including cutting off old pipe and make good all work disturbed on completion.	EACH	3.60
803	To supply, install or replace Approved 40mm x 20mm x 40mm UPVC Reducing Tee and fittings for vent, waste and anti- syphonage pipes including cutting off old pipes and make good all work disturbed on completion.	EACH	4.90
804	To supply, install or replace Approved 40mm x 25mm x 40mm UPVC Reducing Tee and fittings for vent, waste and anti- syphonage pipes including cutting off old pipes and make good all work disturbed on completion.	EACH	4.90
805	To supply, install or replace Approved 50mm x 40mm x 50mm UPVC Reducing Tee and fittings for vent, waste and anti- syphonage pipes including cutting off old pipes and make good all work disturbed on completion.	EACH	6.00
806	To supply, install or replace Approved 16mm UPVC connector or socket and	EACH	1.90

S/No	Description	Unit	Unit Cost (\$)
	fittings for vent, waste and anti syphonage pipes including cutting off old pipe and make good all work disturbed on completion.		
807	To supply, install or replace Approved 20mm UPVC connector or socket and fittings for vent, waste and anti syphonage pipes including cutting off old pipe and make good all work disturbed on completion.	EACH	2.50
808	To supply, install or replace Approved 25mm UPVC connector or socket and fittings for vent, waste and anti syphonage pipes including cutting off old pipe and make good all work disturbed on completion.	EACH	2.60
809	To supply, install or replace Approved 32mm UPVC connector or socket and fittings for vent, waste and anti syphonage pipes including cutting off old pipe and make good all work disturbed on completion.	EACH	2.80
810	To supply, install or replace Approved 40mm UPVC connector or socket and fittings for vent, waste and anti syphonage pipes including cutting off old pipe and make good all work disturbed on completion.	EACH	3.30
811	To supply, install or replace Approved 50mm UPVC connector or socket and fittings for vent, waste and anti syphonage pipes including cutting off old pipe and make good all work disturbed on completion.	EACH	3.50
812	To supply, install or replace Approved 25mm UPVC bend and elbow and fittings for vent, waste and anti-syphonage pipes including cutting off old pipe and make good all work disturbed on completion.	EACH	2.70
813	To supply, install or replace Approved 16mm UPVC bend and elbow and fittings for vent, waste and anti-siphonage pipes including cutting off old pipe and make good all work disturbed on completion.	EACH	2.30



S/No	Description	Unit	Unit Cost (\$)
814	To supply, install or replace Approved 30mm UPVC bend and elbow and fittings for vent, waste and anti-syphonage pipes including cutting off old pipe and make good all work disturbed on completion.	EACH	3.05
815	To supply, install or replace Approved 40mm UPVC bend and elbow and fittings for vent, waste and anti-syphonage pipes including cutting off old pipe and make good all work disturbed on completion.	EACH	4.05
816	To supply, install or replace Approved 50mm UPVC bend and elbow and fittings for vent, waste and anti-syphonage pipes including cutting off old pipe and make good all work disturbed on completion.	EACH	5.00
817	To supply, install or replace Approved 50mm UPVC elbow with cleaning eye complete with plug and fittings for vent, waste and anti-syphonage pipes including cutting off old pipe and make good all work disturbed on completion.	EACH	7.10
818	To supply, install or replace Approved 20mm x 16mm UPVC reducing socket with cleaning eye complete with plug and fittings for vent, waste and anti-syphonage pipes including cutting off existing pipe and make good all work disturbed on completion.	EACH	2.25
819	To supply, install or replace Approved 25mm x 20mm UPVC reducing socket with cleaning eye complete with plug and fittings for vent, waste and anti-syphonage pipes including cutting off existing pipe and make good all work disturbed on completion.	EACH	2.90
820	To supply, install or replace Approved 32mm x 25mm UPVC reducing socket with cleaning eye complete with plug and fittings for vent, waste and anti-syphonage pipes including cutting off existing pipe and make good all work disturbed on completion.	EACH	3.20
821	To supply, install or replace Approved 40mm x 32mm UPVC reducing socket with cleaning eye complete with plug and	EACH	4.45

S/No	Description	Unit	Unit Cost (\$)
	fittings for vent, waste and anti-syphonage pipes including cutting off existing pipe and make good all work disturbed on completion.		
822	To supply, install or replace Approved 50mm x 40mm UPVC reducing socket with cleaning eye complete with plug and fittings for vent, waste and anti-syphonage pipes including cutting off existing pipe and make good all work disturbed on completion.	EACH	5.67
823	To supply, install or replace 100mm diameter UPVC trap with riser and UPVC grating including all connection, excavation, formwork, cutting through concrete floor (if in existing building) packing around trap with concrete (Grade 15A) and making good surrounds.	EACH	106.80
824	To supply, install or replace 100mm diameter UPVC trap with riser and UPVC grating including all connection, excavation, formwork, cutting through concrete floor (if set in suspended floor slab) packing around trap with concrete (Grade 15A) and making good surrounds.	EACH	82.00
825	To supply, install or replace 70mm approved round PVC floor grating.	EACH	8.00
826	To supply, install or replace 32mm approved PVC "S"/"P" trap.	EACH	12.00
827	To supply, install or replace 40mm approved PVC "S"/"P" trap.	EACH	14.20
828	To supply, install or replace 50mm approved PVC "S"/"P" trap.	EACH	16.20
829	To supply, install or replace 100mm diameter or below pvc vent cowl.	EACH	9.10
830	To supply, install or replace 150mm diameter or above pvc vent cowl.	EACH	13.00
831	To supply, install or replace 75mm diameter or below upvc Dome Grating.	EACH	32.30
832	To supply, install or replace 100mm	EACH	35.70

S/No	Description	Unit	Unit Cost (\$)
	diameter upvc Dome Grating.		
833	To supply, install or replace 150mm diameter or above upvc Dome Grating.	EACH	38.25
834	To supply, install or replace 50mm diameter plastic grating.	EACH	3.50
835	To supply, install or replace upvc Anti Mosquito Trap for floor trap.	EACH	1.50
836	To supply, install or replace 13mm diameter chromium plated Capstan head stopcock or bibcock.	EACH	13.55
837	To supply, install or replace cast iron stopcock pit 225mm x 225mm x 225mm including necessary excavation concrete base and brickwork.	EACH	96.25
838	To supply, install or replace galvanised steel stop-cock box 125mm x 125mm x 125mm	EACH	44.20
839	To supply, install or replace approved cast iron valve chamber with cover and frame 225mm x 225mm x 400mm. chamber 225mm x 225mm x 225mm for stopcock including slab cover.	EACH	105.00
841	To supply, install or replace concrete chamber 225mm x 225mm x 225mm for stopcock including with cast iron cover 150mm x 150mm size.	EACH	40.00
842	To supply, install or replace 13mm diameter brass high pressure screwdown stopcocks or bibcocks, ball valve.	EACH	11.15
843	To supply, install or replace 20mm diameter brass high pressure screwdown stopcocks or bibcocks, ball valve.	EACH	16.70
844	To supply, install or replace 25mm diameter brass high pressure screwdown stopcocks or bibcocks, ball valve.	EACH	28.65
845	To supply, install or replace 30mm diameter brass high pressure screwdown stopcocks or bibcocks, ball valve.	EACH	77.45
846	To supply, install or replace 40mm	EACH	93.35

S/No	Description	Unit	Unit Cost (\$)
	diameter brass high pressure screwdown stopcocks or bibcocks, ball valve.		
847	To supply, install or replace 50mm diameter brass high pressure screwdown stopcocks or bibcocks, ball valve.	EACH	136.50
848	To supply, install or replace 62mm diameter brass high pressure screwdown stopcocks or bibcocks, ball valve.	EACH	200.00
849	To supply, install or replace 13mm diameter brass tap with hose nozzle.	EACH	15.90
850	To supply, install or replace 20mm diameter brass tap with hose nozzle.	EACH	18.90
851	To supply, install or replace 13mm diameter chromium plated stopcock or bibcock.	EACH	19.37
852	To supply, install or replace 20mm diameter chromium plated clean stopcock or bibcock.	EACH	23.80
853	To supply, install or replace approved 13mm diameter brass gate valve.	EACH	22.10
854	To supply, install or replace approved 20mm diameter brass gate valve.	EACH	34.00
855	To supply, install or replace approved 25mm diameter brass gate valve.	EACH	42.50
856	To supply, install or replace approved 30mm diameter brass gate valve.	EACH	51.00
857	To supply, install or replace approved 40mm diameter brass gate valve.	EACH	58.10
858	To supply, install or replace approved 50mm diameter brass gate valve.	EACH	85.00
859	To supply, install or replace approved 62mm diameter brass gate valve.	EACH	110.50
860	To supply, install or replace approved 72mm diameter brass gate valve.	EACH	122.40
861	To supply, install or replace approved 100mm diameter brass gate valve.	EACH	250.00

S/No	Description	Unit	Unit Cost (\$)
862	To supply, install or replace approved 13mm diameter brass non-return valve.	EACH	10.80
863	To supply, install or replace approved 20mm diameter brass non-return valve.	EACH	15.90
864	To supply, install or replace approved 25mm diameter brass non-return valve.	EACH	19.50
865	To supply, install or replace approved 30mm diameter brass non-return valve.	EACH	26.80
866	To supply, install or replace approved 40mm diameter brass non-return valve.	EACH	30.70
867	To supply, install or replace approved 50mm diameter brass non-return valve.	EACH	60.50
868	To supply, install or replace approved 62mm diameter brass non-return valve.	EACH	83.10
869	To supply, install or replace approved 72mm diameter brass non-return valve.	EACH	105.40
870	To supply, install or replace 13mm diameter Gate Valve - brass/copper alloy (working pressure at 14 bars (200psi))	EACH	22.10
871	To supply, install or replace 20mm diameter Gate Valve - brass/copper alloy (working pressure at 14 bars (200psi))	EACH	34.00
872	To supply, install or replace 25mm diameter Gate Valve - brass/copper alloy (working pressure at 14 bars (200psi))	EACH	42.50
873	To supply, install or replace 30mm-32mm diameter Gate Valve - brass/copper alloy (working at 14 bars (200psi))	EACH	51.00
874	To supply, install or replace 40mm diameter Gate Valve - brass/copper alloy (working pressure at 14 bars(200psi))	EACH	58.10

S/No	Description	Unit	Unit Cost (\$)
875	To supply, install or replace 50mm diameter Gate Valve - brass/copper alloy (working pressure at 14 bars (200psi))	EACH	85.00
876	To supply, install or replace 65mm diameter Gate Valve - brass/copper alloy (working pressure at 14 bars (200psi))	EACH	110.50
877	To supply, install or replace 75mm-80mm diameter Gate Valve - brass/copper alloy (working pressure at 14 bars (200psi))	EACH	112.40
878	To supply, install or replace 15mm diameter Gate Valve - cast iron.	EACH	11.95
879	Not In Use	-	
880	Not In Use	-	
881	Not In Use	-	
882	Not In Use	-	
883	Not In Use	-	
884	Not In Use	-	
885	Not In Use	-	
886	Not In Use	-	
887	Not In Use	-	
888	Not In Use	-	
889	Not In Use	-	
890	Not In Use	-	
891	To supply, install or replace 13mm-15mm diameter Globe Valve (Working pressure at 14 bars (200psi))	EACH	21.50
892	To supply, install or replace 20mm diameter Globe Valve (working pressure at 14 bars (200psi))	EACH	23.35
893	To supply, install or replace 25mm diameter Globe Valve (working pressure at 14 bars (200psi))	EACH	28.30

S/No	Description	Unit	Unit Cost (\$)
894	To supply, install or replace 32mm diameter Globe Valve (working pressure at 14 bars (200psi)	EACH	37.65
895	To supply, install or replace 40mm diameter Globe Valve (working pressure at 14 bars (200psi)	EACH	46.05
896	To supply, install or replace 50mm diameter Globe Valve (working pressure at 14 bars (200psi)	EACH	58.60
897	To supply, install or replace 65mm diameter Globe Valve (working pressure at 14 bars (200psi)	EACH	198.85
898	To supply, install or replace 75mm diameter Globe Valve (working pressure at 14 bars (200psi)	EACH	261.65
899	To supply, install or replace 100mm diameter Globe Valve (working pressure at 14 bars (200psi)	EACH	334.88
900	To supply, install or replace 150mm diameter Globe Valve (working pressure at 14 bars (200 psi)	EACH	507.55
901	To supply, install or replace 200mm diameter Globe Valve (working pressure at 14 bars (200psi)	EACH	627.90
902	To supply, install or replace 250mm diameter Globe Valve (working pressure at 14 bars (200psi)	EACH	713.15
903	Not In Use	-	
904	Not In Use	-	
905	Not In Use	-	
906	Not In Use	-	
907	Not In Use	-	
908	Not In Use	-	
909	Not In Use	-	
910	Not In Use	-	

S/No	Description	Unit	Unit Cost (\$)
911	Not In Use	-	
912	Not In Use	-	
913	Not In Use	-	
914	Not In Use	-	
915	Not In Use	-	
916	To supply, install or replace 13mm-15mm diameter Check Valve - Brass (working pressure at 14 bars (200psi))	EACH	10.60
917	To supply, install or replace 20mm diameter Check Valve - Brass (working pressure at 14 bars (200psi))	EACH	14.30
918	To supply, install or replace 25mm diameter Check Valve - Brass (working pressure at 14 bars (200psi))	EACH	19.50
919	To supply, install or replace 32mm diameter Check Valve - Brass (working pressure at 14 bars (200psi))	EACH	26.80
920	To supply, install or replace 40mm diameter Check Valve - Brass (working pressure at 14 bars (200psi))	EACH	30.30
921	To supply, install or replace 50mm diameter Check Valve - Brass (working pressure at 14 bars (200psi))	EACH	60.50
922	To supply, install or replace 65mm diameter Check Valve - Brass (working pressure at 14 bars (200psi))	EACH	83.80
923	To supply, install or replace 75mm-80mm diameter Check Valve - Brass (working pressure at 14 bars (200psi))	EACH	107.50
924	To supply, install or replace 100mm diameter Check Valve - Brass (working pressure at 14 bars (200psi))	EACH	224.25
925	To supply, install or replace 150mm diameter Check Valve - Brass (working pressure at 14 bars (200psi))	EACH	310.50
926	To supply, install or replace 13mm diameter approved high pressure brass	EACH	23.50



S/No	Description	Unit	Unit Cost (\$)
	ball valve to BS 1212 complete with copper arm and plastic ball float to BS 2456		
927	To supply, install or replace 19mm diameter approved high pressure brass ball valve to BS 1212 complete with copper arm and plastic ball float to BS 2456	EACH	36.45
928	To supply, install or replace 25mm diameter approved high pressure brass ball valve to BS 1212 complete with copper arm and plastic ball float to BS 2456 diameter approved high pressure brass ball valve to BS 1212 complete with copper arm and plastic ball float to BS 1968	EACH	55.15
930	To supply, install or replace 19mm withcopper arm and plastic ball float to BS 1968	EACH	70.90
931	To supply, install or replace 25mm diameter approved high pressure brass ball valve to BS 1212 complete with copper arm and plastic ball float to BS 1968	EACH	107.60
932	To supply, install or replace 32mm diameter approved high pressure brass ball valve to BS 1212 complete with copper arm and plastic ball float to BS 1968	EACH	194.60
933	To supply, install or replace 38mm diameter approved high pressure brass ball valve to BS 1212 complete with copper arm and plastic ball float to BS 1968	EACH	222.80
934	To supply, install or replace 50mm diameter approved high pressure brass ball valve to BS 1212 complete with copper arm and plastic ball float to BS 1968	EACH	279.30
935	To supply, install or replace 75mm diameter approved high pressure brass ball valve complete with copper arm, copper ball float, stainless steel flange with 75mm diameter copper socket.	EACH	1,140.00
936	To supply, install or replace 100mm diameter approved high pressure brass ball valve complete with brass arm and brass ball float in water tank including taking out existing set.	EACH	1,609.00

S/No	Description	Unit	Unit Cost (\$)
937	To supply, install or replace Ductile iron sluice valve - 60mm diameter.	EACH	141.45
938	To supply, install or replace Ductile iron sluice valve - 80mm diameter.	EACH	189.00
939	To supply, install or replace Ductile iron sluice valve - 100mm diameter.	EACH	229.50
940	To supply, install or replace Ductile iron sluice valve - 125mm diameter.	EACH	278.32
941	To supply, install or replace Ductile iron sluice valve - 150mm diameter.	EACH	342.00
942	To supply, install or replace Ductile iron sluice valve - 200mm diameter.	EACH	585.00
943	To supply, install or replace Ductile iron sluice valve - 300mm diameter.	EACH	877.87
944	To supply, install or replace Ductile iron non-return valve - 60mm diameter.	EACH	182.95
945	To supply, install or replace Ductile iron non-return valve - 80mm diameter.	EACH	270.00
946	To supply, install or replace Ductile iron non-return valve - 100mm diameter.	EACH	333.00
947	To supply, install or replace Ductile iron non-return valve - 125mm diameter.	EACH	412.05
948	To supply, install or replace Ductile iron non-return valve - 150mm diameter.	EACH	481.50
949	To supply, install or replace Ductile iron non-return valve - 200mm diameter.	EACH	641.87
950	To supply, install or replace Ductile iron non-return valve - 300mm diameter.	EACH	963.27
951	To supply, install or replace 15mm diameter full bore ball valve with taper thread end connections.	EACH	6.05
952	To supply, install or replace 20mm diameter full bore ball valve with taper thread end connections.	EACH	9.60
953	To supply, install or replace 25mm diameter full bore ball valve with taper	EACH	13.20

S/No	Description	Unit	Unit Cost (\$)
	thread end connections.		
954	To supply, install or replace 32mm diameter full bore ball valve with taper thread end connections.	EACH	18.10
955	To supply, install or replace 40mm diameter full bore ball valve with taper thread end connections.	EACH	28.85
956	To supply, install or replace 50mm diameter full bore ball valve with taper thread end connections.	EACH	38.50
957	To supply, install or replace 80mm diameter full bore ball valve with taper thread end connections.	EACH	124.78
958	To supply, install or replace 100mm diameter full bore ball valve with taper thread end connections.	EACH	222.82
959	To supply, install or replace Syphon, surface box, cover.	EACH	200.00
960	To supply, install or replace 13mm diameter brass chromium plated tap c/w handle locking device type.	EACH	25.50
961	To supply, install or replace 13mm diameter Mini Ball Valve.	EACH	5.00
962	To supply, install or replace galvanised bib-tap/stop-cock box.	EACH	31.00
963	To supply, install or replace stainless steel bib-tap/stop-cock box.	EACH	55.00
964	To supply, install or replace approved brass Pressure Relief Valve 1600 - 1000 kpa ( 75 - 125 psi ).	EACH	585.90
965	To supply, install or replace approved brass Pressure Relief Valve 2400 - 600 kpa (30 - 75 psi ).	EACH	248.40
966	To supply, install or replace equal brass pressure relief valve 1600 - 1000 kpa (75 - 125 psi).	EACH	701.10
967	To supply, install or replace equal brass pressure relief valve 240 -	EACH	281.10

S/No	Description	Unit	Unit Cost (\$)
	600kpa (30 - 75 psi). Material No: 8700033096		
968	To supply, install or replace 25mm diameter polyvinyl choride ball valve.	EACH	187.75
969	To supply, install or replace 50mm diameter polyvinyl choride ball valve.	EACH	312.00
970	To supply, install or replace Reducing Valve or PUB approved equivalent (Size: 2", Body: Bronze, Inlet Pressure : Max. 20 Bar, Outlet Pressure: 1 to 5.5 Bars Adjustable)	EACH	770.00
971	Repair and service pressure reducing valve ( PRV ) all sizes including renewing washer.	EACH	30.00
972	Labour for servicing non-return valve 75mm to 100mm diameter.	EACH	19.00
973	Labour for repairing leaking sluice valve of any sizes and types valve including renewing gaskets and padings	EACH	75.00
974	To supply, install or replace 32mm Gilbert pressure coupling.	EACH	18.75
975	To supply, install or replace 40mm Gilbert pressure coupling.	EACH	24.00
976	To supply, install or replace 50mm Gilbert pressure coupling. Material No: 8700039057 Old Material No: CD9057I	EACH	124.70
977	To supply, install or replace shower tray coupling.	EACH	168.65
978	Labour adjusting stop-cocks to tilt towards any direction specified including making good any damaged or affected piping work	O JO	11.70
979	To supply, install or replace 15mm diameter Strainer (working pressure at 14 bars (200psi)	EACH	27.21
980	To supply, install or replace 20mm diameter Strainer (working pressure at 14 bars (200psi)	EACH	29.30

S/No	Description	Unit	Unit Cost (\$)
981	To supply, install or replace 25mm diameter Strainer (working pressure at 14 bars (200psi))	EACH	31.40
982	Supply & Install or replace 32mm diameter Strainer (working pressure at 14 bars (200psi))	EACH	40.00
983	To supply, install or replace 40mm diameter Strainer (working pressure at 14 bars (200psi))	EACH	56.50
984	To supply, install or replace 50mm diameter Strainer (working pressure at 14 bars (200psi))	EACH	83.75
985	To supply, install or replace 65mm diameter Strainer (working pressure at 14 bars (200psi))	EACH	157.05
986	To supply, install or replace 75mm diameter Strainer (working pressure at 14 bars (200psi))	EACH	197.34
987	To supply, install or replace 100mm diameter Strainer (working pressure at 14 bars (200psi))	EACH	224.25
988	To supply, install or replace 150mm diameter Strainer (working pressure at 14 bars (200psi))	EACH	277.75
989	To supply, install or replace 200mm diameter Strainer (working pressure at 14 bars (200psi)) Material No: 8700050153 Old Material No: CF0153I	EACH	744.55
990	To supply, install or replace 250mm diameter Strainer (working pressure at 14 bars (200psi))	EACH	780.39
991	Supply & Install or replace 38mm instantaneous coupling (Brass)	EACH	32.00
992	Supply & Install or replace 50mm instantaneous coupling (Brass)	EACH	35.00
993	Supply & Install or replace 65mm instantaneous coupling (Brass)	EACH	38.00

S/No	Description	Unit	Unit Cost (\$)
994	Repair and service Strainer - all sizes including renewing washer.	EACH	10.00
995	To supply all necessary transport, plant, equipment, materials and labour to fabricate and deliver to mainlaying site and install 25mm diameter mild steel lengthening key for sluice valve not exceeding 2 meter long complete with fastening brackets, including painting with bituminous paint.	0 NO	50.00
996	To supply labour, transport, tools and equipments for taking down services pipe exceeding 25mm diameter and disposed off-site making good all works affected.	MR	7.25
997	To supply labour, transport, tools and equipments for breaking through wall or floor slabs exceeding 150mm thick to form chase for entry of water service pipes and make good all work disturbed on completion of pipe installation	JOB	14.85
998	Break up displaced stooling of water mains and provide new 305mm x 305mm brick stooling not exceeding 380mm high including rendering sides and haunching top in cement mortat (1:3)	EACH	8.45
999	Provide and form cement surround at base of W.C. cistern flush-pipe and squat pan JT to cure leak	JOB	3.00
1000	Hack and make good leak in concrete surround of gully traps, cast iron soil pipes, etc in water proofed cement mortar.	JOB	4.85
1001	Hack and make good leak in concrete surround of squat pan in water proofed cement mortar.	JOB	8.05
1002	Hack and make good leak in concrete surround of squat pan including making good tiled or terrazzo floor finish to match.	JOB	16.15
1003	To supply labour, transport, tools and equipments for breaking up reinforced concrete including cutting reinforcement and make good floor after completion of	M3	398.50

S/No	Description	Unit	Unit Cost (\$)
1004	repair work including removing ditto To supply labour, transport, tools and equipments for breaking up concrete Stooling and Foot-Rest of W.C. reconcrete including trowelling smooth to surface with waterproof cement mortar (1:3). (Replacement of W.C. measured separately)	JOB	24.20
1005	To supply labour, transport, tools and equipments for breaking through roof slab or wall with electric drill to form holes not exceeding 40mm diameter for entry of water service pipes and make good all work disturbed on completion of pipe installation to the entire satisfaction of the roofing specialist.	EACH	53.15
1006	To supply labour, transport, tools and equipments for breaking through roof slab or wall with electric drill to form holes exceeding 40mm and not exceeding 150mm for entry of water service pipes and make good all work disturbed on completion of pipes installation to the entire satisfaction of the roofing specialist.	EACH	94.82
1007	To supply labour, tools and transport and coring of hole for 40mm diameter pipes and below.	EACH	98.15
1008	To supply labour, tools and transport and coring of hole for 50-100 mm diameter pipes.	EACH	147.55
1009	To supply labour, tools and transport and coring of hole for 100-150 mm diameter pipes.	EACH	197.05
1010	To supply labour, materials, tools and transport for Repairing Underground Burst Water Main including breaking up road or concrete surfaces, excavating not exceeding 1.5m deep, cutting off pipe and replacing with new to match existing pipe size between 100mm to 300mm diameter including heavy duty 'Stanton' bolted collar with rubber rings or any other necessary fittings, return, backfill and ram, flushing off	JOB	405.00

S/No	Description	Unit	Unit Cost (\$)
1011	and make good (reinstatement of road surfaces, concrete hardstand, turfing, etc shall be paid separately).  To supply labour, materials, tools and transport for Repairing Underground Burst Water Main including breaking up road or concrete surfaces, excavating not exceeding 1m deep, cutting off pipe and replacing with new to match existing pipe size between 50mm to 100mm diameter including heavy duty 'Stanton' bolted collar with rubber rings or any other necessary fittings, return, backfill and ram, flushing off and make good (reinstatement of road surfaces, concrete hardstand, turfing, etc shall be paid separately)	JOB	250.00
1012	To supply labour, materials, tools and transport for Repairing Underground Burst Water Main including breaking up road or concrete surfaces, excavating not exceeding 1m deep, cutting off pipe and replacing with new to match existing pipe size between 9mm to 50mm diameter including heavy duty 'Stanton' bolted collar with rubber rings or any other necessary fittings, return, backfill and ram, flushing off and make good (reinstatement of road surfaces, concrete hardstand, turfing, etc shall be paid separately)	JOB	200.00
1013	To supply, install or replace Cow-grass (Axonopus Compressors) obtained from contractor's own sources laid edge to edge (close turfing) on level or sloping surfaces including 25mm thick topsoil and sludge (1:1), top dressing, weeding out, watering and tending and replacing when necessary until the grass is established.	m <sup>2</sup>	3.60
1014	To conduct trial hole for locating existing water pipes Approx. 2m (length) x 0.6m (wide) x 1.2m (depth)	JOB	212.00
1015	To supply, embed or replace "BAKAU" timber into ground.	EACH	7.65
1016	To provide cable detector with operator	JOB	750.00



S/No	Description	Unit	Unit Cost (\$)
1017	To supply, lay or replace approved quality Granite Dust or unwashed Sand into trenches/ditches and thoroughly compact.	MR	28.00
1018	Rent & deploy overhead crane with operator.	JOB	2,500.00
1019	To supply, install and remove Steel Staging of height from 3m high to not exceeding 5m high.	JOB	200.00
1020	To supply, install and remove Steel Staging of height from 5m to not exceeding 7m high.	JOB	300.00
1021	To supply, install and remove Staging of height from 7m high to not exceeding 10 high.	JOB	450.00
1022	To supply, install or replace " RIGEL " ST-102R Sensor Basin Water Efficient Tap (Mounting vanity top or vanity basin) made of solid brass material and chrome finished complete with aerator and built-in sensor eye, AC Operated including all the necessary accessories and fittings and c/w 6 months product warranty for all parts and labour.	EACH	250.00
1023	To supply, install or replace " RIGEL " ST-102RB Sensor Basin Water Efficient Tap (Mounting vanity top or vanity basin) made of solid brass material and chrome finished complete with aerator and built-in sensor eye, Battery Operated c/w 6V Lithium batteries including all the necessary accessories and fittings and c/w 6 months product warranty for all parts and labour.	EACH	330.00
1024	To supply, install or replace " RIGEL " ST-102S Sensor Basin Water Efficient Tap (Mounting vanity top or vanity basin) made of solid brass material and chrome finished complete with aerator and built-in sensor eye, AC Operated including all the necessary accessories and fittings and c/w 6 months product warranty for all parts and labour.	EACH	380.00

S/No	Description	Unit	Unit Cost (\$)
1025	To supply, install or replace " RIGEL " Sensor Water Efficient Tap (Wall Mounted ) made of solid brass material and chrome finished complete with aerator and built-in sensor eye, AC Operated including all the necessary accessories and fittings and c/w 6 months product warranty for all parts and labour.	EACH	380.00
1026	To supply, install, replace " RIGEL " ST-102RM Sensor Basin Mixer Tap (Mounting to vanity top or vanity basin )made of solid brass material and chrome finished complete with aerator and built-in sensor eye, AC Operated including all the necessary accessories and fittings and c/w 6 months product warranty for all parts and labour.	EACH	360.00
1027	To supply, install or replace Spout with Aerator for Sensor Basin Water Efficient Tap.	EACH	90.00
1028	To supply, install or replace electric controller and transformer complete with moisture proof housing-box with built-in rubber gasket cam lock for "RIGEL" hands-free operation sensor basin Water Efficient tap)	EACH	90.00
1029	To supply, install or replace Gasket for Sensor Basin Water Efficient Tap.	EACH	10.00
1030	To supply, install or replace O-Ring for Sensor Basin Water Efficient Tap	EACH	5.00
1031	To supply, install or replace Supply Tube for Sensor Basin Water Efficient Tap	EACH	20.00
1032	To supply, install or replace Mounting Washer for Sensor Basin Water Efficient Tap.	EACH	10.00
1033	To supply, install or replace Hex Nut for Sensor Basin Water Efficient Tap.	EACH	5.00
1034	To supply, install or replace Compression Connector for Sensor Basin Water Efficient Tap	EACH	5.00
1035	To supply, install or replace Copper Tube for Sensor Basin Water Efficient Tap.	EACH	5.00
1036	To supply, install or replace Compression Stud for Sensor Basin Water Efficient Tap	EACH	10.00

S/No	Description	Unit	Unit Cost (\$)
1037	To supply, install or replace Solenoid Valve for Sensor Basin Water Efficient Tap	EACH	70.00
1038	To supply, install or replace Nipple for Sensor Basin Water Efficient Tap	EACH	15.00
1039	To supply, install or replace Filter for Sensor Basin Water Efficient Tap	EACH	20.00
1040	To supply, install or replace Sensor Cable and Earth Wire for Sensor Basin Water Efficient Tap	EACH	50.00
1041	To supply, install or replace Control Box for Sensor Basin Water Efficient Tap	EACH	20.00
1042	To supply, install or replace Controller Unit for Sensor Basin Water Efficient Tap	EACH	80.00
1043	To supply, install or replace "RIGEL" W3-R-AFS 202CR or approved equal brand Urinal sensor flush valve concealed box-type c/w cam lock with palm-press push button, manual over-riding button in stainless steel satin finished horizontal front panel.	EACH	312.00
1044	Not In Use	EACH	
1045	Not In Use	EACH	
1046	To supply, install or replace "RIGEL" 101-MP or approved equal brand WC manual flush valve concealed box-type c/w lock with palm-press push button in stainless steel satin finished.	EACH	400.00
1047	To supply, Install or Replace "RIGEL" AFS-101CRDF or approved equal brand WC sensor flush valve concealed box type with Dual Flush Manual over-riding button, 4.5 litres c/w cam in stainless steel stain finished. (AC operated)	EACH	438.80
1048	To supply, Install or Replace "RIGEL" AFS-201CL or approved equal brand urinal sensor flush valve concealed box type c/w cam lock in stainless steel stain finished.	EACH	324.00
1049	To supply, Install or Replace "RIGEL" 101ML or approved equal brand WC sensor flush valve concealed box type c/w cam lock in stainless steel stain finished.	EACH	174.00

S/No	Description	Unit	Unit Cost (\$)
1050	To supply, install or Replace approved equal brand WC flush valve exposed type c/w vacuum breaker in chrome finished.	EACH	165.00
1051	To supply, Install or Replace approved equal brand urinal valve exposed type c/w down pipe brass spud in chrome finished.	EACH	113.00
1052	To supply, install or replace Flush Valve Cap for urinal flush valve Exposed type product ID RM-VAL-U001	EACH	10.00
1053	To supply, install or replace Flush Valve Body for urinal flush valve Exposed type product ID RM-VAL-U002	EACH	25.00
1054	To supply, install or replace Cap for urinal flush valve Exposed type product ID RM-VAL-U003	EACH	5.00
1055	To supply, install or replace Outlet Piping Nut for urinal flush valve Exposed type product ID RM-VAL-U004	EACH	5.00
1056	To supply, install or replace Flush Valve Cap Rubber Washer for urinal flush valve Exposed type product ID RM-VAL-U005	EACH	5.00
1057	To supply, install or replace Adaptor Original for urinal flush valve Exposed type product ID RM-VAL-U010	EACH	10.00
1058	To supply, install or replace Adaptor Rubber Washer for urinal flush valve Exposed type product ID RM-VAL-U007	EACH	5.00
1059	To supply, install or replace Outlet Piping Washer for urinal flush valve Exposed type product ID RM-VAL-U008	EACH	5.00
1060	To supply, install or replace Piston for urinal flush valve Exposed type product ID RM-VAL-U009	EACH	20.00
1061	To supply, install or replace Press Button for urinal flush valve Exposed type product ID RM-VAL-U010	EACH	5.00
1062	To supply, install or replace Stopcock Cap for WC flush valve Exposed type	EACH	20.00

S/No	Description	Unit	Unit Cost (\$)
	product ID RM-VAL-W003		
1063	To supply, install or replace Stopcock Cap O-Ring for WC flush valve Exposed type product ID RM-VAL-W004	EACH	5.00
1064	To supply, install or replace Stopcock Seal for WC flush valve Exposed type product ID RM-VAL-W005	EACH	7.00
1065	To supply, install or replace Check Valve for WC flush valve Exposed type product ID RM-VAL-W006	EACH	25.00
1066	To supply, install or replace Check Valve Rubber Washer for WC flush valve Exposed type product ID RM-VAL-W007	EACH	5.00
1067	To supply, install or replace Flush Valve Cap for WC flush valve Exposed type product ID RM-VAL-W008	EACH	20.00
1068	To supply, install or replace Flush Valve Rubber Washer for WC flush valve Exposed type product ID RM-VAL-W013	EACH	5.00
1069	To supply, install or replace Flush Valve Body for WC flush valve Exposed type product ID RM-VAL-W009	EACH	45.00
1070	To supply, install or replace O-Ring for WC flush valve Exposed type product ID RM-VAL-W010	EACH	5.00
1071	To supply, install or replace Adaptor, Original for WC flush valve Exposed type product ID RM-VAL-W020	EACH	15.00
1072	To supply, install or replace Handle for WC flush valve Exposed type product ID RM-VAL-W019	EACH	10.00
1073	To supply, install or replace Handle Cap for WC flush valve Exposed type product ID RM-VAL-W012	EACH	10.00
1074	To supply, install or replace Vacuum Breaker c/w Outlet Pipping Nut for WC flush valve Exposed type product ID RM- VAL-W014 and Rm-val-W015 respectively	EACH	40.00
1075	To supply, install or replace Vacuum	EACH	5.00

S/No	Description	Unit	Unit Cost (\$)
	Breaker Rubber Washer for WC flush valve Exposed type product ID RM-VAL-W016		
1076	To supply, install or replace Outlet Pipping Rubber Washer for WC flush valve Exposed type product ID RM-VAL-W017	EACH	5.00
1077	To supply, install or replace Piston for WC flush valve Exposed type product ID RM-VAL-W018	EACH	25.00
1078	To supply, install or replace Flush Valve Cap for urinal flush valve Concealed Box type	EACH	10.00
1079	To supply, install or replace Flush Valve Body for urinal flush valve Concealed Box type	EACH	25.00
1080	To supply, install or replace Stop Cock Handle for urinal flush valve Concealed Box type	EACH	15.00
1081	To supply, install or replace Cap for urinal flush valve Concealed Box type	EACH	5.00
1082	To supply, install or replace Outlet Piping Nut for urinal flush valve Concealed Box type	EACH	5.00
1083	To supply, install or replace Hex Nut for urinal flush valve Concealed Box tyoe	EACH	5.00
1084	To supply, install or replace Flush Valve Cap Rubber Washer for urinal flush valve Concealed Box type	EACH	5.00
1085	To supply, install or replace Adaptor for urinal flush valve Concealed Box type	EACH	10.00
1086	To supply, install or replace Adaptor Rubber Washer for urinal flush valve Concealed Box type	EACH	5.00
1087	To supply, install or replace Outlet Piping Washer for urinal flush valve Concealed Box type	EACH	5.00
1088	To supply, install or replace Piston for urinal flush valve Concealed Box type	EACH	20.00
1089	To supply, install or replace Front	EACH	30.00

S/No	Description	Unit	Unit Cost (\$)
1090	Plate c/w Pivot Rod for urinal flush valve Concealed Box type To supply, install or replace Sensor Plate c/w Pivot Rod for urinal flush valve Concealed Box type	EACH	30.00
1091	To supply, install or replace Cover Frame c/w Phillips Cap Screw for urinal flush valve Concealed Box type	EACH	40.00
1092	To supply, install or replace Front Cover c/w Casing, Back Cover, Valve Rest and BT Truss Hd Screw for urinal flush valve Concealed Box type	EACH	40.00
1093	To supply, install or replace Cam Lock, C520S-1 for urinal flush valve Concealed Box type	EACH	10.00
1094	To supply, install or replace Button c/w Button Rim, Pan Phillips Screw, Socket Set Screw and Button Bracket for urinal flush valve Concealed Box type	EACH	35.00
1095	To supply, install or replace Switch Hydraulic for urinal flush valve Concealed Box type	EACH	25.00
1096	To supply, install or replace Sensor Eye c/w Stud and Nut for urinal flush valve Concealed Box type	EACH	80.00
1097	To supply, install or replace Solenoid Valve c/w Solenoid Coil, Plug, Rubber Washer, Screw and E-Ring for urinal flush valve Concealed Box type	EACH	65.00
1098	To supply, install or replace Elbow, 90 Degree Street (Small) for urinal flush valve Concealed Box type	EACH	5.00
1099	To supply, install or replace Elbow, Male Stud Tubing Fitting for urinal flush valve Concealed Box type	EACH	5.00
1100	To supply, install or replace Solenoid Bracket c/w Pan Phillips SS Screw and Pan Phillip Screw for urinal flush valve Concealed Box type	EACH	15.00
1101	To supply, install or replace AC Adaptor	EACH	70.00

S/No	Description	Unit	Unit Cost (\$)
	401MO- UR c/w Cable Earth Wire, Terminal Connector, 10A 3 Ways and Pan Phillips SS Screw for urinal flush valve Concealed Box type.		
1102	To supply, install or replace 4mm dia. x 1m PU Tubing (Black) for urinal flush valve Concealed Box type	EACH	2.00
1103	To supply, install or replace Elbow, M4 Male Stud Tubing Fitting for urinal flush valve Concealed Box type	EACH	5.00
1104	To supply, install or replace 4mm dia. x 1m PU Tubing (Yellow) for urinal flush valve Concealed Box type	EACH	2.00
1105	To supply, install or replace StopCock Handle for WC flush valve Concealed Box type	EACH	15.00
1106	To supply, install or replace StopCock O-Ring for WC flush valve Concealed Box type	EACH	5.00
1107	To supply, install or replace StopCock Cap for WC flush valve Concealed Box type	EACH	20.00
1108	To supply, install or replace StopCock Cap O-Ring for WC flush valve Concealed Box type	EACH	5.00
1109	To supply, install or replace StopCock Seal for WC flush valve Concealed Box type	EACH	7.00
1110	To supply, install or replace Check Valve for WC flush valve Concealed Box type	EACH	25.00
1111	To supply, install or replace Check Valve Rubber Washer for WC flush valve Concealed Box type	EACH	5.00
1112	To supply, install or replace Flush Valve Cap Washer for WC flush valve Concealed Box type	EACH	20.00
1113	To supply, install or replace Flush Valve Body Washer for WC flush valve Concealed Box type	EACH	45.00
1114	To supply, install or replace O-Ring for WC flush valve Concealed Box type	EACH	5.00
1115	To supply, install or replace Adaptor for WC flush valve Concealed Box type	EACH	15.00



S/No	Description	Unit	Unit Cost (\$)
1116	To supply, install or replace Handle Cap for WC flush valve Concealed Box type	EACH	10.00
1117	To supply, install or replace Flush Valve Cap Rubber Washer for WC flush valve Concealed Box type	EACH	5.00
1118	To supply, install or replace Vacuum Breaker c/w Outlet Piping Nut for WC flush valve Concealed Box type	EACH	40.00
1119	To supply, install or replace Vacuum Breaker Rubber Washer for WC flush valve Concealed Box type	EACH	5.00
1120	To supply, install or replace Outlet Piping Rubber Washer for WC flush valve Concealed Box type	EACH	5.00
1121	To supply, install or replace Piston for WC flush valve Concealed Box type	EACH	25.00
1122	To supply, install or replace Front Plate c/w Pivot Rod for WC flush valve Concealed Box type	EACH	40.00
1123	To supply, install or replace Sensor Plate c/w Pivot Rod for WC flush valve Concealed Box type	EACH	40.00
1124	To supply, install or replace Cover Frame c/w Pan Phillips Cap Screw for WC flush valve Concealed Box type	EACH	50.00
1125	To supply, install or replace Front Cover c/w Casing, Back Cover and BT Truss HD Screw for WC flush valve Concealed Box type	EACH	50.00
1126	To supply, install or replace Valve Clip c/w CSK Phillips Screw and Nut for WC flush valve Concealed Box type	EACH	2.00
1127	To supply, install or replace Cam Lock, C510S-1 for WC flush valve Concealed Box type	EACH	10.00
1128	To supply, install or replace Brass Cam Lock, C520S-1 for WC flush valve Concealed Box type	EACH	10.00
1129	To supply, install or replace Valve Clip	EACH	2.00

S/No	Description	Unit	Unit Cost (\$)
	c/w CSK Phillips Screw and Nut for WC flush valve Concealed Box type		
1130	To supply, install or replace Button c/w Button Rim, Pan Phillips Screw, Socket Set Screw and Button Bracket for WC flush valve Concealed Box type	EACH	50.00
1131	To supply, install or replace Button c/w Button Casing, Button Hex Nut, Socket Set Screw and Button Bracket for WC flush valve Concealed Box type	EACH	35.00
1132	To supply, install or replace Button Bracket c/w Microswitch, SS5GL111, Pan Phillips SS Screw and Nut for WC flush valve Concealed Box type	EACH	15.00
1133	To supply, install or replace Switch Hydraulic for WC flush valve Concealed Box type	EACH	25.00
1134	To supply, install or replace Cable Switch for WC flush valve Concealed Box type	EACH	5.00
1135	To supply, install or replace Sensor Eye c/w Stud and Nut for WC flush valve Concealed Box type	EACH	80.00
1136	To supply, install or replace 6mm dia. x 1m PU Tubing (Black) for WC flush valve Concealed Box type	EACH	2.00
1137	To supply, install or replace Elbow, M6 Male Stud Tubing Fitting for WC flush valve Concealed Box type	EACH	5.00
1138	To supply, install or replace Elbow, M6 Male Stud Branch Tee for WC flush valve Concealed Box type	EACH	5.00
1139	To supply, install or replace 6mm dia. x 1m PU Tubing (Yellow) for WC flush valve Concealed Box type	EACH	2.00
1140	To supply, install or replace Solenoid Valve c/w Solenoid Coil, Plug, Rubber Washer, Screw and E-Ring for WC flush valve Concealed Box type	EACH	65.00
1141	To supply, install or replace Elbow, 90 Degree Street (Big) for WC flush valve Concealed Box type	EACH	5.00

S/No	Description	Unit	Unit Cost (\$)
1142	To supply, install or replace AC Adaptor, 401MO-WC c/w Cable Earth Wire, Terminal Connector, 10A 3 Ways and Pan Phillips SS Screw for WC flush valve.	EACH	70.00
1143	Repair and service Urinal, WC Sensor, Sensor taps or Manual Flush valve systems including renewing washer and tubing.	EACH	7.50
1144	Repair and service Urinal Manual Flush valve system ( Exposed type ) including renewing washer (Replacement of Parts shall be paid separately)	EACH	2.50
1145	To supply, install or replace urinal vitreous china domical waste.	EACH	30.00
1146	Not In Use	EACH	
1147	Not In Use	EACH	
1148	To supply, install or replace white glazed vitreous china urinal (1200mm) complete with semi-circular urinals floor channels, chromium plated brass hinged domical grating, chromium plated sparge and flush pipes, etc (flushing cistern and step measured separately).	EACH	830.00
1149	To supply, install or replace wall hung urinal bowl size 605mm x 330mm x 310mm complete with integral trap, strainer tank complete with inlet, outlet, drain, airvent, manhole, cover, internal and external ladder, etc including all necessary connections and adjustment to piping.	EACH	448.00
1150	To supply, install or replace wall hung urinal bowl size 460mm x 360mm x 820mm complete with integral trap, strainer tank complete with inlet, outlet, drain, airvent, manhole, cover, internal and external ladder, etc including all necessary connections and adjustment to piping.	EACH	656.00
1151	To supply, install or replace wall hung urinal in standard colour with	EACH	400.00

S/No	Description	Unit	Unit Cost (\$)
	necessary pipings and fittings for installation.		
1152	To supply, install or replace wall hung urinal in standard colour with necessary pipings and fittings for installation.	EACH	650.00
1153	To supply, install or replace white glazed fireclay urinal back slab 600mm wide x 1065mm high (flushing cistern and step measured separately).	EACH	358.00
1154	To supply, install or replace white glazed fireclay urinal end slab 305mm wide x 1065mm high (flushing cistern and step measured separately).	EACH	200.00
1155	To supply, install or replace 150mm semi-circular white glazed fireclay urinal floor channels (per piece of 600mm).	EACH	104.00
1156	To supply, install or replace 150mm semi-circular white glazed fireclay urinal floor channel outlet piece including chromium plated grating (per piece of 600mm)	EACH	139.00
1157	To supply, install or replace 150mm semi-circular white glazed fireclay urinal floor channel stop end piece (per piece of 600mm)	EACH	121.00
1158	Take out existing sparge pipe for urinal and replace with new 20 mm diameter chromium plated copper sparge pipes with brackets to match and connection	MR	50.10
1159	Take out existing sparge pipe for urinal and replace with new 20 mm diameter copper sparge pipes with brackets to match and connection.	MR	35.00
1160	Take out existing sparge pipe for urinal and replace with 20 mm diameter galvanised steel sparge pipes with brackets to match and connection.	MR	12.40
1161	Take out existing sparge pipe for urinal and replace with 20 mm diameter stainless steel sparge pipes with brackets to match and connection	MR	35.00

S/No	Description	Unit	Unit Cost (\$)
1162	Take out existing urinal flush pipe and replace with new 30 mm chromium plated copper flush pipes including providing necessary tee connections.	EACH	37.30
1163	Take out existing urinal flush pipe and replace with new stainless steel flush pipes.	EACH	34.20
1164	To supply, install or replace approved cast iron trap for urinal.	EACH	47.80
1165	To supply, install or replace brass waste and domical grating for urinal.	EACH	22.50
1166	To supply, install or replace chromium plated waste and domical grating for urinal.	EACH	18.00
1167	To supply, install or replace white vitreous china urinal bowl in replacement.	EACH	160.00
1168	To supply, install or replace 600mm x 450mm x 200mm white glazed fireclay plain edge kitchen sink complete with weir overflow, painted brackets 38mm diameter plug and chain, waste fitting.	EACH	273.15
1169	To supply, install or replace 610mm x 455mm x 255mm white glazed fireclay plain edge kitchen sink complete with weir overflow, painted brackets 38mm diameter plug and chain, waste fitting.	EACH	317.00
1170	To supply, install or replace 750mm x 450mm x 250mm white glazed fireclay plain edge kitchen sink complete with weir overflow, painted brackets 38mm diameter plug and chain, waste fitting.	EACH	444.00
1171	To supply, install or replace 305mm x 305mm x 178mm white glazed fireclay plain edge laboratory sink complete with weir overflow, painted brackets, 38 mm diameter plug and chain, waste fitting.	EACH	156.75
1172	To supply, install or replace 355mm x 355mm x 230mm white glazed fireclay plain edge laboratory sink complete with weir overflow, painted	EACH	189.75

S/No	Description	Unit	Unit Cost (\$)
1173	brackets, 38 mm diameter plug and chain, waste fitting.  To supply, install or replace 560mm x 355m x 230mm white glazed fireclay plain edge laboratory sink complete with weir overflow, painted brackets, 38mm diameter plug and chain, waste fitting.	EACH	230.50
1174	To supply, install or replace 18/8 stainless steel sink single bowl, single drainer sink overall size 750mm x 450mm x 170mm deep c/w 40mm chromium plated waste fittings with chain including a set of painted bracket.	EACH	103.45
1175	To supply, install or replace 18/8 stainless steel sink single bowl, single drainer sink overall size 900mm x 450mm x 170mm deep c/w 40mm chromium plated waste fittings with chain including a set of painted bracket.	EACH	114.37
1176	To supply, install or replace 18/8 stainless steel sink single bowl, single drainer sink overall size 1,050mm x 450mm x 170mm deep c/w 40mm chromium plated waste fittings with chain including a set of painted bracket.	EACH	123.45
1177	To supply, install or replace 18/8 stainless steel sink single bowl, single drainer sink overall size 1,050mm x 525mm x 170mm deep c/w 40mm chromium plated waste fittings with chain including a set of painted bracket.	EACH	127.05
1178	To supply, install or replace 18/8 stainless steel sink single bowl, single drainer sink overall size 1,000mm x 500mm x 170mm deep c/w 40mm chromium plated waste fittings with chain including a set of painted bracket.	EACH	121.50
1179	To supply, install or replace 18/8 stainless steel sink bowl, single drainer sink overall size 1,500mm x 500mm x 170mm deep c/w 40mm chromium plated waste fittings with chain including a set of painted bracket.	EACH	172.40

S/No	Description	Unit	Unit Cost (\$)
1180	To supply, install or replace 18/8 stainless steel sink Double bowl, single drainer sink overall size 1,500mm x 500mm x 170mm deep c/w 40mm chromium plated waste fittings with chain including a set of painted bracket.	EACH	283.10
1181	To supply, install or replace 18/8 stainless steel sink Double bowl, single drainer sink overall size 1,800mm x 500mm x 170mm deep c/w 40mm chromium plated waste fittings with chain including a set of painted bracket.	EACH	301.25
1182	To supply, install or replace Single bowl, single drainer stainless steel sink 18/8 overall size 750mm x 450mm x 170mm deep c/w 40mm chromium plated waste fitting and plug (Insert Type)	EACH	97.50
1183	To supply, install or replace Single bowl, single drainer stainless steel sink 18/8 overall size 900mm x 450mm x 170mm deep c/w 40mm chromium plated waste fitting and plug (Insert Type)	EACH	97.50
1184	To supply, install or replace Single bowl, single drainer stainless steel sink 18/8 overall size 1500mm x 450mm x 170mm deep c/w 40mm chromium plated waste fitting and plug (Insert Type)	EACH	247.50
1185	To supply, install or replace Single bowl, single drainer stainless steel sink 18/8 overall size 1500mm x 500mm x 170mm deep c/w 40mm chromium plated waste fitting and plug (Insert Type)	EACH	247.50
1186	To supply, install or replace Double bowl, single drainer stainless steel sink 18/8 overall size 1500mm x 500mm x 170mm deep c/w 40mm chromium plated waste fitting and plug (Insert Type).	EACH	277.50
1187	To supply, install or replace Double bowl, single drainer stainless steel sink overall size 1800mm x 500mm x 170mm deep c/w 40mm chromium plated	EACH	337.50

S/No	Description	Unit	Unit Cost (\$)
1188	waste fitting and plug (Insert Type) To supply, install or replace Single bowl, single drainer stainless steel sink 22SWG overall size 1,070mm x 450mm x 150mm deep c/w 40mm chromium plated waste fitting and chain with plug including a set of painted bracket.	EACH	213.00
1189	To supply, install or replace Single bowl, single drainer stainless steel sink 22SWG overall size 1,070mm x 530mm x 150mm deep c/w 40mm chromium plated waste fitting and chain with plug including a set of painted bracket.	EACH	232.50
1190	To supply, install or replace Single bowl, single drainer stainless steel sink 22SWG overall size 1,200mm x 450mm x 150mm deep c/w 40mm chromium plated waste fitting and chain with plug including a set of painted bracket.	EACH	229.50
1191	To supply, install or replace Single bowl, single drainer stainless steel sink 22SWG overall size 1,200mm x 530mm x 150mm deep c/w 40mm chromium plated waste fitting and chain with plug including a set of painted bracket.	EACH	247.50
1192	To supply, install or replace Single bowl, single drainer stainless steel sink 22SWG overall size 1,300mm x 530mm x 150mm deep c/w 40mm chromium plated waste fitting and chain with plug including a set of painted bracket.	EACH	267.00
1193	To supply, install or replace Single bowl, single drainer stainless steel sink 22SWG overall size 1,350mm x 450mm x 150mm deep c/w 40mm chromium plated waste fitting and chain with plug including a set of painted bracket.	EACH	243.00
1194	To supply, install or replace Single bowl, single drainer stainless steel sink 22SWG overall size 1,500mm x 450mm x 150mm deep c/w 40mm chromium plated waste fitting and chain with plug including a set of painted bracket.	EACH	259.50
1195	To supply, install or replace	EACH	283.10



S/No	Description	Unit	Unit Cost (\$)
	Single bowl, single drainer stainless steel sink 22SWG overall size 1,500mm x 530mm x 150mm deep c/w 40mm chromium plated waste fitting and chain with plug including a set of painted bracket.		
1196	To supply, install or replace Double bowl, double drainer stainless steel sink 22SWG overall size 1,500mm x 450mm x 150mm deep c/w 40mm chromium plated waste fitting and chain with plug including a set of painted bracket.	EACH	432.00
1197	To supply, install or replace Double bowl, double drainer stainless steel sink 22SWG overall size 1,524mm x 530mm x 150mm deep c/w 40mm chromium plated waste fitting and chain with plug including a set of painted bracket.	EACH	364.50
1198	To supply, install or replace Double bowl, double drainer stainless steel sink 22SWG overall size 1,800mm x 450mm x 150mm deep c/w 40mm chromium plated waste fitting and chain with plug including a set of painted bracket.	EACH	363.00
1199	To supply, install or replace Double bowl, double drainer stainless steel sink 22SWG overall size 1,829mm x 530mm x 150mm deep c/w 40mm chromium plated waste fitting and chain with plug including a set of painted bracket.	EACH	400.05
1200	To supply, install or replace glazed vitreous china wall hung basins 580mm x 406mm (white colour) - complete with chromium plated chain and plug.	EACH	110.00
1201	To supply, install or replace glazed vitreous china wall hung basins 580mm x 406mm (standard colour type) - complete with chromium plated chain and plug.	EACH	138.60
1202	To supply, install or replace glazed vitreous china wall hung basins 572mm x 432mm (white colour type) - complete with chromium plated chain and plug.	EACH	149.10
1203	To supply, install or replace glazed vitreous china wall hung basins 572mm x 432mm (standard colour type) - complete	EACH	178.45

S/No	Description	Unit	Unit Cost (\$)
	with chromium plated chain and plug.		
1204	To supply, install or replace glazed vitreous china wall hung basins 560mm x 405mm (white colour type) - complete with chromium plated chain and plug.	EACH	107.25
1205	To supply, install or replace glazed vitreous china wall hung basins 455mm x 280mm (white colour type) - complete with chromium plated chain and plug.	EACH	79.20
1206	To supply, install or replace glazed vitreous china wall hung basins 455mm x 280mm (standard colour type) - complete with chromium plated chain and plug.	EACH	88.95
1207	To supply, install or replace 18/8 stainless steel basin overall size 550mm x 450mm with weir overflow complete with painted steel brackets, 30mm diameter waste, chromium plated brass waste and chain.	EACH	213.85
1208	To supply, install or replace glazed vitreous china pedestal basin 510mm x 405mm (white colour) with weir overflow complete with wall support, 30mm diameter chromium plated brass waste and chain with plug.	EACH	130.65
1209	To supply, install or replace glazed vitreous china pedestal basin 510mm x 405mm (standard colour) with weir overflow complete with wall support, 30mm diameter chromium plated brass waste and chain with plug.	EACH	152.50
1210	To supply, install or replace glazed vitreous china pedestal basin 585mm x 430mm (white colour) with weir overflow complete with wall support, 30mm diameter chromium plated brass waste and chain with plug.	EACH	192.40
1211	To supply, install or replace glazed vitreous china pedestal basin 585mm x 430mm (standard colour) with weir over- flow complete with wall support, 30mm diameter chromium plated brass waste and chain with plug.	EACH	226.90
1212	To supply, install or replace	EACH	180.00

S/No	Description	Unit	Unit Cost (\$)
	540mm x 490mm Vanity basin (Colour to users' requirement).		
1213	To supply, install or replace 594mm x 480mm Vanity basin (Colour to users' requirement).	EACH	250.00
1214	To supply, install or replace cultured marble vanity slab top or users' requirement of 560mm or 600mm width including removal of existing vanity slab top (vanity basin excluded).	MR	650.00
1215	Extra over for build-in cultured marble vanity basin	EACH	230.00
1216	To supply, install or replace Approved polythene bench trough 140mm x 140mm deep with necessary fittings as above described and fixing with angle brackets, screws, etc to wall and including connections.	MR	165.00
1217	Opening of hole for laboratory sink size 600 x 450mm using special tools for chemical laboratory bench.	EACH	28.05
1218	Opening of hole for laboratory sink size 610 x 455mm using special tools for chemical laboratory bench.	EACH	32.30
1219	Opening of hole for laboratory sink size 750 x 450mm using special tools for chemical laboratory bench.	EACH	45.25
1220	Opening of hole for laboratory sink size 305 x 305mm using special tools for chemical laboratory bench.	EACH	16.05
1221	Opening of hole for laboratory sink size 355 x 355mm using special tools for chemical laboratory bench.	EACH	22.68
1222	Opening of hole for laboratory sink size 560 x 355mm using special tools for chemical laboratory bench.	EACH	27.66
1223	To supply, install or replace insert type PP cup sink size 250x100x70mmD.	EACH	110.00
1224	Opening of hole for PP cup sink size 250 x 100mm using special tools for	EACH	13.20

S/No	Description	Unit	Unit Cost (\$)
	chemical laboratory bench.		
1225	To supply, install or replace PP laboratory sink size 610 x 450 x 220mmD c/w bracket.	EACH	300.50
1226	To supply, install or replace activated carbon filter 125 PSI.	EACH	57.80
1227	To supply, install or replace activated carbon filter cartridge 125 PSI.	EACH	19.55
1228	To supply, install or replace hand shower, PVC/plastic.	EACH	9.50
1229	To supply, install or replace shower curtain, plastic, height 3.2m including necessary fittings and railing.	MR	38.25
1230	Supply, install or replace pvc/ stainless steel flexible tube 4 ft (1.3m) complete with 2 nos. washers and connectors.	EACH	11.40
1231	To supply, install or replace 13mm Two Way Laboratory fitting (oxidised) with swanneck, anti-splash nozzle and desk flange.	EACH	198.30
1232	To supply, install or replace Hot and cold laboratory tap mixer diameter 13mm including necessary tap fittings.	EACH	169.49
1233	To supply, install or replace 32mm Brass Waste Fitting to sink or basin including brass cobweb grating chain and plug.	EACH	3.00
1234	To supply, install or replace 32mm approved chromium plated bottle trap.	EACH	14.00
1235	To supply, install or replace 40mm approved chromium plated bottle trap.	EACH	15.50
1236	To supply, install or replace 32mm PVC bottle trap.	EACH	7.20
1237	To supply, install or replace 40mm PVC bottle trap.	EACH	7.20
1238	To supply, install or replace Vulcanite plug complete with brass chain for sink or lavatory basin.	EACH	3.50

S/No	Description	Unit	Unit Cost (\$)
1239	To supply, install or replace 38mm chromium plated Waste Fitting including all connections.	EACH	3.60
1240	To supply, install or replace 32mm approved Plastic Waste Fitting including all connections.	EACH	3.80
1241	To, supply, install or replace 38mm approved Plastic Waste Fitting including all connections.	EACH	4.20
1242	Take out repair and refix existing basin in existing position including any necessary cutting and pinning ends of brackets, making good work disturbed and making all connections and adjustment to piping.	EACH	25.50
1243	To supply, install or replace cast iron brackets for basins.	PAIR	10.00
1244	To supply, install or replace 25mm x 25mm iron square mild steel stand irrespective of lengths, wide and height complete with formica table top of 50mm thickness with opening for stainless steel sink or fireclay sink.	EACH	750.00
1245	To supply, install or replace chemical resistant stainless steel stand sink with cabinet (Grade 316) of 1.4B finished, single bowl and single drainer complete with adjustable bullet feet, rubber plug and stainless steel chain. Standard Dimension (overall): approx length 4ft x width 2ft x height 3ft.	EACH	2,000.00
1246	To supply, install or replace chemical resistant stainless steel stand sink (Grade 316) of 1.4B finished with wooden cabinet, single bowl & single drainer complete with adjustable bullet feet, rubber plug & stainless steel chain. Standard Dimension (overall): approx length 4ft x width 2ft x height 3ft	EACH	1,800.00
1247	To supply, install or replace chemical resistant stainless steel stand sink without cabinet (Grade 316) of 1.4B finished, single bowl & single drainer complete with adjustable bullet feet, rubber plug & stainless steel chain.	EACH	1,500.00

S/No	Description	Unit	Unit Cost (\$)
	Standard Dimension (overall): approx length 4ft x width 2ft x height 3ft		
1248	To supply, install or replace wall hung WC - White color, c/w 'L' chair bracket, pan collar and seat cover with S/S hinged.	EACH	255.00
1249	To supply, install or replace wall WC - Standard color - c/w 'L' chair bracket, pan collar and seat cover with S/S hinged.	EACH	255.00
1250	Supply only 3.5 litre to 4.5 litre WC - white color, c/w pan collar and seat cover with S/S hinged.	EACH	263.50
1251	To supply, install or replace 3.5 litre to 4.5 litre WC - standard color, c/w pan collar and seat cover with S/S hinged.	EACH	289.00
1252	To supply, install or replace pressure reducing valve - 1/2"	EACH	123.25
1253	To supply, install or replace pressure reducing valve - 3/4"	EACH	149.75
1254	To supply, install or replace pressure reducing valve - 1"	EACH	212.50
1255	To supply, install or replace pressure reducing valve - 1 1/4"	EACH	272.00
1256	To supply, install or replace pressure reducing valve - 1 1/2"	EACH	391.00
1257	To supply, install or replace water hammer arrestor - 1/2" suitable for installation at any angle. (Fixture unit capacity 1 to 11).	EACH	123.25
1258	To supply, install or replace water hammer arrestor - 3/4" suitable for installation at any angle. (Fixture unit capacity 12 to 32).	EACH	131.75
1259	To supply, install or replace water hammer arrestor - 1" suitable for installation at any angle. (Fixture unit capacity 33 to 60).	EACH	306.00
1260	To supply, install or replace APEX or	LOT	123.25

S/No	Description	Unit	Unit Cost (\$)
	equivalent, bathroom accessories: square mirror, tissue holder, toothbrush holder, towel bar, soap holder, towel holder and shelf.		
1261	To supply, install or replace vacuum relief valve.	EACH	38.25
1262	To supply, install or replace water pressure gauge.	EACH	38.25
1263	To supply, install or replace water pressure gauge with fluid.	EACH	68.00
1264	To supply, install or replace dispenser or tap chromium plated capping.	EACH	10.00
1265	To supply, install or replace 3.5 litre to 4.5 litre float valve for WC cistern.	EACH	30.60
1266	To supply, install or replace 3.5 litre to 4.5 litre syphon for WC cistern c/w push button.	EACH	39.10
1267	To supply, install or replace push button complete set.	EACH	21.25
1268	Provide labour and tools for servicing and cleaning of ball float and syphon valve in WC cistern including adjust ball valve.	EACH	10.00
1269	To supply, install or replace white glazed vitreous clay cover to W.C. cistern	EACH	12.77
1270	To supply, install or replace plastic cover to W.C. cistern.	EACH	9.32
1271	To supply, install or replace "RIGEL" SD101D deck mounted manual soap dispenser rotating spout	EACH	102.00
1272	To supply, install or replace "RIGEL" SD582350 wall mounted manual soap dispenser rotating spout Dimension: 30(W) x 132(H) x 157.7 (L) mm	EACH	130.00
1273	To supply, install or replace 38mm chrome plated bath waste fitting, plug and chain complete with overflow tube and "P" or "S" trap including taking	EACH	82.35

S/No	Description	Unit	Unit Cost (\$)
	out existing, carting away, making connection, making good work disturbed		
1274	To supply, install or replace 38mm plastic bath waste fitting, plug and chain complete with overflow tube and "P" or "S" trap including taking out existing, carting away, making connection, making good work disturbed.	EACH	60.70
1275	To supply, install or replace white glazed vitreous china squatting water closet complete with "S" or "P" trap, brass cleaning eye and tread plates (flushing cistern and flush pipe measured separately)	EACH	158.80
1276	To supply, install or replace white vitreous china foot tread plates for squatting water closet including lining Joints between tread and floor finish with white cement.	EACH	18.85
1277	To supply, install or replace white glazed vitreous syphonic type water closet with double tap complete with 9 litres cistern and fittings.	EACH	506.00
1278	Not In Use	-	
1279	Not In Use	-	
1280	Not In Use	-	
1281	Not In Use	-	
1282	Not In Use	-	
1283	Not In Use	-	
1284	Not In Use	-	
1285	To supply, install or replace brass cleaning eye to water closet pan.	EACH	4.00
1286	To supply, install or replace UPVC cleaning eye to water closet pan.	EACH	4.30
1287	Not In Use	EACH	
1288	To supply, install or replace	EACH	65.10



S/No	Description	Unit	Unit Cost (\$)
	(black, white, or standard colour) heavy duty seat and cover c/w stainless steel hinged to adult's pedestal water closet inclusive of brackets, bolts and nuts		
1289	To supply, install or replace black, white or standard colour plastic seat and cover to adult's pedestal water closet.	EACH	10.90
1290	To supply, install or replace black, white or standard colour plastic seat and cover to adult's pedestal water closet.	EACH	65.10
1291	To supply, install or replace white colour plastic seat and cover to adult's pedestal water closet.	EACH	20.30
1292	To supply, install or replace standard colour plastic seat and cover to adult's pedestal water closet.	EACH	29.80
1293	Not In Use	-	
1294	Not In Use	-	
1295	Not In Use	-	
1296	Not In Use	-	
1297	Not In Use	-	
1298	Not In Use	-	
1299	Labour and materials for servicing flushing cistern (any type).	JOB	10.00
1300	Not In Use	-	
1301	Not In Use	-	
1302	Not In Use	-	
1303	Not In Use	-	
1304	Not In Use	-	
1305	To supply, install or replace water spray-gun c/w PVC hose.	EACH	35.50
1306	To supply, install or replace 13mm diameter x 300mm stainless steel	EACH	5.80

S/No	Description	Unit	Unit Cost (\$)
	flexible tube complete with 2 Nos. washers and connectors.		
1307	To supply, install or replace 13mm diameter x 300mm chromium plated copper flexible tube complete with 2 nos. washers and connectors.	EACH	4.00
1308	To supply, install or replace Plastic Jumbo Roll Dispenser.	EACH	45.00
1309	Not In Use	-	
1310	Not In Use	-	
1311	Not In Use	-	
1312	Not In Use	-	
1313	Not In Use	-	
1314	Not In Use	-	
1315	Not In Use	-	
1316	Not In Use	-	
1317	Not In Use	-	
1318	To supply, install or replace equivalent Wall Mounted Soap Dispenser.	EACH	27.00
1319	To supply, install or replace all purpose Basin/Vanity mounted Soap Dispenser of type 304 SS/chrome plated c/w unbreakable polyethylene container.	EACH	62.00
1320	To supply, install or replace stainless steel Paper Towel Dispenser Size: 280mm W x 369mm H x 102mm D (Approx).	EACH	89.60
1321	To supply, install or replace 150mm x 150mm white glazed recessed type soap tray embedded in cement mortar including hacking off existing and make good tile surround to match existing.	EACH	23.30
1322	To supply, install or replace 108mm x 108mm white glazed recessed type soap tray embedded in cement mortar including hacking off existing and make good tile surround to match existing.	EACH	20.80

S/No	Description	Unit	Unit Cost (\$)
1323	To supply, install or replace Refillable Soap Dispenser (White Cover) capacity: 1000ml including taking out existing set and remove off site.	EACH	27.00
1324	To supply, install or replace Refillable Soap Dispenser Cartridge c/w tube including taking out existing.	EACH	8.70
1325	To supply, install or replace approved shower head with ball swivel arm and flange.	EACH	40.15
1326	To supply, install or replace approved 100mm diameter galvanised iron shower rose including connection.	EACH	12.50
1327	To supply, install or replace approved 100mm diameter swivel chromium plated brass shower rose including connection.	EACH	3.70
1328	To supply, install or replace 50mm diameter chromium plated brass adjustable shower rose including connection.	EACH	41.40
1329	To supply, install or replace approved chromium plated spray shower mixer with sliding rail, brackets and telephone shower attachment.	EACH	104.00
1330	To supply, install or replace approved plastic spray shower with sliding rail, brackets and telephone shower attachment.	EACH	36.00
1331	To supply, install or replace approved long bath combined tap and shower mixing valves with flexible metal tubing, telephone type shower, supporting arm and sliding rail fixed to wall or bracketed on wall.	EACH	108.00
1332	To supply, install or replace plastic telephone type shower including brackets and flexible metal tubing not exceeding 1.2m.	EACH	18.00
1333	To supply, install or replace Long Bath Pop up waste and overflow pipe.	EACH	60.00
1334	To supply, install or replace approved 6 US gallon (23 litres) storage water heater complete with heavy duty brackets mounted by rawl bolts, check valve,	EACH	465.00

S/No	Description	Unit	Unit Cost (\$)
1335	pressure relief valve wiring to the nearest power point and commissioning. Installation shall strictly comply to PUB's requirement.(Pipes and fittings connecting to the plumbing system measured separately).  To supply, install or replace approved 10 US gallon (37 litres) storage water heater complete with heavy duty brackets mounted by rawl bolts, check valve, pressure relief valve wiring to the nearest power point and commissioning. Installation shall strictly comply to PUB's requirement.(Pipes and fittings connecting to the plumbing system measured separately).	EACH	510.00
1336	To supply, install or replace approved 15 US gallon (56 litres) storage water heater complete with heavy duty bracket mounted by rawl bolts, check valve, pressure relief valve wiring to the nearest power point and commissioning. Installation shall strictly comply to PUB's requirement. (Pipes and fittings connecting to the plumbing system measured separately).	EACH	580.00
1337	To supply, install or replace approved 20 US gallon (75 litres) storage water heater complete with heavy duty bracket mounted by rawl bolts, check valve, pressure relief valve wiring to the nearest power point and commissioning. Installation shall strictly comply to PUB's requirement. (Pipes and fittings connecting to the plumbing system measured separately).	EACH	690.00
1338	To supply, install or replace approved 30 US gallon (113 litres) or above storage water heater complete with heavy duty bracket mounted by rawl bolts, check valve, pressure relief valve wiring to the nearest power point and commissioning. Installation shall strictly comply to PUB's requirement. (Pipes and fittings connecting to the plumbing system measured separately).	EACH	725.00
1339	To supply, install or replace approved	EACH	323.00

S/No	Description	Unit	Unit Cost (\$)
	4 gallons (15 litres) or below storage water heater and stop-cock with heavy duty brackets mounted by rawl bolts, check valve, pressure relief valve wiring to the nearest power point and commissioning. Installation shall strictly comply to PUB's requirement. (Pipes and fittings connecting to the plumbing system measured separately).		
1340	To supply, install or replace up to 5 kw instant water heater of approved type complete with brackets, wiring to the nearest power source and commissioning. (Fittings and pipes measured separately).	EACH	240.00
1341	To supply, install or replace and Boiling Water Dispenser of 10 Litre capacity Wall mounted/wall hung with direct piping water source type of stainless steel body c/w temperature indicator with heating capacity range from 85 degrees to 100 degrees Centigrade boiling temperature. Power Input range from 2200w - 2500w and Ampere range from 10 - 11.5 Operated on 220V 240V Single Phase electricity supply complete with 3 Pin Plug wiring.	EACH	570.00
1342	To supply, install or replace Boiling Water Dispenser of 20 Litre capacity Wall mounted/wall hung or table-top with direct piping water source type heating capacity range from 85 degrees to 100 degrees Centigrade boiling temperature. Power input range from 2200w -2500w and Ampere range from 10 - 11.5 Operated on 220V 240V Single Phase electricity supply complete with 3 Pin Plug wiring.	EACH	680.00
1343	To supply, install or replace Boiling Water Dispenser of 5 Litre capacity Wall mounted/wall hung or table-top with direct piping water source type of stainless steel body c/w temperature indicator with heating capacity range from 85° to 100° C boiling temperature. Power Input range from 2200w - 2500w and Ampere range from 10 - 11.5 Operated on 220V - 240V Single Phase electricity supply complete	EACH	450.00

S/No	Description	Unit	Unit Cost (\$)
1344	with 3 Pin Plug wiring. To supply, install or replace Boiling Water Dispenser of 7 Litre capacity Wall mounted/wall hung with direct piping water source type of stainless steel body c/w temperature indicator with heating capacity range from 85° to 100° C boiling temperature. Power Input range from 2200w - 2500w and Ampere range from 10 - 11.5 Operated on 220V - 240V Single Phase electricity supply complete with 3 Pin Plug wiring.	EACH	510.00
1345	To supply, install or replace Boiling Water Dispenser of 15 Litre capacity Wall mounted/wall hung or table-top with direct piping watersource type of stainless steel body c/w temperature indicator with heating capacity range from 85° to 100° C boiling temperature. Power Input range from 2200w - 2500w and Ampere range from 10 - 11.5 Operated on 220V - 240V Single Phase electricity supply complete with 3 Pin Plug wiring.	EACH	610.00
1346	To supply, fix or replace Indicator Light for boiling water dispenser of any capacity	EACH	3.00
1347	To supply and fix or replace Indicator Lens for boiling water dispenser of any capacity.	EACH	1.00
1348	To supply, fix or replace Solenoid Valve for hot water dispenser of any capacity.	EACH	78.00
1349	To supply, fix or replace Fan for boiling water dispenser of any capacity	EACH	21.00
1350	To supply, fix or replace Transformer for boiling water dispenser of any capacity	EACH	26.00
1351	To supply, fix or replace I/C Board for boiling water dispenser of any capacity	EACH	70.00
1352	To supply, install or replace 15mm diameter hot water pipe insulation.	MR	3.57

S/No	Description	Unit	Unit Cost (\$)
1353	To supply, install or replace 22mm diameter for hot water pipe insulation.	MR	5.55
1354	To supply, install or replace 28mm diameter for hot water pipe insulation.	MR	6.75
1355	To supply, install or replace 35mm diameter hot water pipe insulation.	MR	8.55
1356	To supply, install or replace 42mm diameter hot water pipe insulation.	MR	10.65
1357	To supply, install or replace 54mm diameter for hot water pipe insulation.	MR	16.10
1358	To supply, install or replace 76mm diameter for hot water pipe insulation.	MR	24.00
1359	To supply, install or replace 108mm diameter for hot water pipe insulation.	MR	32.05
1360	To supply, install or replace Heating Element with built-in thermostat for boiling water dispenser of any capacity.	EACH	76.00
1361	To supply, install or replace Lever Switch for boiling water dispenser of any type.	EACH	65.00
1362	To supply, fix or replace Thermostat for boiling water dispenser of any capacity.	EACH	41.00
1363	To supply, fix or replace Red Tap/ Faucet Complete Set) for boiling water dispenser.	EACH	90.00
1364	To supply, install or replace hot water dispenser upper assembly for tap of any capacity.	EACH	48.00
1365	To supply, install or replace hot water dispenser spring for tap of any capacity.	EACH	5.00
1366	To supply, install or replace hot water dispenser stem for tap of any capacity.	EACH	10.00
1367	To supply, fix or replace Seat Cap for Red Tap/Faucet for boiling water dispenser of any capacity.	EACH	12.00
1368	To supply, fix or replace Handle for Red Tap/Faucet for boiling water dispenser of any capacity.	EACH	12.00

S/No	Description	Unit	Unit Cost (\$)
1369	To supply, fix or replace Bonnet for Red Tap/Faucet for boiling water dispenser of any capacity.	EACH	14.00
1370	To supply, fix or replace Pin for Red Tap/Faucet for boiling water dispenser of any capacity.	EACH	4.00
1371	Engage Professional Engineer for plan endorsement, submission and calculation.	JOB	400.00
1372	To supply, Install or replace 50mm or below Combination Water Meter - flanged type of approved ISO Standard with max pressure at 16 bar for use of portable water including all necessary fittings and accessories such as filter protecting both meter mechanism, change-over valves, rubber gaskets, concrete supports and etc.	SET	1,702.00
1373	To supply, Install or replace 65mm Combination Water Meter - flanged type of approved ISO Standard with max pressure at 16 bar for use of portable water including all necessary fittings and accessories such as filter protecting both meter mechanism, change-over valves, rubber gaskets, concrete supports and etc.	SET	1,725.00
1374	To supply, Install or replace 80mm Combination Water Meter - flanged type of approved ISO Standard with max pressure at 16 bar for use of portable water including all labour, materials, transportation and necessary fittings and accessories such as filter protecting both meter mechanism, change-over valves, rubber gaskets, concrete supports and etc.	SET	2,127.00
1375	To supply, Install or replace 100mm Combination Water Meter - flanged type of approved ISO Standard with max pressure at 16 bar for use of portable water including necessary fittings and accessories such as filter protecting both meter mechanism, change-over valves, rubber gaskets, concrete	SET	2,714.00



S/No	Description	Unit	Unit Cost (\$)
	supports and etc.		
1376	To supply, Install or replace 150mm or above Combination Water Meter - flanged type of approved ISO Standard with max pressure at 16 bar for use of portable water including necessary fittings and accessories such as filter protecting both meter mechanism, change-over valves, rubber gaskets, concrete supports and etc.	SET	4,922.00
1377	To supply, install or replace 100mm water meter approved by PUB.	EACH	1,200.00
1378	To supply, install or replace 150mm water meter approved by PUB.	EACH	1,600.00
1379	To supply, install or replace 200mm or above water meter approved by PUB.	EACH	1,760.00
1380	To supply, install or replace approved 13mm diameter of constant flow regulator.	EACH	15.00
1381	To supply, install or replace foot control pedal including connection and making good.	EACH	354.40
1382	To supply, install or replace 5" water filter or its equivalent.	EACH	52.50
1383	To supply, install or replace 5" water filter cartridge or its equivalent.	EACH	6.00
1384	To supply, install or replace 10" water filter or its equivalent.	EACH	72.50
1385	To supply, install or replace 10" water filter cartridge or its equivalent.	EACH	8.50
1386	To supply , install or replace rectangular cast iron light duty manhole/inspection chamber cover and frame to SS 30, 1981 weighing approximately 25 kg (total weight) including bedding frame in cement and sand (1:3) and sealing cover in grease and sand.	EACH	22.00
1387	To supply, install or replace rectangular cast iron manhole/inspection	EACH	32.50

S/No	Description	Unit	Unit Cost (\$)
	chamber cover and frame to SS 30, 1981 weighing approximately 37-38 kg (total weight) including bedding frame in cement and sand (1:3) and sealing cover in grease and sand.		
1388	To supply, install or replace ductile iron single valve chamber c/w cover and frame surrounded with 75-100mm thick concrete and base.	EACH	90.00
1389	To supply, install or replace of ductile iron double valve chamber c/w cover and frame surrounded with 75-100mm thick concrete and base.	EACH	140.00
1390	To supply labour to raise or lower existing inspection chamber and manhole cover and frame with 100mm thick concrete all round the frame work.	EACH	250.00
1391	To supply labour to raise or lower existing mosaic tile recess type inspection chamber and manhole cover and frame with 100mm thick concrete all round the framework.	EACH	200.00
1392	To supply, install or replace Standard circular cast iron medium duty manhole cover and frame to SS 30, 1981 weighing approximately 114 kg (total weight) including bedding frame in cement and sand ( 1:3 ) and sealing cover in grease and sand.	EACH	119.30
1393	To supply, install or replace Standard double triangular cast iron heavy duty manhole cover and frame to SS 30, 1981 weighing approximately 205 kg (total weight) with a set of key including bedding frame in cement and sand ( 1:3 ) and sealing cover in grease and sand.	EACH	252.90
1394	To supply all labour, equipments and machinery to excavate not exceeding 1.50 metre deep for manholes part return, fill in and ram, remainder cart away, deposit, spread and level as directed including planking and strutting.	m <sup>3</sup>	17.60
1395	To supply all labour, equipments and machinery to excavate exceeding 1.50	m <sup>3</sup>	22.30

S/No	Description	Unit	Unit Cost (\$)
	metre and not exceeding 3.0 metre deep for manholes part return fill in and ram, remainder cart away, deposit, spread and level as directed including planking and strutting.		
1396	To supply all labour, equipments and machinery to excavate exceeding 3.0 metres and not exceeding 4.5 metre deep for manholes part return fill in and ram, remainder cart away, deposit, spread and level as directed including planking and strutting.	m3	32.55
1397	To supply, install or replace Concrete (1:2:4) in bottom to manholes including necessary formworks.	m3	180.32
1398	To supply, install or replace 225mm thick (average) concrete (1:2:4) benching and haunching to bottom of manholes finished with 13mm thick cement mortar (1:1) rendering, the whole trowelled smooth with coves to 25mm radius at walls and rounded edges next channels including working carefully to edge of channels (channels measured separately).	m2	55.50
1399	To supply, install or replace 100mm thick concrete (1:2:4) slab reinforced with BRC No.C5 fabric reinforcement including formwork.	m2	35.50
1400	To supply, install or replace 100mm diameter half round salt-glazed stoneware straight or curve branch channels including bedding and JTing in cement and sand (1:1).	EACH	28.45
1401	To supply, install or replace 100mm diameter three quarter section salt glazed stoneware straight or curve branch channels including bedding and JTing in cement and sand (1:1)	EACH	29.55
1402	To supply, install or replace 150mm diameter half round salt glazed stoneware straight or curve branch channels including bedding and JTing in cement and sand (1:1).	EACH	38.10

S/No	Description	Unit	Unit Cost (\$)
1403	To supply, install or replace 100 -150mm diameter half round salt glazed stoneware taper piece including bedding and Jointing in cement and sand (1:1).	EACH	35.00
1404	To supply, install or replace 225mm thick cement and sand (1:2) rendering to internal surfaces of manhole.	m <sup>2</sup>	79.50
1405	To supply, install or replace 20mm thick brick sides in manhole in cement mortar (1:3)	m <sup>2</sup>	9.35
1406	To supply, install or replace 150mm diameter stoneware pipe for 150mm x 150mm tumbling bay/back door junction.	EACH	120.45
1407	To supply, install or replace 100mm diameter cast iron pipe for 100mm x 100mm tumbling bay/back door junction.	EACH	78.30
1408	To supply, install or replace aluminium ladder 375mm wide including stringers, rungs, brackets and stiffeners for Manhole.	EACH	64.50
1409	To supply, install or replace aluminium hand railing 40mm external diameter, 900mm high with and including screwed bends, junctions and flanged bottom for Manhole.	EACH	85.50
1410	To supply, install or aluminium hand hold 30mm external diameter 1.5m long with both ends bent. for Manhole.	EACH	35.30
1411	To supply, install or aluminium safety link chain including hooks and end rings for Manhole.	EACH	49.40
1412	To supply labour, materials, equipment and transport to cast concrete 1:2:4 in small quantities not exceeding 0.2 cubic metre including in ht reinforcement and formwork.	m <sup>3</sup>	221.00
1413	To supply labour, materials, equipment and transport to cast concrete 1:3:6 in small quantities not exceeding 0.2 cubic metre including in ht reinforcement and formwork.	m <sup>3</sup>	184.00
1414	To repair and refix minor leaking works	EACH	20.00

S/No	Description	Unit	Unit Cost (\$)
	supplying labour inclusive of equipments and materials.		
1415	Take out repair and refix existing water closet or urinal bowl inclusive of repair works and making good work disturbed.	EACH	30.00
1416	To supply, labour and use of all necessary equipments and tools to clear any kind of choke for plumbing and sanitary for After Office Hours - Saturday, Sunday and Public Holiday.	JOB	100.00
1417	To supply, labour and use of all necessary equipments and tools to clear any kind of choke in rainwater down pipe, canteen or others.	JOB	50.00
1418	To supply, install or replace wall or ceiling mounted 4 fixed or adjustable heads emergency shower complete with brackets. (Pipes and fittings measured separately).	EACH	590.00
1419	To supply, install or replace wall or ceiling mounted 6 fixed or adjustable heads emergency shower complete with brackets. (Pipes and fittings measured separately).	EACH	750.00
1420	To supply, install or replace wall or ceiling mounted 7 fixed or adjustable heads emergency shower complete with brackets. (Pipes and fittings measured separately).	EACH	880.00
1421	To supply, install or replace hand operated eyeshower with bowl for wall mounted. (Pipes and fittings measured separately).	EACH	1,200.00
1422	To supply, install or replace wall or ceiling mounted or free standing emergency all stainless steel horizontal drench shower c/w sign plate and brackets.(Pipes and fittings measured separately)	EACH	900.00
1423	To supply, install or replace wall or ceiling mounted or free standing emergency all stainless steel shower	EACH	2,450.00

S/No	Description	Unit	Unit Cost (\$)
1424	station with EYE/FACE wash c/w sign plate and brackets. (Pipes and fittings measured separately)  To supply, install or replace wall or ceiling mounted single head (fixed or adjustable heads) Emergency Shower complete with brackets (Pipes and fittings measured separately).	EACH	590.00
1425	To supply, install or replace hand press operated single - way retractable EyeShower for table-top or wall mounted. (Pipes and fittings measured separately).	EACH	370.90
1426	To supply, install or replace hand press operated double - way retractable EyeShower for table-top or wall mounted. (Pipes and fittings measured separately).	EACH	634.80
1427	Supply and install approved 100mm diameter spindle screwdown type Ductile iron fire hydrant complying with SS CP29 with double screw outlets, flanged ends including painting and necessary connections and adjustment to piping	EACH	515.00
1428	Supply labour, transport, tools and equipment to carry out the proper inspection and Wet Test Procedures on Fire Hydrant including flushing and checking outlet connection, measuring water flow rate and water pressure at the outlets complete with submission of report reading. All works performed shall be equipped with canvas rubber lined fire hose complete with hose binding and instantaneous brass coupling.	EACH	40.00
1429	Supply, fix or replace in position new double outlet 63mm pillar hydrant including base connection complete including painting but exclude concrete base and piping.	EACH	240.00
1430	Supply & Install or replace pillar hydrant cap c/w chain.	EACH	30.00
1431	Supply & Install or replace cast iron	EACH	70.00

S/No	Description	Unit	Unit Cost (\$)
	pit cover (Standard Size)		
1432	Supply & Install or replace duct-foot bend(diameter 150mm)	EACH	150.00
1433	Supply & Install or replace duct-foot bend (diameter 100mm)	EACH	120.00
1434	Supply & Install or replace vertical extension hydrant pipe(diameter 100mm).	EACH	70.00
1435	Supply & Install or replace 65mm x 30m canvas rubber lined fire hose approved type complete with hose binding and instantaneous brass coupling.	EACH	200.00
1436	Supply & Install or replace 50mm x 30m canvas rubber lined fire hose approved type complete with hose binding and instantaneous brass coupling.	EACH	160.00
1437	Supply & Install or replace 38mm x 30m canvas rubber lined fire hose approved type complete with hose binding and instantaneous brass coupling.	EACH	120.00
1438	Supply & Install or replace hose cradle.	EACH	60.00
1439	Supply and install approved wall mounted double swivel and recessed if required, hosereel complying with BS 5274 complete with 30m long of 25mm diameter kinkable reinforced rubber hose, a jet or spray type shut-off nozzle, gunmetal control valves, wall brackets and fittings including fixing to wall, painting and all necessary connections and adjustment to piping	EACH	288.00
1440	Supply & Fix or replace 20 mm / 25mm diameter hose clip.	EACH	1.00
1441	Supply & Fix or replace 5 mm x 75 mm handle wheel.	EACH	10.00
1442	To supply, install or replace 20mm/25mm brass stop-cock.	EACH	30.00
1443	Supply & Fix or replace 20 mm / 25mm universal coupling Joint.	EACH	11.00
1444	To supply, install or replace 40mm	EACH	47.10

S/No	Description	Unit	Unit Cost (\$)
	diameter Flexible Joint.		
1445	To supply, install or replace 50mm diameter Flexible Joint.	EACH	52.35
1446	To supply, install or replace 65mm diameter Flexible Joint.	EACH	57.60
1447	To supply, install or replace 75mm diameter Flexible Joint.	EACH	62.80
1448	To supply, install or replace 100mm diameter Flexible Joint.	EACH	157.00
1449	To supply, install or replace 150mm diameter Flexible Joint.	EACH	209.30
1450	To supply, install or replace 200mm diameter Flexible Joint.	EACH	398.50
1451	To supply, install or replace 250mm diameter Flexible Joint.	EACH	580.40
1452	Supply & Install or replace 38mm Diffuser nozzle (Brass)	EACH	40.00
1453	Supply & Install or replace 50mm Diffuser Nozzle (Brass)	EACH	50.00
1454	Supply & Install or replace 65mm Diffuser Nozzle (Brass)	EACH	60.00
1455	Supply & Install or replace 65mm Hydrant Adaptor (Brass)	EACH	55.00
1456	Fabrication, supply & installation or replace of 150mm diameter stainless steel (Grade 316 of 3mm thickness, at least) removable bollard of standard height (1m from ground level) with rounded head c/w sign tape diamondgrade reflective strips measuring 12 inches height (Including planting sleeve base for bollard to existing reinforced concrete/ground with concrete grade 25) Bollard complete with locking device to base.	EACH	450.00
1457	Fabrication, supply & installation or replace of 75mm diameter hot-dip galvanised coated mild steel fix bollard of standard height (1m from ground	EACH	150.00



S/No	Description	Unit	Unit Cost (\$)
1458	level) with rounded head c/w sign tape diamond grade reflective strips measuring 12 inches height & paint two coats of white enamel paint finished (Including planting bollard to existing reinforced concrete/ground with concrete grade 25)  Fabrication, supply & installation or replace of 100mm diameter hot-dip galvanised coated mild steel fix bollard of standard height(1m from ground level) with rounded head c/w sign tape diamond grade reflective strips measuring 12 inches height & paint two coats of white enamel paint finished (Including planting bollard to existing reinforced concrete/ground with concrete grade 25)	EACH	200.00
1459	Fabrication, supply & installation or replace of 125mm diameter hot-dip galvanised coated mild steel fix bollard of standard height (1m from ground level) with rounded head c/w sign tape diamond grade reflective strips measuring 12 inches height & paint two coats of white enamel paint finished (Including planting bollard to existing reinforced concrete/ground with concrete grade 25)	EACH	250.00
1460	Fabrication, supply & installation or replace of 150mm diameter hot-dip galvanised coated mild steel fix bollard of standard height (1m from ground level) with rounded head c/w sign tape diamond grade reflective strips measuring 12 inches height(Including planting bollard to existing reinforced concrete/ground with concrete grade 25)	EACH	300.00
1461	Fabrication, supply & installation or replace of 75mm diameter hot-dip galvanised coated mild steel removable bollard of standard height (1m from ground level) with rounded head c/w sign tape diamond grade reflective strips measuring 12 inches height and paint two coats of white enamel pain finished (Including planting sleeve base for bollard to existing reinforced	EACH	225.00

S/No	Description	Unit	Unit Cost (\$)
1462	concrete/ground with concrete grade 25) Fabrication, supply & installation or replace of 100mm diameter hot-dip galvanised coated mild steel removable bollard of standard height (1m from ground level) with rounded head c/w sign tape diamond grade reflective strips measuring 12 inches height and paint two coats of white enamel paint finished (Including planting sleeve base for bollard to existing reinforced concrete/ground with concrete grade 25)	EACH	275.00
1463	Fabrication, supply & installation or replace of 125mm diameter hot-dip galvanised coated mild steel removable bollard of standard height (1m from ground level) with rounded head c/w sign tape diamond grade reflective strips measuring 12 inches height and paint two coats of white enamel paint finished (Including planting sleeve base for bollard to existing reinforced concrete/ground with concrete grade 25)	EACH	325.00
1464	Fabrication, supply & installation or replace of 150mm diameter hot-dip galvanised coated mild steel removable bollard of standard height (1m from ground level) with rounded head c/w sign tape diamond grade reflective strips measuring 12 inches height and paint two coats of white enamel paint finished (Including planting sleeve base for bollard to existing reinforced concrete/ground with concrete grade 25)	EACH	375.00
1465	To provide transportation, labour and tools for dismantling and relocate existing fixed/removable bollard or metal barrier(of all size and type) including replacement of fix sign tape diamond grade reflective strips measuring 12" and make good all work disturbed on completion.	EACH	100.00
1466	To supply , install or replace fixed bollards of 76mm diameter without chain.	EACH	743.60
1467	To supply, install or replace retractable bollards of 76mm diameter	EACH	1,026.30

S/No	Description	Unit	Unit Cost (\$)
1468	with chain and complete with a padlock and two nos. of keys. To supply, install or replace retractable bollards of 76mm diameter with chain for center to center spacing between bollards of 2.0m complete with a padlock & two nos. of keys	EACH	1,235.30
1469	To supply, install or replace 250mm diameter (and above) Fibreglass Fixed Bollard of standard height with rounded head c/w sign tape diamond grade reflective strips and bollard base supporting brackets embedded to reinforced concrete / ground with concrete grade 25	EACH	275.00
1470	To supply, install or replace Stainless Steel Chain size:10mm diameter x 30mm link.	EACH	10.00
1471	To supply, install or replace Stainless Steel Chain size: 12mm diameter x 40mm link	EACH	12.00
1472	To provide transportation, labour & tools for dismantling and relocate / disposal existing removable or fixed bollard / metal barrier (of all sizes and type) including the diamond grade reflective strips measuring 12" and make good all work disturbed on completion.	EACH	150.00
1473	To supply, install or replace Sign Tape Diamond Grade Reflective Strips measuring 12 inches (height).	EACH	275.00
1474	Fabrication, supply & installation or replace of 75mm diameter stainless steel (Grade 316 of 3mm thickness, at least) fix bollard of standard height (1m from ground level) with rounded head c/w sign tape diamond grade reflective strips measuring 12 inches height(including planting bollard to existing reinforced concrete/ground with concrete grade 25)	EACH	200.00
1475	Fabrication, supply & installation or replace of 100mm diameter stainless steel (Grade 316 of 3mm thickness, at least) fix bollard of standard height (1m from ground level) with rounded head c/w sign tape diamond grade reflective	EACH	250.00

S/No	Description	Unit	Unit Cost (\$)
1476	strips measuring 12 inches height (Including planting bollard to existing reinforced concrete/ground with concrete grade 25)  Fabrication, supply & installation or replace of 125mm diameter stainless steel (Grade 316 of 3mm thickness at least) fix bollard of standard height (1m from ground level) with rounded head c/w sign tape diamond grade reflective strips measuring 12 inches height (Including planting bollard to existing reinforced concrete/ground with concrete grade 25)	EACH	300.00
1477	Fabrication, supply & installation or replace of 150mm diameter stainless steel (Grade 316 of 3mm thickness, at least) fix bollard of standard height (1m from ground level) with rounded head c/w sign tape diamond grade reflective strips measuring 12 inches height(Including planting bollard to existing reinforced concrete/ground with concrete grade 25)	EACH	350.00
1478	Fabrication, supply & installation or replace of 75mm diameter stainless steel (Grade 316 of 3mm thickness, at least) removable bollard of standard height(1m from ground level) with rounded head c/w sign tape diamond grade reflective strips measuring 12 inches height(Including planting sleeve base for bollard to existing reinforced concrete/ground with concrete grade 25)Bollard complete with locking device to base.	EACH	300.00
1479	Fabrication, supply & installation or replace of 100mm diameter stainless steel (Grade 316 of 3mm thickness, at least) removable bollard of standard height (1m from ground level) with rounded head c/w sign tape diamond grade reflective strips measuring 12 inches height(Including planting sleeve base for bollard to existing reinforced concrete/ground with concrete grade 25)Bollard complete with locking device to base.	EACH	350.00

S/No	Description	Unit	Unit Cost (\$)
1480	Fabrication, supply & installation or replace of 125mm diameter stainless steel (Grade 316 of 3mm thickness, at least) removable bollard of standard height (1m from ground level) with rounded head c/w sign tape diamond grade reflective strips measuring 12 inches height(Including planting sleeve base for bollard to existing reinforced concrete/ground with concrete grade 25) Bollard complete with locking device to base.	EACH	400.00
1481	To supply, install or replace chromium plated retractable clothes line (single line).	EACH	30.00
1482	To supply, install or replace chromium plated or powder coated paint coat hanger (single).	EACH	5.40
1483	To supply, install or replace chromium plated or powder coated paint coat hanger (double).	EACH	5.80
1484	To supply, install or replace manual operated chain pulled Roller Shutter/Roller Grill (natural anodised aluminium) Size: Area below 50sq.ft	EACH	800.00
1485	To supply, install or replace manual operated chain pulled Roller Shutter/Roller Grill (natural anodised aluminium) Size : Area from 50sq.ft-100sq.ft	M2	18.00
1486	To supply, install or replace manual operated chain pulled Roller Shutter/RollerGrill (natural anodised aluminium) Size: Area 100sq.ft and above	M2	15.00
1487	To supply, install or replace Roller Shutter Motor(Japan Make)	M2	2,000.00
1488	To supply, install or replace Roller Shutter Motor (Others Make)	SET	1,400.00
1489	To supply, install or replace approved 1800mm diameter chequered aluminium grease interceptor cover, 3-piece type Trap Cover including locking and all	EACH	1,535.00

S/No	Description	Unit	Unit Cost (\$)
	necessary accessories as according to ENV Standard drawing.		
1490	To supply, install or replace approved 1800mm diameter chequered aluminium grease, 9-piece type Trap Cover including locking and all necessary accessories as according to ENV Standard drawing.	EACH	1,900.00
1491	To supply, install or replace 1800mm diameter X 15mm thick Glass Fibre Reinforced Plastic ( GRP ) Grease Interceptor Cover.	EACH	1,400.00
1492	To supply, install or replace 1800mm diameter X 10mm thick Mild Steel Chequered Plate with angles skeleton frames with bituminous painted on both sides for Grease Interceptor / Grease Trap Cover.	EACH	22.00
1493	To supply, install or replace Construct, standard grease interceptor as per Drawing No: ENV/SEW/76/82 - 4 comprising of 1050mm diameter precast chamber ring, aluminium alloy strainer, bucket, aluminium alloy chequered plate cover welded to grating etc of depth not exceeding 1500mm (Rate excluding cover).	EACH	4,400.00
1494	To supply, install or replace Construct standard grease interceptor as per Drawing No: ENV/SEW/76/82 - 4 comprising of 1050mm diameter precast chamber ring, aluminium alloy strainer, bucket, aluminium alloy chequered plate cover welded to grating etc of depth exceeding 1500mm and not exceeding 2000mm (Rate excluding cover).	EACH	4,760.00
1495	To supply, install or replace Construct standard grease interceptor as per Drawing No: ENV/SEW/76/82 - 4 comprising of 1050mm diameter precast chamber ring, aluminium alloy strainer, bucket, aluminium alloy chequered plate cover welded to grating etc of depth exceeding 2000mm and not exceeding 2500mm (Rate excluding cover).	EACH	5,120.00

S/No	Description	Unit	Unit Cost (\$)
1496	To supply, install or replace Construct standard grease interceptor as per Drawing No: ENV/SEW/76/82 - 4 comprising of 1050mm diameter precast chamber ring, aluminium alloy strainer, bucket, aluminium alloy chequered plate cover welded to grating etc of depth exceeding 2500mm and not exceeding 3000mm (Rate excluding cover)	EACH	5,470.00
1497	To supply, install or replace Construct standard grease interceptor as per Drawing No: ENV/SEW/76/82 - 4 comprising of 1050mm diameter precast chamber ring, aluminium alloy strainer, bucket, aluminium alloy chequered plate cover welded to grating etc of depth exceeding 3000mm and not exceeding 3500mm (Rate excluding cover)	EACH	5,820.00
1498	To supply, install or replace Construct standard grease interceptor as per Drawing No: ENV/SEW/76/82 - 4 comprising of 1050mm diameter precast chamber ring, aluminium alloy strainer, bucket, aluminium alloy chequered plate cover welded to grating etc of depth exceeding 3500mm and not exceeding 4000mm (Rate excluding cover)	EACH	6,200.00
1499	To supply, install or replace Construct standard grease interceptor as per Drawing No: ENV/SEW/76/82 - 3B comprising of 1800mm diameter precast chamber ring, aluminium alloy strainer, bucket, aluminium alloy chequered plate cover welded to grating etc of depth not exceeding 1500mm. (Rate excluding cover)	EACH	6,400.00
1500	To supply, install or replace Construct standard grease interceptor as per Drawing No: ENV/SEW/76/82 - 3B comprising of 1800mm diameter precast chamber ring, aluminium alloy strainer, bucket, aluminium alloy chequered plate cover welded to grating etc of depth exceeding 1500mm and not exceeding 2000mm (Rate excluding cover)	EACH	6,960.00
1501	To supply, install or replace Construct standard grease interceptor as per Drawing No: ENV/SEW/76/82 - 3B	EACH	7,500.00

S/No	Description	Unit	Unit Cost (\$)
1502	comprising of 1800mm diameter precast chamber ring, aluminium alloy strainer, bucket, aluminium alloy chequered plate cover welded to grating etc of depth exceeding 2000mm and not exceeding 2500mm (Rate excluding cover)  To supply, install or replace Construct standard grease interceptor as per Drawing No: ENV/SEW/76/82 - 3B comprising of 1800mm diameter precast chamber ring, aluminium alloy strainer, bucket, aluminium alloy chequered plate cover welded to grating etc of depth exceeding 2500mm and not exceeding 3000mm (Rate excluding cover)	EACH	8,030.00
1503	To supply, install or replace Construct standard grease interceptor as per Drawing No: ENV/SEW/76/82 - 3B comprising of 1800mm diameter precast chamber ring, aluminium alloy strainer, bucket, aluminium alloy chequered plate cover welded to grating etc of depth exceeding 3000mm and not exceeding 3500mm	EACH	8,560.00
1504	To supply, install or replace Construct standard grease interceptor as per Drawing No: ENV/SEW/76/82 - 3B comprising of 1800mm diameter precast chamber ring, aluminium alloy strainer, bucket, aluminium alloy chequered plate cover welded to grating etc of depth exceeding 3500mm and not exceeding 4000mm. (Rate excluding cover)	EACH	9,120.00
1505	To supply, install or replace Construct standar grease, petrol and silt interceptor ( three compartments ) with an overall size of 3038mm long x 675mm wide x 1200mm deep internally and complete with 75mm thick sand bed 225mm thick reinforced concrete ( Grade 20A ) base with 25mm thick waterproof paving, 215mm thick brick surround, 102.5mm thick brick baffle, 150mm diameter cast iron pipes and pipe fittings, 75mm thick precast concrete ( Grade 20A ) cover with lifting rings and including all necessary excavation, back-filling, disposing excavated	EACH	2,594.00



S/No	Description	Unit	Unit Cost (\$)
	material, formwork, reinforcement, waterproof plastering, etc as per Drawing No: ENV/SEW/76/80B		
1506	Add for each additional stage of 150mm deep internally for item CE0131.	EACH	125.00
1507	To supply, install or replace 737mm x 559mm x 559mm deep Fibreglass dilution tank (grey colour) complete with waste pipe.(Extra piping measured separately)	EACH	560.70
1508	To supply, install or replace 150mm salt glazed stoneware gulley complete with grating, 100 mm outgo and concrete surround minimum 100mm thick including removing existing damaged gulley and JTING new gulley to existing pipes.	EACH	60.00
1509	To supply, install or replace Cast iron deep seal floor trap complete with hinged grating, hopper and with vertical side or back inlets and 75mm outgo.	EACH	54.00
1510	To supply, install or replace 150mm diameter coated cast iron floor waste "P" type with 75mm diameter outgo and necessary side inlets, UPVC or galvanised hinged grating and frame, including all necessary connections, raising piece, formwork, cutting through concrete floor, packing around trap with concrete (Grade 15A) and making good surrounds.	EACH	62.05
1511	To supply, install or replace 150mm diameter coated cast iron floor waste "S" type with 75mm diameter outgo and necessary side inlets, UPVC or galvanised hinged grating and frame, including all necessary connections, raising piece, formwork, cutting through concrete floor, packing around trap with concrete (Grade 15A) and making good surrounds.	EACH	68.65
1512	To supply, install or replace 150mm diameter coated cast iron floor trap "P" type with 75mm deep seal, 75mm diameter outgo and necessary side inlets, galvanised or UPVC hinged grating and frame including all	EACH	68.65

S/No	Description	Unit	Unit Cost (\$)
1513	connections raising piece, formwork, cutting through concrete floor, packing around trap with concrete (Grade 15A) and making good surrounds.  To supply, install or replace 150mm diameter coated cast iron floor, trap "S" type with 75mm deep seal, 75mm diameter outgo and necessary side inlets, galvanised or UPVC hinged grating and frame including all connections raising piece, formwork, cutting through concrete floor, packing around trap with concrete (Grade 15A) and making good surrounds.	EACH	77.88
1514	To supply, install or replace 150mm diameter coated cast iron floor trap "S" type with 75mm deep seal, 75mm diameter outgo and necessary side inlets, galvanised or UPVC hinged grating and frame including all connections raising piece, formwork, cutting through concrete floor, packing around trap with concrete (Grade 15A) and making good surrounds if JTed in caulked lead and set in suspended floor slab	EACH	15.60
1515	To supply, install or replace Vitrified Clay Trapped Gully with 100mm diameter outlet, 150mm x 150mm or 150mm diameter, circular galvanised iron hinged grating and frame including all necessary inlets raising piece where necessary and setting gully on and including surround with concrete ( Grade 15A ) formwork, disposal of excavated materials and joining outgo and inlets with rubber ring Inclusive labour, materials, tools and transport	0 NO	58.50
1516	To supply, install or replace 150mm diameter cast iron floor trap and hopper with hinged grating at ground floor.	EACH	36.00
1517	To supply, install or replace 150mm diameter cast iron hopper connecting piece not exceeding 300mm long.	EACH	15.40
1518	To supply, install or replace 100mm diameter cast iron floor trap with hinged grating,hopper and 75mm outgo.	EACH	36.00

S/No	Description	Unit	Unit Cost (\$)
1519	To supply, install or replace 150mm diameter Chromium plated hinged grating for floor trap.	EACH	6.70
1520	To supply, install or replace 150mm diameter cast iron square hinged grating to apron gulley.	EACH	6.70
1521	To supply, install or replace 50mm diameter cast iron gratings including embedding in cement mortar.	EACH	2.00
1522	To supply, install or replace 75mm diameter cast iron gratings including embedding in cement mortar.	EACH	3.00
1523	To supply, install or replace 100mm diameter cast iron gratings including embedding in cement mortar.	EACH	4.00
1524	To supply, install or replace 150mm iron gratings including embedding in cement mortar.	EACH	6.00
1525	To supply, install or replace 150mm plastic hinged grating of approved quality for floor trap including setting in concrete.	EACH	4.30
1526	To supply, install or replace 150 mm plastic hinged grating of approved quality for gulley trap plastic grating including setting in concrete.	EACH	5.60
1527	To supply, install or replace 75mm diameter plastic grating.	EACH	2.90
1528	To supply, install or replace 100mm diameter cast iron perforated grating for rainwater downpipe.	EACH	3.90
1529	To supply, install or replace 150mm perforated round plastic grating of approved quality for floor trap including setting in concrete.	EACH	3.70
1530	To supply, install or replace 150mm square plastic grating of approved quality for floor trap including setting in concrete.	EACH	5.95

S/No	Description	Unit	Unit Cost (\$)
1531	To supply, install or replace 150mm non-perforated square plastic grating of approved quality for floor trap including setting in concrete.	EACH	17.50
1532	To supply, install or replace 150mm perforated square stainless steel grating of approved quality for floor trap including setting in concrete.	EACH	11.20
1533	To supply, install or replace 150mm non-perforated square stainless steel grating of approved quality for floor trap including setting in concrete.	EACH	23.00
1534	To supply, install or replace purpose made perforated 18G aluminium strainer for gulley trap complete with hinged cover.	EACH	24.00
1535	To supply, install or replace 18G aluminium strainer for waste interceptor trap not exceeding 300mm diameter.	EACH	48.00
1536	To supply, install or replace 18G aluminium strainer for waste interceptor trap exceeding 300mm but not exceeding 450mm diameter.	EACH	105.60
1537	To supply, install or replace 18G aluminium strainer for waste interceptor trap square type 175mm x 175mm.	EACH	93.50
1538	To supply, install or replace 225mm x 450mm street gully with 100mm outlet, including concrete bed, grating and strainer.	EACH	583.00
1539	To supply, install or replace 18G aluminium strainer for waste interceptor trap rectangle/square type not exceeding 600mm x 600mm.	EACH	93.50
1540	To supply, install or replace 2m <sup>3</sup> /hr Gas Meter.	EACH	6.80
1541	To supply, install or replace 5m <sup>3</sup> /Hr Gas Meter.	EACH	12.30
1542	To supply, install or replace 10m <sup>3</sup> /Hr Gas Meter.	EACH	61.50

S/No	Description	Unit	Unit Cost (\$)
1543	To supply, install or replace 20m3/25m3/Hr Gas Meter.	EACH	98.40
1544	To supply, install or replace 40m3/Hr Gas Meter.	EACH	159.90
1545	To supply, install or replace 85m3/Hr Gas Meter.	EACH	184.50
1546	To supply, install or replace 170m3/Hr Gas Meter.	EACH	246.00
1547	To supply, install or replace 300m3/Hr Gas Meter.	EACH	676.50
1548	To supply, install or replace 50mm diameter solenoid valve and by-pass.	EACH	1,242.00
1549	To supply, install or replace 80mm diameter solenoid valve and by-pass.	EACH	1,519.00
1550	To supply, install or replace 100mm diameter solenoid valve and by-pass.	EACH	2,520.00
1551	To supply, install or replace 50mm non-return valve with high-low pressure switch.	EACH	1,049.00
1552	To supply, install or replace 80mm non-return valve with high-low pressure switch.	EACH	1,390.00
1553	To supply, install or replace 100mm non-return valve with high-low pressure switch.	EACH	1,873.85
1554	To supply, install or replace Radiography test 50mm diameter pipe joint.	EACH	36.90
1555	To supply, install or replace Radiography test 80mm diameter pipe joint.	EACH	55.40
1556	To supply, install or replace Radiography test 100mm diameter pipe joint.	EACH	55.40
1557	To supply, install or replace Radiography test 150mm diameter pipe joint.	EACH	92.30

S/No	Description	Unit	Unit Cost (\$)
1558	Mobilisation of all necessary transport, labour, equipment and temporary signboard to the job site to conduct the radiography test.	JOB	246.00
1559	Certification of radiographic inspection report by a Professional Engineer	JOB	184.50
1560	To supply, install or replace aluminium sheet gas meter box at site complete with enamel painting. (colour to be decided at site).	EACH	184.50
1561	To supply, install or replace 50mm diameter pipe link-up piece.	EACH	80.00
1562	To supply, install or replace 80mm diameter pipe link-up piece.	EACH	123.00
1563	To supply, install or replace 100mm diameter pipe link-up piece.	EACH	184.50
1564	To supply, install or replace 1 sensor/channel leak detection system.	EACH	2,500.00
1565	To supply, install or replace 2 sensors/channels leak detection system.	EACH	3,400.00
1566	To supply, install or replace 3 sensors/channels leak detection system.	EACH	4,300.00
1567	To supply, install or replace 4 sensors/channels leak detection system.	EACH	5,200.00
1568	To supply, install or replace Each additional sensor/channel in excess of 4 sensors/channels leak detection system.	EACH	900.00
1569	To supply, install or replace of Testing of service of pipes outlet less than 10 stalls.	JOB	80.00
1570	To supply, install or replace Testing of service pipes outlet between 11 stalls to 20 stalls.	JOB	150.00
1571	To supply, install or replace Testing of service pipes outlet between 21 stalls to 30 stalls.	JOB	220.00

S/No	Description	Unit	Unit Cost (\$)
1572	To supply, install or replace of service pipes outlet between 31 stalls to 40 stalls.	JOB	280.00
1573	To supply, install or replace Testing of service pipes outlet above 40 stalls.	JOB	330.00
1574	To supply, install or replace Testing of internal pipes for each stall.	JOB	5.00
1575	To supply, install or replace Testing of service and internal pipes for each restaurant.	JOB	150.00
1576	To provide transport, labour and equipment to carry out conversion of existing commercial gas appliance such as rice cooker, griller, fryer, etc"	EACH	5.00
1577	Plugging off existing 50mm and below G.I. Pipes	JOB	70.00
1578	Plugging off existing 80mm G.I. pipes	JOB	100.00
1579	Plugging off existing 100mm and above G.I. pipes	JOB	150.00
1580	To supply, install or replace Broen or other equivalent approved brands gas taps with safety handles of Boss range. Model 05317009 (Broen brand)	EACH	96.80
1581	To supply, install or replace Broen or other equivalent approved brands gas taps with safety handles of Boss range. Model 05318009 (Broen brand)	EACH	130.90
1582	To supply, install or replace Broen or other equivalent approved brands gas taps with safety handles of Boss range. Model 05319009 (Broen brand)	EACH	130.90
1583	To supply, install or replace Broen or other equivalent approved brands gas taps with safety handles of Boss range. Model 05320009 (Broen brand)	EACH	203.50
1584	To supply, install or replace Broen or other equivalent approved brands gas taps with safety handles of Standard Boss range. Model 08317009 (Broen brand)	EACH	88.00

S/No	Description	Unit	Unit Cost (\$)
1585	To supply, install or replace Broen or other equivalent approved brands gas taps with safety handles of Standard Boss range. Model 08318009 (Broen brand)	EACH	113.30
1586	To supply, install or replace Broen or other equivalent approved brands gas taps with safety handles of Standard Boss range. Model 08319009 (Broen brand)	EACH	113.30
1587	To supply, install or replace Broen or other equivalent approved brands gas taps with safety handles of Standard Boss range. Model 08320009 (Broen brand)	EACH	181.50
1588	To supply, install or replace Broen or other equivalent approved brands needle cone valve for gases, vacuum and compressed - Boss range. Model 15022009 (Broen brand)	EACH	184.80
1589	To supply, install or replace Broen or other equivalent approved brands needle cone valve for gases, vacuum and compressed - Boss range. Model 15025009 (Broen brand)	EACH	306.90
1590	To supply, install or replace Broen or other equivalent approved brands needle cone valve for gases, vacuum and compressed - Boss range. Model 15021009 (Broen brand)	EACH	306.90
1591	To supply, install or replace Broen or other equivalent approved brands needle cone valve for gases, vacuum and compressed - Boss range. Model 15011009 (Broen brand)	EACH	558.80
1592	To supply, install or replace Broen or other equivalent approved brands needle cone valve for gases, vacuum and compressed - Boss range. Model 15004009 (Broen brand)	EACH	311.30
1593	To supply, install or replace Broen or other equivalent approved brands needle cone valve for gases, vacuum and compressed - Boss range. Model 15065009 (Broen brand)	EACH	161.70



S/No	Description	Unit	Unit Cost (\$)
1594	To supply, install or replace Broen or other equivalent approved brands needle cone valve for gases, vacuum and compressed - Standard Boss range. Model 18022009 (Broen brand)	EACH	139.70
1595	To supply, install or replace Broen or other equivalent approved brands needle cone valve for gases, vacuum and compressed - Standard Boss range. Model 18025009 (Broen brand)	EACH	239.80
1596	To supply, install or replace Broen or other equivalent approved brands needle cone valve for gases, vacuum and compressed - Standard Boss range. Model 18021009 (Broen brand)	EACH	239.80
1597	To supply, install or replace Broen or other equivalent approved brands needle cone valve for gases, vacuum and compressed - Standard Boss range. Model 18011009 (Broen brand)	EACH	404.80
1598	To supply, install or replace Broen or other equivalent approved brands needle cone valve for gases, vacuum and compressed - Standard Boss range. Model 18004009 (Broen brand)	EACH	258.50
1599	To supply, install or replace Broen or other equivalent approved brands needle cone valve for gases, vacuum and compressed - Standard Boss range. Model 18020009 c/w 19064009 lead-in (Breon brand) other equivalent approved brands front control valve. Boss range. Model 15006009 (Broen brand)	EACH	126.50
1601	To supply, install or replace Broen or other equivalent approved brands front control valve. Boss range. Model 15240009 (Broen brand)	EACH	201.30
1602	To supply, install or replace Broen or other equivalent approved brands front control valve. Boss range. Model 15288009 (Broen brand)	EACH	145.20
1603	To supply, install or replace Broen or other equivalent approved brands front	EACH	220.00

S/No	Description	Unit	Unit Cost (\$)
1604	control valve. Boss range. Model 15235009 (Broen brand)  To supply, install or replace Broen or other equivalent approved brands front control valve. Standard Boss range. Model 18006009 (Broen brand)	EACH	137.50
1605	PAINTING OF GAS PIPEWORK Supply paint and label (if necessary) gas pipework with evenly finished coats including appropriate base coat paint (primer) and two coats minimum for finishing paint of canary yellow to BS381C colour No. 356 or any other type/colour as approved and instructed by the Engineer for 50mm diameter gas pipe and below.	MR	3.00
1606	PAINTING OF GAS PIPEWORK Supply paint and label (if necessary) gas pipework with evenly finished coats including appropriate base coat paint (primer) and two coats minimum for finishing paint of canary yellow to BS381C colour No. 356 or any other type/colour as approved and instructed by the Engineer for 80mm diameter gas pipe and above.	MR	4.90
1607	Engage Licensed gas worker for plan endorsement, submission and calculation.	JOB	150.00
1608	To provide all labour, tools and equipments for the Repairs/Service of Water Meter, all types of sizes.	EACH	20.00
1609	To supply, plumber or labour During Office Hours.	HOURL	20.00
1610	To supply plumber or labour After Office Hours.	HOURL	40.00
1611	To supply plumber or labour During Public Holiday, Sunday and Saturday -anytime.	HOURL	70.00
1612	To supply all necessary plant, equipment, materials and labour to trace missing valve box/chamber/manhole with metal detector and subsequently raise/lower the single/double cast iron surface box cover or heavy duty cast	JOB	180.00

S/No	Description	Unit	Unit Cost (\$)
	iron manhole cover and frame to the direction and satisfaction of the University. Rate include breaking up of premix and concrete around the surface box/manhole cover before raising lowering and road reinforcement with premix after raising /lowering. Work shall be carried out continuously until completed.		
1613	To supply all labour and transport to carry out Audit on Water Tap Flowrate in accordance to PUB guideline.	EACH	1.00
1614	To supply all labour, material, tools and transport to fix or replace Timble for water tap.	EACH	0.50
1615	To supply, install or replace water meter approved by PUB - 13 mm	EACH	115.00
1616	To supply, install or replace water meter approved by PUB - 20 mm	EACH	160.00
1617	To supply, install or replace water meter approved by PUB - 25 mm	EACH	190.00
1618	To supply, install or replace water meter approved by PUB - 50 mm	EACH	594.00
1619	To supply, install or replace water meter approved by PUB - 75 mm	EACH	828.00
1620	To supply, install or replace 13mm diameter Galvanised Steel pipe to SS 17 with PUB approved internal lining including hacking of hole through walls or slabs, cutting off existing and disposed off site. (all pipe fittings and trench excavation measured separately)	MR	6.50
1621	To supply, install or replace 6mm to 10mm diameter Stainless Steel pipes to BS 4127 fixed to walls or ceiling including holderbats or laid in chase concrete or in trench (All Pipe Fittings and Trench excavation measured separately)	MR	6.90
1622	To supply, install or replace 12mm diameter Stainless Steel pipes to BS	MR	7.50

S/No	Description	Unit	Unit Cost (\$)
1623	4127 fixed to walls or ceiling including holderbats, brackets or laid in chase concrete or in trench (All Pipe Fittings and Trench excavation measured separately) To supply, install or replace 15mm diameter Stainless Steel pipes to BS 4127 fixed to walls or ceiling including holderbats, brackets or laid in chase concrete or in trench (All Pipe Fittings and Trench excavation measured separately)	MR	8.40
1624	To supply, install or replace 22mm diameter Stainless Steel pipes to BS 4127 fixed to walls or ceiling including holderbats, bracket or laid in chase concrete or in trench (All Pipe Fittings and Trench excavation measured separately)	MR	11.70
1625	To supply, install or replace 28mm diameter Stainless Steel pipes to BS 4127 fixed to walls or ceiling including holderbats,brackets or laid in chase concrete or in trench (All Pipe Fittings and Trench excavation measured separately)	MR	14.55
1626	To supply, install or replace 35mm diameter Stainless Steel pipes to BS 4127 fixed to walls or ceiling including holderbats,brackets or laid in chase concrete or in trench (All Pipe Fittings and Trench excavation measured separately)	MR	19.60
1627	To supply, install or replace 50mm to 54mm diameter Stainless Steel pipes to BS 4127 fixed to walls or ceiling including holderbats, brackets or laid in chase concrete or in trench (All Pipe Fittings and Trench excavation measured separately)	MR	35.20
1628	To supply, install or replace approved 15mm x 15mm x 15mm diameter Tee Compression fitting to BS 864 for Stainless Steel pipes	EACH	3.80
1629	To supply, install or replace approved	EACH	4.70

S/No	Description	Unit	Unit Cost (\$)
	15mm x 22mm x 15mm diameter Tee Compression fitting to BS 864 for Stainless Steel pipes.		
1630	To supply, install or replace approved 22mm x 15mm x 22mm diameter Tee Compression fitting to BS 864 for Stainless Steel pipes	EACH	4.70
1631	To supply, install or replace approved 22mm x 22mm x 22mm diameter Tee Compression fitting to BS 864 for Stainless Steel pipes	EACH	5.70
1632	To supply, install or replace approved 28mm x 15mm x 28mm diameter Tee Compression fitting to BS 864 for Stainless Steel pipes	EACH	9.70
1633	To supply, install or replace approved 28mm x 22mm x 28mm diameter Tee Compression fitting to BS 864 for Stainless Steel pipes Material No: 8700005170 Old Material No: CA5170	EACH	9.70
1634	To supply, install or replace approved 28mm x 28mm x 28mm diameter Tee Compression fitting to BS 864 for Stainless Steel pipes	EACH	7.30
1635	To supply, install or replace approved 28mm x 35mm x 28mm diameter Tee Compression fitting to BS 864 for Stainless Steel pipes	EACH	12.10
1636	Supply and fix or replace approved 35mm 15mm x 35mm diameter Tee Compression fitting to BS 864 for Stainless Steel pipes	EACH	12.90
1637	To supply, install or replace approved 42mm x 22mm x 42mm diameter Tee Compression fitting to BS 864 for Stainless Steel pipes	EACH	18.60
1638	To supply, install or replace approved 42mm x 28mm x 42mm diameter Tee Compression fitting to BS 864 for Stainless Steel pipes	EACH	18.60
1639	To supply, install or replace approved	EACH	17.70

S/No	Description	Unit	Unit Cost (\$)
	42mm x 42mm x 42mm diameter Tee Compression fitting to BS 864 for Stainless Steel pipes Material No: 8700005176 Old Material No: CA5176		
1640	To supply, install or replace approved 54mm x 28mm x 54mm diameter Tee Compression fitting to BS 864 for Stainless Steel pipes Material No: 8700005177 Old Material No: CA5177	EACH	26.40
1641	To supply, install or replace approved 54mm x 35mm x 54mm diameter Tee Compression fitting to BS 864 for Stainless Steel pipes.	EACH	26.90
1642	To supply, install or replace approved 54mm x 42mm x 54mm diameter Tee Compression fitting to BS 864 for Stainless Steel pipes	EACH	28.60
1643	To supply, install or replace approved 54mm x 54mm x 54mm diameter Tee Compression fitting to BS 864 for Stainless Steel pipes	EACH	28.60
1644	To supply, install or replace approved 22mm x 15mm diameter Reducing Elbow Compression fitting to BS 864 for Stainless Steel pipes	EACH	4.20
1645	To supply, install or replace approved 28mm x 15mm diameter Reducing Elbow Compression fitting to BS 864 for Stainless Steel pipes	EACH	5.60
1646	To supply, install or replace approved 28mm x 22mm diameter Reducing Elbow Compression fitting to BS 864 for Stainless Steel pipes	EACH	6.00
1647	To supply, install or replace approved 35mm x 15mm diameter Reducing Elbow Compression fitting to BS 864 for Stainless Steel pipes	EACH	10.10
1648	To supply, install or replace approved 35mm x 22mm diameter Reducing Elbow Compression fitting to BS 864 for Stainless Steel pipes	EACH	10.10

S/No	Description	Unit	Unit Cost (\$)
1649	To supply, install or replace approved 35mm x 28mm diameter Reducing Elbow Compression fitting to BS 864 for Stainless Steel pipes	EACH	11.50
1650	To supply, install or replace approved 42mm x 28mm diameter Reducing Elbow Compression fitting to BS 864 for Stainless Steel pipes	EACH	16.10
1651	To supply, install or replace approved 54mm x 15mm diameter Reducing Elbow Compression fitting to BS 864 for Stainless Steel pipes.	EACH	21.90
1652	To supply, install or replace approved 54mm x 28mm diameter Reducing Elbow Compression fitting to BS 864 for Stainless Steel pipes	EACH	23.60
1653	To supply, install or replace approved 54mm x 35mm diameter Reducing Elbow Compression fitting to BS 864 for Stainless Steel pipes	EACH	26.60
1654	To supply, install or replace approved 54mm x 42mm diameter Reducing Elbow Compression fitting to BS 864 for Stainless Steel pipes	EACH	27.40
1655	To supply, install or replace 13mm Urinal Holderbats.	EACH	1.20
1656	To supply, install or replace 22mm Urinal Holderbats.	EACH	1.50
1657	To supply, install or replace 28mm Urinal Holderbats.	EACH	1.80
1658	To supply, install or replace 35mm Urinal Holderbats.	EACH	3.30
1659	To supply, install or replace 42mm Urinal Holderbats.	EACH	5.00
1660	To supply, install or replace approved 18/8 stainless steel urinal 1060mm high X 320mm wide in one piece assembly, complete with end return, channel, 80mm diameter domical outlet fitting, stainless steel flush pipe concealed)	EACH	755.00

S/No	Description	Unit	Unit Cost (\$)
1661	and spreader nozzle, etc including all necessary connections and adjustments (Flushing cistern measured separately) 600mm long single stall type.  To supply, install or replace approved 18/8 stainless steel urinal 1060 mm high X 320mm wide in one piece assembly, complete with end return, channel, 80mm diameter domical outlet fitting stainless steel flush pipe (concealed) and spreader nozzle, etc including all necessary connections and adjustments (Flushing cistern measured separately) 1200mm long slab type.	EACH	1,044.20
1662	To supply, install or replace approved 18/8 stainless steel urinal 1060 mm high X 320mm wide in one piece assembly, complete with end return, channel, 80 mm diameter domical outlet fitting, stainless steel flush pipe (concealed) and spreader nozzle, etc including all necessary connections and adjustments (Flushing cistern measured separately) 1800mm long slab type.	EACH	1,260.65
1663	To supply, install or replace approved 18/8 stain less steel urinal 1060mm high X 320mm wide in one piece assembly, complete with end return, channel, 80mm diameter domical outlet fitting, stainless steel flush pipe (concealed) and spreader nozzle, etc including all necessary connections and adjustments (Flushing cistern measured separately) 2400mm long slab type.	EACH	1,585.05
1664	To supply, install or replace approved 18/8 stainless steel urinal 1060mm high X 320mm wide in one piece assembly, complete with end return, channel, 80mm diameter domical outlet fitting, stainless steel flush pipe (concealed) and spreader nozzle, etc including all necessary connections and adjustments (Flushing cistern measured separately) 3000mm long slab type.	EACH	1,898.20
1665	To supply, install or replace approved 18/8 stainless steel urinal 1060mm high X 320mm wide in one piece assembly,	EACH	2,251.60



S/No	Description	Unit	Unit Cost (\$)
1666	complete with end return, channel, 80mm diameter domical outlet fitting, stainless steel flush pipe (concealed) and spreader nozzle, etc including all necessary connections and adjustments (Flushing cistern measured separately) 3600mm long slab type.  To supply, install or replace approved 18/8 stainless steel urinal 1060mm high X 320mm wide in one piece assembly, complete with end return, channel, 80mm diameter domical outlet fitting, stainless steel flush pipe (concealed) and spreader nozzle, etc including all necessary connections and adjustments (Flushing cistern measured separately) 4200mm long slab type.	EACH	2,563.12
1667	To supply, install or replace approved white glazed vitreous china single wall hung bowl urinal complete with wall hanger, stainless steel flush pipe with spreader and clips, stainless steel dome outlet grating, 30mm diameter with plastic tail, supporting brackets, 30mm chromium plated trap and including one division wall (Cistern and extra piping measured separately).	EACH	335.70
1668	To supply, install or replace 450mm x 400mm x 6mm thick first quality plate glass mirror with or without bevelled edges plugged to wall with chromium plated mirror screws. Mirror c/w 6mm thick plywood with 1mm thick formica backing, mirror with water tightened framing (to prevent entering of water) come with 2 years warranty for mirror against any corrosion according to standard EN 1036 including dismantling existing and remove off site and making good work disturbed.	EACH	35.14
1669	To supply, install or replace 6mm thick first quality plate glass mirror c/w aluminium frame, 6mm thick plywood with 1mm thick formica backing, mirror with water tightened framing (to prevent entering of water) including dismantling existing and remove off site and making good work disturbed. Come with 1 year	M2	130.00

S/No	Description	Unit	Unit Cost (\$)
1670	warranty for mirror against any corrosion according to standard EN 1036 To supply, install or replace 450mm x 400mm x 6mm thick first quality plate glass mirror with or without bevelled edges on chromium plated adjustable brackets plugged and screwed to wall with chromium plated screws.	EACH	34.70
1671	To supply, install or replace any size 6mm thick first quality plate glass mirror with or without bevelled edges on chromium plated adjustable brackets plugged and screwed to wall with chromium plated screws.	m2	215.14
1672	To supply, install or replace 450mm x 600mm high approved luxury quality copper back mirror with moisture-proof anodised aluminium frame including plugging and screwing frame to wall with chromium plated brass dome-head screws and flet washers. Mirror c/w 6mm thick plywood with 1mm thick formica backing, mirror with water tighted framing (to prevent entering of water) come with 1 year warranty for mirror against any corrosion according to standard EN 1036 including dismantling existing and remove off site and making good worked disturbed.	EACH	77.60
1673	To supply, install or replace any size approved luxury quality copper back mirror with moisture proof anodised aluminium frame including plugging and screwing frame to wall with chromium plated brass dome-head screws and flet washers. Mirror c/w 6mm thick plywood with 1mm thick formica backing, mirror with water tighted framing (to prevent entering of water) come with 1 year warranty for mirror against any corrosion according to standard EN 1036 including dismantling existing and remove off site and making good work disturbed.	m2	221.75
1674	To supply, install or replace "U" shaped aluminium frame to mirror.	MR	5.40

S/No	Description	Unit	Unit Cost (\$)
1675	To supply, install or replace 490mm diameter acrylic convex mirror to wall (thickness of mirror plate : 2mm)	EACH	250.00
1676	To supply, install or replace 600mm diameter acrylic convex mirror to wall (thickness of mirror plate : 2mm)	EACH	308.00
1677	To supply, install or replace 830mm diameter acrylic convex mirror to wall (thickness of mirror plate : 2mm)	EACH	579.00
1678	To supply, install or replace Red Faucet Complete Set) for boiling water dispenser.	EACH	15.35
1679	To supply, install or replace 13mm chromium plated pillar tap for basin or long bath including connections.	EACH	11.60
1680	To supply, install or replace 20mm chromium plated pillar tap for basin or long bath including connections.	EACH	13.80
1681	To supply, install or replace 13mm single elbow action pillar Water Efficient tap including connections for basin or sink.	EACH	22.70
1682	To supply, install or replace 20mm single elbow action pillar Water Efficient tap including connections for basin or sink.	EACH	23.90
1683	To supply, install or replace 13mm chromium plated hot and cold basin mixer tap complete with pop-up waste and including connection.	EACH	76.60
1684	To supply, install or replace 13mm chromium plated hot and cold pillar of wall type tap with adjustable spout for stainless steel sink including connections.	EACH	66.20
1685	To supply, install or replace 20mm chromium plated hot and cold long bath mixer tap complete with adjustable leg and including connection.	EACH	81.30
1686	To supply, install or replace 13mm chromium plated single swan neck Water Efficient tap for stainless steel sink.	EACH	18.40

S/No	Description	Unit	Unit Cost (\$)
1687	To supply, install or replace 13mm chromium plated combined supply fitting with elbow action levers, anti-splash nozzle and extended inlets.	EACH	71.80
1688	To supply, install or replace 13mm three way laboratory fitting (oxidised) with swanneck, anti-splash nozzle and desk flange.	EACH	215.00
1689	To supply, install or replace 13mm One Way Laboratory fitting (oxidised) with swanneck, anti-splash nozzle and desk flange.	EACH	91.30
1690	To supply, install or replace 13mm single swanneck fitting for kitchen sink.	EACH	38.90
1691	To supply, install or replace economy spray mixing taps with control knob or lever.	EACH	101.70
1692	To supply, install or replace approved delayed action Water Efficient tap for basin or bath.	EACH	79.30
1693	Hack out existing pointing at Joints/ Gaps between sink and wall and replace white cement.	JOB	2.82
1694	To supply, install or replace rectangular cast iron heavy duty manhole/inspection chamber cover and frame to SS 30, 1981 weighing approximately 50-53 kg (total weight) including bedding frame in cement and sand (1:3) and sealing cover in grease and sand.	EACH	43.90
1695	Supply and fix or replace 20 mm / 25 mm controllable discharge nozzle including removing existing nozzle.	EACH	20.00
1696	Supply and fix or replace galvanised sheet hosereel cabinet with red epoxy coating completed with visual glass, break-glass key holder, aluminium handle, hinges, appropriate notice (according to BS 5499 : Part 1), and lock keys.	EACH	250.00

S/No	Description	Unit	Unit Cost (\$)
1697	Supply and fix or replace canvas valve strap complete with padlock and keys.	EACH	25.00
1698	Supply and fix or replace valve handle wheel (size from 2" to 3")	EACH	35.00
1699	Supply and fix or replace rubber expansion joint diameter 4"	EACH	290.00
1700	Supply and fix or replace rubber expansion joint diameter 3"	EACH	250.00
1701	Supply and fix or replace rubber expansion joint diameter 2"	EACH	200.00
1702	Supply and fix or replace perspex signages of A3 size	EACH	120.00
1703	Supply and fix or replace plastic transparent for water tank level indicating gauge of any level and sizes.	EACH	50.00
1704	Polypropylene cold water supply pipe inclusive of pipe fittings of size diameter 20mm x 2.3mm	MR	9.00
1705	Polypropylene cold water supply pipe inclusive of pipe fittings of size diameter 25mm x 2.3mm	MR	13.00
1706	Polypropylene cold water supply pipe inclusive of pipe fittings of size diameter 32mm x 2.9mm	MR	17.00
1707	Polypropylene cold water supply pipe inclusive of pipe fittings of size diameter 40mm x 3.7mm	MR	18.00
1708	Polypropylene cold water supply pipe inclusive of pipe fittings of size diameter 50mm x 4.6mm	MR	20.00
1709	Polypropylene cold water supply pipe inclusive of pipe fittings of size diameter 63mm x 5.8mm	MR	22.00
1710	Polypropylene cold water supply pipe inclusive of pipe fittings of size diameter 75mm x 6.6mm	MR	28.00
1711	Polypropylene cold water supply pipe inclusive of pipe fittings of size	MR	32.00

S/No	Description	Unit	Unit Cost (\$)
1712	diameter 90mm x 8.2mm Polypropylene cold water supply pipe inclusive of pipe fittings of size diameter 110mm x 10.0mm	MR	35.00
1713	Polypropylene cold water supply pipe inclusive of pipe fittings of size diameter 20mm x 3.4mm	MR	14.00
1714	Polypropylene cold water supply pipe inclusive of pipe fittings of size diameter 25mm x 4.2mm	MR	16.00
1715	Polypropylene cold water supply pipe inclusive of pipe fittings of size diameter 32mm x 5.4mm	MR	18.00
1716	Polypropylene cold water supply pipe inclusive of pipe fittings of size diameter 40mm x 6.7mm	MR	19.00
1717	Polypropylene cold water supply pipe inclusive of pipe fittings of size diameter 50mm x 8.3mm	MR	20.00
1718	Polypropylene cold water supply pipe inclusive of pipe fittings of size diameter 63mm x 10.5mm	MR	24.00
1719	Polypropylene cold water supply pipe inclusive of pipe fittings of size diameter 75mm x 12.5mm	MR	30.00
1720	Polypropylene cold water supply pipe inclusive of pipe fittings of size diameter 90mm x 15.0mm Material No: 8700012181 Old Material No: CB2181I	MR	32.00
1721	Polypropylene cold water supply pipe inclusive of pipe fittings of size diameter 110mm x 18.3mm	MR	35.00
1722	Polypropylene cold water supply valve of size diameter 20mm	EACH	18.00
1723	Polypropylene cold water supply valve of size diameter 25mm	EACH	22.00
1724	Polypropylene cold water supply valve of size diameter 32mm	EACH	35.00

S/No	Description	Unit	Unit Cost (\$)
1725	Repair Polypropylene cold water supply pipe or fittings leaking of any size.	JOB	50.00
1726	Supply and fix stainless sink stopper (brass / chrome plated)	EACH	18.00
1727	To supply, install or replace 15mm diameter press fitting such as elbow, tee, coupling & reducer.	EACH	7.20
1728	To supply, install or replace 22mm diameter press fitting such as elbow, tee, coupling & reducer.	EACH	9.40
1729	To supply, install or replace 28mm diameter press fitting such as elbow, tee, coupling & reducer.	EACH	14.60
1730	To supply, install or replace 35mm diameter press fitting such as elbow, tee, coupling & reducer.	EACH	23.75
1731	To supply, install or replace 42mm diameter press fitting such as elbow, tee, coupling & reducer.	EACH	30.50
1732	To supply, install or replace 54mm diameter press fitting such as elbow, tee, coupling & reducer.	EACH	44.25
1733	To supply, install or replace 15mm diameter press fitting male or female adaptor.	EACH	10.20
1734	To supply, install or replace 22mm diameter press fitting male or female adaptor.	EACH	15.20
1735	To supply, install or replace 28mm diameter press fitting male or female adaptor.	EACH	22.20
1736	To supply, install or replace 35mm diameter press fitting male or female adaptor.	EACH	45.75
1737	To supply, install or replace 42mm diameter press fitting male or female adaptor.	EACH	57.50
1738	To supply, install or replace 54mm	EACH	77.00

S/No	Description	Unit	Unit Cost (\$)
	diameter press fitting male or female adaptor.		
1739	To supply, install or replace 15mm diameter drop ear elbow with female thread	EACH	20.00
1740	To supply, install or replace 20mm diameter drop ear elbow with female thread	EACH	30.00
1741	To supply, install or replace 32mm diameter bronze flang for water tank	EACH	175.00
1742	To supply, install or replace 40mm diameter bronze flang for water tank.	EACH	200.00
1743	To supply, install or replace 50mm diameter bronze flang for water tank	EACH	225.00
1744	To, supply, install or replace 65mm diameter bronze flang for water tank	EACH	287.00
1745	To supply, install or replace 80mm diameter bronze flang for water tank.	EACH	325.00
1746	To supply, install or replace 100mm diameter bronze flang for water tank	EACH	387.00
1747	To supply, install or replace 150mm diameter bronze flang for water tank.	EACH	1,005.00
1748	To supply, install or replace 32mm diameter pressure balanced type float valve including taking down existing and disposed off site.	EACH	759.00
1749	To supply, install or replace 40mm diameter pressure balanced type float valve including taking down existing and disposed off site.	EACH	858.00
1750	To supply, install or replace 50mm diameter pressure balanced type floate valve including taking down existing and disposed off site.	EACH	1,320.00
1751	To supply, install or replace 65mm diameter pressure balanced type float valve including taking down existing and disposed off site.	EACH	1,716.00



S/No	Description	Unit	Unit Cost (\$)
1752	To supply, install or replace 80mm diameter pressure balanced type float valve including taking down existing and disposed off site.	EACH	2,200.00
1753	To supply, install or replace 100mm diameter pressure balanced type float valve including taking down existing and disposed off site.	EACH	2,800.00
1754	To supply, install or replace 150mm diameter pressure balanced type float valve including taking down existing and disposed off site.	EACH	4,560.00
1755	To supply, install or replace 80mm diameter pilot operated float valve flange end including taking down existing and disposed off site.	EACH	4,600.00
1756	To supply, install or replace 100mm diameter pilot operated float valve flange end including taking down existing and disposed off site.	EACH	5,420.00
1757	To supply, install or replace 150mm diameter pilot operated float valve flange end including taking down existing and disposed off site.	EACH	6,500.00
1758	To supply, install or replace 20mm diameter screw end constant head pilot operated float valve including taking down existing and disposed off site.	EACH	1,100.00
1759	To supply, install or replace 25mm diameter screw end constant head pilot operated float valve including taking down existing and disposed off site.	EACH	1,190.00
1760	To supply, install or replace 32mm diameter screw end constant head pilot operated float valve including taking down existing and disposed off site.	EACH	1,290.00
1761	To supply, install or replace 40mm diameter screw end constant head pilot operated float valve including taking down existing and disposed off site.	EACH	1,390.00
1762	To supply, install or replace 50mm diameter screw end constant head pilot	EACH	1,500.00

S/No	Description	Unit	Unit Cost (\$)
	operated float valve including taking down existing and disposed off site.		
1763	To supply, install or replace 20mm diameter compressed ends gate valve for polypropylene pipe.	EACH	51.00
1764	To supply, install or replace 25mm diameter compressed ends gate valve for polypropylene pipe	EACH	63.75
1765	To supply, install or replace 32mm diameter compressed ends gate valve for polypropylene pipe	EACH	76.50
1766	To supply, install or replace 2" x 1" Aluminium bracket c/w wall plug.	EACH	8.00
1767	To supply, install or replace U-bolt for 15mm pipe.	EACH	3.30
1768	To supply, install or replace U-bolt for 22mm pipe	EACH	4.70
1769	To supply, install or replace U-bolt for 28mm pipe	EACH	7.30
1770	To supply, install or replace U-bolt for 35mm pipe	EACH	9.50
1771	To supply, install or replace U-bolt for 42mm pipe	EACH	12.20
1772	To supply, install or replace U-bolt for 54mm pipe	EACH	17.70
1773	To supply, install or replace U-bolt for 65mm pipe	EACH	19.50
1774	To supply, install or replace U-bolt for 75mm pipe	EACH	23.20
1775	To supply, install or replace U-bolt for 100mm pipe	EACH	26.50
1776	To supply, install or replace U-bolt for 150mm pipe	EACH	28.50
1777	To supply, install or replace 15mm-19mm CPC rubber clip bracket c/w wall plug & stud.	EACH	4.50

S/No	Description	Unit	Unit Cost (\$)
1778	To supply, install or replace 20mm-25mm CPC rubber clip bracket c/w wall plug & stud.	EACH	7.05
1779	To supply, install or replace 26mm-31mm CPC rubber clip bracket c/w wall plug & stud.	EACH	10.95
1780	To supply, install or replace 32mm-36mm CPC rubber clip bracket c/w wall plug & stud.	EACH	14.50
1781	To supply, install or replce 37mm-49mm CPC rubber clip bracket c/w wall plug & stud.	EACH	18.30
1782	To supply, install or replace 50mm-58mm CPC rubber clip bracket c/w wall plug & stud.	EACH	26.55
1783	To supply, install or replace 59mm-80mm CPC rubber clip bracket c/w wall plug & stud.	EACH	29.25
1784	To supply, install or replace 91mm-110mm CPC rubber clip bracket c/w wall plug & stud.	EACH	34.80
1785	To supply, install or replace 111mm-160mm CPC cubber clip bracket c/w wall plug & stud.	EACH	39.75
1786	To supply, install or replace water closet collar.	EACH	25.00
1787	To supply, install or replace urinal sealand complete with wall flange.	EACH	35.00
1788	To supply, install or replace rubber bush to squatting pan or pedestal pan.	EACH	12.00
1789	To supply, install or replace rubber bush to urinal bowl.	EACH	9.00
1790	To supply, install or replace Inlet spud for urinal bowl.	EACH	30.00
1791	To supply, install or replace 350mm long flexible tube	EACH	8.70
1792	To supply, install or replace 400mm long flexible tube	EACH	11.60

S/No	Description	Unit	Unit Cost (\$)
1793	To supply, install or replace white glazed vitreous china back to wall water closet complete with "S" or "P" trap, seat & cover (Potex, Johnson Sussie, Claytan or Saniton)	EACH	400.00
1794	To supply, install or replace 4.5 litres close couple water closet suite (Claytan, Johnson Sussie, Potex or Saniton)	EACH	400.00
1795	To supply, install or replace one way laboratory tap, lever type.	EACH	195.00
1796	To supply, install or replace two way laboratory tap, lever type.	EACH	275.00
1797	To supply, install or replace three way laboratory tap, lever type.	EACH	335.00
1798	To supply, install or replace Hot & Cold lever type laboratory mixer trap.	EACH	425.00
1799	To supply, install or replace concealed shower mixer.	EACH	185.00
1800	To supply, install or replace basin pillar Water Efficient tap with long lever handle.	EACH	98.00
1801	To supply, install or replace sink tap swivel spout	EACH	120.00
1802	To supply, install or replace expose shower mixer.	EACH	120.00
1803	To supply, install or replace expose longbath mixer	EACH	135.00
1804	To supply, install or replace Docool pematic floor or wall control valve	EACH	250.00
1805	To supply, install or replace Docool pedalmatic 200-P valve.	EACH	280.00
1806	To supply, install or replace swivel spout for wall & floor valve.	EACH	65.00
1807	To supply, install or replace delay action pillar Water Efficient tap for handicap toilet.	EACH	263.00
1808	Dispatch licensed plumber services works on weekdays	EACH	80.00

S/No	Description	Unit	Unit Cost (\$)
	whole day (24hrs)		
1809	Dispatch licensed plumber services on (Sat/Sun/PH) whole day (24hrs)	EACH	120.00
1810	Not In Use	EACH	
1811	Not In Use	EACH	
1812	To provide equipment, tools & materials to flushing and rodding of sewerage pipe line.	M	10.00
1813	To supply equipment, tools to remove debris from manhole.	JOB	18.00
1814	To supply, labour, tools, equipment and materials to hack and repair or replace concealed pipe burst.	JOB	280.00
1815	To supply labour, tools & equipments to clear and clean of dilution tank.	JOB	150.00
1816	To supply, install or replace 75mm diameter Silent Check Valve - Cast/Ductile iron.	EACH	700.00
1817	To supply, install or replace 100mm diameter Silent Check Valve - Cast/Ductile iron.	EACH	800.00
1818	To supply, install or replace 150mm diameter Silent Check Valve - Cast/Ductile iron.	EACH	1,300.00
1819	To supply, install or replace 200mm diameter Silent Check Valve - Cast/Ductile iron.	EACH	1,900.00
1820	To supply, install or replace 250mm diameter Silent Check Valve - Cast/Ductile iron.	EACH	2,500.00
1821	To Supply, install or replace RIGEL LH8025 Wall Hung Basin c/w Standard Accessories and PVC Bottle Trap Dimension: 520 (L) x 460 (W) x 165 (H)mm	EACH	200.00
1822	To Supply, install or replace RIGEL W3-R-Q3 23051 (WELS: 3 TICKS) Deck Mounted Self-closing Delay Action Tap Dimension: 110.3 (L) x 141.6(H) mm	EACH	135.00
1823	To Supply, install or replace RIGEL WP2913BF Pedestal Pan Water Closet c/w Seat & Cover, Standard Accessories Back Inlet, Trap Distance - Flexible:S trap 55mm, Wash Down, 4.5 Litres Dimension: 670 (L) x 365 (W) x 390 (H) mm	EACH	220.00

S/No	Description	Unit	Unit Cost (\$)
1824	RIGEL WQ1912BS Squat Pan without Foot Rest, Standard Accessories S Trap, Back Inlet, 4 Litres Dimension: 300 (W) x 305 (H) x 665 (L)mm.	EACH	100.00
1825	To Supply, install or replace flush pipes (SQUAT PAN) 1000 x 500mm	EACH	50.00
1826	To supply, install or replace RIGEL W3-R-UH03BP (WELS: 3 TICKS) Wall Hung Urinal c/w Standard Accessories Back Inlet Dimension: 350 (L) x 310 (W) x 545 (H) mm	EACH	150.00
1827	To supply, install or replace RIGEL W3-R-AFS202CR Urinal Sensor Flush Valve, Concealed Box Type c/w Manual Over- Riding Button, Cam Lock, AC 230V Dimension: Ø160mm FLUSH PIPES 300 x 300mm	EACH	330.00
1828	To Supply, install or replace flush pipes (Urinal) 300 x 300mm	EACH	30.00
1829	To supply, install or replace RIGEL PH128A Stainless Steel Jumbo Roll Toilet Tissue Holder in Hairline Finish Dimension: Ø273 (L) x 120 (W) x 275 (H) mm	EACH	65.00
1830	To supply, install or replace RIGEL JT070111 & SA8100 Angle Valve Dimension: Dia 58 (W) x 91 (L)mm Hand Bidet Sprayer with Flexible Hose Dimension: 60 (L) x 1300 (H)mm	EACH	75.00
1831	To supply, install or replace RIGEL TD101 Stainless Steel Surface Mounted Paper Towel Dispenser Dimension: 280 (L) x 102 (W) x 369 (H) mm	EACH	110.00
1832	To supply, install or replace RIGEL AHD101RCS (SATIN) Stainless Steel Semi Recessed Sensor Hand Dryer Low Noise Motor for Quiet Operation, Automatic Safty Cutt-off Timer Dimension: Ø269mm	EACH	345.00
1833	To supply, install or replace RIGEL WR104 Surface Mounted Stainless Steel Waste Receptacle Capacity: 23L (6 gallons) Dimension: 356(L) x 152(W) x 432(H) mm	EACH	115.00
1834	To supply, install or replace KEPLER W3-K-SA210 (WELS: 3 TICKS) Hose Coupling Bib Tap with 6 Points Handle Dimension: 98 (L) x 47 (W) x 95 (H) mm	EACH	40.00
1835	To supply, install or replace RIGEL KM02 Mop Sink with Standard Accessory Dimension: 425(L) x 420 (W) x 640 (H) mm	EACH	155.00
1836	To supply, install or replace KEPLER W3-K-SA209 (WELS: 3 TICKS) Long Shank Bib Tap with 6 Points Handle Dimension: 113 (L) x 47 (W) x 85 (H) mm	EACH	40.00
1837	To supply, install or replace RIGEL W3-R-1016 (WELS: 3 TICKS) Exposed Type Wall Mounted Delay Action Shower Stop Dimension: 86 (L) x Ø62 (W) x 90 (H)mm	EACH	60.00
1838	To supply, install or replace RIGEL SH08 Wall Mounted Shower Head Dimension: 115 (H) x 235(L)mm	EACH	65.00
1839	To supply, install or replace RIGEL W3-R-Q3 23051 Deck Mounted Self-closing Delay Action Tap Dimension: 110.3 (L) x 141.6(H) mm	EACH	195.00

S/No	Description	Unit	Unit Cost (\$)
1840	To supply, install or replace RIGEL WH9010BP Wall Hung Water Closet c/w Seat & Cover Standard Accessories, P Trap, Back Inlet, Wash Down, 4.5Litres Dimension: 560 (L) x 352 (W) x 300 (H) mm RIGEL BT-WH L-Chair Bracket	EACH	350.00
1841	To Supply, install or replace RIGEL PD106 Stainless Steel Recessed Paper Towel Dispenser With Waste Receptacle Dimension: 330(W) x 1397(H) x 115(L) mm	EACH	835.00
1842	To supply, install or replace RIGEL LH11095 Wall Hung Basin c/w Standard Accessories and PVC Bottle Trap Dimension: 480 (L) x 415 (W) x 190 (H)mm	EACH	75.00
1843	To supply, install or replae KEPLER W3-K-SA04L (WELS: 3TICKS) Pillar Sink Tap with Long Lever Handle Dimension: 130 (L) x 145 (H) mm	EACH	52.00
1844	RIGEL WH5086BP Wall Hung Water Closet c/w Duraplast Soft- closing Seat Cover Standard Accessories, P Trap, Wash Down, 4.5Litres Dimension: 750 (L) x 358 (W) x 398 (H) mm	EACH	495.00
1845	To supply, install or replace RIGEL BT-WH L-Chair Bracket	EACH	60.00
1846	RIGEL AFS101CFLSTDF WC Sensor Flush Valve, Concealed Box type c/w Dual Flush Button, Cam Lock, 4.5 Litres, AC 230V Dimension: 180(W) x 180(H)mm FLUSH PIPES (HANDICAPPED) 1000 x 500mm	EACH	395.00
1847	To supply, install or replace flush pipes (Handicapped) 1000 x 500mm	EACH	50.00
1848	To supply, install or replace RIGEL PH113S (SATIN) Stainless Steel Surface Mounted Paper Holder with Shelf Dimension: 267 (W) x 99 (H) x 96 (L) mm	EACH	90.00
1849	To supply, install or replace HWACO S500 GIGAN insert type stainless steel single bowl sink c/w waste plug, chain and PVC bottle trap Dimension: Overall : 650 (W) x 500 (L) mm Bowl : 560 (W) x 200 (H) x 425(L) mm	EACH	255.00

## 2. MATERIALS

S/No	Description	Unit	Unit Cost (\$)
A001	To cany out monthly maintenance & servicing of Water Pump (any types or sizes)	NO	20.00
A002	Watchdog Keypad	NO	400.00
A003	Watchdog Controller Board	NO	440.00
A004	PLC board	NO	550.00
PIPING AND FITTINGS			
To supply, install or replace inclusive testing & commissioning of the piping of any type including all pipe fitting,			
B001	15mm diameter	M	12.35
B002	20mm diameter	M	14.00
B003	25mm diameter	M	15.90
B004	32mm diameter	M	19.00
B005	40mm diameter	M	21.82

S/No	Description	Unit	Unit Cost (\$)
B006	50mm diameter	M	30.30
B007	65mm diameter	M	42.20
B008	80mm diameter	M	51.90
B009	100mm diameter	M	69.80
B010	150mm diameter	M	104.50
B011	200mm diameter	M	163.80
B012	250mm diameter	M	239.20
To supply, install replace Alarm Bell (Weather Proof)			
C001	100-150mm diameter	NO	117.00
C002	200-300mm diameter	NO	198.00
To supply, install or replace Alarm Bell (Normal)			
C003	100-150mm diameter	NO	66.00
C004	200-300mm diameter	NO	143.00
Regainting of ,12iges (Inclusive of one ,12rimer coat and two fmishingcoats of PSB approved paint)			
C0005	Up to 50mm diameter.	M	11.50
C006	Above 50mm diameter up to 80mm diameter	M	12.65
C007	Above 100mm diameter up to 150mm diameter	M	13.80
C008	200mm diameter	M	14.50
C009	250mm diameter	M	15.40
Suoolv. install or replace Valves and Strainer			
D001	13mm dia gate, check valves or strainer	NO	22.10
D002	20mm dia _gate, check valves or strainer	NO	34.00
D003	25mm dia gate, check valves or strainer	NO	42.50
D004	30mm dia gate, check valves or strainer	NO	51.00
D005	40mm dia gate, check valves or strainer	NO	58.10
D006	50mm dia gate, check valves or strainer	NO	85.00
D007	62mm dia gate, check valves or strainer	NO	90.00
D008	72mm dia gate, check valves or strainer	NO	105.40
D009	100mm dia gate, check valves or strainer	NO	125.00
E001	Submersible pump, motor single phase 230V Class F Insulation 0.5HP	NO	170.00
E002	Submersible pump, motor single phase 230V Class F Insulation 1HP	NO	200.00
E003	Submersible pump, motor single phase 230V Class F Insulation 1.5HP	NO	230.00
E004	Submersible pump, motor single phase 230V Class F Insulation 2HP	NO	270.00
E005	Submersible pump, motor three phase 415V Class F Insulation 0.5HP	NO	200.00
E006	Submersible pump, motor three phase 415V Class F Insulation 1HP	NO	235.00
E007	Submersible pump, motor three phase 415V Class F Insulation 1.5HP	NO	265.00
E008	Submersible pump, motor three phase 415V Class F Insulation 2HP	NO	290.00
E009	Submersible pump, motor three phase 415V Class F Insulation 3HP	NO	415.00
E010	Submersible pump, motor three phase 415V Class F Insulation 4HP	NO	438.00
E011	Submersible pump, motor three phase 415V Class F Insulation 5HP	NO	455.00
PUMPS SEALS			
F001	Supply, install or replace gland packing	NO	25.00
F002	Supply, install or replace southern cross pump mechanical seal SEA 021	NO	220.00
F003	Supply, install or replace southern cross pump mechanical seal SED 021	NO	280.00
F004	Supply, install or replace southern cross pump mechanical seal NFA 30	NO	180.00
F005	Supply, install or replace southern cross pump mechanical seal NFC 30	NO	240.00
F006	Supply, install or replace southern cross pump mechanical seal NFE 30	NO	240.00
F007	Supply, install or replace southern cross pump mechanical seal NFC 105Z	NO	210.00
F008	Supply, install or replace southern cross pump mechanical seal NFE IOSY	NO	240.00
F009	Supply, install or replace ebara pump mechanical seal BP 40 LPS/50 LPS	NO	120.00
F010	Supply, install or replace ebara pump mechanical seal 65 / 50	NO	220.00



S/No	Description	Unit	Unit Cost (\$)
F011	Supply, install or replace regent pump mechanical seal 24mm 21/BP 171/SP ORS	NO	150.00
F012	Supply, install or replace regent pump mechanical seal 28mm 40L- 109-T211	NO	150.00
F013	Supply, install or replace allen gwynnes pump mechanical seal 28mm 65 x 40 x 250	NO	150.00
F014	Supply, install or replace KSB pump mechanical seal 30mm Etan 40-200m	NO	150.00
F015	Supply, install or replace ritz pump mechanical seal 20mm	NO	150.00
F016	Supply, install or replace ritz pump mechanical seal 28mm	NO	150.00
F017	Supply, install or replace ajax pump mechanical seal	NO	180.00
F018	Supply, install or replace ercole marelli pump mechanical seal PL 65 x40 x200B	NO	150.00
F019	Supply, install or replace ercole marelli pump mechanical seal CMN40	NO	100.00
F020	Supply, install or replace ercole marelli pump mechanical seal PL 25 X 140	NO	120.00
F021	Supply, install or replace ercole marelli pump mechanical seal PL 50 X 32 X 125A	NO	120.00
F022	Supply, install or replace grundfos pwnp mechanical seal BP UPT 40/50-120	NO	150.00
F023	Supply, install or replace crane pump mechanical seal 30mm	NO	150.00
F024	Supply, install or replace crane pump mechanical seal 20mm	NO	150.00
F025	Supply, install or replace takk pwnp mechanical seal CPA 2065- 3070	NO	120.00
F026	Supply, install or replace takk pump mechanical seal FJ4-M-504	NO	150.00
F027	Supply, install or replace takk pump mechanical seal FJ403	NO	150.00
F028	Supply, install or replace IEL pump mechanical seal 7/8" VRB 1 Y:z - 1%	NO	150.00
F029	Supply, install or replace IEL pump mechanical seal VRC 1.5 - 2.5	NO	170.10
F030	Supply, install or replace pump end oil seal NFC 14	NO	75.00
F031	Supply, install or replace drive end oil seal NFC 13	NO	50.00
F032	Supply, install or replace pwnp end oil seal RGA	NO	75.00
IMPELLERS			
G001	Supply, install or replace bronze impeller for transfer pwnp diameter not more than 210mm	NO	500.00
G002	Supply, install or replace bronze impeller for transfer pump diameter not more than 300mm	NO	550.00
G003	Supply, install or replace bronze impeller for booster pump	NO	300.00
FLEXIBLE COUPLINGS			
H001	Supply, install or replace SNS CL 125 flexible coupling or equivalent	NO	160.00
H002	Supply, install or replace SNS CL 140 flexible coupling or equivalent	NO	207.00
H003	Supply, install or replace SNS CL 160 flexible coupling or equivalent	NO	287.00
H004	Supply, install or replace 2" rubber expansion joint or equivalent	NO	200.00
H005	Supply, install or replace 3" rubber expansion joint or equivalent	NO	250.00
H006	Supply, install or replace 4" rubber expansion joint or equivalent	NO	290.00
PUMP BEARINGS			
1001	Supply, install or replace bearing 6201 2RS	NO	43.00
1002	Supply, install or replace bearing 6202 2RS	NO	44.00
1003	Supply, install or replace bearing 6203 2RS	NO	45.00
1004	Supply, install or replace bearing 6204 2RS	NO	46.00
1005	Supply, install or replace bearing 6205	NO	56.00
1006	Supply, install or replace bearing 6205 2RS	NO	58.00
1007	Supply, install or replace bearing 6206	NO	60.00
1008	Supply, install or replace bearing 6206 2RS	NO	62.00

S/No	Description	Unit	Unit Cost (\$)
1009	Supply, install or replace bearing 6207	NO	64.00
1010	Supply, install or replace bearing 6207 2RS	NO	66.00
1011	Supply, install or replace bearing 6208 2RS	NO	68.00
1012	Supply, install or replace bearing 6209 2RS	NO	72.00
1013	Supply, install or replace bearing 6210 2RS	NO	75.00
1014	Supply, install or replace bearing 6304	NO	56.00
1015	Supply, install or replace bearing 6304 2RS	NO	58.00
1016	Supply, install or replace bearing 6305	NO	60.00
1017	Supply, install or replace bearing 6305 2RS	NO	62.00
1018	Supply, install or replace bearing 6306	NO	64.00
1019	Supply, install or replace bearing 6306 2RS	NO	66.00
1020	Supply, install or replace bearing 6307	NO	68.00
1021	Supply, install or replace bearing 6307 2RS	NO	70.00
1022	Supply, install or replace bearing 6308	NO	72.00
1023	Supply, install or replace bearing 6308 2RS	NO	77.00
1024	Supply, install or replace bearing 6309	NO	76.00
1025	Supply, install or replace bearing 6309 2RS	NO	78.00
1026	Supply, install or replace bearing 6310 2RS	NO	80.00
1027	Supply, install or replace bearing 6311 2RS	NO	84.00
1028	Supply, install or replace of bearing in 3 phase 415V motor up to 3.75kw (5 hp)	NO	140.00
1029	Supply, install or replace of bearing in 3 phase 415V motor up to 5.5kw (7.5 hp)	NO	160.00
1030	Supply, install or replace of bearing in 3 phase 415V motor up to 7.5kw (10 hp)	NO	180.00
1031	Supply, install or replace of bearing in 3 phase 415V motor up to 11kw (15 hp)	NO	200.00
1032	Supply, install or replace of bearing in 3 phase 415V motor up to 15kw (20 hp)	NO	220.00
1033	Supply, install or replace of bearing in 3 phase 415V motor up to 18.5kw (25 hp)	NO	240.00
1034	Supply, install or replace of bearing in 3 phase 415V motor up to 22kw (30 hp)	NO	260.00
1035	Supply, install or replace of bearing in 3 phase 415V motor up to 26kw (35 hp)	NO	300.00
1036	Supply, install or replace of bearing in 3 phase 415V motor up to 30kw (40 hp)	NO	350.00
1037	Supply, install or replace bearing/bushing in single phase 230V motor up to 0.75kw (1 hp)	NO	85.00
1038	Supply, install or replace bearing/bushing in single phase 230V motor up to 1.5kw (2 hp)	NO	100.00
MOTOR REWINDINGS			
1001	Remove, rewinding & reinstall of motor for submersible pump 1 phase 0.75kw	NO	207.00
1002	Remove, rewinding & reinstall of motor for submersible pump 1 phase 1kw	NO	226.00
1003	Remove, rewinding & reinstall of motor for submersible pump 3 phase 0.75kw	NO	160.00
1004	Remove, rewinding & reinstall of motor for submersible pump 3 phase 1kw	NO	197.00
1005	Rewinding and replacing of bearing/bushing of single phase, 230V, inclusive of commissioning	NO	170.00

S/No	Description	Unit	Unit Cost (\$)
1006	Rewinding and replacing of bearing/bushing of single phase, 230V, 4 poles or 6 poles squirrel cage motor with class F insulation, including removing,	NO	200.00
1007	Rewinding and replacing of bearing/bushing of single phase, 230V, 4 poles or 6 poles squirrel cage motor with class F insulation, including removing,	NO	230.00
1008	Rewinding and replacing of bearing/bushing of single phase, 230V, 4 poles or 6 poles squirrel cage motor with class F insulation, including removing,	NO	260.00
1009	Rewinding and replacing of bearing/bushing of single phase, 230V, 4 poles or 6 poles squirrel cage motor with class F insulation, including removing,	NO	330.00
1010	Rewinding and replacing of bearing of 3 phase, 415V, 4 poles or 6 poles squirrel cage motor with class F insulation, including removing,	NO	180.00
1011	Rewinding and replacing of bearing of 3 phase, 415V, 4 poles or 6 poles squirrel cage motor with class F insulation, including removing,	NO	200.00
1012	Rewinding and replacing of bearing of 3 phase, 415V, 4 poles or 6 poles squirrel cage motor with class F insulation, including removing,	NO	230.00
1013	Rewinding and replacing of bearing of 3 phase, 415V, 4 poles or 6 poles squirrel cage motor with class F insulation, including removing,	NO	290.00
1014	Rewinding and replacing of bearing of 3 phase, 415V, 4 poles or 6 poles squirrel cage motor with class F insulation, including removing,	NO	360.00
1015	Rewinding and replacing of bearing of 3 phase, 415V, 4 poles or 6 poles squirrel cage motor with class F insulation, including removing,	NO	400.00
1016	Rewinding and replacing of bearing of 3 phase, 415V, 4 poles or 6 poles squirrel cage motor with class F insulation, including removing,	NO	610.00
1017	Rewinding and replacing of bearing of 3 phase, 415V, 4 poles or 6 poles squirrel cage motor with class F insulation, including removing,	NO	710.00
1018	Rewinding and replacing of bearing of 3 phase, 415V, 4 poles or 6 poles squirrel cage motor with class F insulation, including removing,	NO	780.00
1019	Rewinding and replacing of bearing of 3 phase, 415V, 4 poles or 6 poles squirrel cage motor with class F insulation, including removing,	NO	960.00
1020	Rewinding and replacing of bearing of 3 phase, 415V, 4 poles or 6 poles squirrel cage motor with class F insulation, including removing,	NO	1,210.00
BATTERIES			
K001	Supply, install or replace 12VDC, 7AH Maintenance free battery	NO	24.00
K002	Supply, install or replace 12VDC, 24AH Maintenance free battery	NO	95.00
K003	Supply, install or replace 12VDC, 38AH Maintenance free battery	NO	140.00
PUMP SHAFTS			
L001	Supply, install or replace pump shaft size up to 1" (26mm) dia. including end key ways	NO	265.00
L002	Supply, install or replace pump shaft size up to 1 1/4" (32mm) dia. including end key ways	NO	343.00
L003	Supply, install or replace pump shaft size up to 1 1/2" (38mm) dia. including end key ways	NO	415.00

S/No	Description	Unit	Unit Cost (\$)
L004	Supply, install or replace pump shaft size up to 1 1/2" (45mm) dia. including end key ways	NO	515.00
L005	Supply, install or replace pump shaft size up to 2" (50mm) dia. including end key ways	NO	643.00
L006	Supply, install or replace pump shaft size up to 2 1/8" (65mm) dia. including end key ways	NO	758.00
L007	Supply, install or replace pump shaft size up to 2 5/8" (70mm) dia. including end key ways	NO	872.00
L008	Supply, install or replace pump shaft size up to 3" (80mm) dia. including end key ways	NO	930.00
L009	Supply, install or replace fan motor shaft up to 0.75kw (1 hp)	NO	50.00
L010	Supply, install or replace stainless steel shaft grade 304 for pump	NO	350.00
SINGLE PHASE MOTORS			
M001	Supply, install or replace single phase 230V, 4 poles/6 poles, 50 Hz motor including installation and commissioning up to 0.25 kw & necessary cabling modification.	NO	240.00
M002	Supply, install or replace single phase 230V, 4 poles/6 poles, 50 Hz motor including installation and commissioning up to 0.37 kw & necessary cabling modification.	NO	300.00
M003	Supply, install or replace single phase 230V, 4 poles/6 poles, 50 Hz motor including installation and commissioning up to 0.56 kw & necessary cabling modification.	NO	340.00
M004	Supply, install or replace single phase 230V, 4 poles/6 poles, 50 Hz motor including installation and commissioning up to 0.75 kw & necessary cabling modification.	NO	390.00
M005	Supply, install or replace single phase 230V, 4 poles/6 poles, 50 Hz motor including installation and commissioning up to 1.2 kw & necessary cabling modification.	NO	430.00
M006	Supply, install or replace single phase 230V, 4 poles/6 poles, 50 Hz motor including installation and commissioning up to 1.5 kw & necessary cabling modification.	NO	450.00
M007	Supply, install or replace single phase 230V, 4 poles/6 poles, 50 Hz motor including installation and commissioning up to 2.25 kw & necessary cabling modification.	NO	470.00
THREE PHASE MOTORS			
N001	Supply, install or replace three phase 415V, 50 Hz motor including replacement of cable lugs for motor terminals, installation and commissioning up to 0.75 kw, 4 poles	NO	260.00
N002	Supply, install or replace three phase 415V, 50 Hz motor including replacement of cable lugs for motor terminals, installation and commissioning up to 1.5 kw, 4 poles	NO	320.00
N003	Supply, install or replace three phase 415V, 50 Hz motor including replacement of cable lugs for motor terminals, installation and commissioning up to 2.2 kw, 4 poles	NO	420.00
N004	Supply, install or replace three phase 415V, 50 Hz motor including replacement of cable lugs for motor terminals, installation and commissioning up to 4 kw, 4 poles	NO	500.00
N005	Supply, install or replace three phase 415V, 50 Hz motor including replacement of cable lugs for motor terminals, installation and commissioning up to 5.5 kw, 4 poles	NO	600.00

S/No	Description	Unit	Unit Cost (\$)
N006	Supply, install or replace three phase 415V, 50 Hz motor including replacement of cable lugs for motor tenninals, installation and cmmmissioning up to 7.5 kw, 4 poles	NO	720.00
N007	Supply, install or replace three phase 415V, 50 Hz motor including replacement of cable lugs for motor tenninals, installation and commissioning up to 11.2 kw, 4	NO	900.00
N008	Supply, install or replace three phase 415V, 50 Hz motor including replacement of cable lugs for motor tenninals, installation and commissioning up to 15.0 kw, 4	NO	1,080.00
N009	Supply, install or replace three phase 415V, 50 Hz motor including replacement of cable lugs for motor tenninals, installation and commissioning up to 18.7 kw, 4	NO	1,300.00
N010	Supply, install or replace three phase 415V, 50 Hz motor including replacement of cable lugs for motor tenninals, installation and cmmmissioning up to 22.5 kw, 4	NO	1,560.00
N011	Supply, install or replace three phase 415V, 50 Hz motor including replacement of cable lugs for motor tenninals, installation and commissioning up to 30 kw, 4 poles	NO	1,872.00
N012	Supply, install or replace three phase 415V, 50 Hz motor including replacement of cable lugs for motor tenninals, installation and commissioning up to 37.5 kw, 4	NO	2,250.00
N013	Supply, install or replace three phase 415V, 50 Hz motor including replacement of cable lugs for motor tenninals, installation and commissioning up to 45 kw, 4 poles	NO	2,475.00
N014	Supply, install or replace three phase 415V, 50 Hz motor including replacement of cable lugs for motor tenninals, installation and commissioning up to 52.5 kw, 4	NO	2,730.00
RELAYS			
1	Supply, install or r Jace overload relay	NO	16.00
2	Supply, install or replace ABB overload relay T16 (0.9-1.3A) or equivalent	NO	45.00
3	Supply, install or replace ABB overload relay T16 (1.1-1.5A) or equivalent	NO	45.00
4	Supply, install or replace ABB overload relay T16 (1.3-1.8A) or equivalent	NO	45.00
5	Supply, install or replace ABB overload relay T16 (1.5-2.1A) or equivalent	NO	45.00
6	Supply, install or replace ABB overload relay T16 (4-6A) orequivalent	NO	45.00
7	Supply, install or replace ABB overload relay T16 (5.2-7.5A) or equivalent	NO	45.00
8	Supply, install or replace ABB overload relay T16 (7.5-11A) or equivalent	NO	45.00
9	Supply, install or replace ABB overload relay T16 (12-17.6A) orequivalent	NO	45.00
10	Supply, install or replace ABB overload relay T16 (18-25A) or equivalent	NO	97.00
11	Supply, install or replace ABB overload relay T25 (13.5-17.6A) or equivalent	NO	70.00
12	Supply, install or replace ABB overload relay T25 (15.5-20A) or equivalent	NO	70.00
13	Supply, install or replace time delay 60 sec, 230V	NO	94.00
14	Supply, install or replace 8 pin relay 24V	NO	20.00
15	Supply, install or replace 8 pin relay 230V	NO	26.00
16	Supply, install or replace 8 pin relay base	NO	18.00
17	Supply, install or replace 11 pin relay 24V	NO	28.00
18	Supply, install or replace 11 pin relay 230V	NO	27.00
19	Supply, install or replace 11 pin relay base	NO	19.00

S/No	Description	Unit	Unit Cost (\$)
20	Supply, install or replace latching rel(ly 8 pin 230V	NO	80.00
21	Supply, install or replace latching relay 8 pin base	NO	20.00
22	Supply, install or replace thermal overload relay 3 phase (0.12A - 0.18A) up to (4.0A- 6.0A)	NO	80.00
23	Supply, install or replace thermal overload relay 3 phase (5.6A- 8.0A) up to (22.0A- 24.0A)	NO	90.00
24	Supply, install or replace thermal overload relay 3 phase (24A - 32A)	NO	110.00
25	Supply, install or replace thermal overload relay 3 phase (30A - 45A) including terminal cables	NO	145.00
26	Supply, install or replace thermal overload relay 3 phase up to 60A -75A including terminal cables	NO	175.00
27	Supply, install or replace control relay c/w socket (8 to 12 pins) coil voltage 230V/110V/24V	NO	60.00
28	Supply, install or replace time delay relay c/w socket (8 to 12 pins) coil voltage 230V/110V/24V delay time 1-30 sec	NO	90.00
PRESSURE GAUGES			
P001	Supply, install or replace pressure gauge- suction or discharge	NO	60.00
P002	Supply, install or replace pressure gauge - suction or discharge oil type	NO	110.00
CONTACTORS			
Q001	Supply, install or replace ABB contactor B9-30-10 230V or equivalent	NO	50.00
Q002	Supply, install or replace ABB contactor BI2-30-10 230V or equivalent	NO	54.00
Q003	Supply, install or replace ABB contactor B16-30-10 230V or equivalent	NO	77.00
Q004	Supply, install or replace ABB contactor B25-30-10 230V or equivalent	NO	100.00
Q005	Supply, install or replace ABB contactor B30-30-10 230V or equivalent	NO	157.00
Q006	Supply, install or replace ABB auxiliary contact CA7-10 or equivalent	NO	16.00
Q007	Supply, install or replace ABB auxiliary contact CA7-0I orequivalent	NO	16.00
COILS			
R001	Supply, install or replace ABB spare coil KB 16, 230V or equivalent	NO	33.00
R002	Supply, install or replace ABB spare coil KB 30, 230V or equivalent	NO	45.00
SWITCHES			
S001	Supply, install or replace Cam switch 101 or eqjvalent	NO	40.00
S002	Supply, install or replace control switch B9-A200-620 or equivalent	NO	35.00
S003	Supply, install or replace duty selector switch B9-A221 or equivalent	NO	50.00
S004	Supply, install or replace changeover selector switch B9-SG0267 or equivalent	NO	65.00
S005	Supply, install or replace Saginomiya pressure switch or equivalent	NO	90.00
S006	Supply, install or replace float switch	NO	60.00
S007	Supply, install or replace high pressure switches -auto reset	NO	80.00
S008	Supply, install or rel>lance low pressure switches- auto reset	NO	80.00
S009	Supply, install or replace flow switch type BQS C130P or equivalent	NO	150.00
FUSES			
T001	Supply, install or replace mem switch fuse 315 KXB/C, 20A or equivalent	NO	130.00
T002	Supply, install or replace mem switch fuse 330 KXB/C, 20A or equivalent	NO	160.00

S/No	Description	Unit	Unit Cost (\$)
T003	Supply, install or replace mem switch fuse base 60 MBA or equivalent	NO	21.00
T004	Supply, install or replace 15A,250 rewirable fuse carrier and bases	NO	24.00
T005	Supply, install or replace 32A,HRC rewirable fuse carrier and bases	NO	18.00
T006	Supply, install or replace shield for switch fuse box	NO	15.00
T007	Supply, install or replace staggered HRC fuse link 2A	NO	15.00
T008	Supply, install or replace staggered HRC fuse link 4A	NO	15.00
T009	Supply, install or replace staggered HRC fuse link 6A	NO	15.00
T010	Supply, install or replace staggered HRC fuse link 30A	NO	16.00
T011	Supply, install or replace offset tag fuse 2A	NO	15.00
T012	Supply, install or replace offset tag fuse 4A	NO	15.00
T013	Supply, install or replace offset fuse link 20A	NO	15.00
T014	Supply, install or replace offset fuse link 20A (big)	NO	18.00
T015	Supply, install or replace offset fuse link 32A	NO	17.00
T016	Supply, install or replace offset fuse link 60A	NO	21.00
T017	Supply, install or replace fuse (all sizes)	NO	3.00
OMRON			
U001	Supply, install or replace omron 61F-G3, floatless level switch, source: 100- 220VAC, Freq:50/60Hz or equivalent	NO	310.00
U002	Supply, install or replace omron 61F-11, relay unit or equivalent	NO	100.00
U003	Supply, install or replace omron 61F-G2, floatless level switch or equivalent	NO	90.00
ELECTRODES			
V001	Supply, install or replace electrode holder 3-way	NO	47.00
V002	Supply, install or replace electrode holder 4-way	NO	51.00
V003	Supply, install or replace electrode holder 5-way	NO	55.00
V004	Supply, install or replace electrode adaptor c/w 3 core wire	NO	29.00
V005	Supply, install or replace electrode adaptor c/w 4 core wire	NO	31.00
V006	Supply, install or replace electrode separator	NO	12.00
V007	Supply, install or replace stainless steel electrode rod 6mm dia	NO	15.00
MAGNETIC CONTACTORS			
W001	Supply, install or replace magnetic contactor 3 poles or poles with 2 or more auxiliary contacts, suitable for AC 415/440V, 3 phase, 50	NO	90.00
W002	Supply, install or replace magnetic contactor 3 poles or poles with 2 or more auxiliary contacts, suitable for AC 415/440V, 3 phase, 50	NO	100.00
W003	Supply, install or replace magnetic contactor 3 poles or poles with 2 or more auxiliary contacts, suitable for AC 415/440V, 3 phase, 50	NO	120.00
W004	Supply, install or replace magnetic contactor 3 poles or poles with 2 or more auxiliary contacts, suitable for AC 415/440V, 3 phase, 50	NO	160.00
W005	Supply, install or replace magnetic contactor 3 poles or poles with 2 or more auxiliary contacts, suitable for AC 415/440V, 3 phase, 50	NO	190.00
W006	Supply, install or replace magnetic contactor 3 poles or poles with 2 or more auxiliary contacts, suitable for AC 415/440V, 3 phase, 50	NO	230.00
W007	Supply, install or replace magnetic contactor 3 poles or poles with 2 or more auxiliary contacts, suitable for AC 415/440V, 3 phase, 50	NO	320.00
FAN BLADES AND COVERS			
X001	Supply, install or replace fan blade of single phase, 230V motor up to 0.37 kw (0.5hp)	NO	32.00
X002	Supply, install or replace fan blade of single phase, 230V motor up to 0.75kw (1.0hp)	NO	38.00

S/No	Description	Unit	Unit Cost (\$)
X003	Supply, install or replace fan blade of single phase, 230V motor up to 2.02kw (3hp)	NO	48.00
X004	Supply, install or replace fan blade cover of single phase, 230V motor up to 0.37 kw (0.5hp)	NO	38.00
X005	Supply, install or replace fan blade cover of single phase, 230V motor up to 0.55kw	NO	48.00
X006	Supply, install or replace fan blade cover of single phase, 230V motor up to 0.75 kw (1hp)	NO	55.00
X007	Supply, install or replace fan blade cover of single phase, 230V motor up to 1.5 kw (2hp)	NO	65.00
X008	Supply, install or replace fan blade cover of single phase, 230V motor up to 2.2 kw (3hp)	NO	68.00
X009	Supply, install or replace fan blade of three phase, 415V motor up to 1.125kw (1.5hp)	NO	28.00
X010	Supply, install or replace fan blade of three phase, 415V motor up to 1.875kw (2.5hp)	NO	32.00
X011	Supply, install or replace fan blade of three phase, 415V motor up to 5hp	NO	38.00
X012	Supply, install or replace fan blade of three phase, 415V motor up to 7.5kw (10hp)	NO	48.00
X013	Supply, install or replace fan blade of three phase, 415V motor up to 15kw (20hp)	NO	60.00
X014	Supply, install or replace fan blade of three phase, 415V motor up to 18.5kw(25hp)	NO	80.00
X015	Supply, install or replace fan blade of three phase, 415V motor up to 30kw (40hp)	NO	100.00
X016	Supply, install or replace fan blade cover of three phase, 415V motor up to 1.125kw (1.5hp)	NO	28.00
X017	Supply, install or replace fan blade cover of three phase, 415V motor up to 2.2kw (3hp)	NO	35.00
X018	Supply, install or replace fan blade cover of three phase, 415V motor up to 4kw (5.5hp)	NO	45.00
X019	Supply, install or replace fan blade cover of three phase, 415V motor up to 7.5kw (10hp)	NO	50.00
X020	Supply, install or replace fan blade cover of three phase, 415V motor up to 18kw (25hp)	NO	75.00
X021	Supply, install or replace fan blade cover of three phase, 415V motor up to 30kw (40hp)	NO	80.00
ACCESSORIES			
Y001	Supply, install or replace 13mm dia chromium plated easy clean stopcock or bibcock with crutch or approved handle	NO	12.20
Y002	Supply, install or replace 20mm dia chromium plated easy clean stopcock or bibcock with crutch or approved handle	NO	15.00
Y003	Supply, install or replace 13mm dia x 300mm stainless steel flexible tube complete with 2 nos washers and connectors	NO	5.80
Y004	Supply, install or replace 13mm dia x 240mm stainless steel flexible tube (male & female) complete with 2 nos washers and connectors	NO	12.80
Y005	Supply, install or replace 3 core wire x 16/0076	M	1.50
Y006	Supply, install or replace 3 core wire x 40/0076	M	2.00
Y007	Supply, install or replace 3 core wire x 70/0076	M	3.00
Y008	Supply, install or replace O ring for pump	NO	55.00
Y009	Supply, install or replace capacitor for booster pump	NO	50.00
Y010	Supply, install or replace coupling bush	NO	10.00



S/No	Description	Unit	Unit Cost (\$)
Y011	Supply, install or replace terminal block 15A,25-way_	NO	25.00
Y012	Supply, install or replace terminal block 25A,12-way	NO	29.00
Y013	Supply, install or replace terminal block 60A,4-way	NO	31.00
Y014	Supply, install or replace alarm bell 100/150 mm dia for pump room	NO	90.00
Y015	Supply, install or replace alarm buzzer- 230V	NO	15.00
Y016	Supply, install or replace alarm bulb complete set	NO	52.00
Y017	Supply, install or replace flush head push button 'OFF' FOI	NO	17.00
Y018	Supply, install or replace flush head push button 'ON' FIO	NO	17.00
Y019	Supply, install or replace step-down transformer (isolated) 230/18.5V 40VA	NO	75.00
Y020	Supply, install or replace direct on line starter c/w current overload protection up to 4 kw ( 5.5 hp)	NO	100.00
Y021	Supply, install or replace indicating light c/w holder	NO	5.00
Y022	Supply, install or replace indicating light w/o holder	NO	2.00
Y023	Charger card	NO	800.00
Y024	Hot-dip galvanised coated mild steel 2"x2"x1/4" stand c/w rubber shoe (4 nos.) complete with red enamel paint finished for fire hose reel	NO	150.00
Y025	Painting of storage tank inclusive of three coating	M2	15.00
Y026	Sensor for pump, brand - Saginamiya, model - SNS-011OX or other approved	NO	101.00
Y027	Thumb-lock	NO	5.00
Y028	Direct on line starter c/w current overload protection	NO	100.00
Y029	Timer digital electronic	NO	160.00
Y030	Leather straps with padlock & keys	NO	20.00
Y031	Trip to Off-shore island inclusive of ferry & labour services exclusive of spare parts replacement	Trip	100.00
PRESSURIZED TANKS INCLUSIVE OF DIAPHRAGM			
Z001	Supply, install or replace pressurized tank 100 liter steel or fibreglass inclusive of diaphragm/membrane	NO	300.00
Z002	Supply, install or replace pressurized tank 320 liter steel or fibreglass inclusive of diaphragm/membrane	NO	630.00
Z003	Supply, install or replace pressurized tank 350 liter steel or fibreglass inclusive of diaphragm/membrane	NO	810.00
Z004	Supply, install or replace pressurized tank 400 liter steel or fibreglass inclusive of diaphragm/membrane	NO	920.00
Z005	Supply, install or replace pressurized tank 500 liter steel or fibreglass inclusive of diaphragm/membrane	NO	1,080.00
Z006	Supply, install or replace pressurized tank 750 liter steel or fibreglass inclusive of diaphragm/membrane	NO	1,296.00
Z007	Supply, install or replace pressurized tank 1000 liter steel or fibreglass inclusive of diaphragm/membrane	NO	1,600.00
Z008	Supply, install or replace diaphragm/membrane for pressure tank 100L	NO	130.00
Z009	Supply, install or replace diaphragm/membrane for pressure tank 320L	NO	450.00
Z010	Supply, install or replace diaphragm/membrane for pressure tank 350L	NO	603.00
Z011	Supply, install or replace diaphragm/membrane for pressure tank 400L	NO	640.00
Z012	Supply, install or replace diaphragm/membrane for pressure tank 500L	NO	670.00
Z013	Supply, install or replace diaphragm/membrane for pressure tank 750L	NO	740.00
Z014	Supply, install or replace diaphragm/membrane for pressure tank 1000L	NO	820.00
PUMPS			
AA01	Supply, install or replace including necessary pipework modification & testing and commissioning of lowara brand pump or 2.2kw equivalent.	NO	920.00

S/No	Description	Unit	Unit Cost (\$)
AA02	Supply, install or replace including necessary pipework modification& testing and commissioning of lowara brand pump or 4.0kw equivalent.	NO	1,260.00
AA03	Supply, install or replace including necessary pipework modification& testing and commissioning of lowara brand pump or 5.5kw equivalent.	NO	1,797.00
AA04	Supply, install or replace including necessary pipework modification& testing and commissioning of lowara brand pump or 7.5kw equivalent.	NO	1,780.00
AA05	Supply, install or replace including necessary pipework modification& testing and commissioning of lowara brand pump or 9.5kw equivalent.	NO	1,887.00
AA06	Supply, install or replace including necessary pipework modification& testing and commissioning of Ebara brand pump or	NO	1,795.00
AA07	Supply, install or replace including necessary pipework modification& testing and commissioning of Ebara brand pump or	NO	1,474.00
AA08	Supply, install or replace including necessary pipework modification& testing and commissioning of Grund-fos brand pump_ or 2.6kw equivalent.	NO	920.00
AA09	Supply, install or replace including necessary pipework modification& testing and commissioning of Grund-fos brand pump).) or 3.0kw equivalent.	NO	950.00
AA10	Supply, install or replace including necessary pipework modification & testing and commissioning of Grund-fos brand pump or 4.0kw equivalent.	NO	1,750.00
AA11	Supply, install or replace including necessary pipework modification & testing and commissioning of Grund-fos brand pump or 7.5kw equivalent.	NO	1,780.00
AA12	Supply, install or replace including necessary pipework modification & testing and commissioning of Grund-fos brand pump or 11.0kw equivalent.	NO	2,650.00
AA13	Supply, install or replace including necessary pipework modification & testing and commissioning of Teco brand pump or 7.5kw equivalent.	NO	1,780.00
AA14	Supply, install or replace including necessary pipework modification & testing and commissioning of water pump ranging from 0.10kw to 2.0kw or equivalent.	NO	800.00
AA15	Supply, install or replace including necessary pipework modification & testing and commissioning of water pump ranging from 15.0kw to 30.0kw or equivalent.	NO	3,500.00
AA16	Supply, install or replace including necessary & testing and commissioning of water pump up to 37.5kw.	NO	2,210.00
AA17	Supply, install or replace including necessary & testing and commissioning of water pump up to 45kw.	NO	2,652.00
AA18	Supply, install or replace including necessary & testing and commissioning of water pump up to 52.5kw.	NO	2,920.00
WATER DISPENSER			
1	To carry out monthly maintenance & servicing of Hot & Cold Water Dispensers or Pantry Wall Mounted Direct Piping Hot Water Dispensers	No.	15.00

S/No	Description	Unit	Unit Cost (\$)
2	Hot & Cold water dispenser floor standing type complete with accessories inclusive carbon type water filter 220V- 240V 50H/60hz single phase Cold:115W, Hot:500W model D5CH or equivalent complete with discharge/outlet drainage system from receptacle tray	No.	800.00
3	Thermostat for hot water dispenser	No.	49.20
4	Red faucet for hot water dispenser for pantry	No.	108.00
5	Upper assembly for hot water dispenser	No.	57.60
6	Spring for hot water dispenser	No.	6.00
7	Stem for tap of hot water dispenser	No.	12.00
8	Seat cap for hot water dispenser	No.	14.40
9	Tap handle for hot water dispenser	No.	14.40
10	Tap bonnet for hot water dispenser	No.	16.80
11	Tap pin for hot water dispenser	No.	4.80
12	Indicator Light for hot water dispenser	No.	3.60
13	Indicator Lens for hot water dispenser	No.	1.20
14	Solenoid valve for hot water dispenser	No.	93.60
15	Fan for hot water dispenser	No.	58.00
16	Transformer for hot water dispenser	No.	45.00
17	IC board for hot water dispenser	No.	132.00
18	Hot water faucet complete set for H & C water dispenser complete with safety device	No.	33.60
19	Reservoir float valve for H & C water dispenser	No.	204.00
20	Float assembly for H & C water dispenser	No.	42.00
21	Compressor for H & C water dispenser	No.	350.00
22	Cold water thermostat for H & C water dispenser	No.	72.00
23	Hot water thermostat for H & C water dispenser	No.	42.00
24	Divider( between tank ) for H & C water dispenser	No.	42.00
25	Hot or Cold water outlet pipe for H & C water dispenser	No.	40.00
26	Hot water tank (with heating element) for H & C water dispenser	No.	220.00
27	On / off switch for heater of H & C water dispenser	No.	18.00
28	Overheat protection (auto / manual) for H & C water dispenser	No.	36.00
29	Overload protection (for compressor) of H & C water dispenser	No.	42.00
30	Starting relay for H & C water dispenser	No.	78.00
31	Top cover (B series) for H & C water dispenser	No.	60.00
32	Top cover (D series) for H & C water dispenser	No.	132.00
33	Front lower panel for H & C water dispenser	No.	96.00
34	Front upper panel for H & C water dispenser	No.	96.00
35	LH side panel for H & C water dispenser	No.	84.00
36	RH side panel for H & C water dispenser	No.	84.00
37	Inlet hose W' (plastic) for H & C water dispenser inclusive of connectors (2 nos)	No.	8.00
38	Plastic rim for H & C water dispenser	No.	18.00
39	Plastic cup holder (code : CRB ) for H & C water dispenser	No.	30.00
40	Drip tray (complete set with outlet nozzle) for H & C water dispenser	No.	30.00
41	Insulation for reservoir for H & C water dispenser	No.	78.00
42	PCB for operating lamp (with display lamp) for H & C water dispenser	No.	60.00
43	Plastic nut for H & C water dispenser	No.	12.00
44	Copper end cap for H & C water dispenser	No.	12.00
45	Pushing and reservoir for H & C water dispenser	No.	54.00

S/No	Description	Unit	Unit Cost (\$)
46	Floor standing stainless steel water-cooler reciprocating type or rotary type, single phase hermetic compressor, power supply 220V/240V/IP/50Hz, capacity : 20-25 litres including 3 core power cable (1.5 M long) with 13A plug top model : GE123 or equivalent, (Hot and Cold)	No.	1,000.00
47	Bubbler with lock nut	No.	54.00
48	Bubbler chromium plated ( inclusive of regulator and regulator holder	No.	222.00
49	Regulator valve	No.	70.00
50	Regulator holder	No.	50.40
51	Storage water tank ( evaporator tank )	No.	168.00
52	Condenser	No.	96.00
53	'Y' strainer	No.	6.00
54	Drier - filter	No.	6.00
55	Lock nut for bubbler	No.	3.60
56	To supply, install or replace angle bracket (aluminium) of sizes 35mm x 35mm x 3mm thickness x 200mm in length inclusive of expansion bolts	No.	25.00
57	Carbon type filter model : Cuno or equivalent	No.	80.00
58	Cartridge type filter with or without housing	No.	55.55
59	Cold water faucet -lever type (complete set)	No.	30.00
60	Hot water faucet -lever type (complete set) complete with safety catch or device	No.	33.60
61	Water pressure regulator	No.	55.00
62	Waste water tray	No.	12.00
63	Fan motor bracket	No.	36.00
64	Fan motor (up to 1/2 HP )	No.	84.00
65	Fan blade	No.	12.00
66	Rubber absorber	No.	3.00
67	Overload relay	No.	19.20
68	Potential relay	No.	42.00
69	Capillary tube	No.	25.00
70	Dehydrator / strainer	No.	10.20
71	Thermostat-IC type	No.	135.00
72	Thermostat	No.	65.00
73	Selector knob	No.	3.60
74	Charging of R22 refrigerant gas	lbs	6.00
75	Supply labour, tools and transport to dismantle and remove off site / relocate, re-install dispenser/ water cooler to new location including removing service and drainage pipes work. (Installation of service pipes and drainage pipes shall be paid separately)	No.	50.00
76	Heating element c/w thermostat for hot water dispenser	No.	120.20
77	Lever switch for hot water dispenser	No.	78.00
78	Electronic pilot lamp for H & C water dispenser	No.	42.00
79	Fuse (8A) for H & C water dispenser	No.	6.00
80	Wall mounted or table top hot & cold water dispenser 5 litre/hr heating capacity 85 deg C to 100 deg C, 2200W-2500W with 3 pin plug wiring stainless steel	No.	600.00
81	Wall mounted or table top hot & cold water dispenser 7 litre/hr heating capacity 85 deg C to 100 deg C, 2200W-2500W with 3 pin plug wiring stainless steel GE7ABL or equivalent	No.	680.00

S/No	Description	Unit	Unit Cost (\$)
82	Wall mounted or table top hot & cold water dispenser 10 litre/hr heating capacity 85 deg C to 100 deg C, 2200W with 3 pin Qlug wiring stainless steel GE1OBL or equivalent	No.	760.00
83	Wall mounted or table top hot & cold water dispenser 15 litre/hr heating capacity 85 deg C to 100 deg C, 2500W with 3 pin plug wiring stainless steel GE15BL or equivalent	No.	850.00
84	Wall mounted or table top hot & cold water dispenser 20 litre/hr heating capacity 85 deg C to 100 deg C, 2500W with 3 pin plug wiring stainless steel GE20BL or equivalent	No.	910.00
85	Filter holder	No	15.00
86	Copper tubing include couplings	Set	35.00
87	Stainless steel stand for hot & cold watercoolers	No	250.00
Schedule of Labour Rate for normal working hours (0830hrs – 1800hrs)			
88	Engineer	Per Hour	32.00
89	Supervisor/Technical officer	Per Hour	22.00
90	Senior Technician / Technician	Per Hour	12.00
Schedule of Labour Rate after normal working hours (1801hrs – 0829hrs), full day for Saturday, Sunday & Public Holiday			
91	Engineer	Per Hour	40.00
92	Supervisor/Technical officer	Per Hour	30.00
93	Senior Technician / Technician	Per Hour	20.00