


Government eProcurement System		eProcurement System Government of India	
		Tender Details	
		Date : 06-Mar-2025 01:07 PM	
		 Print	
Basic Details			
Organisation Chain	Indian Institute of Technology(ISM) Dhanbad Administration - ISMD Purchase and Stores - ISMD		
Tender Reference Number	PE-INS-CPPP-212-23-24		
Tender ID	2025_ISMD_852027_1	Withdrawal Allowed	Yes
Tender Type	Global Tenders	Form of contract	Supply
Tender Category	Goods	No. of Covers	2
General Technical Evaluation Allowed	No	ItemWise Technical Evaluation Allowed	No
Payment Mode	Offline	Is Multi Currency Allowed For BOQ	Yes
Is Multi Currency Allowed For Fee	No	Allow Two Stage Bidding	No
Payment Instruments		Cover Details, No. Of Covers - 2	
Offline	S.No	Instrument Type	
	1	Bank Guarantee	
	2	Demand Draft	
	3	FDR	
Cover No	Cover	Document Type	Description
1	Fee/PreQual/Technical	.pdf	Technical Bid
2	Finance	.xls	Financial Bid
Tender Fee Details, [Total Fee in ₹ * - 0.00]		EMD Fee Details	
Tender Fee in ₹	0.00	EMD Amount in ₹	50,000
Fee Payable To	Nil	EMD Exemption Allowed	Yes
Fee Payable At	Nil	EMD Fee Type	fixed
Tender Fee Exemption Allowed	No	EMD Payable To	Registrar, IIT(ISM) Dhanbad
		EMD Percentage	NA
		EMD Payable At	Dhanbad
Click to view modification history			
Foreign Currency BOQ Details			
S.No	Currency	Conversion rate in ₹	
1	US Dollar	NA	
2	European Euro	NA	
3	Japanese yen	NA	
Work /Item(s)			
Title	Supply and Installation of Fully Automatic Video Based Spinning Drop Tensiometer under buy-back scheme		
Work Description	Supply and Installation of Fully Automatic Video Based Spinning Drop Tensiometer under buy-back scheme		
Pre Qualification Details	As per Tender Document		
Independent External Monitor/Remarks	NA		
Show Tender Value in Public Domain	No		

Tender Value in ₹	25,00,000	Product Category	Laboratory and scientific equipment	Sub category	NA
Contract Type	Tender	Bid Validity(Days)	180	Period Of Work(Days)	56
Location	IIT(ISM) Dhanbad	Pincode	826004	Pre Bid Meeting Place	IIT(ISM) Dhanbad
Pre Bid Meeting Address	Conference Hall, Administrative Building, IIT(ISM) Dhanbad	Pre Bid Meeting Date	17-Mar-2025 11:00 AM	Bid Opening Place	Purchase and Stores
Should Allow NDA Tender	No	Allow Preferential Bidder	No		

Critical Dates

Publish Date	06-Mar-2025 06:50 PM	Bid Opening Date	21-Apr-2025 11:00 AM
Document Download / Sale Start Date	06-Mar-2025 06:55 PM	Document Download / Sale End Date	18-Apr-2025 06:00 PM
Clarification Start Date	06-Mar-2025 06:55 PM	Clarification End Date	17-Mar-2025 10:00 AM
Bid Submission Start Date	18-Mar-2025 06:00 PM	Bid Submission End Date	18-Apr-2025 06:00 PM

Tender Documents

NIT Document	S.No	Document Name	Description	Document Size (in KB)
	1	Tendernotice_1.pdf	Tender Notice	355.58

Work Item Documents	S.No	Document Type	Document Name	Description	Document Size (in KB)
	1	Tender Documents	tndrdc.pdf	Technical Bid	639.09
	2	BOQ	BOQ_895653.xls	Financial Bid	302.50

Auto Extension Corrigendum Properties for Tender

Iteration	No. of bids required for bid opening a tender	Tender gets extended to No. of days
1.	3	14

Bid Openers List

S.No	Bid Opener Login Id	Bid Opener Name	Certificate Name
1.	satyendrkr@iitism.ac.in	satyendra kumar	SATYENDRA KUMAR
2.	rohit@iitism.ac.in	Rohit Kumar Singh	ROHIT KUMAR SINGH
3.	mukesh@iitism.ac.in	Mukesh Tiwari	Mukesh Tiwari
4.	hemsagar@iitism.ac.in	Hemsagar Hembrom	Hemsagar Hembrom

GeMARPTS Details

GeMARPTS ID	O2KCYQ6C2JAK
Description	Spinning Drop Tensiometer
Report Initiated On	04-Mar-2025
Valid Until	03-Apr-2025

Tender Properties

Auto Tendering Process allowed	No	Show Technical bid status	Yes
Show Finance bid status	Yes	Stage to disclose Bid Details in Public Domain	Technical Bid Opening

BoQ Comparative Chart model	Normal	BoQ Comparative chart decimal places	2
BoQ Comparative Chart Rank Type	L	Form Based BoQ	No

TIA Undertaking

S.No	Undertaking to Order	Tender complying with Order	Reason for non compliance of Order
1	PPP-MII Order 2017	Not Applicable	Exempted under F.No.32-27/2023-TS.I dated 17.02.2025
2	MSEs Order 2012	Not Applicable	Exempted under F.No.32-27/2023-TS.I dated 17.02.2025

Tender Inviting Authority

Name	Deputy Registrar (Purchase and Stores)
Address	Purchase and Stores, Administrative Building, IIT(ISM) Dhanbad

Tender Creator Details

Created By	Ashish Singh
Designation	Junior Superintendent (Admin)
Created Date	05-Mar-2025 04:00 PM

INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES) DHANBAD

Tender No. PE-INS-CPPP-212-23-24

Date: 06.03.2025

E-TENDER NOTICE **(Global Tender Enquiry)**

The Indian Institute of Technology (Indian School of Mines) Dhanbad invites Bids from eligible, qualified, and capable manufacturer/dealer/suppliers for “**Supply and Installation of Fully Automatic Video Based Spinning Drop Tensiometer under buy-back scheme**”, according to the requirements as defined in the Tender document.

Sl. No	Tender No.	Particulars	Required Quantity	Amount of EMD
1.	PE-INS-CPPP-212-23-24	“Supply and Installation of Fully Automatic Video Based Spinning Drop Tensiometer under buy-back scheme. Details of old Spinning Drop Tensiometer (proposed for buy-back) are as under: Make: Dataphysics, Model:SVT15, Year of Purchase:2013 ”	1	Rs.50,000

Earnest Money Deposit (EMD) in the form of Demand Draft should be drawn in favour of Registrar, IIT (ISM) Dhanbad payable at Dhanbad. EMD can also be deposited in the form of a Term Deposit Receipt/Fixed Deposit Receipt/Bank Guarantee drawn in favour of Registrar, IIT (ISM) Dhanbad. A scanned copy of EMD should be uploaded on www.eprocure.gov.in along with the technical bid.

The hard copy of the same in the original is to be sent to the address mentioned below duly super scribing the Tender Number and Name on the envelope and the same must be reached in the IIT (ISM) Dhanbad on or before the due date and time for the opening of technical bid. If not received within 05 days after the last date of submission of bid, the bid will be summarily rejected.

Sl. No.	Description	Date	Time
1	Tender Publication Date	06.03.2025	06:50 PM
2	Pre-Bid Conference date and time	17.03.2025	11:00 AM
3	Bid submission start date and time	18.03.2025	06:00 PM
4	Bid submission end date and time	18.04.2025	06:00 PM
5	Technical Bid opening date and time	21.04.2025	11:00 AM
6	Financial Bid opening	Technically qualified bidders will be informed about date and time of opening of financial bids through CPPP.	

IIT (ISM) Dhanbad reserves the right to accept or reject the tenders without assigning any reason.

The original EMD should be sent to:

Deputy Registrar (Purchase and Stores)
IIT (ISM) Dhanbad,
Distt. Dhanbad – 826004
Jharkhand.

Deputy Registrar (Purchase and Stores)
IIT (ISM) Dhanbad

Instructions to the bidders for online bid submission

The bidders are required to submit their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal to prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal. More information for submitting online bids on the CPP Portal may be obtained at <https://eprocure.gov.in>.

1. Registration:

- (a) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <https://eprocure.gov.in>) by clicking on the link “**Online bidder Enrollment**” on the CPP Portal which is free of charge.
- (b) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- (c) Bidders are advised to register their valid email addresses and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- (d) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India, with their profile.
- (e) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible for ensuring that they do not lend their DSC’s to others which may lead to misuse.
- (f) Bidder then logs in to the site through the secured log-in by entering their user ID/ Password and the password of the DSC / e-Token.

2. Searching for tender documents:

- (a) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
- (b) Once the bidders have selected the tenders they are interested in, they may download the required documents/tender schedules. These tenders can be moved to the respective ‘My Tenders’ folder. This would enable the CPP Portal to intimate the bidders through SMS/E-mail in case there is any corrigendum issued to the tender document.
- (c) The bidder should make a note of the unique Tender ID assigned to each tender; in case they want to obtain any clarification/help from the Helpdesk.

3. Assistance to bidders:

- (a) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk.
- (b) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.

4. **Submission of the bid:**

All interested eligible bidders are requested to submit their bids online through CPP Portal: <http://eprocure.gov.in> as per the criteria given in this document:

- (a) Technical Bid should be uploaded online in cover-1.
- (b) One single pdf containing all technical documents, duly filled and signed Annexures, copy of EMD etc. must be uploaded.
- (c) Financial Bid should be uploaded online in cover-2.

Both Technical and Financial Bid covers should be placed online on the CPP Portal <http://eprocure.gov.in>.

(A) Technical bid:

Signed and Scanned copies of the technical bid documents must be submitted online on CPP Portal: <http://eprocure.gov.in>.

List of Documents to be scanned and uploaded with Technical Bid (Under Cover-1). The enclosures have to be attached in the serial order as mentioned hereunder:

- (i) Scanned copy of EMD deposited in the form of Demand Draft, Term Deposit Receipt/Fixed Deposit Receipt/Bank Guarantee drawn in favor of Registrar, IIT (ISM) Dhanbad.
- (ii) A scanned copy of the certificate mentioning the status of the Firm/Agency/Company/proprietary/ partnership (as applicable) from the competent authority.
- (iii) Scanned copy of certificate from the OEM indicating that the Firm/Agency/Company/proprietary/partnership is authorized/registered to sale/ supply the tendered items.
- (iv) Scanned copy of PAN Card (as applicable to the type of tenderer) and Goods and Services Tax Registration Certificate.
- (v) Scanned copy of duly filled **Annexure-A, Annexure-B, Annexure-C, Annexure-D, Annexure-E and Annexure-F.p**
- (vi) Scanned copy of purchase/work/supply order as proof of past performance (if any).
- (vii) Scanned Copy of Original catalogue/brochures of the items quoted.

Note: (a) All the above-mentioned documents must be scanned and merged as a single PDF along with the Technical Bid. This single PDF of Technical Bid should be uploaded under Technical Cover in CPP Portal.

- (b) The technical bid may be rejected, if the above-mentioned documents are not attached.
- (c) For the tender value up to Rs. 10 Crores, Self-Certificate for local content, and for the tender value above Rs. 10 Crores, Certificate for local content from Statutory Auditor/Cost Auditor/Cost Accountant/CA, must be attached.

(B) Financial bid:

In preparing the financial bids, bidders are expected to consider the requirements and conditions laid down in this Tender document. The financial bids should be uploaded online as per the specified “.xls” format i.e. Price Bid Excel sheet attached as ‘xls’ with the tender and based on the scope of work, service conditions and other terms of the Tender document.

5. Other instructions:

- (a) The detailed tender documents may be downloaded from <http://eprocure.gov.in> till the last date of submission of the tender. The tender can only be submitted online through CPP Portal <http://eprocure.gov.in>
- (b) Bids will be received only online mode through www.eprocure.gov.in up to the date & time mentioned in the E- TENDER NOTICE. No tender/bid will be accepted in physical form and any tender/bid received in such manner will be treated as non-bonafide tender/bid.
- (c) Bid will be opened on the scheduled date and time in the presence of tenderers/bidders or their authorized representatives (if any), who have uploaded their quotation/ bid and who wish to be present at the time of opening the bids.
- (d) All the bids must be valid for a period of 180 days from the last date of submission.
- (e) Bidders are requested to go through the instructions regarding filling and submission of the tender attached herewith. Bidders may forward their points on tender documents and/or depute their technical representative for discussion on tender/drawing and to clarify doubts, if any, on the stipulated pre-bid date.
- (f) Bidders shall upload a scanned copy of the Earnest Money Deposit (EMD) mentioned in the Notice of Tender and shall ensure the receipt of a hard copy of the same in the Purchase and Stores Section, IIT (ISM) Dhanbad, Distt. Dhanbad - 826004, Jharkhand within 05 days after the last date of submission of bid. In case of failure of the same, the technical bid will not be evaluated.
- (g) In view of delays due to system failure or other communication-related failures, it is suggested that the tender/bid be uploaded sufficiently in advance of the last due date and time fixed.
- (h) If any alterations to any of the conditions, specifications laid down in the tender documents are found or any new condition is mentioned by the tenderer, in the tender document, such tender/bid will be rejected.
- (i) IIT (ISM) Dhanbad reserves the right to cancel the tender at any point of time without assigning any reason.

TENDER FOR “Supply and Installation of Fully Automatic Video Based Spinning Drop Tensiometer under buy-back scheme”

TERMS AND CONDITIONS

1. The technical specifications/conditions are mentioned in **Annexure-III**. Bidders are required to go through the technical specifications/conditions carefully before submission of bids.
2. Tender Specific Authorization letter from Original Equipment Manufacturer (OEM) in favor of the bidder must be uploaded with technical bid for each item quoted.
3. The tenderer should upload detailed technical description/catalogue/brochure along with the technical bid. If not uploaded, the bid may be summarily rejected. If there is any deviation in specifications mentioned in the technical bid and Catalogue/Brochure, then the specifications given in the technical bid shall be considered and shall be treated as final.
4. The tenderer should not have been debarred or blacklisted by any Central / State Government. A self-attested certification to that effect must be uploaded with the technical bid in the prescribed format. The proforma of the certificate is enclosed with the tender as **Annexure-A**.
5. All the bids must be valid for a period of 180 days from the last date of submission. In exceptional circumstances, prior to expiry of the original time limit, the Institute may request the bidders to extend the period of validity for a specified additional period beyond the original validity of 180 days. The request and the bidders' responses shall be made in writing. The bidders, not agreeing to such extensions will be allowed to withdraw their bids without forfeiture of their Bid Security.
6. **EMD Exemption:** EMD exemption shall be given to those bidders who are registered with the Central Purchase Organization or NSIC or MICRO and Small Enterprises (MSEs) as defined in MSME Procurement Policy issued by the Department of Micro and Small Enterprises (MSME). To claim the exemption, the bidder must be offering goods manufactured by themselves or providing relevant services. Exemption will not be granted in case the bidder is acting as an agent for some other vendor. Bidders are required to upload necessary certificates to claim EMD exemption.
7. **Instruction to the bidder of countries which share land border with India (Rule 144(xi) GFRs).**
Any bidder from a country that shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Department for Promotion of Industry and Internal Trade (DPIIT). As per Office Memorandum No. F.7/10/2021-PPD (1) dated: 23.02.2023 issued by the Department of Expenditure (Ministry of Finance), Govt. of India, the bidder is required to submit an undertaking as per **Annexure-D**.

8. MII & Purchase Preference:

The MII compliances shall be as per Govt. of India guidelines. Only Class-I local suppliers, Class-II local suppliers and Non-local suppliers are eligible to participate in this Global Tender Enquiry (GTE). As per the Ministry of Commerce and Industry Order No. P-45021/2/2017-

PP(BE-II) dated 04.06.2020 preference shall be given to Make in India products for which bidders must declare Country of Origin of goods and percentage of Local contents in the product. The purchase preference shall be as per Govt. of India guidelines. All the bidders must upload undertaking as per Annexure-C with the Technical Bid. All the bidders must upload undertaking as per **Annexure-C** with the Technical Bid.

9. Evaluation Procedure:

Phase-I: Technical Evaluation

Technical evaluation will be done based on documents submitted by the bidder in the technical bid. Hence bidders are required to enclose all relevant documents along with the technical bid. Discrepancy in relevant supporting documents shall lead to the rejection of technical bids.

Phase-II: Financial Evaluation

- a. Financial bids of the technically qualified bidders shall only be opened.
- b. The bid will be awarded to the L-1 bidder.

10. Delivery, Installation and Commissioning:

For Foreign Consignment: The delivery, installation and commissioning of the item(s) must be made within 08 weeks from the issue of the Letter of Credit (LC).

For Indigenous Consignment: The delivery, installation and commissioning of the item(s) must be within 08 weeks from the issue of the Purchase Order.

Any requirement for installation (if applicable) should be communicated at least one month before installation to make suitable arrangements.

11. Prices:

For Foreign Bids: The base price should be quoted on FOB/FCA basis. Other applicable charges/taxes such as Freight, Insurance and Forwarding charges etc. shall be quoted separately. The exchange rate should be considered on the date of opening of the tender.

For Indigenous Bids: The price should be quoted on FOR IIT(ISM) Dhanbad basis including all applicable taxes, Charges etc.

12. Liquidated damages (LD):

If a bidder fails to deliver/install/commission the item or any part thereof within the period prescribed for delivery, installation and commissioning, the Institute shall be entitled to recover as liquidated damages a sum equivalent to 1% (one percent) per week of the purchase order. The total damages shall not exceed 5% (five percent) of the value of the purchase order.

For Foreign Order: Delivery, Installation and commissioning period will be counted from the date of issue of Letter of Credit (LC).

For Indigenous Order: Delivery, Installation and commissioning period will be counted from the date of issue of Purchase Order.

13. Inspection:

Institute authority will inspect the supplied item after delivery/installation/commissioning, whichever is applicable. In case the item is not supplied/installed (as the case may be) as per specifications of the purchase order or item is not working satisfactorily, then the same will be rejected.

14. Training:

The tenderer will have to provide training to the designated staff of the Institute after successful delivery/installation/commissioning. The training should include operation, maintenance, troubleshooting, safety, and routine care of the item.

15. Payment Terms:

For Foreign Payment: The payment will be released through Irrevocable Letter of Credit (LC). Irrevocable Letter of Credit (LC) will be established for 90% of the Purchase Order (PO) value on submission of order acceptance letter, proforma invoice with the details of terms & conditions to open LC with the entire Bank details and integrity pact. The 90% of the invoice amount will be paid on presentation of original shipping documents and other applicable documents to our bankers and the balance 10% will be paid after successful installation, commissioning, demonstration of the whole system, imparting training (if applicable) and on receipt of performance security @ 5% of total order value valid for **26 months** from the date of installation.

For Indigenous Payment: 100% payment shall be made by NEFT/RTGS against submission of bills in triplicate, only after satisfying following conditions:

- a. Successful delivery, Installation and commissioning by supplier.
- b. Inspection and testing of the items by the Institute authority.
- c. Training provided by the supplier if applicable.
- d. Supply of all manuals, Installation Certificate and calibration Certificate.
- e. Submission of Performance security.
- f. Submission of duly signed & stamped guarantee / warranty declaration certificate.
- g. Payment shall not be made for part supply/work.

16. Extension of Delivery/Installation/Commissioning Period:

If the supplier is unable to deliver/install and satisfactorily commission the order within the stipulated time, for which the supplier is responsible, he is required to request in writing for the extension of the delivery/Installation/Commissioning period before the stipulated date of delivery/Installation/Commissioning. It may be extended at the discretion of competent authority with/without imposing liquidated damages. In case the supplier has failed to complete the order within the stipulated time, the Institute reserves the right to cancel the purchase order and to forfeit performance security and/or EMD.

17. Warranty:

- a. **Minimum Warranty** is to be provided for **two years**. If the warranty mentioned in the catalogue is less than the specified time, in that case, the supplier must provide for the remaining period. In case the product comes with more than the stipulated guarantee/warranty period, it will be provided by the supplier free of cost.

- b. Guarantee / Warranty will commence from the date of the satisfactory installation/commissioning of equipment against the defect of any manufacturing and poor quality of components.
- c. A signed & stamped guarantee/warranty declaration certificate will have to be furnished by the successful tenderer at the time of supply along with the bills.
- d. In case the supplier has failed to repair/rectify the equipment during the guarantee/warranty period in a reasonable time not exceeding 3 weeks, the Institute may employ or pay other parties for such repairs of the equipment and all such damages, loss and expenses shall be recoverable from the performance security submitted by the supplier.

18. Performance Security:

- a. To ensure due performance of the item, performance security is to be furnished by the successful tenderer.
- b. The performance security should be furnished within 21 days of the award of supply order.
- c. Performance security should be for an amount of five percent (5%) of the total value of the supply order.
- d. 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.
- e. Performance security should remain valid for a period of **26 months** from the date of installation. The performance security will be refunded without any interest, provided that the performance is satisfactory.

19. Refund of EMD

- a. EMD will be refunded without any interest to the successful tenderer on receipt of performance security.
- b. The tenderer, who are not qualified for the tender either in technical bid or on any other grounds, their EMD will be refunded within 30 days from the award of the contract.
- c. If a supply order is placed and the successful tenderer fails or refuses to supply the item, in such case the EMD will be forfeited.

20. Cancellation of tender: IIT (ISM) Dhanbad reserves the right to cancel the tender at any point of time without assigning any reason.

21. Legal: Any dispute regarding the meaning, effect or interpretation of any clause of this contract/agreement shall be referred to the sole Arbitrator i.e. Director, IIT (ISM) Dhanbad who would act as the sole Arbitrator and proceedings of such arbitration shall be conducted in accordance with the provisions of the Indian Arbitration Act, 1940 or any statutory modification thereof. The venue of Arbitration shall be IIT (ISM) Dhanbad only and the language shall be English only. In case of litigation, if any, the District Court of Dhanbad (Jharkhand) shall have jurisdiction for any such litigation.

Technical Specifications of the Item

Specification of Fully Automatic Video Based Spinning Drop Tensiometer

The instrument should be Fully Automatic Optical Video Based Spinning Drop Tensiometer for measuring of conventional to extremely low interfacial tensions of two immiscible phases in moderate range of salinity and pH.

The Spinning Drop Tensiometer and Measuring Cell should conform following features :

- Stage for mounting the measuring cell with electronically commutated, highly dynamic and vibration free D.C. motor.
- Intensity adjustable, stroboscopic or permanent LED-lighting with build-in triggering of the video system to allow the observation of droplets in different orientations.
- Automatic, software-controlled positioning of the optical zoom lens for an easy centering of the droplet along the optical axis
- High-performance six-fold power zoom lens with an integrated continuous fine focus.
- Video system with max. 3250 images/s sample rate.
- USB 3 interface with PC connecting cable.
- Bus system for optional extension by additional accessories.
- The Instrument should be very compact design to allow fast and precise results.
- System should offer the widest range of temperature control with any measuring chamber.
- For future upgradation of measuring chambers with wide range of temperature ranges.
- The system must work with superheated water of up to 130 °C with special pressure withstanding capillaries.
- Software Controlled Rotational Speed of the Capillary.

The instrument should conform technical specifications as follows :

Interfacial tension (IFT) measuring range: 1×10^{-6} to 1×10^3 mN/m or better

IFT measuring resolution: 1×10^{-5} mN/m or better

Rotational-speed range: 0 to 20,000 rpm or better

Rotational-speed resolution: ± 0.001 rpm or better

Speed long term stability: ± 0.5 rpm or better

Tilt angle of capillary block: $\pm 15^\circ$ or better

Tilting Resolution: $\pm 0.002^\circ$ or better

Camera: 6.5-fold zoom lens (0.7 ... 4.5 magnification) with integrated continuous fine focus (± 6 mm) and high light transmitting capacity; USB 3 camera 2/3" sensor: max. resolution 2048 x 1088 pixels with 180 frames/s, max. frame rate 3250 frames/s with 2048 x 60 Pixel or better.

Illumination: LED-lighting with strobe function and adjustable slit diaphragm

Power supply: 100 -240 VAC; 50 to 60 Hz; 200 W

Measuring cell liquid-/gas-controlled Temperature controlled measuring cell for mounting onto the tilting stage.

Temperature Range: -10 to 130 °C

PT100 as measurement sensor with temperature range: -10...130 °C, recommended up to 90 °C
Fast Exchange Capillary: Inclusive one Injection Cap (IC-FEC), 5 Septa (IC-SE/HT), three O-rings (Clamping), and one Capillary Filling Accessory (CFA 400) with temperature range: -30...180 °C; outer diameter: 6.22 mm; inner diameter: 4.0 mm; total length of capillary: 110 mm; working length (optically): 50 mm

Control and calculation software for IFT:

For: video-based measurement and presentation of the time and temperature-dependent interfacial tension measurement by Spinning Drop Method; presentation of measurement values as well as the recording of video sequences for the calculation of fast processes; control of rotational speed, the inclination of the tilting base with the measuring cell and the camera position; calculation of interfacial tensions based on spinning drop contours according to Vonnegut, Cayias-Schechter-Wade or Young-Laplace; automatic calibration of the drop size; automatic temperature recording; control of liquid dosing systems; statistical evaluations and error analysis.

Warranty: Comprehensive on-site warranty for minimum of **Two Years**.

Details of the old Spinning Drop Tensiometer (proposed for buy-back) are as under:

Make: Dataphysics,
Model: SVT15,
Year of Purchase:2013

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** by the Central/State Government or any other Organization.

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 the Central/State Government or any other Organization from taking part in Government tenders in India.

OR

I / We _____ (Tenderer) hereby declare that the Firm/Agency/Company, namely M/s _____ was **blacklisted or debarred** by _____ (Name of 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 at any point of time, I / We am/are fully aware that the IIT (ISM) Dhanbad can cancel the purchase order and forfeit the EMD. Further, I will not claim any payment for any supplied item against cancelled purchase order.

Date:

Place:

Signature:

Name:

Address:

Stamp:

Details of quoted item

(This Annexure must be submitted separately for each item mentioned in Annexure-III)

Tender No. **PE-INS-CPPP-212-23-24**

Name of Tender: “**Supply and Installation of Fully Automatic Video Based Spinning Drop Tensiometer under buy-back scheme**”

- 1. Name of the Equipment/Product _____
- 2. Name of original manufacturer _____
- 3. Make/Brand: _____
- 4. Model Number: _____ (provide complete literature/catalogue)
- 5. Warranty Period: _____(months)
- 6. Delivery, Installation and Commissioning Time: _____(days)
- 7. Specifications: Details of technical specifications of quoted item are as under

Note: Technical Specifications for quoted items should strictly as per Annexure-III.

Technical Specifications	Quantity

Date:
Place:

Signature: _____
Name: _____
Address: _____
Stamp:

Declaration for Local Content

(For the item value below Rs.10 Crores)

(To be given by the Statutory Auditor/Cost Auditor/Cost Accountant/CA for the item value above Rs.10 Crores)

Date: _____

To,
The Director,
IIT (ISM) Dhanbad.
Sub: Declaration of Local content.

Tender No: **PE-INS-CPPP-212-23-24**

Name of Tender: **“Supply and Installation of Fully Automatic Video Based Spinning Drop Tensiometer under buy-back scheme”**

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 of the 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) for offered item 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. I am fully aware that false declaration will be in breach of Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.
- 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.			

Yours Faithfully,

**(Signature)
Seal**

Certificate by the bidder

Date:

To,
The Director,
IIT (ISM) Dhanbad.

Subject: Undertaking regarding type of bidder.

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

Tender No. **PE-INS-CPPP-212-23-24**

Name of Tender: **“Supply and Installation of Fully Automatic Video Based Spinning Drop Tensiometer under buy-back scheme”**

Sir,

1. 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 fulfils all requirements in this regard and is eligible to be considered. [Where applicable, evidence of valid registration by the Competent Authority is attached.]
2. 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 contractors 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 contractor from such countries unless such contractor is registered with the Competent Authority. I hereby certify that this bidder fulfills all the requirements in this regard and is eligible to be considered. [Where applicable, evidence of valid registration by the Competent Authority is attached.]”

Yours Faithfully,

(Signature of the Bidder)

Seal

Tender Acceptance Letter

To,
The Director,
IIT (ISM) Dhanbad.

Subject: Acceptance of Terms & Conditions of Tender.

Tender No. **PE-INS-CPPP-212-23-24**

Name of Tender: **“Supply and Installation of Fully Automatic Video Based Spinning Drop Tensiometer under buy-back scheme”**

Sir,

1. I / We hereby certify that I/we have read the entire tender document including all annexures. I/we have read all the terms and conditions of the tender documents. I/we hereby undertake that I/we shall abide by the terms/conditions/clauses mentioned in the tender document.
2. The corrigendum(s) issued from time to time by your department/ organization too have also been taken into consideration, while submitting this acceptance letter.
3. I / We hereby unconditionally accept the tender conditions of above-mentioned tender document(s) / corrigendum(s) in its totality/entirety.
4. I / We will supply/provide the goods/services as per the specifications/conditions as mentioned in Annexure-III.
5. I / We do hereby declare that our Firm has not been blacklisted/ debarred/ terminated/ banned by any Govt. Department/Public sector undertaking.
6. I / We certify that all information furnished by me/our firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organization shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the Earnest Money Deposit.

Yours Faithfully,

(Signature of the Bidder)

Seal

BID/TENDER SPECIFIC AUTHORIZATION LETTER

(To be given on OEM Letter Head)

To,
The Director
IIT(ISM), Dhanbad.

Tender No.: **PE-INS-CPPP-212-23-24**

Name of Tender: **“Supply and Installation of Fully Automatic Video Based Spinning Drop Tensiometer under buy-back scheme”**

Equipment Name: _____.

Sir,

1. We, _____, who are established and reputable manufacturers of _____ having factories at _____ and _____ hereby authorize _____ (Name of Authorized Dealer/Distributor/Supplier) to bid, negotiate and conclude the contract with IIT (ISM) Dhanbad against this tender for the above goods manufactured by us.
2. No company or firm or individual other than _____ are authorized to bid, negotiate and conclude the contract in regard to this business against this specific tender.
3. We also hereby undertake to provide full guarantee/warranty /Comprehensive Annual Maintenance Contract as agreed by the bidder in the event the bidder is changed as the dealers, or the bidder fails to provide satisfactory after-sales and service during such period of Comprehensive Warranty / Comprehensive Annual Maintenance Contract and to supply all the spares/accessories/consumables etc. during the said period.
4. We hereby extend our full guarantee and warranty as per the conditions of the tender for the goods bided for supply against this tender by the above firm.
The authorization is valid up to _____

Yours faithfully,

(Signature of the Tenderer)

For and on behalf of M/s. _____

(Name of manufacturers)/Principal

Seal:

