

BHARAT HEAVY ELECTRICALS LIMITED BHOPAL

SPECIFICATION NO.:

ITEM NO:

LOCATION: Occupational Health Services, BHEL, BHOPAL

1. SPECIFICATION FOR: Indoor air Quality Monitor QTY: 01 NUMBER

REQUIREMENT/FUNCTION: It is required to measure Indoor air quality in Air conditioned halls/rooms, closed buildings, CNC work rooms , Operation Theatres, stores and Labs etc .

2 SPECIFICATION/FEATURES:

- 2.1: Measuring Range : Should meet the standards of OSHA or ACGIH.
It should measure: Carbon dioxide, Temperature, Relative humidity & Dew Point as standard parameters. **and Oxygen Sensor to monitor Oxygen %.**
- 2.2 Storage condition : -10 degree to 50⁰ C and 0-90% Humidity.
- 2.3 Ideal for Indoor monitoring.
- 2.4. simple field calibration.
- 2.5 The equipment should be a state of art instrument incorporating following features.:
 - 2.5.1. a. **DATA COLLECTION :** Programmable Storage Intervals, “Snap-Shot” & Continuous Data logging, Date and Time Stamping, Automatic Start/Stop & Secure Mode
 - b. **PHYSICAL:** Hand-Held Monitor, Portable/Area Monitor, Backlit Display, Lockable Enclosure.
 - c. **POWER OPTIONS:** Disposable rechargeable Batteries or Adaptor - AC Power.
 - d. **DATA PRESENTATION:** Displays Current & Prior Test ,Outputs Reports Directly to Printer, Transfers Data to PC .
- 2.5.2 : Should have error free visual indication
- 2.5.3: Should have Auto ranging and small and robust housing
- 2.5.4: a. Should have facility for optional Gas sensor including TWA and STEL for toxics .
 - b. Linear DC Voltage (Third Party Sensors)
- 2.5.5: Should have Auto power down feature extends battery life.
- 2.5.6: Should have Easily available battery/cells
- 2.5.7 : Should have data logging feature..
- 2.5.8: Should have display of selected measurement units..

3.0 SCOPE OF SUPPLY

The equipment should consists of following items:

- a. Easily available battery and standard sensor/probe .
- b. Set of four Operational and maintenance manual with circuit diagram.
- c. Installation, commissioning, training and proving of cost.
- d. Calibration certificate at the time of equipment supply for at least 1 year validity.

4.0 Quoted equipment should be proven complete and continuous satisfaction with a Commitment to Quality product design.

5.0. Supplier must quote all material facility/services required for satisfactory installation and commissioning of equipment. BHEL scope if any to the mentioned specifically anything not mentioned specifically but required for satisfactory commissioning / proving of equipment. will have to be arranged by supplier.

6.0. Equipment should meet all our general clauses enclosed and bidders must furnish point to point replies against all the points of our above specification and general clauses enclosed failing which their offer may not be considered