



भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद

धनबाद, झारखण्ड, भारत, पिन-826004

(मानव संसाधन एवं विकास मंत्रालय, भारत सरकार के अधीन एक राष्ट्रीय महत्व का 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@ismdhanbad.ac.in || Website : www.iitism.ac.in

No. CERE-500087-2017-18

Date: May 31, 2017

NOTICE INVITING TENDER

Subject: Supply & Installation of Integrated Voltage & Current Source and Measurement Unit

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

S No	Full Description of items/ store	Qty	Delivery
1	Supply & Installation of Integrated Voltage & Current Source and Measurement Unit (Detailed Specification is given in Annexure – I)	01 No	At the Earliest

Tender Schedule

Particulars	Date & Time
Last date and time for submission of tenders	27.06.2017 at 1:00 P.M.
Date and time of opening of tenders	27.06.2017 at 4.00 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 – 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 super scribed 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 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 **12 months**.
- 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 CERE Department/ Section through Purchase & Store Section, IIT (ISM) Dhanbad at the risk and cost of the tenderer.
- 10) Unloading and installation shall be the complete responsibility of the supplier.
- 11) The stores are required to be delivered within 30 days. Late delivery may not be accepted.
- 12) The items offered should be of good quality confirming to BIS standards, wherever applicable.
- 13) **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.
- 14) 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.
- 15) Please send your 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*.
- 16) Any other information that you may like to obtain, you are free to contact IIT (ISM) before submission of tender.
- 17) IIT (ISM) reserves the right to accept and/or to reject any/ all tenders without assigning any reason.

Regd.
31/5/17
Deputy Registrar



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ANNEXURE -I

Detail Technical Specifications of the Integrated Voltage & Current Source and Measurement Unit

Integrated Voltage & Current source and measurement unit should be capable of working as voltage source, current source, voltmeter and current meter simultaneously with the following specifications/range of voltages and currents. Specifications are interpreted as equal to as or better than the specifications in the table below:

Voltage Specification:

	Range	Resolution	Accuracy
As Source	20mV- 200V	For 20mV range : 0.0005 mV (minimum) For 200mV range : 0.005 mV (minimum) For 2V range : 0.05 mV (minimum) For 20V range : 0.5 mV (minimum) For 200V range : 5 mV (minimum)	Percentage deviation 0.015% (maximum) for highest range of voltage and 1% (maximum) for lowest range of voltage.
As Voltmeter	20mV- 200V	For 20mV range : 10 nm (minimum) For 200mV range : 100 nm (minimum) For 2V range : 0.001mV (minimum) For 20V range : 0.01 mV (minimum) For 200V range : 0.1 mV (minimum)	Percentage deviation 0.015% (maximum) for highest range of voltage and 1% (maximum) for lowest range of voltage.

Current Specification:

	Range	Resolution	Accuracy
As Source	10nA-1A	For 10 nA range : 500fA (minimum) For 100 nA range : 5 pA (minimum) For 0.001 mA range: 50 pA (minimum) For 0.01mA range : 500 pA (minimum) For 0.1mA range : 5000 pA (minimum) For 1 mA range : 50000 pA (minimum) For 10 mA range : 500000 pA (minimum) For 100mA range : 0.005 mA (minimum) For 1000mA range : 0.05 mA (minimum)	Percentage deviation 0.015% (maximum) for highest range of voltage and 1% (maximum) for lowest range of voltage.
As Current meter	10nA-1A	For 10 nA range : 10fA (minimum) For 100 nA range : 100 fA (minimum) For 0.001 mA range: 1 pA (minimum) For 0.01mA range : 10 pA (minimum) For 0.1mA range : 100 pA (minimum) For 1 mA range : 1000 pA (minimum) For 10 mA range : 10000 pA (minimum) For 100mA range : 100 nA (minimum) For 1000mA range : 1000 mA (minimum)	Percentage deviation 0.015% (maximum) for highest range of voltage and 1% (maximum) for lowest range of voltage.

Other Specification:

Parameters	Specification
Sweep types	Linear, Log, Dual Linear, Dual Log, Custom, Source - Memory
Internal buffer	>250,000 point readings buffer
Programming interfaces support	GPIO, USB ,Ethernet(Lxi) or suitable
Expansion interface for multichannel operation	Suitable expansion interfaces for external trigger and for multichannel I-V test systems must be provided
Signal supported connectors	Front Panel: Banana Jacks ,Rear Panel: Triaxial (3-lug) or suitable for voltage, current, power, resistivity measurement
Measurement speed	≥3000 readings/sec



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Measurement display resolution	6.5 digit measurement resolution
Measurement mode	voltage ,current, resistance ,power
Display and control	at least 5.5 inch Touch Screen display with Icon based control to set up measurement, source and graphical display should be there.
Digital I/O interface	9-pin female D connector ,6 I/O user defined for digital I/O or triggering
Power Supply	170V to 240V RMS ,50 Hz
Accessories	necessary test leads, usb cable, ethernet/tsp cable, interlock adapter, power cord, quick start guide, CD user manual must be provided free of cost.
Warranty	1 year
Software	Compatible software to control and capturing the data must provide free of cost.



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Annexure - II

Format for Financial Bid

NIT No.: CERE-500087-2017-18

Date:

Bidders Ref: No.

Date:

Subject: Supply & Installation of Integrated Voltage & Current Source and Measurement Unit

Sl. No.	Full Description of Items	Qty.	Rate	Amount
			Packing & Forwarding (if any)	
			Total	
			CST/VAT (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, duties, livies, transportation cost and insurance costs etc. if any
- 3) All the rates must be quoted in Indian Rupees.