


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

(i)	<b>Major Parameter</b>	<p>1. Capacity (FAD): 1.64 m<sup>3</sup>/min (58 cfm)                  2. Working pressure: 7 kg/cm<sup>2</sup>                  3. Max operating pressure: 7.5 Kg/cm<sup>2</sup> (107 psi)                  4. Drive: 11 KW Sq. cage induction Motor, 415V±10%, 3 Phase, 50 Hz ± 5%.                  5. Starter: DOL Starter.                  6. Tank capacity: 270 ltrs.</p> <p><b>Control &amp; Instruments:</b></p> <p>1. Pkg. Air discharge pressure gauge.                  2. Total hour counter.                  3. High temperature trip switch (85-100 °C).                  4. Motor overload relay with single phase preventer.                  5. Blow down solenoid valve.                  6. Auto start / stop feature.                  7. Emergency stop switch                  8. Re-set button.                  9. Power on indication                  10. On/Off selector switch</p> <p><b>Trip indicators:</b></p> <p>1. High air temperature trip (85-100 °C).                  2. Motor overload trip (14 Amp).</p> <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>Minor Parameter</b>	<p>1. Noise level: 78 ± 2 db                  2. Fittings:                  a. Safety valve with connection.                  b. Door type cast steel body canopy with SS 410                  c. Zinc plated CS spring pressure gauge with connection block.                  d. 4" Dial bourdon type C with connection isolation valve.</p>
(iii)	<b>Concomitant accessories</b>	<p>1. ELGI or equivalent DURA PLUS synthetic last for 9000 Hrs/ 2 Years .                  2. Separator element is spin on type &amp; outside separator tank.                  3. Fault detection and trips to be provided.                  4. Pre-filter to be provided for air intake.</p>
(iv)	<b>Optional accessories</b>	Nil
(v)	<b>Spares</b>	<p>1. Blow down solenoid valve – 02 Nos.                  2. Oil seal for compressor – 02 sets.                  3. Rubber 'O' rings and gaskets – 02 sets.                  4. Oil separator elements – 02 Nos.                  5. Oil filters element – 02 sets.</p>
(vi)	<b>AMC requirement</b>	Not required

(vii)	Warrantee requirement	24 months from the date of commissioning or 30 months from the date of supply.
(viii)	<b>SPECIAL REQUIREMENT:</b>	
A.	Machine shall be complete and functional in all respect.	
B.	Machine shall incorporate all safety devices so as to provide complete protection to the operating and maintenance staff.	
C.	Good engineering practices shall be followed in design, manufacturing and commissioning of the equipment.	
D.	Firm shall supply product catalogue/drawings in support of their offer.	
E.	Foundation drawing, Mechanical drawing, electrical drawing, electrical load & circuitry shall be submitted giving machine weight, overall dimensions, and foundation details.	
F.	Technical experts from manufacturer will fully and adequately give atleast one week training to the operating and maintenance staff nominated by the consignee.	

  
DME (D)/NKJ

  
Sr.DME (D)/NKJ

**Annexure-II**

To be submitted by the firm along with offer-

Tender specification as per Annexure-I	Specification quoted by the firm	Deviation if any with clarification

Signature of firm's