

COMPLIANCE TABLE FOR 18 - 23 PASSENGER BUS (ON-THE-ROAD)

S/N	TECHNICAL SPECIFICATIONS	COMPLY	NOT COMPLY
1	MAIN FUNCTION		
1.1	The air-conditioned Crew-cum-Passenger Bus ("bus") must be suitable to ferry crew and staff with luggage and portable equipment on public roads and within Singapore Changi Airport.		
2	STATUTORY REQUIREMENTS		
2.1	The supplier of the bus is responsible for ensuring that:		
a	The design and structural standards of the bus meet or exceed those of IATA (particularly AHM 951), OSHA, SAE and any other applicable standard;		
b	The bus meets the requirements for registration with Singapore Vehicle Construction and Use Rules and the requirements for registration with the Singapore Land Transport Authority; National Environmental Agency (NEA) and Changi Airport Group (CAG)		
c	The bus meets the requirements of the Singapore Aerodrome Act and the Vehicle and Equipment Construction and Use Rules.		
3	GENERAL REQUIREMENTS		
3.1	Vehicle Specifications		
a	Chassis type: Low floor and low bed type.		
b	Body type: Aluminium body.		
c	Overall external height: Must not exceed 3.20 m high.		
d	Overall external length: Not more than 10.0 m.		

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e	Internal headroom: Minimum 2.0 m high.			
f	Overall width: At least 2.0m.			
g	Engine capacity: At least 3,000 cc or above.			
h	Fuel type: Diesel or Hybrid			
i	Seating Capacity: Between 18-23 passengers.			
j	Seating Configuration: front-facing seats with 3 point seat belts (approved by LTA) and supported from and secured to the floor of the bus.			
k	Transmission: Automatic type.			
l	Steering: Powered type			
m	Air-conditioning: Reputable make with local after-sales technical and spares support.			
n	PA and sound system: To be provided with microphone.			
o	Doors:			
	i	Main door width to be at least 1.1 m wide.		
	ii	Emergency door valve or switch to be provided on the inside and outside of bus.		
	iii	Interlock to be provided to prevent the bus from moving if the doors are not completely closed. The system could be override in case of malfunction.		
	iv	Indicator light and buzzer to warn passengers when doors are opening or closing.		

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	v	Door open indicator light to be provided on driver's console.		
	vi	Doors to be complete with sensitive edge so they would automatically open when come in contact with passenger or object.		
p	Flooring material: Wear resistance, easy to maintain and non-slip type.			
q	Windows: Powered front windows. Rear windows to be mechanically locked and could be opened with special key/tool. Tinted glass to be provided (according to LTA requirements).			
r	Mirrors: Large side (left/right) and rear view mirrors. Additional mirror to view lower rear section of the bus when reversing.			
s	CCTV cameras: Front and Rear views to be provided and one facing driver. Preferably compatible with our existing fleet of cameras. Cameras to be activated when engine is turned on. Recording only starts when engine is ON and recording stops when engine is OFF and recording on hard disk (with date/time stamp and minimum storage of 7 days data).			
t	Reverse camera: To be provided complete with 7-inch monitor for the driver.			
u	Reverse sensors: 4 units (2 on the rear and 2 by the side).			
v	Hand grips and bar: To be provided at regular intervals			
w	Rain guards: To be provided above all windows and doors.			
3.2	Personnel Safety			
3.2.1	The bus must be convenient and safe to use. Operation and control functions to be performed must be simple to minimise possible errors.			
3.2.2	Convenient means for emergency system shutdown must be provided. Mushroom head type emergency switch to be used.			

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3.2.3	The bus must provide adequate means for ensuring the safety of maintenance personnel. Devices such as disconnect switches, circuit breakers, overload control relays and lockouts, both electrical and mechanical, must be provided to prevent the accidental activation of those positions of the system under operation maintenance. These devices must be located in areas where access is restricted to maintenance personnel.		
3.2.4	All exposed rotating parts, like drive pulley and shaft, must be guarded.		
3.3	Rust Proofing		
3.3.1	The whole vehicle body and undercarriage must be treated with rust proofing of a reputable system with certificate.		
3.4	Paintwork and Logo		
3.4.1	The vehicle must be treated with anti-corrosive coating primer and painted according to SATS' corporate colour scheme and with SATS logo on both sides.		
3.5	Lighting And Other Devices / Fixtures		
3.5.1	The following must be provided:		
a	LED flashing amber beacon (B16) roof light (approved by SAS before installation)		
b	speed warning device with sound and light		
c	head and tail lights (front/rear) and reflectors		
d	signal lights (front/rear/sides)		

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e	all interior lights to be of LED type with preference for tube type.		
f	reverse light with buzzer		
g	engine hour-meter		
h	emergency door cover		
i	all safety decals, e.g. Speed Limit (within airport ramp and on public roads), No Smoking, Green Disc and etc		
4	MANUALS AND ACCESSORIES		
4.1	The following items are to be provided:		
4.1.1	<u>Per Vehicle:</u>		
a	One (1) 5 lbs fire extinguisher (complete with bracket)		
b	One (1) spare wheel assembly		
c	Four (4) sets of keys		
d	One (1) set of hand tools		
e	One (1) first-aid box		
f	One (1) safety triangle warning sign		
g	Two (2) emergency hammer for breaking glass (complete with bracket)		
4.1.2	<u>Per Order:</u>		

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a	Six (6) sets of operator's handbook		
b	Six (6) sets of workshop repair manuals		
c	Six (6) sets of operating manuals		
d	Six (6) sets of parts manuals		
e	Four (4) sets of accurate "as built" drawings		
f	Four (4) sets of schematic on electrical, pneumatic and hydraulic systems		
g	Recommended spares stocking list		
5	WARRANTY		
5.1	The main chassis shall have a warranty period of not less than ten years.		
5.2	All other parts that failed prematurely will be cover by the supplier for a period of 24 months or more.		
6	TENDER SUBMISSION		
6.1	Catalogues/brochures are to be attached with the tender submission. Supplier is required to provide details for all non-compliance with the above requirements.		