

TENDER MANAGEMENT

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View Tender Details

Basic Details

Organisation Chain	Indian Institute of Technology(ISM) Dhanbad Administration - ISMD Purchase and Stores - ISMD		
Tender Reference Number	EE-INS-CPPP-182-25-26		
Tender ID	2025_ISMD_880507_1	Withdrawal Allowed	Yes
Tender Type	Single	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	No
Is Multi Currency Allowed For Fee	No	Allow Two Stage Bidding	No

Payment Instruments

Offline	S.No	Instrument Type
	1	Demand Draft
	2	FDR
	3	Bankers Cheque
	4	Bank Guarantee

Cover Details, No. Of Covers - 2

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]

Tender Fee in ₹	0.00
Fee Payable To	Nil
Tender Fee Exemption Allowed	No

EMD Fee Details

EMD Amount in ₹	50,000	EMD Exemption Allowed	Yes
EMD Fee Type	fixed	EMD Percentage	NA
EMD Payable To	Registrar, IIT(ISM)	EMD Payable At	Dhanbad

Work Item Details

Title	Battery Reliability Test System		
Work Description	Battery Reliability Test System		
Pre Qualification Details	Please refer Tender documents.		
Independent External Monitor/Remarks	NA		
Show Tender Value in Public Domain	No		
Tender Value in ₹	24,95,000		
Product Category	Laboratory and scientific equipment	Sub category	NA
Contract Type	Tender	Bid Validity(Days)	180
Location	IIT(ISM) DHANBAD	Pincode	826004
Pre Bid Meeting Address	Conference Hall, Administrative Block, IIT(ISM) Dhanbad	Pre Bid Meeting Date	15-Oct-2025 11:00 AM
Should Allow NDA Tender	No	Allow Preferential Bidder	No

Critical Dates

Publish Date	08-Oct-2025 06:50 PM	Bid Opening Date	10-Nov-2025 11:00 AM
Document Download / Sale Start Date	08-Oct-2025 06:55 PM	Document Download / Sale End Date	06-Nov-2025 06:00 PM

Clarification Start Date	08-Oct-2025 06:50 PM	Clarification End Date	15-Oct-2025 10:00 AM
Bid Submission Start Date	16-Oct-2025 06:00 PM	Bid Submission End Date	06-Nov-2025 06:00 PM

Tender Documents

NIT Document

S.No	Document Name	Description	Document Size (in KB)
1	Tendernotice_1.pdf	Tender Notice	209.86

Download as zip file

Work Item Documents

S.No	Document Type	Document Name	Description	Document Size (in KB)
1	Tender Documents	Batterytender.pdf	Technical Bid	1526.24
2	BOQ	BOQ_925492.xls	Financial Bid	269.00

Single Bidders List

S.No.	Bidder Name	Bidder Login Id
1.	MEL SYSTEMS AND SERVICES LTD	projectsmktg@melss.com

Bid Openers List

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

GeMARPTS Details

GeMARPTS ID	4SIJA25K2CRX
Description	Battery Reliability Test System
Report Initiated On	18-Sep-2025
Valid Until	18-Oct-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 Compative 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-MI Order 2017	Agree	
2	MSEs Order 2012	Agree	

Tender Inviting Authority

Name	Dy. Registrar
Address	Purchase and Stores Section, Administrative Block, IIT(ISM) Dhanbad

[View Modification details](#)

Tender Creator Details

Created By	SURAJ KUMAR
Designation	Junior Superintendent
Created Date	08-Oct-2025 10:00 AM

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INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES) DHANBAD

Tender No. EE-INS-CPPP-182-25-26

Date: 08.10.2025

E-TENDER NOTICE
(Single Tender Enquiry)

The Indian Institute of Technology (Indian School of Mines) Dhanbad invites Bids from eligible, qualified, and capable manufacturer/dealer/suppliers for **"Battery Reliability Test System"** according to the requirements as defined in the Tender document.

Sl. No	Tender No.	Particulars	Qty	Amount of EMD
1.	EE-INS-CPPP-182-25-26	"Battery Reliability Test System"	01 set	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 reach 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	08.10.2025	06:50 PM
2	Pre-Bid Conference date and time	15.10.2025	11:00 AM
3	Bid submission start date and time	16.10.2025	06:00 PM
4	Bid submission end date and time	06.11.2025	06:00 PM
5	Technical Bid opening date and time	10.11.2025	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 & Stores)

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. One single pdf containing all technical documents, duly filled and signed Annexures, copy of EMD etc. must be uploaded.

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(b) 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 drawn in favour 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 PAN Card (as applicable to the type of tenderer) and Goods and Services Tax Registration Certificate.
- (iv) Scanned copy of duly filled **Annexure-A, Annexure-B, Annexure-C, Annexure-D, Annexure-E, Annexure-F and Annexure-G.**
- (v) Scanned copy of purchase/work/supply order as proof of past performance (if any).
- (vi) 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 summarily 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.

Annexure-II**TENDER FOR "Battery Reliability Test System"****TERMS AND CONDITIONS**

1. The technical specifications are enclosed as **Annexure-III**. Bidders are required to go through the technical specifications 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. Different types of taxes levied should be quoted separately in a format as provided in the price bid. In case of consolidated prices, it will be pre-assumed that the quoted prices are inclusive of all taxes and other charges. Any taxes/charges which are not mentioned separately will be treated as included in the price quoted. No future correspondence in regard to taxes will be entertained.
6. 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 for such extensions will be allowed to withdraw their bids without forfeiture of their Bid Security.
7. **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.
8. **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**
9. **MII & Purchase Preference:**

The MII compliances shall be as per Govt. of India guidelines. All the bidders must upload undertaking as per **Annexure-C** with the Technical Bid.

10. Evaluation Procedure:

Phase-I: Technical Evaluation

Technical evaluation will be done on the basis of 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 technically qualified bidders shall only be opened.
- b. The bid will be awarded to the L-1 bidder.

11. **Delivery and Installation:** The bidder should deliver the item within **60 days** from the date of issue of the supply order. Any requirement for installation (if applicable) should be communicated at least one month before installation to make suitable arrangements.
12. **Liquidated damages (LD):** If a bidder fails to deliver the item or any part thereof within the period prescribed for delivery, 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.
13. **Inspection:** Institute authority will inspect the supplied item after delivery/installation, 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. The training should include operation, maintenance, troubleshooting, safety, and routine care of the item.
15. **Payment terms:** 100% payment shall be made by NEFT/RTGS against submission of bills in triplicate, only after satisfying the 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 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 the extension of the delivery period before the stipulated date of delivery. 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. Guarantee / Warranty:

- a) **Minimum Guarantee / Warranty** is to be provided for **1 year**. If the guarantee/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, losses and expenses shall be recoverable from the supplier performance security.

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 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 **14 months**. 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 Specification

Specifications: -Technical Specifications for Chroma ATE's 17010 Series Cell Tester for Battery Testing Facility**Objective:**

To procure a computer-controlled **Battery Reliability Test System** for testing battery cells, compliant with International Standards IEC (62660-1 2010 & 61960 2011), GB/T (31484 2015, 31486 2015 18287 2013), USABC (Rev.0 2017, Rev.2 2018, Rev.3.1 2020 & Rev.3 requirements). The 17010 will be used for performing precise charge/discharge cycles, monitoring multiple parameters, ensuring data integrity for research and development purposes and other developmental testing.

A. General Requirements:

- **System Design:**

The testing system should be designed to handle different battery chemistries, such as Lithium-ion

battery (LIB) cells, electric double-layer capacitors (EDLCs), and lithium-ion capacitors (LICs), and other emerging technologies, ensuring versatility across testing requirements.

- **Number of Channels:**

The system should consist of multiple independent testing channels, each capable of operating autonomously, while allowing for channel paralleling to increase current capacity.

- **System Capacity:**

The 17208M-6-30 must be able to handle 8 channels of current capacity (up to 30A) making it suitable for both small and large battery cells or modules. Each channel must be capable of handling at least 6W (low-capacity channels) and 180W (high-capacity channels).

- **Built-in Multiple Current Ranges to Improve Measurement Accuracy:**

The 17010 has built in multiple current ranges and high accuracy specifications up to $\pm 0.02\%$ of F.S. The LeX software could automatically select the appropriate range according to the current setting value. Even in CV mode, the current can be automatically switched and the current output will not be interrupted during the test.

- **Zero Crossing High Speed Current Response Capability:**

The 17208M-6-30 linear circuit model has a current response speed of 250 μ S. The energy recovery series can be paralleled to 1920A (upto 8 Modules/64 Channels) in future and can maintain a current response speed of 250 μ S under good wiring conditions, and providing a more ideal current output waveform without switching delay time. High speed current response reduces capacity and energy calculation errors.

- **Safety and Protection:**

The system should feature robust protection mechanisms, such as emergency stop functionality, automatic power disconnection during critical events, and protection against overvoltage, overcurrent, Over Capacity, Under Capacity, Over Energy, Under Energy & Over Temperature. Data protection should ensure no loss of data during power failure or communication breakdown.

- **Modular Design:**

The 17010 system should allow for modular expansion, enabling future upgrades and

additions without significant changes to the existing setup. It should be scalable for higher capacities or additional testing requirements.

- **High Precision Voltage Differential Curve:**

The 17208M-6-30 linear circuit model has low output noise and high precision. It can be used to obtain high quality differential voltage analysis curves. The clear characteristic peaks can accurately study the aging mechanism of lithium ion batteries.

- **User-Friendly Interface:**

The system should have a clear and user-friendly graphical interface for control and monitoring, with real-time data display. The software should allow operators to set various parameters, such as voltage, current, power, temperature, and charge/discharge cycles. It should also enable quick switching between different test modes, including Constant Current (CC), Constant Voltage (CV), Constant Power (CP), and CC-CV modes.

- **Durability and Reliability:**

The system should be built to withstand prolonged operation under demanding test conditions, with components rated for continuous use. It must include features such as self-diagnostics, real-time system monitoring, and alerts for preventive maintenance.

- **Temperature Monitoring and Control:**

Integrated temperature sensors (Thermocouple type) should be available for monitoring the temperature of battery cells/modules during testing. The A172014 Data logger should support at least one temperature channel per charge/discharge channel, with an accuracy of $\pm 0.05\%$ of FS $\pm 1^\circ\text{C}$. The temperature readings must be logged for analysis and ensure safety during testing. Also, the readouts for the temperature must be digital.

- **Design of Test Fixture (Cylindrical Battery):**

J-17208008: Specially designed fixture for cylindrical cell with a maximum Continuous current of up to 60 A. 4 Channels, PF- Fire Resistant Material, Multi Probes Module/Channel with IDI SH 3 Probes (27 A Cont.) x 3 Sets with FR4 Probes Protector with Contact Module Stroke Adjustment Mechanism Supporting 18650 Cylindrical cell. Also require in OEM to provide in Future upgrades for the Cylindrical fixtures for Cylindrical cells 26650 and 21700, Customized Fixture for Prismatic cell & Pouch cell & CR23XX Size for Coin Cell compatible to this existing cell tester.

- **Power Supply:**

The 17010 should operate on 3-phase 400V $\pm 10\%$ AC, 50Hz power supply.

A1. Discharge/Charge Specifications of 8 Channels Cell Tester Model :17208M-6-30

Parameter	Minimum Requirement per Channel
Discharge Voltage (DC, V)	6 to 0 V
Charge Voltage (DC, V)	0 to 6 V
Voltage Accuracy	$\pm 0.015\%$ of F.S.
Voltage Measurement Resolution	0.1 mV
Discharge/Charge Circuit Current (DC, A)	0 - 30 A
Current Accuracy	$\pm 0.02\%$ of F.S.
Current Measurement Resolution	0.1 μA to 1mA
Charge Power Range per Channel	0-180 W
Discharge Power Range per Channel	180- 0 W
Power Accuracy	$\pm 0.035\%$ of F.S.

[Handwritten signatures]

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Power Measurement Resolution	0.1 μ W to 1 mW
Channel Parallelization	Provision to parallel channels for raising the current limit
Current Response Rate /Rise Time	250 μ s (@ 10% to 90% of FSR)
Min Data Sampling Time	10ms
Output Current (Setting) Range	1 μ A to 30A
No. of Channels	8 (upgradable to 64 by adding additional Modules)
Temperature Accuracy	$\pm 0.05\%$ of F.S. $\pm 1^\circ\text{C}$
Temperature Transducer Compatibility	W91-000039 K-type-AWG 30-5m Thermocouple (Qty. = 4 nos.)
Built-in Interface	RS-485 Card /Ethernet : W31-000057
Drive & Sense Cables	W33-000907 2 Meter Test Cable for Single Channel (Drive, R4 & Sense, R4) Qty. = 8 nos.
Battery Lab Expert Software (Battery LEx)	The software should be able to combine & stack multiple recipes to build a complete test plan • Group testing: each group can control up to 96 channels and execute up to 50,000 steps and 999,999 cycles for setup enable one to complete a continuous long-hour test plan in one edit. • Variable editing: use data from the external data logger for flexible programming and complex applications • Future Chamber integration: real-time monitoring of chamber status and protection mechanisms through DI/DO expansion.
External Controller - Human Machine Interface for Battery Reliability Test System.	External Controller interfacing Human Machine Interface for Battery Reliability Test System. Intel i9-14th Gen, 3.2GHz or above CPU, 1TB or more SSD space, 32GB or more Memory, 34" Monitor (at least 1920x1080p resolution), at least 3 or more Empty slots for the DIO card, RJ485 Card and network card, At least one dedicated USB port for the hardware Protection Keypro. Peripheral connected with Battery Reliability Test System and external controller HMI.

A2. Charge/Discharge Modes:

- Constant Current (CC)
- Constant Voltage (CV)
- Constant Power (CP)
- Constant Voltage-Limit Current (CC-CV)

A3. Battery Lab Expert (Battery LEx) software for Data Logging and Analysis

- **Parameters to Monitor:** Ah, Wh, cycles, steps, step times, total time, power, current, temperature, cell terminal voltage, internal resistance, mode of operation etc.
- **Sampling Rate:** Minimum of 10 readings per milli second for voltage, current,

- capacity, energy, and other parameters.
- **Data Export:** Data should be exportable in CSV, Excel, FBC, and ASCII formats for further processing.
- **Software Compatibility:** Latest Windows version compatible with perpetual software licenses. The software should support post-processing of test data and visualization of graphs.
- **Real-Time Monitoring:** Onboard data acquisition and control for real-time monitoring of tests.
- **Protection Against Data Loss:** Ensure no data loss during power or communication failures.

A4. Safety and Protection

- **Protections:** The system should have integrated protection to prevent damage from over-current, over-voltage, under-voltage, over-temperature, reverse polarity, overload (OCP & OVP error), isolation & fuse.
- **Emergency Shutdown:** There should be a clear emergency stop function to ensure safe operation.
- **Temperature Logging:** Dedicated temperature channels to monitor thermal conditions during charge/discharge cycles.
- **Direct Current Internal Resistance Measurement:** Integrated measurement of the internal resistance of cells/batteries to be included.

A6. System Performance

- **Accuracy:**
 1. Voltage Accuracy: $\pm 0.035\%$ of Full Scale
 2. Current Accuracy: $\pm 0.02\%$ of Full Scale
 3. Temperature Accuracy: $\pm 0.05\%$ of Full Scale $\pm 1^\circ\text{C}$

A7. Environmental & Utilities Requirements

- **Operating Temperature:** 0°C to $+40^\circ\text{C}$
- **Humidity:** $< 90\%$ RH
- **Footprint:** System should be compact SU, with mobile racks for easy movement and deployment in the test facility. 17010 Footprints details to be submitted along with the bid.
- **Utility Matrix:** Bidder to submit the utilities requirement if any to make the system operational.

ATC:

- Bidder who doesn't manufacture the goods it offers to supply shall submit Manufacturers' Authorization certificate in the bidding document to demonstrate that it has been duly authorized by the manufacturer of the goods to quote and/or supply the goods.

(6)

Annexure-A

DECLARATIONS FOR INSOLVENCY AND BLACKLISTING/ DEBARRING

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.

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

Annexure-B

Details of quoted item

Tender No. **EE-INS-CPPP-182-25-26**

Name of Tender: **"Battery Reliability Test System"**

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 Period: _____ (days)
7. Specifications: Details of technical specifications of quoted item are as under

Note: Technical Specifications for quoted item should be strict as per Annexure-III)

Technical Specifications	Quantity

Date:

Place:

Signature: _____

Name: _____

Address: _____

Annexure-C

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: **EE-INS-CPPP-182-25-26**

Name of offered the item: **"Battery Reliability Test System"**

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)

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. **EE-INS-CPPP-182-25-26**

Name of Tender: **"Battery Reliability Test System".**

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

Annexure-E**Tender Acceptance Letter**

To,
Director,
IIT (ISM) Dhanbad.

Subject: Acceptance of Terms & Conditions of Tender.

Tender No. **EE-INS-CPPP-182-25-26**

Name of Tender: **"Battery Reliability Test System"**

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 do hereby declare that our Firm has not been blacklisted/ debarred/ terminated/ banned by any Govt. Department/Public sector undertaking.
5. 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

Price Fall Clause Certificate

I/We _____
undertake that we have not offered to supply / supplied / are not supplying same or similar products / systems or sub systems at a price lower than that offered against the **Tender no. EE-INS-CPPP-182-25-26** in respect of any Organization/Ministry/Department of the Govt. of India or its Subsidiaries or other PSU or any other private organization during the currency of the contract and if it is found at any stage that same or similar product/systems or sub systems was supplied by the bidder to any Organization/Ministry/Department of the Govt. of India or its Subsidiaries or other PSU or any other private organization at a lower price during the currency of the contract, then that very price will be applicable to the present case and the difference in the cost would be refunded by the bidder to buyer, if the contract has already been concluded.

I/We also accept that:

1. I/We have to submit a copy of the last (latest) purchase order for the similar/ordered item(s) received from any Organization/Ministry/Department of the Govt. of India or its Subsidiaries or other PSU or any other private organization.
2. We will inform the purchaser of offer to supply/supply of the similar/ordered item(s) at a lower rate to any Organization/Ministry/Department of the Govt. of India or its Subsidiaries or other PSU or any other private organization during the currency of the contract.

Date:

Signature of the Tenderer

Seal of the Firm

BID/TENDER SPECIFIC AUTHORIZATION LETTER
(To be given on OEM Letter Head)

To,
The Director
IIT(ISM), Dhanbad.

Tender No.: **EE-INS-CPPP-182-25-26**

Name of Tender: **"Battery Reliability Test System"**

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

