



# 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-PRJ-106-2018-19

Date: 9<sup>th</sup> July, 2018

## NOTICE INVITING TENDER

### **Subject: Supply and Installation of 16 Channel Data Logger.**

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  | Quantity |
|---------|---|----------|
| 1.      | <p><b>Data Acquisition System QTY : 1 No</b></p> <p><b>Different measurement modules can be inserted in this chassis to obtain the desired Application. High Performance Data-logger / Recorder</b></p> <ul style="list-style-type: none"> <li>• 3 Slots for connecting Input /Output modules</li> <li>• Max Sampling rate 500kS/s</li> <li>• PC Connection RJ-45 10/100Base-T connector</li> <li>• Inbuilt storage: 8GB SD card (Expandable to 32GB)</li> <li>• Logger CPU must Freescale MPC5200 , 400 Mhz , 32 bit</li> <li>• Operating Temp: -40°C to 85°C</li> <li>• On board Flash memory : 4 GB RAM</li> <li>• DDRAM : 128 MB</li> <li>• Humidity: 0 to 95%RH</li> <li>• Robust structure: Vibration and Shock proof as per IEC 60068-2-64/IEC60068-2-6/IEC 60068-2-27)</li> <li>• Power supply: 9-36Vdc through 240VAC adapter</li> <li>• Shielded cable</li> <li>• Screw terminal panel</li> <li>• Real Time Clock / calendar</li> <li>• Start – Stop button</li> <li>• Initiated by host via Ethernet</li> <li>• Analog Input crossing a trigger level</li> <li>• An analog i/p inside or outside a user selected range</li> <li>• Logger should able to acquire data from RS 232 Port , CAN Bus , ARINC 429</li> <li>• Data-logger is compatible with Labview &amp; Matlab software.</li> </ul> <p><b>16 Channel Differential Analog Input Channel : Qty 1 No</b></p> <ul style="list-style-type: none"> <li>• Number of channels: 16 fully differential plus1 single-ended dedicated CJC channel</li> <li>• Programmable DIO line 1 (external trigger)</li> </ul> | 01       |



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- ADC resolution 18 bits
- Sampling rate 1 S/s - 16 kS/s per channel;  
16 kS/s max aggregate for entire board
- FIFO size 512 samples
- Input bias current  $\pm 5\text{nA}$  max,  $\pm 0.5\text{nA}$  typical
- Input impedance  $10\text{M}\Omega$
- Gains 1,2,4,8,10,20,40,80,100,200,400,800
- Frontend bandwidth 48kHz @ -3dB
- Common mode rejection 100dB typical
- Oversampling ratio 2 to 8192, selected automatically
- Accuracy  $\pm 287.59 \mu\text{V}$  at  $\pm 10 \text{V}$  input range.
- Isolation 350 Vrms
- Overvoltage protection -40V to +55V
- Power consumption : 2.2W max
- Operating temp.  $-40^\circ\text{C}$  to  $+85^\circ\text{C}$
- Operating humidity 95%,
- Vibration IEC 60068-2-6 : 5 g, 10-500 Hz, sinusoidal
- Shock IEC 60068-2-27: 50 g, 3 ms half sine,

**Note:** # Total landed cost of the equipment should include 01 year warranty.

### General Requirements and Qualification Criteria

- Manufacturer should have comprehensive production facilities, after sales service facility & infrastructure, Accredited Calibration and Quality control Test Laboratory. Manufacturing Capacity & capabilities of the supplier and workmanship of the instrument shall be assessed by concerned official before finalizing the order.
- The company should have NABL accredited service wing.
- Manufacturing of the machine should be as per required testing standards/Tender specification within the specified tolerance limits.
- Manufacturer should have mentioned their own technical specifications of the equipment. Copy and paste the technical specifications from the indenter side will not be accepted.
- Qualified Service Engineer and customer support Staff should be available in the local office in the nearest metropolitan city. They should impart necessary



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|  |   |  |
|--|---|--|
|  | <p>3 days training to our personal for operation the Equipment supplied.</p> <ul style="list-style-type: none"> <li>• Authority may visit bidder's works/Users place to evaluate the quality Control, after sales backup facility, expert availability etc.</li> <li>• Supplier should have capacity and experience of carrying out Annual Maintenance contract with the users of their M/C and proof of such documentation will be preferred.</li> <li>• Vendor must have supplied in earlier instances three working models either at IISc or IIT. The purchase order of the same must be produced.</li> <li>• Vender must supply original catalogue with Photo and Model number of equipment along with signature. The details also should be available in the website of the manufacturer.</li> <li>• Reference standards of the equipments should be mentioned/highlighted in original catalogue and in technical bid.</li> <li>• Supplier/manufacturer blacklisted by any Govt. Organization will not be considered. A declaration letter mentioning the same must be submitted.</li> </ul> <p>Necessary Documents should be produced to support the above clauses.</p> |  |
|--|---|--|

## Tender Schedule

| Particulars                                  | Date & Time                                    |
|--|--|
| Bid Security or Earnest Money Deposit        | <b>Rs. 6,000.00 (Rupees Six Thousand only)</b> |
| Last date and time for submission of tenders | <b>09.08.2018 at 3:00 P.M.</b>                 |
| Date and time of opening of tenders          | <b>09.08.2018 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 – 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**



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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) 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.
- 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 Security (PBG) in the form of Bank Guarantee as per the Purchase Order before releasing payment
- 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.

Deputy Registrar



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## Annexure - I

### Format for Financial Bid

NIT No.: CE-PRJ-106-2018-19

Dated: 09.07.2018

Bidder's Reference No.

Dated:

GSTIN:

**Subject: Supply and Installation of 16 Channel Data Logger.**

| 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
- 3) All the rates must be quoted in Indian Rupees.