



# 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

NIT No. CE-INS-258-2018-19

Date: 23<sup>rd</sup> October, 2018

## NOTICE INVITING TENDER

### **Subject: Supply and Installation of Microcontroller Based Compressometer.**

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

| Sl. No. | Description of Materials                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Unit | Quantity |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|
| 01.     | <p>The system should consists of the following components:</p> <p><b><u>1. Load Cell</u></b></p> <p>i) Type: Compressive<br/>           ii) Range: Min 200 Tons<br/>           iii) Non-Linearity: 0.1% FS<br/>           iv) Repatability: 0.1% FS<br/>           v) Excitation: 5 V DC<br/>           vi) Output: 1.5m V/V<br/>           vii) Overload Capacity: Min 150%<br/>           viii) Protection: IP 65</p> <p><b><u>2. Deformation Jacket</u></b></p> <p>i) Deformation Jacket for cylindrical specimen of size 150 mm dia and 300 mm length</p> <p><b><u>3. LVDT</u></b></p> <p>i) Quantity: 5 No's [3 for lateral and 2 for longitudinal deformation]<br/>           ii) Range: 10 mm for longitudinal and 5 mm for lateral<br/>           iii) Least count: 10 micro meter<br/>           iv)Excitation: 2 Vrms 5 KHz, sine wave<br/>           v) Non-Linearity: <math>\pm 3\%</math> FS<br/>           vi) Repeatability: <math>\pm 1.5\%</math> FS<br/>           vii) Protection: IP 65<br/>           Power Source: 230 VAC <math>\pm 15\%</math> , 48-52 Hz</p> <p><b><u>4. High Speed Data Acquisition System (Micro controller Based)</u></b></p> <p>i) Scanning: min 200 samples/sec per channel<br/>           ii) No. of Channel: min 6 No.<br/>           iii) Programming Parameters: Sample No., Specimen Length, Specimen Dia, Calibration factor<br/>           iv)Display output: Poisson's ratio, Young's modulus, Longitudinal deformation, Lateral deformation, Peak force and Normal force</p> | Nos  | 01       |



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|                                                                                                                              |  |  |
|------------------------------------------------------------------------------------------------------------------------------|--|--|
| vii) Software: Software with online graphics with pre and post failure data analysis                                         |  |  |
| ** Necessary accessories like connecting cables, spare fuse and Operating and Instruction manual should be with the machine. |  |  |

## Tender Schedule

| Particulars                                  | Date & Time                               |
|----------------------------------------------|-------------------------------------------|
| Bid Security or Earnest Money Deposit        | Rs. 7,000.00 (Rupees Seven Thousand only) |
| Last date and time for submission of tenders | 16.11.2018 at 3:00 P.M.                   |
| Date and time of opening of tenders          | 16.11.2018 at 4.30 P.M.                   |

1. You are requested to quote your lowest rates for the supply of above items in the attached format for Financial Bid (Annexure – I)
2. Clarification(s) sought after the prescribed date shall not be entertained.
3. You may send your representative in the office of the undersigned at the scheduled date and time of opening of tender.
4. 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*

## Terms & Conditions

- 1) The rates should be quoted for each item separately.
- 2) Conditional offer will not be accepted.
- 3) IIT (ISM) Dhanbad does not issue any Form 'C' or 'D' towards sales tax concessional rate. Hence, full rate of 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) Your tender must be valid for **minimum 90 days** from the date of opening of tender.
- 7) Please mention warranty/ guarantee in your offer clearly. Material/ equipment to be supplied must have minimum warranty/guarantee of **1 years onsite warranty**.
- 8) Each page in the bid document must be numbered properly and duly signed & sealed by the bidder on every page of the bid.
- 9) **The items/ materials shall be required to be delivered at CE Department/ Section through Purchase & Store Section, IIT (ISM) Dhanbad** at the risk and cost of the tenderer.
- 10) **Bid Security or Earnest Money Deposit (EMD)**: Should be submitted in form of A/C payee demand draft drawn in favor of Registrar, IIT (ISM), Dhanbad and payable at Dhanbad.
- 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) **Advance payment is not admissible**. Payment shall normally be made within 3-4 weeks subject to receipt and acceptance & installation (as per Purchase Order Terms) of the ordered materials/items.



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- 15) 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. IIT(ISM) Dhanbad may extend the date and time for submission opening of the bids.
- 16) Please send your offer by Regd.Post/ Speed Post/ Courier along with Courier receipt. Tender/ quotation will be received during IIT (ISM) Dhanbad working hours only (i.e. Monday to Friday). *Late or delayed tenders shall be summarily rejected.*
- 17) Successful bidders will have to submit Performance Bank Guarantee (PBG) as per the Purchase Order.
- 18) Any other information that you may like to obtain, you are free to contact IIT (ISM) Dhanbad before submission of tender.
- 19) IIT (ISM) Dhanbad reserves the right to accept and/or to reject any/ all tenders without assigning any reason.

Assistant Registrar



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**Annexure - I**

## **Format for Financial Bid**

NIT No.: CE-INS-258-2018-19

Dated: 23.10.2018

Bidder's Reference No.

Dated:

GSTIN:

**Subject: Supply and Installation of Microcontroller Based Compressometer.**

| 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) All the details must be provided as per prescribed format only
- 2) Prices quoted by the bidders should include GST, HSN Code, SAC Code, duties, livies, transportation cost and insurance costs etc. if any