



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

Date: 07.02.2019

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 **15.02.2019 at 14:00**. 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. *Those who applied earlier and submitted requisite tender application fee against original tender, are exempted for submission of tender fee against this re-tender.*

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**

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HOWRAH-711 103



**Department of Mining Engineering**  
**Indian Institute of Engineering Science and Technology, Shibpur**  
(An Institute of National Importance)

RE-TENDER NOTICE NO.: IESTS/MinE/38/R/02/2018-19

Date: 07.02.2019

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

- (i) ITEM No. 01 : Hallow Cathode Lamps - 03 Nos. ---- for Environmental Engineering 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 **15.02.2019 at 14:00**. 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.

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The details specification of the item is as given below.

- (i) ITEM No. 01

**HALLOW CATHODE LAMPS**

**Specification:**

- Data Coded Single Elements Hallow Cathode Lamps: For the following elements – Gold, Chromium and Uranium
- The lamps of reputed make, should have guaranteed life of 5000 mA hour.
- The lamps should be compatible with iCE 3500 Atomic Absorption Spectrophotometer

**Number of Quantity : 03 Nos**

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RE-TENDER NOTICE NO.: IESTS/MinE/38/R/03/2018-19

Date: 07.02.2019

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

(i) ITEM No. 01 : Pocket Stereoscope - 10 Nos.--- for Gioinformatics Laboratory

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 **15.02.2019 at 14:00**. 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.

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The details specification of the item is as given below.

(i) ITEM No. 01

**POCKET STEREOSCOPE**

**Specification:**

- Product should features 4x Magnification
- Adjustable interpupillary range 50 mm to 70 mm.
- Precision ground meniscus lenses
- Adjustable interpupillary range 50 mm to 70 mm
- Field of view 125 mm x 125 mm
- All metal cast alloy frame with fold-away wire frame legs
- Supplied with case
- Warranty : One year

**Number of Quantity : 10 Nos**



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RE-TENDER NOTICE NO.: IESTS/MinE/38/R/04/2018-19

Date: 07.02.2019

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

(i) ITEM No. 01 : Mirror Stereoscope - 07 Nos. --- for Survey Laboratory.

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 **15.02.2019** at **14:00**. 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. *Those who applied earlier and submitted requisite tender application fee against original tender, are exempted for submission of tender fee against this re-tender.*

The details specification of the item is as given below.

(i) ITEM No. 01

### MIRROR STEREOSCOPE

Specification:

- 4x Binocular Eyepiece: 2.75 dioptr X 8mm. Field of view 12.5 degrees
- 1.2X Eyepiece: Plano convex lenses. Crown Glass lenses
- Parallax Wedge
- Mirrors: Surface should be long lasting chrome coated
- Coverage: Covers the entire 60% overlap of aerial photos
- Warranty : One year

**Number of Quantity : 07 Nos**





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RE-TENDER NOTICE NO.: IESTS/MinE/38/R/05/2018-19

Date: 07.02.2019

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

(i) ITEM No. 01 : Sound level meter - 01 No.--- for Mine Ventilation Laboratory.

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 **15.02.2019** at **14:00**. 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.

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The details specification of the item is as given below.

(i) ITEM No. 01

### SOUND LEVEL METER

#### Specification:

Integrating Averaging Sound Level Meter with Octave and one third Octave band analysis

- Type: Class I
- Frequency Weightings: A, C and Z
- Range: 30-140dBA( upto 140dB peak)
- Display: Backlit LCD display with Graphical representation
- Averaging: Fast, Slow and Impact
- PC connectivity: USB cable
- Software: Software data downloading from sound level meter and analyzing the same. The software should display the data in .txt,.xls and .mdb formats. The software should have capacity to eliminate the undesired noise e.g. cars, doors etc(back erase). Other capabilities like dynamic selection of recorded stretches forediting, calculation of global and spectral values and statics.
- Standards: EN 61672 class2, EN61260:95 (A1:01) class2; IEC61672, IEC 61260, ANSI S1.4.83 etc.
- CE mark: Complied to 73/23/CEE and CEM 93/68/CEE.
- Resolution: 0.1dB
- Measurements: Sound pressure level (SPL) in all averaging model i.e. Slow, fast and impulse, Equivalent continuous SPL with time integration, Sound exposure level (SEL), Peak SPL, Dynamic subtraction, Percentiles, Short functions (with 125ms integration time)

Octave Band (1/1) and One Third Octave Band(1/3) analysis feature

Dosimeter module for the measurement of noise exposure

**Number of Quantity : 01 No.**







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RE-TENDER NOTICE NO.: IESTS/MinE/38/R/06/2018-19

Date: 07.02.2019

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

(i) ITEM No. 01 : Spirometer - 01 No. --- for Safety & Ergonomics Laboratory.

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 **15.02.2019** at **14:00**. 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.

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The details specification of the item is as given below.

(i) ITEM No. 01

### **SPIROMETER**

Specification:

- **MIR 911000E1 Minispir New PC Based Spirometer** with 1 reusable turbine and software.
- Plugs directly into the USB socket of your PC, no need of batteries or other connections. Provided of internal temperature sensor for automatic BTPS conversion.
- Capable of measuring parameters: FVC, FEV1, FEV1/FVC%, FEV6, FEV1/FEV6%, PEF, FEF25%, FEF50%, FEF75%, FEF25-75%, FET, Vext, FIVC, FIV1, FIV1/F1VC%, PIF, \*FVC, \*FEV1, \*PEF, VC, IVC, IC, ERV, FEV1/VC%, VT, VE, Rf, ti, te, ti/t-tot, VT/ti, MVV best values.
- The standard packaging should contain 1 CD winspiro PRO PC software, 1 USB cable, 1 noseclip, 1 carrying case, 1 CD with multi-language user manual. 1 x reusable turbine, Transducer1 disposable turbine flow meter with mouthpiece.

**Number of Quantity : 01 No.**



27/2/19  
HEAD  
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RE-TENDER NOTICE NO.: IESTS/MinE/38/R/07/2018-19

Date: 07.02.2019

Department of Mining Engineering wants to purchase the following equipment for Laboratories/ Office.

- (i) ITEM No. 01 : Pulse Oximeter - 01 No. ----- for Safty Laboratory
- (ii) ITEM No. 02 : Mini Projector - 01 No. ---- for HoD's Chamber

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 **15.02.2019 at 14:00**. 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.

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The details specifications of the items are as given below.

I. ITEM No. 01

**PULSE OXIMETER**

**Specification :**

1. Should have plethismographic wave form with numeric display for SPO2 and Heart rate on LCD/TFT display.
2. Should have a SPO2 range of 0 to 100%.
3. Should have SPO2 accuracy of  $\pm 2\%$ .
4. Should provide bar graph for pulse strength.
5. Audio and visual alarm for both upper and lower SPO2, Heart rate.
6. Should provide with adult reusable finger probe with technology from standard reputed companies.
7. Beep sound and alarm sound should have separate volume control
8. Should have a minimum of 2 hours back-up time.
9. Should be a portable, light weight and desktop model.
10. Should work with input 200 to 240Vac 50 Hz supply.

**Number of Quantity : 01 No.**

II. ITEM NO. 02

**MINI PROJECTOR**

**Specification :**

Display Type	WVGA
Resolution	854 x 480

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## Department of Mining Engineering

Brightness	100 Ansi lmn
Light source	LED (R/G/B)
Lamp Life (Hours)	20,000
Aspect Ratio	16 : 9
Screen Size	Max.401.32 cm ( from 5 meters)
Offset	100%
Input	HDMI / MHL
Built-in Speaker	0.7w x 2
Speaker Type	Stereo
Built-in Battery (hours)	Up to 150 minutes at standard brightness [1900mAH]
Wireless	Mirroring / DLNA
Size (in mm) WxDxH	111 x 111 x 17.2
Weight in gm.	260
Basic Packages	AC adapter, HDMI Cable, Manual, Tripod, OTG Cable
Warranty (Std)	1 Year

Number of Quantity : 01 No.

*P.S.*  
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