


Specification for Tank mounted screw air compressor working pressure 7 kg/cm<sup>2</sup>

(i)	<b>Major Parameter</b>	<ol style="list-style-type: none"> <li>1. Capacity (FAD): 1.64 m<sup>3</sup>/min (58 cfm) +6%</li> <li>2. Working pressure: 7 kg/cm<sup>2</sup></li> <li>3. Max operating pressure: 7.5 Kg/cm<sup>2</sup> (107 psi)</li> <li>4. Drive: 11 KW Sq. cage induction Motor, 415V±10%, 3 Phase, 50 Hz ± 5%.</li> <li>5. Starter: DOL Starter.</li> <li>6. Tank capacity: 270 ltrs.</li> <li>7. Compressor Should have Noise level not more than 78±5 db</li> <li>8. Safety valve with connection and compressor should have Pre-filter for air intake and separator element</li> <li>9. Compressor should be supplied along-with suitable oil of standard brand last for 9000 Hrs/ 2 years.</li> </ol> <p><b>Control &amp; Instruments:</b></p> <ol style="list-style-type: none"> <li>1. Pkg. Air discharge pressure gauge.</li> <li>2. Total hour counter.</li> <li>3. High temperature trip switch (85-100 °C).</li> <li>4. Motor overload relay with single phase preventer.</li> <li>5. Blow down solenoid valve.</li> <li>6. Auto start / stop feature.</li> <li>7. Emergency stop switch</li> <li>8. Re-set button.</li> <li>9. Power on indication</li> <li>10. On/Off selector switch</li> </ol> <p><b>Trip indicators:</b></p> <ol style="list-style-type: none"> <li>1. High air temperature trip (85-100 °C).</li> <li>2. Motor overload trip (14 Amp).</li> </ol> <p><b>Electrical :</b> High efficiency EFF2 dual shaft motor 415 V, 50 Hz, 3 Phase, TEFC, Squirrel cage induction motor, IP55 motor protection with class F insulation.</p> <p><b>Air Receiver :</b> Material of construction IS-2062 Pipe is 1239 PT-I Heavy / IS 3589 ERW Coupling IS-2062-300 Flanges: IS 2062</p> <p><b>Measurement standard:</b> All performance measurements are as per IS 5456-1985</p>
(ii)	<b>Spares</b>	<p>Following spares should be supplied along-with compressor:</p> <ol style="list-style-type: none"> <li>1. Blow down solenoid valve – 02 Nos.</li> <li>2. Oil seal for compressor – 02 sets.</li> <li>3. Rubber ‘O’ rings and gaskets – 02 sets.</li> <li>4. Oil separator elements – 02 Nos.</li> <li>5. Oil filters element – 02 sets.</li> </ol>
(iii)	<b>AMC requirement</b>	Not required
(iv)	<b>Warranty</b>	24 months from the date of commissioning.
(v)	<b>SPECIAL REQUIREMENT:</b>	
	A.	Machine should be complete and functional in all respect.
	B.	Machine should incorporate all safety devices so as to provide complete protection to the operating and maintenance staff.
	D.	Firm should attach product catalogue along-with offer.
	E.	Foundation drawing, Mechanical drawing, electrical drawing, electrical load & circuitry should be submitted giving machine weight, overall dimensions, and foundation details.
	F.	Technical experts from manufacturer should give at least one week training to the operating and maintenance staff nominated by the consignee.

  
 (S.K.Sethiya)  
 Dy.CME(P&B)

**Annexure-II**

To be submitted by the firm along with offer.

Tender specification	Specification quoted by the firm	Deviation if any with clarification