



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. AGP-PRJ-338-2018-19

Date: 22nd January, 2019

Request for Quotation

To,
M/s Phoenix Geophysics,
3781, Victoria Park Avenue,
Unit #3, Toronto, Ontario, Canada,
M1W 3K5.
E: thaile@phoenix-geophysics.com

Through:
M/s Aimil Ltd.,
Naimex House A-8,
Mohan Co-operative Industrial Estate,
Mathura Road, New Delhi – 110 044.
E: ldmohapatra@aimil.com

Subject: Supply and Installation of Ultra-Wideband Magnetotelluric (UMT) Data Acquisition System.

Sirs

Indian Institute of technology (Indian School of Mines), Dhanbad is interested for the purchase of the materials/ equipment listed below:

Sl. No.	Detailed Specifications	Quantity
1	Ultra-Wide Band MT System and Upgradation of Existing MT System. (Specification attached at Annexure – I)	01

INSTRUCTIONS:

- 1) Please attach relevant technical literature of the item.
- 2) Please mention warranty/ guarantee period in your offer. Equipment/ material supplied must have minimum warranty/ guarantee of 12 months.
- 3) Please mention after sales service information in your offer.
- 4) ***Please attach a certificate that the quoted price is not more than that of any other Govt. organization/ institution in India. This has to be mentioned in the offer letter clearly.***
- 5) The rates should be quoted for each item separately.
- 6) Rates quoted will be taken as inclusive of all taxes unless given separately. IIT (ISM) Dhanbad does not issue any Form 'C' or 'D' IIT(ISM) is an IIT and registered with DSIR, hence eligible concessional GST rate as the subject item will used for research purpose.
- 7) The items/ materials shall be required to be delivered at AGP Department through Purchase & Store Section of IIT (ISM) Dhanbad at the risk and cost of the tenderer.
- 8) Your tender must be **valid for minimum 180 days** from the date of opening of tender.
- 9) The stores are required to be delivered within 30 days, late delivery may not be accepted.
- 10) Full details of stores offered should be given in the tender along with supporting & relevant literatures/ Technical Literature.
- 11) The items offered should be of good quality confirming to BIS standards, wherever applicable.
- 12) ***Advance payment is not admissible.*** 90% payment through Irrevocable Letter of Credit against dispatch of materials and submission of required documents and PBG. Balance 10% through wire transfer after receipt of



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consignment at site by the user department followed by acceptance as well as satisfactory installation of the system along with submission of challan & invoice in triplicate and warranty & Installation certificate.

- 13) In the event of the supplier failed to supply the materials or install the same as contractual condition, IIT (ISM) Dhanbad shall have the right to deploy suitable agency/ third party to get the job completed at the risk and cost of the supplier.
- 14) Tender may please be submitted *in sealed cover only superscribed with Enquiry No. AGP-PRJ-338-2018-19 latest by 12.02.2019.*
- 15) **Performance Bank Guarantee:** A bank guarantee issued by a Nationalized Bank in India towards PBG for an amount equal to 10% of total value of purchase order and valid till the period beyond two months of completion of warranty period should be submitted in favour of **Registrar, IIT (ISM) Dhanbad.**
- 16) Any other information that you may like to obtain, you are free to contact IIT (ISM) Dhanbad before submission of tender.
- 17) IIT (ISM) Dhanbad reserves the right to accept and/or to reject any/all tenders without assigning any reason.
- 18) Please attache purchase order copies of the same equipment which you have supplied to any other Govt., public sector and autonomus instituions.
- 19) Price schedule is attached as annexure II.

Assistant Registrar



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Annexure- I

SPECIFICATIONS FOR ULTRA-WIDEBAND MAGNETOTELLURIC (UMT) DATA ACQUISITION SYSTEM

A. Receiver:

1. Number of channels: Five components (2E+3H)
2. A/D conversion: Ultra Low Noise, true 24 bit system
3. Dynamic range: Better than 130
4. Sampling rate: Continuous acquisition: 24 KHz, 2.4 KHz, 150 Hz
5. Frequency range: 10 kHz to > 50,000 seconds
6. Simultaneous recording of high (AMT) and low (MT) frequencies with single board
7. Data storage: Environmentally rugged SD card 64GB and expandable to 512 GB
8. Display: colour, graphical, low power, 160 X 128 pixels
9. Should be light weight < 6 Kgs.
10. Input Power: 12 V DC and power consumption < 7 Watts
11. Operating temp: -20°C to +60°C
12. GPS synchronization: better than 500 nanoseconds

B. MAGNETIC FIELD SENSOR:

Broadband Magnetic Sensor for natural source and controlled source Induction Coil for MT fulfilling the following specifications:

- Range: 10 000 Hz to > 50,000 seconds (Simultaneous recording of high (AMT) and low (MT) with only three magnetic sensors)
- Sensitivity: 25 mv/nT
- Output range: Fully differential 0-5 V
- Weight \leq 6 kg
- Operating temp: -30°C to +70°C
- Environmental: IP68 dust- and water-resistant
- It should be provided with all accessories and desired connecting cables for proper functionality.

C. SOFTWARE:

DATA ACQUISITION AND PROCESSING SOFTWARE: User friendly and powerful Software, which should be easy to manage and process the data for very large surveys with it's built-in database and visual field-data display (production calendars, survey maps, etc).

Operating Systems supported: Windows, Linux, Mac

- D. The instrument **warranty** should be at least 12 months and cover all parts and labor



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- E. (i) **Upgradation** of existing MTU-5A , Qty. 1Nos. to latest MT System with compatible with all existing coils.
- (ii) Converter Cable to make the compatible the existing sensors to New MT Systems (i.e., 10Pin to 8Pin Coil cable, 20m each - for old sensors to new model MT receivers) – 3Nos.

Schedule of requirement:

1. 5-channel, 24-bit (2E + 3H) field data acquisition unit for Ultra MT Systems (including 64GB SD card – 2Nos., SD card reader, Power supply cable, GPS antenna kit and carrying bag) – 1No.
2. Ultra MT Data acquisition firmware with Instrument QA/QC, time series recording mode – 1 license.
3. Advanced MT database manager: Single User, non-transferable License - 3 Pack License
4. 10 pin Coil Cable, 20mtrs length : 3 Nos.
5. Single Broadband Magnetic Sensor Induction Coil for UMT, MT, AMT: Qty-3Nos.
(should be Portable 6kg. or less)
6. Porous Pot Electrode- 5 Nos.
7. carrying cases
8. Upgradation Kit: existing MTU-5A – 1 Nos. to latest Ultra MT System – 1nos.
9. Converter Cable to make the compatible the existing sensors to New MT Systems (i.e., 10Pin to 8Pin Coil cable, 20m each - for old sensors to new model MT receivers) – 3Nos.

Optional

- (i) **Upgradation** of existing MTU-5A , Qty. 1Nos. to latest MT System with compatible with all existing coils.
- (ii) Converter Cable to make the compatible the existing sensors to New MT Systems (i.e., 10Pin to 8Pin Coil cable, 20m each - for old sensors to new model MT receivers) – 3Nos.



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Annexure -II

1. PRICE SCHEDULE FOR GOODS BEING OFFERED FROM ABROAD

Name of the Bidder _____

NIT Reference No. _____

File Reference No. _____

Sl. No.	Description/Part No./Make Model	Quantity	Unit Price (in foreign currency)	Total Amount (in foreign currency)
1.				
2.				
3.				
Total Ex-Works Price-				
Packing & Forwarding and inland freight				
*FCA (at port)				
Terminal charges, loading on vassal				
**FOB (name of port)				
Air freight & insurance up to destination port				
*CIF				
Carrier charges & insurance up to final destination				
**CIP				
Concessional Custom Duty (Against DSIR Certificate)				
IGST rate (Against IIT (ISM) Certificate)				
Other Duties taxes/clearance charge, if any				
Transportation charges up to IIT ISM Dhanbad				
-Chargeable weight/Gross weight of consignment				
Indian agency Commission (%)				
Installation & Commissioning charge				
Training charges, if any				
Additional Warranty Charges, if any				
Annual Maintenance Charge, if any				
Educational discounts, if any				

* & ** Mandatory requirement

Total Bid Price _____ in words _____

Note :

Total Bid price in foreign currency _____ in words

(a) Indian agent name & address _____

(b) Installation, commissioning & training charges, if any _____

(c) Please note that Indian agents' commission shall be paid in Indian Rupees only.

(d) Banker's details such as- Name of account holder, Account Number, Name of Bank, Branch code, RTGS code, NEFT code, SWIFT code etc.



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(f) Price schedule of optional items shall be indicated in a separate sheet in the same performa.

(g) Quoting Price for FOB/FCA and for CIF/CIP basis, otherwise bid will be rejected.

(h) Wherever the price quoted on FOB/FCA and CIF/CIP basis are the same, the contract would be made on CIF/CIP basis only.

(i) Country of Origin Dimension and Gross Weight must be provided.

Signature of Bidder

Name _____

Business Address _____