

ANNEXURE TO TENDER NO. DPS/MRPU/1/4/2948

Technical Specification for portable (Bench Top) Trace Oxygen Analyzer

1.0	Item Description	:	Portable (bench top) trace Oxygen analyzer
2.0	Quantity required	:	4 Nos
2.0	Process Medium	:	Inert gases : Argon, Nitrogen
3.0	Power Supply	:	230 VAC 50Hz, $\pm 10\%$
3.0	Measuring Range	:	0 to 200 ppm.
4.0	Accuracy	:	+/- 2 % or better of full scale range
5.0	Resolution	:	0.1 ppm or better
6.0	Measuring Electrode	:	Electrochemical (Maintenance free electrode)
7.0	Process environment	:	Inert gases : Argon, Nitrogen (there will be no traces of dust/toxic or corrosive gases)
8.0	Calibration range	:	0 to 25 % for (Air cal.)
9.0	Response time	:	within 25 seconds for 90% output range
10.0	Operating Temp	:	25 °C to 50 °C Max
11.0	Operating pressure	:	at Atmospheric pressure
12.0	Sampling Gas Pressure	:	100mbar to 1000mbar
13.0	Display	:	3-½ Digit with back light
14.0	Wetted parts material	:	SS304
15.0	End connection for inlet & Outlet ports & Size	:	Suitable to connect 1/4" OD SS tube.
15.1	Port Material	:	SS 304
16.0	Cabinet	:	The instrument shall be completely integrated as a single unit
17.0	Signal Output for re- transmission``	:	4 to 20 mA (or) 0 (zero) to 1V
17.1	Output load	:	600 Ohms (Max)

18.0	Output contact	:	Adjustable Alarm output with indicating light
18.1	No.of Contact	:	Through single change over NO/NC relay with potential free contact
18.2	Contact rating	:	5 Amps, 250 V AC (Max)
19.0	Flow measurement	:	Rotameter to measure flow along with in-built needle valve to control the flow precisely.
20.0	Working environment	:	The instrument will be used for industrial purpose and in safe indoor area

General Terms & Conditions:

1.0	<u>Acceptance criteria</u>		
1.1	Item will be accepted only after delivery and functionality testing of material at site.		
2.0	<u>Terms and conditions</u>		
2.1	Detailed catalogue for the offered model shall be uploaded with respect to the above mentioned specification along with their offer.		
2.2	OEM/Authorized dealer certificate shall be uploaded along with the offer		
3.0	Validity of offer	:	Offer must be valid for a minimum period of 60 days
4.0	Delivery schedule	:	Within 60 days from the date of purchase order.