



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

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Email: projectpurchase@iitism.ac.in

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Website: www.iitism.ac.in

CE-PRJ-061-24-25

28th February, 2025

Request for Quotation

To,
M/s

Subject: Supply & Installation of Triaxial Cell with Top and Base.

Sir,

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

Sl. No.	Detailed Specifications	Quantity
1.	Supply & Installation of Triaxial Cell with Top and Base. (Detailed specification as per Annexure- I)	01 No

INSTRUCTIONS:

- 1) Please attach relevant technical literature of the item.
- 2) Please mention the warranty/ guarantee period in your offer. The equipment/ material supplied must have a minimum warranty/ guarantee of **12 months**.
- 3) Please attach an authorization certificate from OEM.
- 4) Please mention after-sales service information in your offer.
- 5) **Please attach a certificate that the quoted price is not more than that of any other Govt. organization/ institution in India. This must be mentioned in the offer letter clearly.**
- 6) The rates should be quoted for each item separately as per the price schedule attached as Annexure III.
- 7) The items/ materials shall be required to be delivered to the Department of **Civil Engineering** IIT (ISM) Dhanbad at the risk and cost of the tenderer.
- 8) Your tender must be **valid for a minimum of 120 days** from the date of opening of the tender.
- 9) The stores are required to be delivered within 60 days; late delivery may not be accepted.
- 10) Full details of stores offered should be given in the tender along with supporting & relevant literature/ Technical Literature.
- 11) The items offered should be of good quality conforming to BIS or equivalent standard, where applicable.
- 12) **Advance payment is not admissible.** Payment shall normally be made within 45 days subject to receipt and acceptance & installation (as per Purchase Order Terms) of the materials ordered/items.
- 13) In the event of the supplier failing to supply the materials or install the same as per contract condition, IIT (ISM) Dhanbad shall have the right to deploy a 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 super scribed with Enquiry No. CE-PRJ-061-24-25 latest by 21.03.2025**
- 15) The offer must be submitted in the office of Deputy Registrar (Project Purchase Section), Office of Dean(R&D), iRh Building 2nd Floor, IIT (ISM), Dhanbad– 826004 (Jharkhand, India) only. Please send your offer by Regd. Post / Speed Post/ Courier along with Courier receipt. Tender/ quotation will be



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received during IIT (ISM) Dhanbad working hours only (i.e. Monday to Friday). At any circumstances by hand delivery is not acceptable.

- 16) **Performance Security:** To ensure due performance of the item, you are required to submit 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.
- 17) Any other information that you may like to obtain, you are free to contact IIT (ISM) Dhanbad before submission of tender.
- 18) You are requested to fill the enclosed **Annexure IV, V and VI.**
- 19) IIT (ISM) Dhanbad reserves the right to accept and/or to reject any/all tenders without assigning any reason.
- 20) **Payment:** Payment will be made within 45 days after satisfactory supply, inspection, installation/commissioning/ satisfactory services & acceptance and on submission of pre-receipted tax invoice, delivery challan, warranty certificate and installation report in triplicate.
- 21) **Please attach purchase order copies of the same/similar equipment which you have supplied to any other Govt., public sector and autonomous institutions.**
- 22) **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 submits 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) Dhanbad

Deputy Registrar
Project Purchase Section
Office of Dean (R&D)
IIT(ISM) Dhanbad

**Annexure: I****TECHNICAL SPECIFICATIONS****TRIAXIAL CELL WITH TOP & BASE**

- The triaxial Cell must be compatible with our **existing Flexible Wall Permeameter** (specification of existing flexible wall permeameter is given as Annexure – II for reference).
- The triaxial cell is suitable for use with samples up to 75 mm dia, tested for pressures to 1700 kPa and working pressure of 1000 kPa. It should include a transparent acrylic chamber, a hardened stainless steel piston, and interchangeable pedestals and top caps for specimens of sizes 38 mm, 50 mm, and 75 mm. The cell should have five zero-volume-change valves (two each for the top and base of the specimen, one for cell pressure) with an integral de-airing block for the pore-pressure transducer. Valve fittings should be brass with cell top and base made of precision machined 6061 T6 Aluminium hard coated and Teflon impregnated. The piston should be hardened stainless steel inside a linear bearing. The supplied cell is complete with top and bottom platens for testing specimens of sizes 38 mm.
- All other accessories must be included with the above materials, such as membrane stretcher, mold, etc.



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Annexure - II

TECHNICAL SPECIFICATIONS

FLEXIBLE WALL PERMEAMETER SUITABLE FOR TESTING WITH TOXIC PERMEANTS FOR REFERENCE ONLY

- **Pressure Distribution Panel** - 1 No. including Master control panel, for saturating and carrying out permeability / hydraulic conductivity tests on one specimen using a permeability cell in conformity to ASTM D5084; BS 1377 Part 6 1990. Pressure system to control the pressure, water, de-airing tank and vacuum from a single panel, utilises a set of three burettes to control cell, top and base pressures in a specimen. Monitor volume change in the sample and can be used to measure the flow of water through the sample for permeability testing. Lightweight aluminium construction for long, rust-free life. Expandable to simultaneously test up to 6 specimens by adding auxiliary panels without additional master control units.
- **Pressure/resolution** Up to 1000 kPa with Resolution of 1 kPa
- **Inner Burette** : Cell 50cc x 0.1 cc (ml), Top & Base 10cc x 0.02 cc (ml)
- **Outer Burette**: Cell 400cc (ml), Top & Base 460cc (ml)
- **Bias Pressure Regulator** for simultaneous control of confining and back pressure while maintaining a constant differential.
- **Bridge Feature** for simultaneous control of base and top pressures by adjusting one pressure regulator.
- Master control panel houses digital pressure readout for the controlling pressure, inlet vacuum regulator and gauge, inlet pressure regulators and gauge, de-aired water tank controls, tap and de-aired water supply outlets, and pressure and vacuum outlets
- no-volume change valves and constant-bleed type precision regulators for accurate control of pressures.
- All inlets and outlets utilise quick-connects to ensure fast, accurate setup
- **Permeability Cell** – 1 No. 1000 Kpa continuous test capacity, 5 (Five) No volume change valves - 2 for top, 2 for base and 1 for cell. All stainless steel valves and fittings, 38 mm SS Top cap and Base pedestal set.
- **Toxic Interface Units** – 2 Nos: For permeability tests of corrosive or toxic permeants. Flexible fluoroelastomer bladder accumulator interfaces between control panel and sample drains on permeameter. Acts a fluid separator to prevent permanent



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from entering the control panel. Also prevents contact of air with permanent, thus no toxic or corrosive vapours can escape into the lab. Two units are required for each cell.

- **Other Accessories:** 38mm dia. Porous Stone-02 nos., Latex Membranes 38mm-12 pcs, Membrane Stretcher 38mm-1 no., O Rings 38 mm-12 pcs, O Ring Placing Tool 38 mm-1 no., Filter Paper-100pcs, 2 Part 38mm compaction mould, suitable air compressor 1000 kpa, vacuum pump, Installation kit including set of tubes, connectors, ferrules, vacuum grease etc.



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Annexure –III

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 _____



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Annexure - IV

Declaration by bidder

(Please specify Class of Supplier and Local Content percentage)

In accordance and manner as specified in Order No. P45021/2/2017-PP (BE-II) dated :
04th June 2020 issued by DIPP, Ministry of Commerce and Industries, Gol.

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 am aware about all provision mentioned in RFQ Bid No.as well as order No. P-45021/2/2017-PP (BE-II) dated 04th June 2020 and abides by the same.
- 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.
- 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.
- 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.
- 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.			

Date:

Signature:

Name of Authorized Signatory:

Name of Bidder:

Seal of Bidder:



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Annexure -V

SELF-CERTIFIED DECLARATIONS FOR TAKING PART IN TENDER

a. Regarding blacklisting / debarring

b. Insolvency

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- VI

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: _____