



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. TEQIP-PRJ-116-18-19

Date:23.08.2018

Corrigendum-I

Ref No.: NIT No. TEQIP-PRJ-116-18-19 , Dated: 19.07.2018

Subject: Extension of date for submission of Bids for Supply and Installation of Fluid Properties Apparatus..

1.	Revised date & time for submission of tenders	13.08.2018 , 07.09.2018 at 01:00 P.M.
2.	Revised date & time of opening of tenders	13.08.2018 , 07.09.2018 at 04:00 P.M.

All other terms & conditions and contents remain same.

Assistant Registrar



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Date: 19th, July 2018

Notice Inviting Quotation

Subject: Supply & Installation of Fluid Properties Apparatus.

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

S No	Description of item(s)	Quantity	Remarks
1	Supply & Installation of Fluid Properties Apparatus. (Detail specification in Annexure I)	01 No.	At the earliest/ Ex-stock

Tender Schedule:

Particulars	Date & Time
Last date and time for submission of tenders	13.08.2018 at 1:00 P.M.
Date and time of opening of tenders	13.08.2018 at 4:00 P.M.

INSTRUCTIONS:

- 1) Please attach relevant technical literature of the item.
- 2) Please mention warranty/guarantee period in your offer.
- 3) Please mention after sales service information in your offer.
- 4) Price should be in F.O.R. IIT(ISM), Dhanbad basis only.
- 5) **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.**
- 6) The rates should be quoted for each item separately.
- 7) Quotation,
 - a. The contract shall be for the full quantity as described above.
 - b. Corrections, if any, shall be made by crossing out, initialing, dating and re writing.
 - c. All duties and other levies payable by the supplier under the contract shall be included in the unit price.
 - d. Applicable taxes shall be quoted separately for all items.
 - e. The prices quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
 - f. The Prices should be quoted in Indian Rupees only.
- 8) Each bidder shall submit only one quotation.
- 9) IIT (ISM) does not issue any Form 'C' or 'D' towards sales tax concessional rate.
- 10) The items/ materials shall be required to be delivered at **Department of Chemical Engineering, IIT(ISM), Dhanbad** at the risk and cost of the tenderer.
- 11) Your tender must be **valid for minimum 55 days** from the date of opening of tender.
- 12) The stores are required to be delivered within **30 days**, late delivery may not be accepted.
- 13) Full details of stores offered should be given in the tender along with supporting & relevant literatures/ Technical Literature.
- 14) GSTIN should be clearly mentioned in your offer, failing which your offer may not be considered.



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- 15) The items offered should be of good quality confirming to BIS standards, wherever applicable.
- 16) Evaluation of Quotations,
The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which
 - a. are properly signed ; and
 - b. confirm to the terms and conditions, and specifications
- 17) The Quotations would be evaluated for all items together.
- 18) All supplied items are under warranty of 36 months from the date of successful installation with one year onsite technical support.
- 19) Award of contract:
The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.
 - a. Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.
 - b. The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order.
- 20) **Advance payment is not admissible.** Payment shall normally be made within 30-45 days subject to receipt and acceptance & installation (as per Purchase Order Terms) of the ordered materials/items.
- 21) **Performance Bank Guarantee:** 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 only 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). 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. **PBG format is available at IIT(ISM) website.**
- 22) In the event of the supplier failed to supply the materials or install the same as contractual condition, IIT (ISM) shall have the right to deploy suitable agency/ third party to get the job completed at the risk and cost of the supplier.
- 23) Tender must be submitted **in sealed cover only superscribed with Enquiry No. TEQIP-PRJ-116-18-19 and due date** as is **13.08.2018** to The Deputy Registrar, Indian Institute of Technology (Indian School of Mines), Dhanbad -826004.
- 24) Your bid should reach our office preferably latest by **13.08.2018 through speed post/courier only.**
- 25) IIT (ISM) reserves the right to accept and/or to reject any/all tenders without assigning any reason.

Deputy Registrar



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Annexure I

Fluid Properties Apparatus Specifications

For measurement of density, specific gravity of liquids, slurries and solid materials granules, effect of capillary elevation, pressure using aneroid barometer and also the measurement of pH, electrical conductivity (EC) and Total dissolved solids, resistivity, salinity and effect of temperature on such parameters.

Technical specifications:

- At least two Hydrometer jars; with capacity of $\sim 33-35 \text{ cm}^3$ (mL) (clipped to stand).
- A Universal hydrometer with varying resolution of 0.01 at 0.70SG to 0.5 at 2.00 SG (in protective housing).
- At least two Falling sphere viscometer tubes; $\sim 40 \text{ mm}$ diameter having calibration indications at 0, 25, 100, 175, 200 and 220 mm (clipped to stand).
- A Plastic storage box containing steel spheres of about 1.5, 2.25 and 3 mm diameter.
- A Alcohol filled glass thermometer; Range -10° to 50°C (in protective housing)
- A Direct reading aneroid barometer; Range 900 to 1050 mbar (mounted on a stand)
- A Capillary tube apparatus; having a minimum of 6 tubes with a length of $\sim 15 \text{ cm}$. The ID may be of 0.4, 0.6, 0.8, 1.2, 1.7 and 2.2 mm.
- A Archimedes apparatus (displacement vessel, machined bucket & matching cylinder)
- Plastic measuring cylinder 250 and 500 mL capacity.
- Glass beaker of sufficient capacity.
- Gay-Lussac Glass Pycnometer capacity 50 mL
- A Dual scale lever balance, for use in the Archimedes apparatus; Ranges 0 – 250 g x 1g and 0 to 1000 g x 10g.
- At least two containers of a 50 mL capacity.
- With measurement of pH, electrical conductivity (EC) and Total dissolved solids (TDS), resistivity, salinity and effect of temperature on such parameters.

Measurement Capabilities

Measuring density and relative density (specific gravity) of a liquid using a universal hydrometer, a pycnometer (density bottle) and a Pycnometer, Measuring density and relative density of solid objects or granular material using Observing the effect of capillary elevation between flat plates

- Measuring fluid viscosity using a falling sphere viscometer
- Measuring the effect of capillary elevation inside capillary tubes
- Verifying Archimedes principle using a brass bucket & cylinder with a lever balance
- Measuring atmospheric pressure using an aneroid barometer
- pH, electrical conductivity (EC) and Total dissolved solids (TDS), resistivity, salinity and effect of temperature on such parameters.

Additional requirements:

- Calibration check tool master. Dust free Cover. Minimum Five Different Standard Fluids (Silicon oils)
- The system power connection should be compatible with 230 V and 50 Hz AC supply and 3 -way plugs.

Warranty - 60 months (5 years) from the date of successful commissioning / demonstration



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FORMAT FOR QUOTATION SUBMISSION

(In letterhead of the supplier with seal)

Date: _____

To:

Sl. No.	Description of goods (with full Specifications)	Qty.	Unit	Quoted Unit rate in Rs. (Including Ex Factory price, excise duty, packing and forwarding, transportation, insurance, other local costs incidental to delivery and warranty/ guaranty commitments)	Total Price (A)	Sales tax and other taxes payable	
						In %	In figures (B)
Total Cost							

Gross Total Cost (A+B): Rs. _____

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs. _____ (Amount in figures) (Rupees _____ amount in words) within the period specified in the Invitation for Quotations.

We confirm that the normal commercial warranty/ guarantee of _____ months shall apply to the offered items and we also confirm to agree with terms and conditions as mentioned in the Invitation Letter.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

Signature of Supplier

Name: _____

Address: _____

Contact No: _____