

**भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद**

धनबाद, झारखण्ड, भारत, पिन-826004

(शिक्षा 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 Education, Govt. of India)****PROJECT PURCHASE SECTION** Phone: (0326)2235203 || Email: projectpurchase@iitism.ac.in || Website: www.iitism.ac.in**No. FM-PRJ-GeM-009-25-26****Date: 13th June, 2025****Request for Quotation****Subject: Supply & Installation of Horizontal Multistage Isothermal Heat Treatment setup and Accessories.****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	Supply & Installation of Horizontal Multistage Isothermal Heat Treatment setup and Accessories. (Specification in Annexure –I)	01 No.

INSTRUCTIONS:

- 1) Please attach relevant technical literature of the item.
- 2) Please attached authorization certificate for OEM.
- 3) Please mention warranty/ guarantee period in your offer. Equipment/ material supplied must have minimum warranty/ guarantee of **12 months**
- 4) Price Basis: FOR IIT (ISM) Dhanbad
- 5) The items/ materials shall be required to be delivered at **Department of Fuel Minerals and Metallurgical Engineering Department of IIT (ISM) Dhanbad** at the risk and cost of the tenderer.
- 6) ***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.***
- 7) The rates should be quoted for each item separately as per price schedule attached as annexure I
- 8) The items/ materials shall be required to be delivered at Mining Department of IIT (ISM) Dhanbad at the risk and cost of the tenderer.
- 9) Your tender must be **valid for minimum 120 days** from the date of opening of tender.
- 10) Full details of items/materials offered should be given in the tender along with supporting & relevant literatures/ Technical Literature.
- 11) Tender may please be submitted **in sealed cover only superscribed with Enquiry No. FM-PRJ-GeM-009-25-26 latest by 04.07.2025.**
- 12) **EMD:** EMD of an amount of **Rs. 10,000/-** in form of Demand Draft in favor of Registrar, IIT (ISM) Dhanbad payable at Dhanbad. EMD can also be submitted in the form of Term Deposit Receipt/ Fixed Deposit Receipt/Bank Guarantee drawn in favor of Registrar, IIT(ISM)Dhanbad
- 13) **Performance Security:** To ensure due performance of the item, you are required to submit a performance security. The performance security should be furnished within 21 days of the award of supply order. Performance security should be for an amount of five percent (5%) of the value of the supply order. Performance security may be furnished in the form of a Demand Draft/ Fixed Deposit Receipt / Bank Guarantee from a commercial bank in favour of Registrar IIT (ISM) Dhanbad, payable at Dhanbad. Performance security should remain valid for a period of 14 Months from the date of final acceptance/Installation. The performance security will be refunded without any interest, provided that the performance is satisfactory.
- 14) The offer must be submitted in the office of Deputy Registrar (Purchase & Stores), IIT (ISM), Dhanbad–826004 (Jharkhand, India) only. Please send your offer by Registered 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). At any circumstances by hand delivery is not acceptable. Late or delayed tenders shall



GSTIN : 20AAAAI0686D1ZA

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be summarily rejected. Bids sent through Email/Fax or submitted in unsealed cover(s) will not be accepted and such bids will be treated as non-responsive bids.

- 15) Any other information that you may like to obtain, you are free to contact IIT (ISM) Dhanbad before submission of tender.
- 16) IIT (ISM) Dhanbad reserves the right to accept and/or to reject any/all tenders without assigning any reason.
- 17) **Payment:** Payment shall normally be made within 3-4 weeks subject to satisfactory supply, submission of tax invoice and delivery challan in triplicate (as per Purchase Order Terms) of the ordered materials/items. *Advance payment is not admissible.*
- 18) You are requested to fill the enclosed **Annexures**.
- 19) **Please attach purchase order copies of the same equipment which you have supplied to any other Govt., public sector and autonomous institutions.**
- 20) **a) In a tender, either the Indian agent on behalf of the principle/ OEM and 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.

**For and on behalf of
IIT(ISM), Dhanabd**

Deputy Registrar
(Project Purchase Section)
O/o Dean (R&D)

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Working principle	One Box type with two Chemical bath set up with different operating temperature range
Set up I	Effecting working hot dimension: Width x Height x Depth - 300mm x 300mm x 300 mm.
	Shape: Horizontal front load Chamber, Stand model
	Volume: 24 litter approx
	Working range: 700-1200 °C. Maximum: 1250 °C
	Heating Elements: Silicon Carbide solid type, uniformly distribute temperature both side of the work zone
	Power Rating: 15.8KW, 430 V, 1/3 phase AC, 50 Hz
	Controller: Eurotherm/Honeywell, microprocessor based programmable 16 segment PID controller with LED display, Ramp, soak, cooling setting
	Power Control: Fully automatic thyristor operated power system with soft start, V&I limit facilities etc.
	Rate of heating/ cooling: Programmable of 8-10°C better
	Temperature Accuracy: $\pm 1^\circ\text{C}$ and uniformity, $\pm 2-8^\circ\text{C}$ or better according to measurement after 0.5-1 hour of soaking
	Door: • Front loading swing-type door with low leakage insulating lid and user-friendly mechanism considering faster quenching / transferring • The door lock mechanism should be provided for air tightening • Power cut facility will be provided while the door is opened
	Sensor : “R” type TC individual and independent
	Reference Sensor: Separate full length reference sensor fitted with indicator Eurotherm/Honeywell made.
	Insulation: Ultra-lightweight alumina based ceramic fibre & refractory combination
	Skin temperature: $< 60^\circ\text{C}$
	Necessary safety features: Overshoot protector, sensor break, and emergency stop must be there to stop the equipment
Set up II & III	The Chemical bath must work as independent & separate from each other
	Effective working heating zone: Effective working diameter 300 mm and Depth 350 mm
	Shape: Vertical Pit type, 2 High temperature chemical proof categories of tank will be incorporated here
	Volume capacity: accordingly effective working heating zone dimensions.
	Working range: • The working range of the first chemical bath will be 150-350°C • The working range of the second chemical bath will be 300-650°C
	Heating Elements: Kanthal A1 to uniformly distribute heat all over the heating zone
	Power Rating: 15KW, 430 V, 3 phase AC, 50 Hz

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	Controller: Eurotherm/Honeywell, microprocessor based programmable PID controller with LED display
	Power Control: Fully automatic Relay/Thyristor operated power
	Accuracy: • $\pm 1^{\circ}\text{C}$ and uniformity, $\pm 2-8^{\circ}\text{C}$ or better according to measurement after 0.5-1 hour of soaking • Homogeneous temperature in 0.5-1.0 hr
	Door: • Top opening swing type door with insulated lid with low leakage • Friendly mechanism for faster quenching by manually
	Sensor : “K” type individual and independent
	Reference Sensor : Separate full length reference sensor fitted with indicator
	Insulation: Ultra-lightweight alumina based ceramic fibre & refractory combination
	Skin temperature: $< 60^{\circ}\text{C}$
	Chemical Bath Body: Body fabricated by MS angle, sheet and SS sheet combinations
	Safety: Alarm should be provided, if set temperature limit exceeds
Spares	• NIL • 2 stainless steel tongs • 3 sets of heat-resistant gloves • 1 stirrer rod • 4 insulation bricks tray for placing samples inside the set up I
Warranty	2 year comprehensive warranty after commissioning. The supplier would give a certificate that they will provide support towards spares, service and maintenance for 10 years from the date of commissioning.
Certification	Calibration certificates for the thermocouple should be supplied. Bidder should be either an Original Equipment Manufacturer (OEM) or 100% subsidiary of OEM in India (relevant documents need to be attached with the technical bid). Manufacturers should have MSME/ISO9001 or similar certifications.
Scope of supply	Installation, training and commissioning: a) Bidders should provide a minimum 3-day onsite operational and routine maintenance training at IIT(ISM) Dhanbad site for research scholar/technical staff. b) Pre-installation requirement to be submitted within 15 days after placement of purchase order. c) Manuals/Documents: 1 set of hard copy and 1 set soft copy in English containing the operating, maintenance and service of the furnace must be provided.



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Client details	a) The supplier shall have a well-trained service network available in the vicinity of IIT Dhanbad to cater the service requirements of the Set up. The details of the same shall be submitted along with the technical bid. b) The bidder should have supplied at least 3 or more such “Horizontal, Multistage, Isothermal Heat Treatment Set up and Accessories” in India and are required to produce a certificate of reference along with contact details to whom they have supplied <u>along with the Installation Certificate</u> in IIT, CSIR, PSU or similar Government organizations. c) Satisfactory feedback of users will also be considered for evaluation of technical bids. The bidder should be able to extend technical service support for quoted equipment, not any other. They should be able to supply spare parts, consumables, software and hardware upgrades etc.
Clarifications	Time allowed for Technical Clarifications maximum 03 days from tender publication date through tender authority. No clarification request will be accepted after that period.

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To,
The Registrar,
Indian Institute of Technology (Indian School of Mines)
Dhanbad -826004
Respected Sir,

In accordance with the order No. P-45021/2/2017-PP (BE-II) dated 04th June, 2020, I hereby declare that

- i) I am aware about all provision mentioned in GeM Bid No.as well as order No. P-45021/2/2017-PP (BE-II) dated 04th June, 2020 and abides by the same.
- ii) I declare that for this tender, I am a **Class-I local supplier / Class-II local supplier / Non-local supplier** (Strike out whichever is not applicable) and classification is based on local content of goods/services/work offered by bidder in this tender.
- iii) **Local content (in percentage) in offered good/services/work is: _____ %**
Whereas 'Local Content' means the amount of value added in India which shall, unless otherwise prescribed by the Nodal Ministry, be the total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent.
- iv) The local content for all inputs which constitute the said goods/services/works has been verified and bidder is responsible for the correctness of the claims made therein.
- v) Details of items, amount and location(s) at which the local value addition is made:

Sl. No.	ITEM (S)	AMOUNT	LOCATION(S)
1.			
2.			
3.			
4.			
5.			
6.			
7.			

Date:

Signature:

Name of Authorized Signatory:

Name of Bidder:

Seal of Bidder:

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1. I / We _____ (Tenderer) hereby declare that the firm / agency / company, namely M/s _____ has not been declared as **insolvent**.

AND

2. I / We _____ (Tenderer) hereby declare that the firm / agency / Company, namely M/s _____ has not been **blacklisted or debarred** in the past by Union / State Government or Organization from taking part in Government tenders in India.

OR

2. I / We _____ (Tenderer) hereby declare that the Firm/Agency/Company, namely M/s _____ was **blacklisted or debarred** by Union/ State Government or any Organization from taking part in Government tenders for a period of _____ years w.e.f. _____ to _____. The period is expired and now the Firm/Agency/Company is entitled to take part in Government tenders.

In case the above information is found to be false I / We are fully aware that the tender/contract will be rejected / cancelled by Director, IIT(ISM) Dhanbad, and EMD shall be forfeited.

In addition to the above the Director, IIT(ISM) Dhanbad will not be responsible to pay the bills for any completed/partially completed work.

Date:**Place:****Self Certification:** _____**Name:** _____**Address:** _____**Stamp:**



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Annexure- IV

UNDERTAKING

(To be signed and submitted/uploaded along with Technical bid documents on Company's Letter Head)

(As per Office Memorandum No. F.7/10/2021-PPD(1) dated: 23.02.2023 issued by Department of Expenditure (Ministry of Finance), Govt. of India)

Model certificate for Tenders

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered. [Where applicable, evidence of valid registration by the Competent Authority shall be attached]"

Place:

Signature:_____

Date:

Name:_____

Stamp:_____

OR

Model certificate for tenders for work involving possibility of sub-contracting

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contracting from such countries I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority and will not sub contract any work to a contract form such countries unless such contractor is registered with the Competent Authority. I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered. [Provide Compliance for the above in Vendor Specified Commercial Terms.]"

Place:

Signature:_____

Date:

Name:_____

Stamp:_____

1. PRICE SCHEDULE FOR GOODS BEING OFFERED WITHIN INDIA

Name of the Bidder _____

NIT Reference No. _____

File Reference No. _____

Sl. No.	Full Description of items with (HSN Code/SAC Code)	Quantity	Unit Price (in INR)	Total Amount (in INR)
1.				
2.				
3.				
Ex-Works Price-				
Packing & forwarding				
Transportation				
FOR (IIT ISM) Dhanbad				
<u>GST/IGST (their rate(s) as the case may be, clearly specified)</u>				
Insurance up to Destination/handover (in case of fabrication)				
Installation & Commissioning charge				
Training charges, if any				
Additional Warranty Charges, if any				
Annual Maintenance Charge, if any				

*(On the basis of the technical specifications submitted)

Total Bid Price _____

in words _____

Note :

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

(b) Cost spare parts may be indicated separately

Signature of Bidder

Name _____

Business

Address _____