


CT2111Q027 Hydraulics hose replacement program for JCPL/MDL and Transporter GSE fleet  
Flexible Hydraulic Hose replacement requirements

Title:	Supply & Install Hydraulic hoses for Loaders, MDLs and Transports for <b>Three (3) years</b> and option of another 2 years.
Number of units:	<ul style="list-style-type: none"> <li>a. JCPL Loaders 75 units.</li> <li>b. MDLs 10 units</li> <li>c. Transporters 56 units</li> </ul> The finalized number of equipment units will be at SATs' discretion to Order
Unit models:	<ul style="list-style-type: none"> <li>a. JCPL Loaders: 29 Airmarrel brand units, 34 WeiHai units. &amp; 12 JBT units</li> <li>b. Main Deck Loaders (MDL): 10 x Aimarrel brand units</li> <li>c. Transporters: 40 TLD units, 08 Airmarrel &amp; 08 units JBT</li> </ul>
Steel pipe conversion:	Wherever possible, fixed flexible hydraulic hoses (ie non-flexing) should be converted to steel hydraulic piping.
Hose Specifications:	<p>All the flexible hoses, fittings, and workmanship shall have <b>6 months warranty</b> after commissioning.</p> <p>Max operating pressure: 6500 psi (High-pressure hose rating) Min operating pressure: 5000 psi (Low-pressure hose rating)</p> <p>The operating hydraulic fluid is <i>Hito HDM 68</i> and all supplied components shall be compatible with this hydraulic fluid (&amp; its other equivalents).</p> <p>All flexible hoses shall come with <b>non-skive</b> type <b>one-piece</b> coupling, pressure tested and <b>protective sleeves</b> provided for both ends of all flexing (moving) hydraulic hoses.</p> <p>Example:</p> 
Phase One: First Article examination	<p>For each Equipment Type and OEM Brand, the appointed Contractor/s shall have five days for onsite examination (<i>reverse engineering</i>) and measurement of all hydraulic hoses and hydraulic pipping at SMC: 34 Changi North Crescent Singapore 499614 before applying their quoted Lead Time for production and delivery of the required replacement hoses on each ordered Equipment Unit.</p> <p>Therefore there are 7 x 5days = <b>35days</b> in total dedicated for Phase One: First Article examination.</p>
Phase Two: Program runs Allowed working time on each equipment Unit after the 'First Article examination'.	<p>Maximum <b>(20) working</b> days to complete replacement and commission (test) each equipment Unit.</p> <ol style="list-style-type: none"> <li>1. All works on replacement of hoses/Install pipes will be carried out at SMC.</li> <li>2. During the replacement exercise any other parts / components required outside of the agreed scope will be done by SATS workshop personnel.</li> <li>3. Contractor shall perform functional tests before hand over of the Equipment.</li> </ol>
Liquidated Damages (LD)	For any delays to completion and commissioning of the equipment Units beyond the first 20 working days, the Contractor shall be held liable to pay SATS Airport Services Pte Ltd <b>\$50.00 for each day delayed.</b>