



TENDER NOTICE NO.: IESTS/MinE/38/01/2018-19

Date: 21.12.2018

Department of Mining Engineering wants to purchase the following equipment for Laboratory.

- (i) ITEM No. 01 : Air Quality Monitoring Device - 02 Nos --- for Mine Environment Lab.

Reputed vendors are advised to send their quotations for this item (the Tender Number and Item Name should be marked over the envelop) to the Head of the Department of Mining Engineering by **15.01.2019**. The vendors are also advised to send their companies registration certificate copy of GST certificate, copy of PAN card and Income Tax clearance certificate for the last three years accompanying the quotation. The vendors are also requested to attach the manufactures catalogue of the item quoted.

Tender application fee (Non refundable) Rs. 200/- (Rupees Two Hundred only) to be paid by Demand Draft in favour of Registrar, IEST, Shibpur payable at Kolkata.

The details specification of the item is as given below.

- (i) **ITEM No. 01**

Air Quality Monitoring Device

The IOT(optional) enabled monitor provides a real-time data stream of Indoor Air Quality data (Particulate pollution) PM2.5, PM10, Temperature, Pressure, and Humidity will be displayed on 1.8" Colourful TFT screen & can be downloaded to .csv format if IOT enable service is chosen.

Specification:

- **Laser Particle Counter**
Measurement parameters: PM2.5, PM10 in $\mu\text{g}/\text{m}^3$ and US EPA AQI
Particulate Matter 2.5(PM2.5) Fine particulate Range: 0.0-999.9 $\mu\text{g}/\text{m}^3$
Particulate Matter 10 (PM 10) Course particulate
Range: 0.0-1999.9 $\mu\text{g}/\text{m}^3$
Minimum resolution of $<0.3 \mu\text{m}$
Relative error Mamimum of 10% and $\pm 10\mu\text{g}/\text{m}^3$
Operating Temperature Range -10 degrees C to +50 degrees C
Operting Humidity Maximum Limit 70% RH
Calibrated for local species
- **Temperature**
Range: -40 – 123 °C
Accuracy: +/- 0.4 °C
Power: 5uW standby, 3mw active
Response: 8s (up to 20 minutes to balance if moved out of location of excessive heat 35C+)
- **Relative Humidity**
Range: 0 – 100% humidity
Accuracy:
+/- 3%;
+/-4% up to 80% RH
+/- 5% up to 90% RH
Power: 5uW standby, 3mw active

Number of Quantity : 02 Nos