



# भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद

धनबाद, झारखण्ड, भारत, पिन-826004

(मानव संसाधन विकास मंत्रालय, भारत सरकार के अधीन राष्ट्रीय महत्व का एक संस्थान)

**INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD**

**DHANBAD, JHARKHAND, INDIA, PIN-826004**

**(An Institute of National Importance under Ministry of H.R.D., Govt. of India)**

**STORES & PURCHASE SECTION** Phone:(0326) 2235678 || Email : purchase@iitism.ac.in || Website : www.iitism.ac.in

**No. MME/INS/101/2018-19**

**Date: 17 July 2018**

## **NOTICE INVITING TENDER**

### **Subject: Supply & Installation of Human Vibration Analyser with Whole-Body Seat Accelerometer**

Indian Institute of Technology (Indian School of Mines), Dhanbad invites quotations for the following to be supplied and delivered in MME Department.

S No	Full Description of items/ store	Qty	Delivery
1	<b>Supply &amp; Installation of Supply &amp; Installation of Human Vibration Analyser with Whole-Body Seat Accelerometer</b>  (Detailed Specification is given in Annexure – I)	01 No.	At the Earliest /Ex-Stock

### **Tender Schedule**

Particulars	Date & Time
Bid Security or Earnest Money Deposit	<b>Rs. 8,000.00 (Eight Thousand Only)</b>
Last date and time for submission of tenders	<b>10.08.2018 at 1:00 P.M.</b>
Date and time of opening of tenders	<b>10.08.2018 at 4.00 P.M.</b>

1. You are requested to quote your lowest rates for the supply of above items in the attached format for Financial Bid (Annexure – II)
2. You may send your representative in the office of the undersigned at the scheduled date and time of opening of tender.
3. Tender should be submitted in sealed cover only superscribed with Enquiry No. and due date at the following address only:

***The Deputy Registrar (P&S)***

***Indian Institute of Technology (Indian School of Mines),***

***Dhanbad – 826 004 Jharkhand***



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## Terms & Conditions :-

- 1) The rates should be quoted for each item separately.
- 2) Conditional offer will not be accepted.
- 3) IIT (ISM) does not issue any Form 'C' or 'D' towards sales tax concessional rate. Hence, full rate of sales tax/VAT, GST applicable should be quoted.
- 4) **Educational discount**, if any, should be clearly mentioned.
- 5) You are requested to submit your quotation strictly as per the specifications mentioned in the NIT.
- 6) **EMD is to be paid by Draft drawn in favor of Registrar, IIT (ISM) payable at Dhanbad. Non-submission will lead to rejection of your bid.**
- 7) Your tender must be valid for **minimum 90 days** from the date of opening of tender.
- 8) Please mention warranty/ guarantee in your offer clearly. Material/ equipment to be supplied must have minimum warranty/guarantee of **12 months**.
- 9) Each page in the bid document must be numbered properly and duly signed & sealed by the bidder on every page of the bid.
- 10) **The items/ materials shall be required to be delivered at MME Department/ Section through Purchase & Store Section, IIT (ISM) Dhanbad at the risk and cost of the tenderer.**
- 11) Unloading and installation shall be the complete responsibility of the supplier.
- 12) The stores are required to be delivered within 30 days. Late delivery may not be accepted.
- 13) The items offered should be of good quality confirming to BIS standards, wherever applicable.
- 14) Successful bidders will have to submit Performance Security (PBG) in the form of Bank Guarantee as per the Purchase Order before releasing payment.
- 15) **Advance payment is not admissible.** Payment shall normally be made within 30-45 days subject to receipt and acceptance & installation of the ordered materials/items PBG and other documents.
- 16) In the event date on which the tender is opened for acceptance is declared to be a holiday, the tenders shall be deemed to remain open for acceptance till the next working day.
- 17) Please send your sealed offer by Regd. Post/ Speed Post/ Courier along with Courier receipt. Tender/ quotation will be received during IIT (ISM) working hours only (i.e. Monday to Friday). **Late or delayed tenders shall be summarily rejected.**
- 18) Any other information that you may like to obtain, you are free to contact IIT (ISM) before submission of tender.
- 19) IIT (ISM) reserves the right to accept and/or to reject any/ all tenders without assigning any reason.

Deputy Registrar



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## Annexure – I

### Technical Specification for Human Vibration Analyser with Whole-Body Seat Accelerometer

- 1 Human Vibration Meter meeting ISO 8041:2005, ISO 2631-1,2&5, ISO 5349, EU Directive 2002/44/EC
- 2 Input No of channels: 6 (IEPE)
- 3 Filters: Wd, Wk, Wm, Wb, Wc, Wj, Wg, We, Wf, Wh and additionally HP
- 4 Results: RMS, VDV, MTVV or Max, Peak, Peak-Peak, Vector, A(8), Dose, ELV, EAV
- 5 Sampling Rate: 6KHz
- 6 Resolution: 0.1dB
- 7 Dynamic Range: Minimum 0.2dB
- 8 OLED Colour display to measurement instrument
- 9 Operating Temperature Range : -10 °C to 50 °C
- 10 Whole body vibration measurement
- 11 time-domain signal recording (meeting ISO 2631-5)
- 12 1/1 and 1/3 octave real-time analysis
- 13 Advanced data logger including spectral analysis
- 14 Micro SD flash card for mass data storage
- 15 Integration time programmable up to 24 h
- 16 Software for easy instrument setup and data download
- 17 Weight not more than 500gms with batteries
- 18 Measurement Range: Transducer dependent: 0.01 ms<sup>-2</sup> RMS ÷ 50 ms<sup>-2</sup> Peak (with Wd filter); 0.1 ms<sup>-2</sup> RMS ÷ 500 ms<sup>-2</sup> Peak (with Wh filter)
- 19 Frequency Range 0.1 Hz ÷ 2 kHz (transducer dependent)
- 20 Force Range 0.2 N ÷ 200 N (dedicated channels for force transducers)
- 21 Sampling Rate: 6 kHz
- 22 Interfaces USB 1.1 Client, Extended I/O - AC output (1 V Peak) or Digital Input/output (Trigger - Pulse)
- 23 Power Supply Four AA batteries (alkaline) operation time > 12 h (6.0 V / 1.6 Ah)  
(or)  
Four AA rechargeable batteries operation time > 16 h (4.8 V / 2.6 Ah)  
USB interface 500 mA HUB
- 24 Triaxial seat pad accelerometer: One in number  
Number of axis: 3 (MEMS based)  
Sensitivity (± 5 %), 50 mV/ms<sup>-2</sup> at 15.195 Hz  
Measurement range: 0.01 ms<sup>-2</sup> RMS ÷ 50 ms<sup>-2</sup> PEAK  
Frequency response: 0 Hz ÷ 100 Hz  
Resonant frequency: 5.5 kHz (MEMS transducer) TEDS Supported  
Electrical noise: < 0.005 ms<sup>-2</sup> RMS, HP1 filtering  
Temperature Range: from -10°C to +50°C  
Temperature Coefficient < +/-0.01 %/°C  
Humidity up to 90 % RH, non-condensed  
Maximum vibration: 100 000 ms<sup>-2</sup> shock survival  
Integrated cable: 1.4 meters  
Seat Pad accelerometer tightening strap  
Electrical:  
Supply Current < 5.0 mA  
Supply Voltage 5.2 V ÷ 16 V  
Bias Voltage 2.5 V ± 0.05 V  
Output Impedance 51 Ohms  
Charge / Discharge Time Constant (start-up time) 30 sec. typical.



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**Annexure - II**

## **Format for Financial Bid**

NIT No.: MME/INS/101/2018-19

Date: 17 July 2018

Bidders Ref. No.:

Date:

GSTIN:

**Subject: Supply & Installation of Human Vibration Analyser with Whole-Body Seat Accelerometer**

Sl. No.	Full Description of Items (With HSN Code/SAC Code)	Qty.	Rate	Amount
			Packing & Forwarding (if any)	
			<b>Total</b>	
			GST (if any)	
			Freight (if any)	
			Installation (if any)	
Amount should be in figure as well as word			<b>Grand Total</b>	

### **Note:**

- 1) Price basis must be FOR IIT(ISM) Dhanbad only.
- 2) All the details must be provided as per prescribed format only.
- 3) Prices quoted by the bidders should include all local taxes, VAT, service tax, GST, HSN Code, SAC Code, livies, transportation cost and insurance costs etc. if any
- 4) All the rates must be quoted in Indian Rupees.