



# 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. AGL/PRJ/181/18-19**

**Date: 7 August 2018**

## **NOTICE INVITING TENDER**

**Subject: NIT No. AGL/PRJ/181/2018-19 for Supply & Installation of Microwave Digestion System for the digestion and dissolution of normal and refractory geological samples.**

Sirs,

Indian Institute of Technology (Indian School of Mines), Dhanbad invites tenders/ quotations for Supply and Installation of **Microwave Digestion System for the digestion and dissolution of normal and refractory geological samples.** in our AGL Department. *Particulars of tender cost, earnest money deposit and date and time of submission and opening of tenders are as under:*

| S No | Items                                | Particulars                                 |
|------|--------------------------------------|---|
| 1.   | Tender cost                          | <b>Rs. 1,000.00 ( One Thousand only)</b>    |
| 2.   | Earnest money deposit                | <b>Rs. 30,000.00 (Thirty Thousand only)</b> |
| 4.   | Date and time for submission of bids | <b>30.08.2018 at 3:00 P.M.</b>              |
| 5.   | Date and time of opening of bids     | <b>30.08.2018 at 4.30 P.M.</b>              |

Tender document containing following document is available on websites of (<https://eprocure.gov.in> & [www.iitism.ac.in](http://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

Deputy Registrar



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## **Annexure-I**

### **Technical Specification for Supply and Installation of Microwave Digestion System**

#### **Specifications:**

1. Digestion and complete dissolution of geologic samples such as rocks, minerals, ores, metals, metal oxides, platinum group elements and refractory minerals under high temperature and high pressure in closed vessels for analysis in spectroscopic systems.
2. System should be have built-in high-power anti corrosion axial fan in forced air cooling system with built-in air exhaust pipeline around 10 feet. The exhaust capacity should be approximately 3 m<sup>3</sup>/min.
3. Reaction Vessels should be made up of TFM/PTFE and outer vessels should be made up of composite material (PEEK/Ceramic). Vessels should be accompanied with valid comprehensive test certificates ensuring safety. Rapid cooling of vessels to room temperature (40°C approx.) should be achieved. Vessel should be HF resistant. Vessel Rotor should have facility to rotate inside the cavity for homogeneous mixing.
4. Rotor vessels – minimum of 8 or more, Volume – 100 ml.
5. Microinserts or equivalents made of TFM/PTFE for working with microgram samples and small amounts (1 ml approx. or lesser) of acids. Specifications of minimum sample weight and minimum acid volume requirements should be clearly mentioned. Sufficient spares should be provided for trouble-free operation of the system.
6. Stainless steel cavity volume should be more than 60 litre with multilayer chemical resistant coating. In-situ temperature sensor in the reaction vessel must be provided with the system and pressure sensor must be given for added safety. All vessels preferably should have temperature sensors to ensure proper temperature distribution.
7. Pressure - Working pressure should be around 100 bar (10 MPa/1500 psi) or better with +/- 0.1 MPa accuracy.
8. Temperature - Working temperature should be around 260°C or better with +/- 1 °C accuracy.
9. LCD display panel should display reaction conditions with provision to monitor changes in P and T in real time.
10. Microprocessor based PID controller with user defined  $\pm 1$  W increment in all power levels.
11. Provision to expand the instrument capabilities for sample fusion in a furnace is preferable although not essential.
12. The system should include UPS for better health of the equipment.
13. The instrument should be CE marked, ISO certified or TÜV/GS certified and constructed in accordance with EU directives and comply with international safety standards like IEC/EC and all compliance certificates with updated validation should be submitted.
14. Company should provide user list with email and phone numbers of orders placed in India in the last 3 years. A minimum of 50 installations and successful operation in reputed educational institutions and scientific laboratories is required.
15. Proven after sales service records should also be provided.
16. Any other essential accessories required for trouble-free operation of the instrument should be part of the quote.
17. Comprehensive 2 years Warranty on the instrument should be provided. After the expiry of warranty period, the company should provide Annual Maintenance Contract for another 3 years on payment basis.



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18. Make and Model of the equipment with detail specifications should be clearly mentioned by the company.
19. Detailed operation manual and brochure should be provided.
20. Complete installation of the instrument with all accessories at the user site.
21. Suitable training in the operation of the instrument should be provided by the prospective supplier.



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## Annexure-II

### GENERAL TERMS & CONDITIONS

#### NIT No. AGL/PRJ/181/2018-19

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*.

1. Offer should be submitted under **TWO-BID** system in two separate sealed covers i.e. “**Techno-commercial bid**” and “**Price bid**”.
2. *a) 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.*  
*b) 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.*
3. **Techno-commercial Bid:** should contain the following documents/information:
  - a. **Tender Cost:** Cost of the tender document is to be paid by way of an A/C payee demand draft for an amount indicated in Page No 01 and drawn in favor of Registrar, IIT(ISM) Dhanbad and payable at SBI, IIT(ISM) campus branch or any other Bank/ Branch located in Dhanbad. Tender cost is non-refundable and non-transferable. Alternatively, intending tenderers may **download** the complete set of tender document from CPP Portal <https://eprocure.gov.in> and IIT (ISM) website ([www.iitism.ac.in](http://www.iitism.ac.in)) and submit the same duly signed on all pages by the tenderers along with demand draft for tender cost
  - b. **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).
  - c. 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.
  - d. 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.
  - e. 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).
  - f. 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.
4. **Further the following documents have to be furnished by the tenderers:**
  - a) Self attested copies of credentials in support of capability to undertake the supply/work.
  - b) Technical literature/catalogue with the detail specification of the material
  - c) Satisfactory performance certificate from their customers for same/similar supply/service must be enclosed alongwith the technical bid.
  - d) Income tax PAN, Sales tax regn. Nos., GST, & Bank A/c no., name of bank & branch.
5. **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.
6. **Educational discount, if any, should be clearly mentioned.**





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7. 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.
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 02 year 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/Demand Draft 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.



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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:
- "Tender No. **AGL/PRJ/181/18-19 Date : 7 August 2018 (Supply & Installation of (Due Date .....2018 at 4.00 P.M.).**
  - 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.
  - 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<br>Complied/Not Complied |
|--------|----------------------------------|---------------------------------|---|
|        |                                  |                                 |   |



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Annexure - IV

## Format for Financial Bid

NIT No.: AGL/PRJ/181/18-19

Date: 7 August 2018

Bidders Ref: No.

Date:

GSTIN:

**Subject: Supply & Installation of Microwave Digestion System.**

| Sl. No. | Full Description of Items                  | 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 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.