



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. CE/INS/231/18-19

Date: 12.10.2018

NOTICE INVITING TENDER

Subject: NIT No. CE/INS/231/2018-19 for Supply & Installation of Plate Load Test Apparatus with Digital Data Acquisition System- 500kN Capacity (Quantity- 01 No.).

Sirs,

Indian Institute of Technology (Indian School of Mines), Dhanbad invites tenders/ quotations for Supply and Installation of Plate Load Test Apparatus with Digital Data Acquisition System- 500kN Capacity (Quantity – 01 No.) in our Civil Engineering Department. *Particulars of tender cost, earnest money deposit and date and time of submission and opening of tenders are as under:*

Sl. No	Items	Particulars
1.	Tender cost (Online Payment)	Rs. 1,180.00 (One Thousand One Hundred Eighty only) (Please refer Point No. 3 (a) of Terms & Conditions)
2.	Earnest money deposit	Rs. 20,000.00 (Twenty Thousand only)
4.	Date and time for submission of bids	05.11.2018 at 3:00 P.M.
5.	Date and time of opening of bids	05.11.2018 at 4.30 P.M.

Tender document containing following document is available on websites of (<https://eprocure.gov.in> & www.iitism.ac.in), which may kindly be referred.

1. Technical specifications as per Annexure-I
2. General terms & condition as per Annexure-II
3. Compliance Statement as per Annexure –III
4. Financial Bid as per Annexure- IV

Encl: As above

Assistant Registrar



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Annexure-I

Technical Specifications

1. Plate Load Test Apparatus with Digital Data Acquisition System- 500kN Capacity (Qty – 01)

The apparatus should be as per Indian Standards and supplied with all necessary apparatus/parts conforming to Indian Standards.

Ref. Standard IS:1888

The Equipment Consists of:

- Plate Bearing Test Apparatus With 4 No. LVDT (0-25mm),
- Load cell (0-500 kN) 1No. With digital indicator battery operated.
- High Pressure Flexible Metallic Pipe 5 m long.: 1 No.
- Ball and Socket Arrangement consisting of two steel plates, with one steel ball in-between the plates.: 1 No.
- Extension Rod long, 12 mm dia x 25 cm for taking LVDT readings.: 16 Nos.
- Data Acquisition System: 1 Nos
- Magnetic base with female thread on top, for holding extension rod.: 4 Nos.
- Top End Plate 50 mm dia with male thread, for fitting on to the Extension Rods and positioning the Dial Gauge Plunger.: 4 Nos.
- Column 15 cm dia x 25 cm long, with flanges, complete with four bolts and nuts.: 2 Nos.
- Column 15 cm dia x 50 cm long, with flanges, complete with four bolts and nuts.: 1 No.
- Datum Bar light weight, portable, total span 5m height approx. 30cm, mounted on two removable legs. (Made in two parts. Provision shall be for datum bar of 2.5m span to be used. A spare leg is provided for the purpose. Complete with two quick release clamps for positioning and holding the dial gauge brackets): 2 Nos.
- Anchor Spikes: 10 Nos.
- Quick Release Clamp for positioning dial gauge bracket.



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Plates:

- Grooved M.S. Plate, 30cm x 30cm square x 25mm thick
- Grooved M.S. Plate, 45cm x 45cm dia square x 25mm thick
- Grooved M.S. Plate, 60cm x 60cm dia square x 25mm thick
- Grooved M.S. Plate, 75cm x 75cm dia square x 25mm thick
- Plane M.S. Plate, 30cm x 30cm dia square x 25mm thick
- Plane M.S. Plate, 45cm x 45cm dia square x 25mm thick
- Plane M.S. Plate, 60cm x 60cm dia square x 25mm thick
- Plane M.S. Plate 75cm x 75cm dia square x 25mm thick

Specification of the Load Truss:

Load Truss capacity 500kN (50,000 kgf) with

1. Trusses -2 parts
2. Joists -2 parts
3. Anchor spikes 150 Nos
4. Semi-cylindrical anchors –12Nos
5. Bolts with nuts for anchor straps-24 Nos
6. Anchor straps-12 Nos
7. Guy wires with six turn buckles-6 Nos
8. Top Flange splice plate –1 No
9. Small bolts with nuts for item – 8Nos
10. Jointing bolts with nuts –8Nos
11. Bolts with nuts for bottom splice plate -6Nos
12. Sledge hammer -1No
13. Spanners –2Nos

Specification of the Data Acquisition System:

Components:-

Analog Channels:

- 6 channels (Common terminal wiring)
- 4 channels (two wire differential terminal)



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- 2 channels (3 wire & 4 wire sensors)
- Universal type of channels

Thermocouple (Types: B, C, D, E, G, J, K, N, R, S, T Calibration standard: ITS-90)

RTDs , Thermistors , 4 – 20 mA Current Loop , Monolithic Temperature Sensor , Strain Gauge and Bridge Sensor , Voltage (Upto +/-30Vdc) , Current (Upto +/- 30 mA) , Load Cell , LVDT

Digital Channels:

Digital Input/Outputs: Minimum 4 nos channel Relay Output: 1 latching relay, contacts (max: 30Vdc, 1A) Low Speed Counters : Minimum 4 counters shared with digital inputs ;

Dedicated Counter Inputs: Minimum 4 high speed or 2 phase encoder (quadrature) inputs ;

Data Storage: Internal Storage: Minimum Capacity: approx. 10,000,000 data points ;

Sampling Rate: 25 Hz

Resolution: 18 bits

Linearity: Minimum 0.01%

Real Time Clock: Normal resolution: 200μs

Operating Temperature range: –45°C to 70°C

Communication Interfaces: Ethernet Port Interface: 10 Mbps;

Protocol: TCP/IP, Modbus (Slave)

Serial Sensor Port Interface: RS232

SDI – 12 channel: Minimum 1 No SDI – 12 Input, Can support upto 10 Nos SDI-12 sensor;

USB memory for easy data and program transfer;

Capacity: approx. 90,000 data points per megabyte;

Sensor Excitation Supply should available in the Data-logger;

Display: LCD

Power Supply: External voltage range: 10 to 30Vdc

Software:-

Runs directly from Web Browser;

Access current data and status from any web browser.

FTP Server: Access logged data from any FTP client or web browser;



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FTP Client: Automatically upload logged data direct to an FTP server;

Real-time and historical data for analysis, charts, mimics and tables, Custom pages can be defined,

Download data in CSV format

An extensive range of Arithmetic, Trigonometric, Relational, Logical and Statistical functions should available.

Note: # Total landed cost of the equipment should include 01 year warranty plus 04 year extended 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.
- Qualified Service Engineer and customer support Staff should be available in the local office in the nearest metropolitan city. They should impart necessary 3 days training to our personal for operation the Equipment supplied.
- Authority may visit bidder's works/Users place to evaluate the quality Control, after sales backup facility, expert availability etc.
- 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.
- Vendor must have supplied in earlier instances three working models either at IISc or IIT. The purchase order of the same must be produced.
- 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.
- Reference standards of the equipments should be mentioned/highlighted in original catalogue and in technical bid.



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- Supplier/manufacturer blacklisted by any Govt. Organization will not be considered. A declaration letter mentioning the same must be submitted.

Necessary Documents should be produced to support the above clauses.



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Annexure-II

GENERAL TERMS & CONDITIONS

NIT No. CE/INS/231/2018-19

Sealed tenders under **Two-bid system** are invited from manufacturers/ their authorized dealers/ agents for supply and installation in IIT (ISM) Dhanbad of items specified in *Annexure-I*.

- Offer should be submitted under **TWO-BID** system in two separate sealed covers i.e. “**Techno-commercial bid**” and “**Price bid**”.
- In a tender, either the Indian agent on behalf of the principle/ OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender.*
 - If an agent submit bid on behalf of the principle/ OEM, the same agent shall not submit a bid on behalf of another principle/ OEM in the same tender for the same item/product.*
- Techno-commercial Bid:** should contain the following documents/information:
 - Tender Cost:** Venders must pay the tender cost through the link <http://www.onlinesbi.com/prelogin/icollecthome.htm?corpID=272342>
Cash receipt should be attached along with the bid submitted.
 - Bid Security/Earnest Money Deposit (EMD):** Should be submitted in form of A/C payee demand draft drawn in favor of Registrar, IIT(ISM) and payable at Dhanbad (Jharkhand).
 - Tenders without payment of tender cost and EMD will not be considered, unless the tenderer is exempt from such payment under Central Govt. Rules/ Regulations and General Financial Rules (GFR) as amended from time to time and claims such exemption along with relevant and valid supporting documents.
 - All relevant technical specifications/details of offered items, drawings, printed technical leaflets, and commercial details which are necessary to ensure that offer is complete in all respects should be attached with the technical bid documents.
 - A ‘Compliance Statement’ along with a certificate and duly signed that the tenderer satisfies the technical requirements given in **Annexure-I**. The said statement should be in a tabular form with the columns: sl. no., (2) technical requirement as per NIT; (3) what is offered by the tenderer; and (4) status of compliance: Complied/Not complied).*
 - IIT(ISM) does not bind itself to offer any explanation to those bidders whose Technical Bids have not been found acceptable by the Evaluation Committee of the Institute.
- Further the following documents have to be furnished by the tenderers:**
 - Self attested copies of credentials in support of capability to undertake the supply/work.
 - Technical literature/catalogue with the detail specification of the material
 - Satisfactory performance certificate from their customers for same/similar supply/service must be enclosed alongwith the technical bid.
 - Income tax PAN, Sales tax regn. Nos., GST, & Bank A/c no., name of bank & branch.
- Price should be quoted on FOR, IIT(ISM) Dhanbad basis.** The packing, forwarding, freight and transit insurance charges, if any must be included in the price and should not be claimed separately. Duties & taxes, if applicable, are to be shown separately clarifying whether those are extra or included in the price. Price bids of only technically qualified tenderers shall be opened in their presence on a pre-notified date and time.
- Educational discount, if any, should be clearly mentioned.**
- IIT(ISM) is entitled for Custom Duty Exemption under Govt of India notifications and is registered with DSIR, Govt of India for this purpose. This may be taken into consideration while quoting minimum possible rate.IIT(ISM) will provide only custom duty exemption certificate for availing concessional custom duty.



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8. IIT (ISM) does not issue form 'C' or 'D' for concessional Sales tax/VAT. Hence, full rate of sales tax as applicable to educational institutions against the form of certificate should be indicated.
9. **Warranty:** Minimum 01 year plus 04 year extended warranty from the date of installation and commissioning at the site.
10. **Validity:** Offer must be valid for a period of **240 days** from the date of opening of tender
11. **Performance Security/Performance Bank Guarantee:** Performance Security has to be submitted from the successful bidder. Performance Security should be 10% of the ordered value. Performance Security may be furnished in the form of Bank Guarantee from any Nationalized Bank and Performance security should remain valid for a period of two months beyond the date of completion of all contractual obligations of the successful bidder(s). No interest will be payable by IIT (ISM) Dhanbad on the Performance Security deposited. In case the contractor fails to provide satisfactory service, the Performance Security submitted by the bidder(s) is liable to be forfeited. An undertaking to this is to be submitted.
12. **Delivery Period and Liquidated Damage:** The ordered materials/work complete in all respects are required to be delivered and installed within the period stipulated in the purchase order failing which liquidated damages of 1% per week for the delayed period subject to maximum of 5% of the total basic value of the order shall be deducted from the invoice of the supplier.
13. **Inspection:** Inspection shall be carried out at IIT (ISM), Dhanbad after arrival of the materials and decision of the Institute in this regard shall be final.
14. **Rejection and Replacement:** Rejection, if any, shall be notified to the supplier within 30 days of receipt and inspection of the material/workmanship. Rejected materials/work is to be removed by the supplier at his own risk and cost from IIT (ISM). Campus within 14 days of intimation of rejection. Defective Supplies are required to be replaced within 15 days of the removal of the rejected materials/work.
15. **Risk Purchase:** IIT (ISM) shall be at liberty to realize from the supplier the differential amount, if any, which it shall have to incur on purchase of the material/work at higher price(s) from elsewhere in the market, if the supplier, due to their fault, fails to supply the ordered quality and quantity of the material/work within the stipulated time.
16. Conditional offer will not be accepted.
17. **Payment:** will be made within 30-45 days after satisfactory supply, inspection, installation/commissioning & acceptance and on submission of pre-receipted tax invoice, delivery challan, warranty certificate and installation report in triplicate and Performance Bank Guarantee. The invoice should be duly certified by the Head of Dept to which supply is made or any other IIT (ISM) official authorized for this purpose.
18. Your full address for correspondence and name address of the beneficiary's banker should be clearly indicated in the offer. **Institute does not make any advance payment.**
19. **Country of origin and port of shipment should be stated** in your offer clearly.
20. Name and address of Indian Agent, percentage of agency commission, if any and role of the Agent with respect to the subject supplies and a statement thereon that "Agency Commission is included in the
21. FOR price of the offer" should be clearly indicated in your offer.
22. Earliest/ expected delivery period should be clearly indicated.
23. Packing should be suitable for 'Air freight'.
24. Please note that no part shipment/transshipment/third party shipment is acceptable to us.
25. **Last date** for receipt of tenders and date & time for opening of the same is given in page- 01. The tenders will be opened in the presence of representatives of tenderers present. ***In the event last date is a holiday/declared as a holiday, next working date will be the last date for submission/ opening of tender.***
26. Tender should be submitted in a sealed cover/envelope and must be superscribed as under:
 - i) "Tender No. **CE/INS/231/18-19** Date : **16 October 2018 (Supply & Installation of (Due Date2018 at 4.00 P.M.).**



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- ii) All tender shall be received upto to the time and date as stated in the tender notice, after which no tender shall be accepted in any circumstances.
- iii) All tender must be sent by Registered Post/Speed Post/Courier along with Courier receipt, during IIT (ISM) working days only (i.e. Monday to Friday). Please note that no hand delivery of tender will be received at any circumstances.
27. The Institute at its discretion may change the quantity/quality/parameters/upgrade the criteria/drop any item(s) or part thereof at any time before placing the order. In case of any dispute, the decision of IIT(ISM) shall be final and binding on the bidders/tenderers.
28. The Institute reserves the right to accept or reject any or all the bids in part or in full without assigning any reason and does not bind himself to accept the lowest bid.
29. All the bidders, those are interested to participate in this bid, must have to submit the technical specification of their bid in MS-Word Format in a CD with the technical bid. The CD must be marked with the NIT No. and submission deadline.

ABOVE TERMS AND CONDITIONS OF THE NIT ARE ACCEPTED

1	Name and address of the tenderer	
2	Telecom nos. of the tenderer i.e. phone fax, & email id.	
3	Signature, name & designation of the person signing on behalf of the tenderer & his/her office seal	
4.	Name & designation of the contact person & his phone/mobile no.	



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Annexure-III

Compliance Statement

Sl. No	Technical requirement as per NIT	What is offered by the tenderer	Status of Compliance Complied/Not Complied



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Annexure - IV

Format for Financial Bid

NIT No.: CE/INS/231/18-19

Date: 12.10.2018

Bidders Ref: No.

Date:

GSTIN:

Subject: Supply & Installation of Plate Load Test Apparatus with Digital Data Acquisition System- 500kN Capacity (Quantity – 01 No.).

Sl. No.	Full Description of Items	Qty.	Rate	Amount
			Packing & Forwarding (if any)	
			Total	
			GST (if any)	
			Freight (if any)	
			Installation (if any)	
	Amount should be in figure as well as word		Grand Total	

Note:

- 1) All the details must be provided as per prescribed format only
- 2) 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
- 3) Price should be in FOR IIT(ISM), Dhanbad basis only.