

ANNEXURE

NO. SCR/VENT/2021/TEST/02

16.05.20

Description: Source of Medical air output 3 to 6 bar,40 LPM (As per Sketch 02)

S.N.	MATERIAL DESCRIPTION	QPS
	Scope of Work:	
	Source of medical air suitable for 8 Ventilators Testing 100% Oil-Free Compressed Air System Suitable for Medical / Hygienic & Critical Air Utilities Supply, Installation & Commissioning of Medical/Instrument Compressed Air System with components and their detailed Technical Specifications given below. The Scope of Work also includes all necessary piping, fittings, and interconnections, all Electrical Work, Material, Connections and other required material.	
1.	OIL FREE AIR COMPRESSOR Mounting: Base Frame Mounted with Vertical Air Receiver Technical Specifications: Design: 100 % Oil-Free, Oil Less, Non Lubricated, Reciprocating, Air Cooled Maximum Pressure: 8.5 bar, 123 psi Piston Displacement Capacity : 35.9 CFM, 1016 LPM FAD (Free Air Delivery): 25.1 CFM, 711 LPM Number of Cylinder(s): Two Number of Stage(s): Two Motor Ratings: 7.5 kW (10 HP), 3 Phase Air Receiver: - o Capacity: 500 Liters (Vertical) - o Design Code: ASME Section VIII Div. 1 - o Max. Allowable Working Pressure: 10 bar, 145 psi - o Hydrostatic Test Pressure: up to 15 bar, 218 psi Standard Equipment: A Base Frame mounted Oil Free Air Compressors containing Heavy Duty Cast Iron Pump with Efficient Intake Filters, Aerodynamically Designed and Balanced Compressor and Motor Pulleys set, Deep Finned Air Cooled Inter Stage Cooler and Inter Stage Safety Valves, Pressure gauge, Tank Safety valve, Non Return Valve, Suitable / Necessary Piping between Compressor & Air Receiver, Air Delivery Valve, Manual Condensate Drain Valve with fully Automatic On-Off Control, High Performance and Energy Efficient Electric Motor, Suitable Electric Starter, Motor Slide Rails, V Belt set, Belt Guard & necessary hardware items.	1 Set
2.	COMPRESSED AIR DRYER Type: Refrigeration Type Technical Specifications: Compressed Air Inlet Capacity: 20 CFM Pressure Dew Point: 3 ° C Max. Pressure: 10 bar	1 No

Prepared by

Checked by

Approved by

Vijay Kumar Maurya
Sr Engr/SWM

Vaibhav Dixit
Mgr/CEE

Rajesh Sharma
Sr DGM/SWM

3.	<u>THREE STAGE FILTRATION SYSTEM / STATION</u> Capacity: 60 CFM Description: A High efficiency sub Micronics and coalescing three stage compressed air filters with differential pressure gauge for the removal of atmospheric contaminants from Compressed Air such as water and oil aerosols, solid particulates, some bacteria, some viruses, etc. Comes with an Float type Automatic Drain Valve. <u>Technical Specifications:</u> Flow Rate: up to 60 CFM Line Size: ½" <u>Filtration:</u> First Stage: 5 µm Second Stage: 1 µm Third Stage: 0.01 µm Suitable for Breathing Air and use with Compressed Air utilizing Medical Devices & Instruments.	1 Set
4	<u>PRESSURE REGULATING STATION</u> Description: It reduces the pressure of the Compressed Air that goes through it, and is used to obtaining a regulated and constant Pressure value at its outlet. Comes with a Pressure Gauge for complete and precise control of Compressed Air Pressure. Technical Specifications: Line Size: 1/2" Regulating Pressure Range: 0.5 ~ 10 bar	10 Sets

Prepared by

Vijay Kumar Maurya
Sr Engr/SWM

Checked by

Vaibhav Dixit
Mgr/CEE

Approved by

Rajesh Sharma
Sr DGM/SWM