



CONTROL & INSTRUMENTATION  
ENGINEERING

BHEL HARIDWAR

BHEL DOCUMENT NO. 4180-00-OC-052

REV - 00

DATE: 05.05.2021

MATERIAL CODE : W96326300010

**Technical Specification for Oxygen Purity Meter for Oxygen Concentrator**

Party to confirm the offered Oxygen Purity Meter with minimum details as follows:

**Online oxygen purity meter (%) level**

- 1) Sensor Range O - 100% (With Resolution 0.1 %)
- 2) Measuring Principle - Electrochemical
- 3) Accuracy -  $\pm 1 - 1\%$  (Full Scale)
- 4) Expected Operating life of Cell -  $0.8 \times 10^6$  % O<sub>2</sub> hours at 20 deg. C (more than 12 Months)
- 5) Response Time -  $T_{90} < 15$  sec With 100% O<sub>2</sub>
- 6) Operating Temperature range - 20 to +50 deg. C
- 7) Temperature Compensation -  $\pm 2\%$  variation 0- 40 deg. C
- 8) Humidity - 95 % non-condensing
- 9) Long term drift  $< 5\%$  over 1 year 100% O
- 10) Display -  $3\frac{1}{2}$  digit L.E.D.
- 11) Inlet Outlet Fitting -  $1/8"$  or  $1/4"$  Compression
- 12) Power Supply - 230 Volt AC
- 13) Cabinet - Panel Mount DIN (96x192x160)

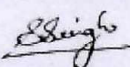
**Other requirements:**

- 1) Party to comply BHEL packing specification ST33002 for packing.
- 2) QP to be furnished by vendor.
- 3) Party to submit following test certificated to BHEL:
  - 2.1) Calibration report
  - 2.2) Functional testing report
  - 2.3) Any other test report (as applicable)
  - 2.4) COC may be furnished by the vendor (for catalogue items) for 2.2 & 2.3.
- 4) Warranty/Guarantee shall be 12 months from the date of commissioning or 18 months from date of shipment.

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PROJECT NAME: 500LPM VPSA MO2 PLANT