

**Modified Technical Specification for Supply of Air Compressor  
(Rotary Screw Air Compressor Unit)**

Sr.	Description	Tender Specifications
1.1	Compressor type	Tank Mounted Electric powered Single Stage Contact Cooled Rotary Screw Air Compressor with Air Dryer , Pre filter & After Filter
1.2	Capacity( Free air delivery)	50 cfm or more (performance in accordance with ISO 1217 1996 annex C)
1.3	Compressor discharge Pressure	10 bar
1.4	Package air unit discharge Pressure	9 bar or more
1.5	Noise level	68 db at one meter or less as per ISO 2151:2004
1.6	Electrical Motor	11 KW / 15 HP Dual shaft motor with cooling blower mounted on main shaft. TEFC, Squirrel cage induction motor suitable for 3 phase, 415 Volts $\pm 10\%$ , 50Hz. Protection class IP 55 and Insulation class 'F' with class B temperature rise.
1.7	Air Dryer	Pressure dew point of $+3^{\circ}$ C at reference ambient temperature of $20^{\circ}$ C with Cycling refrigerated air dryer with R-134Arefrigerant.
1.8	Air Filter	Two stage final filtration consisting of 1 Micron and 0.1 Micron efficiency filter.
1.9	Control and Instrumentation	Air Dryer & Line Filter Integrated Compressor Spin on oil filter, Thermal valve, Closely coupled Air end Separator Module Spin On, Separator, Integrated MPCV, Centrifugal Cooling Fan Pressure relief valve Integrated, Air/Oil cooler, Poly-V belt drive with easy to adjust belt tension control Package air, discharge pressure gauge, Total Hour counter, High Temperature trip switch Motor over load relay, Blow down valve, Load/unload Valve Pressure switch, Auto start/stopfeature, Emergency stop switch, Reset button On/Off , selectorswitch

1.10	Air receiver	Capacity 270 liter $\pm 5\%$ Air receiver manufactured as per BS 5169 / IS 2825 standard or ASME sec VIII Div. 1 Receiver Tank fitted with Safety Valves, pressure gauge, and pressure regulator valve & drain ball valve
1.11	Quantity	One Unit
1.12	Warrantee	1 year + Performance bank guarantee Required for 1 year
1.13	Accessories	Digital display unit: 1 no. Feature- <ul style="list-style-type: none"> <li>• Pressure indicator with min. and max.pressure</li> <li>• Pressure range 0 to 16Bar</li> <li>• 230 VACsupply.</li> <li>• 4 digit display, display size 64mm or higher</li> </ul>
1.14	Document required	<ul style="list-style-type: none"> <li>• Operation and maintainsmanual</li> <li>• List of spare parts required formaintenance</li> </ul>
1.15	Coolant	Dam type coolant tank required for wet start
1.16	motor service factor should not be more than 1.1	Confirm by vendor with data.
1.17	Drier	mounted on 270Liter tank with standalonestandalonehorizontal receiver with drier & pre filter for easymaintenance.
1.18	Service facility	Required locally with contact details
1.19	Vibration	Compressor will be check for vibration with vibration meter as per ISO Standard.
1.20	Experience	Attach experience of supplying such equipments in Reputedorganization.
1.2	Installation, training, trial & demo As per above data.	In the scope of vendor.

## Modified Technical Specification for Air Compressor

2020-21/06/05. Air Compressor			
S. no.	Items	Unit	Specification
1	Discharge Pressure	Bar	30
2	Air Flow	CFM	Up to 140
3	Motor Rating	HP	Specify
4	Compressor Technology	--	Specify
5	Auto power cut off	--	Specify and Quote
6	Lubrication	--	Specify
7	No. of Stages	--	Specify
8	Cooling Technology	--	Specify
9	Receiver Tank Capacity	litre	500 and above