



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. Chemical/INS/331/18-19

Date: 25 January 2019

NOTICE INVITING TENDER

Subject: NIT No. Chemical/INS/331/18-19 for Supply & Installation of Computer Controlled chemical reactors training equipment-01 No.

Sirs,

Indian Institute of Technology (Indian School of Mines), Dhanbad invites tenders/ quotations for Supply and Installation of **Computer Controlled chemical reactors training equipment-01 No.**

in our Chemical Engineering 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.	Earnest money deposit	Rs. 24,000.00 (Twenty Four Thousand only)
2.	Date and time for submission of bids	22.02.2019 at 1:00 P.M.
3.	Date and time of opening of bids	22.02.2019 at 4.00 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 (A) or (B)

Encl: As above

Assistant Registrar



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Annexure-I

Sl. No.	Item	Quantity
1.	Computer Controlled chemical reactors training equipment	01 No.

Technical Specification of Computer Controlled chemical reactors training equipment-01 No

Section 1: General specification

- A self-contained bench-top supply unit designed to provide services for up to at least five different chemical reactors:
 - Continuous Stirred Tank Reactor
 - Tubular Reactor
 - Batch Reactor
 - Plug Flow Reactor
 - Laminar Flow Reactor
- It should be fully computer controlled and supplied with suitable software specific to each reactor type. Simple interface is required by USB port (s).
- At least two peristaltic feed pumps are needed with individually variable flow rates, 0–300 mL/min.
- It has to provide PID temperature-controlled hot water in order to maintain reactor temperature.
- Unit must be complete with at least two temperature sensors, an input for a third temperature sensor is needed; temperature range: 0–100oC.
- A conductivity based measurement and data logging facility are to be provided to monitor the progress of reaction carried out in each of these reactors.
- Unit must be complete with at least two conductivity sensors/probes with range of measurement: 0 – 100 mS/cm.
- The unit must be provided with at least two storage tanks: 2.5 – 3.0 L capacity.
- A provision must be given to pre-heat the reactants before they enter the reactor.
- A quick release coupling arrangement must be provided to mount each reactor to the supply unit.
- A comprehensive instruction manual with details installation and operating procedures is required.

(i) CONTINUOUS STIRRED TANK REACTOR

- A small-scale continuous stirred tank reactor for use with the main chemical reactor supply unit.
- Working volume of reactor: 250 mL–1.50 liters
- Inside diameter of reactor: 100 mm
- The vessel to be equipped with a variable-speed agitator with digital rpm indicator.
- The vessel is to be constructed from transparent borosilicate glass, with heat transfer arrangement and removable reactor baffle both made of SS304.
- Suitable fitting points for temperature and conductivity sensors are required.



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(ii) TUBULAR REACTOR

- A small-scale tubular reactor for use with the main chemical reactor supply unit capable of demonstrating large-scale behaviour.
- A helical tube reactor with 10 – 15 m long and 6 mm ID, wrapped around a PMMA former, housed in a clear PMMA vessel through which heating or cooling medium will be circulated. Working volume of reactor coil will be around 0.28 – 0.40 liters.
- At least two heat exchanger coils are needed to bring the reactants up to the reaction temperature separately before they are mixed to start the reaction.
- Suitable fitting points for temperature and conductivity sensors are required.

(iii) BATCH REACTOR

- A small-scale batch reactor is required for use with the main chemical reactor supply unit designed for isothermal and/or adiabatic operation. A chilled water circulation provision/accessory is also required for the isothermal operation.
- Working volume reactor: 0.75 – 1.00 liter
- Inside diameter of reactor: 100 mm
- The vessel to include a jacket through which hot water from the main chemical reactor unit or chilled water from chilled water circulation unit is to pass. A variable-speed agitator with digital rpm indicator is needed to aid the heat transfer through the vessel.
- The vessel is to be made of transparent borosilicate glass to give full visibility of the contents and enables the use of colour tracers to illustrate the reaction process.
- Suitable fitting points for temperature and conductivity sensors are required.

(iv) PLUG FLOW REACTOR

- A small-scale plug flow reactor is required for use with the main chemical reactor unit, to be designed to demonstrate both flow pattern characterisation and steady-state conversion in a packed tubular reactor with axial dispersion.
- The reactor column must be a straight tube made of transparent borosilicate glass or clear acrylic, with at least 500 mL working volume. It is to be packed with 2 – 3 mm diameter glass beads.
- A feed assembly is to be supplied with the reactor and a feed vessel assembly with heat exchangers for cooling for use with the main chemical reactor unit and chilled water circulation unit.
- The reactor assembly is to be mounted on a painted frame and should include a sensor block for the conductivity and temperature sensors from the main chemical reactor unit.
- Provision must be given to perform flow visualization where the progress of the reaction can be monitored visually using a dye.



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(v) LAMINAR FLOW REACTOR

- A small scale Laminar Flow Reactor is required (at least 100 mL working volume) to be designed to demonstrate both flow pattern characterization and steady-state conversion in a tubular reactor.
- The reactor column must be made of clear acrylic or transparent borosilicate glass.
- The reactor column should have at least 15 mm as inside diameter.
- Reactor column is to be jacketed with easy connections for re-circulating cooling system.
- A feed assembly is to be supplied with the reactor with a suitable provision for damping of pulsation.
- The unit is to be mounted on a painted frame and includes a sensor block for conductivity and temperature sensors.
- Provision must be given to perform flow visualization where the progress of the reaction can be monitored visually using a dye.

Power requirement:

220-240 V; Single Phase; 50 Hz

One Data Retrieval, Storage, and Analysis System	System for retrieval, storage and analysis (Branded System such as Dell/HP/HCL/ASUS/ FUJITSU/OEM Certified System). Must be compatible with the quoted instrument and operating software of the instrument.
Processor	Intel Core-i7 (minimum) and 2.8 GHz (minimum)
Memory	Maximum 16GB
Hard Disk	500GB SSD (with OS installation)
Graphics Card	4GB (maximum)
Optical Drive, Keyboard, Mouse	DVD +- RW Drive, Wired Keyboard and Mouse
Operating System	Latest version of Windows (64 bit), English
Monitor	22 inch IPS LED monitor compatible with the equipment

Section 2. List of other Certificates/Items to be produced by the OEM/Supplier:

1	(i) That they are the original equipment manufacturer of the equipment/instrument (base) & (ii) A certificate is required from original equipment manufacturer (OEM) that their equipment and accessories meet all minimum specifications as given in Section 1 .
2	A three year warranty certificate including technical and maintenance support is required from original equipment manufacturer (OEM).
3	Detailed Catalogue/Data Sheet of the quoted item(s).
4	Clientele List (preferably centrally funded technical institutions/labs).
5	Performance Letter from the Clients.
6	Compliance chart with respect to NIT specification, supported by catalogue and manufacturer website to be provided.
7	All essential accessories to run the equipment to be quoted.



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Annexure-II

GENERAL TERMS & CONDITIONS

NIT No. CHEMICAL/INS/331/18-19

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. **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 SBI, IIT (ISM) campus branch or any other Bank/ Branch located in Dhanbad.
 - b. 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.
 - c. 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.
 - d. 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).
 - e. 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 annexure IV (A) or (B).** The comparison between the indigenous and the foreign offers shall be made on FOR destination basis CIF/CIP basis respectively. However, the CIF/CIP prices quoted by any foreign bidder shall be loaded further as towards customs duty, IGST and other statutory levies, custom clearance, inland transportation, currency fluctuation etc. i.e. 15% of the CIF/CIP value.
6. **Educational discount, if any, should be clearly mentioned.**
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. IIT(ISM) will not pay any extra custom duty other than duty exemption certificate.
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 03 years 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



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11. **Performance Security/Performance Bank Guarantee:** Performance Security has to be submitted from the successful bidder. Performance Security will 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 or part thereof for the delayed period subject to maximum of 5% of the total 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 FOR price of the offer" should be clearly indicated in your offer.
21. Earliest/ expected delivery period should be clearly indicated.
22. Packing should be suitable for 'Air freight'.
23. Please note that no part shipment/transshipment/third party shipment is acceptable to us.
24. **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.***
25. Tender should be submitted in a sealed cover/envelope and must be superscribed as under:
 - i) "Tender No. **CHEMICAL/INS/331/18-19** Date : **25 January 2019 (Supply & Installation of Computer Controlled chemical reactors training equipment-01 No (Due Date 22.02.2019 at 4.00 P.M.).**
 - 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.



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26. 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.
27. 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.
28. All the bidders, those are interested to participate in this tender, 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., date 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 (A)

1. PRICE SCHEDULE FOR GOODS BEING OFFERED FROM ABROAD

Name of the Bidder _____ (On bidders letter head)

NIT Reference No. **Chemical/INS/331/18-19**

Date: 25 January 2019

Bidder's Reference No. _____

Date:

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				
Total Ex-Works Price-				

*&** Mandatory requirement

##Total Bid Price _____ in words _____

Note :

Total Bid price in foreign currency _____ in words

- Indian agent name & address _____
- Installation, commissioning & training charges, if any _____
- Please note that Indian agents' commission shall be paid in Indian Rupees only.
- Banker's details such as- Name of account holder, Account Number, Name of Bank, Branch code, RTGS code, NEFT code, SWIFT code etc.
- Price schedule of optional items shall be indicated in a separate sheet in the same performa.
- Quoting Price for FOB/FCA and for CIF/CIP basis, otherwise bid will be rejected.
- Wherever the price quoted on FOB/FCA and CIF/CIP basis are the same, the contract would be made on CIF/CIP basis only.
- Country of Origin, Dimension and Gross Weight must be provided

Signature of Bidder

Name _____

Business Address with contact details _____



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Annexure – IV (B)

2. PRICE SCHEDULE FOR GOODS BEING OFFERED WITHIN INDIA

Name of the Bidder _____ (On bidders letter head)

NIT Reference No. **Chemical/INS/331/18-19**

Date: 25 January 2019

Bidder's Reference No. _____

Date:

Sl. No.	Description/Part No./Make Model	Quantity	Unit Price (in foreign currency)	Total Amount (in foreign currency)
1.				
2.				
3.				
	Ex-Works Price-			
	Packing & Forwarding			
	Transportation			
	FOR (IIT ISM) Dhanbad			
	GST/IGST (their rate(s) as the case may be, clearly specified)			
	Please note that IIT ISM is eligible for Concessional GST as per Notification No. 45/2017 – Central Tax (Rate) for CGST, 45/2017 – State Tax (Rate) for SGST and 47/2017 – Central Tax (Rate) for IGST,			
	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 with contact details _____