



**NATIONAL INSTITUTE OF TECHNOLOGY
TIRUCHIRAPPALLI - 620 015**

**DEPARTMENT OF METALLURGICAL AND MATERIALS ENGINEERING
NOTICE INVITING QUOTATION**

File No.	NITT/SEEDGRANT/PROJ.NO.20/MME/2563/PLM/2024-2025/EP/01	Date:	16.05.2025
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To

(Supplier)

Sealed quotations are invited from reputed Authorized Dealers / manufacturers for the supply of the Items.

Name of the Item	:	Battery Charge-Discharge Cyclor with Interface Device
Quantity Required	:	01 No
Specification	:	(As per enclosed Schedule Annexure – I)
1. Quotation Reference No.	:	NITT/SEEDGRANT/PROJ.NO.20/MME/2563/PLM/2024-2025/EP/01
2. Last date and Time for receipt of quotation	:	06-06-2025 before 12.00 PM
3. Date & Time of opening of Quotation	:	06-06-2025 at 03.00 PM
4. EMD Amount	:	Rs.4,696 (2% MSME (Non-trading) Exempted)
5. Validity (Days)	:	90 Days
6. Address to which quotations are to be sent	:	Dr. R. Anand, Deputy Registrar Research and Consultancy National Institute of Technology Tiruchirappalli Tiruchirappalli – 620 015, Tamil Nadu, India
Kind attention to	:	Dr. Puppala Laxman Mani Kanta
Phone	:	0431 250 4954
E-mail	:	laxmanmanikanta@nitt.edu

1. Quotations should be submitted in the format given in Annexure – I and Annexure-II
2. The envelope should contain the following details:



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“QUOTATION AGAINST ENQUIRY” (Battery charge-discharge cyclers with interface Device)

NITT/SEEDGRANT/PROJ.NO.20/MME/2563/PLM/2024-2025/EP/01

Kind attention to: Purchase Initiator: Dr. Puppala Laxman Mani Kanta, Assistant Professor

Department: METALLURGICAL AND MATERIALS ENGINEERING

Last date and Time for receipt of quotation : 06-06-2025 before 12.00 PM

Earnest Money Deposit (EMD)

1. Earnest Money Deposit (EMD) is to be submitted through SBI collect link as below. The bids submitted without EMD will be treated as non-responsive and will be rejected. EMD shall bear no interest.
2. Bidder must fill the EMD returning Form (Annexure-III) and submit along with the quotation.
3. EMD will be returned to the unsuccessful Bidder(s) as per the purchase norms.
4. The EMD shall be forfeited if any Bidder withdraws the offer before finalization of the tender.
5. **UDYAM & NSIC** registered Micro & small enterprises are exempted from paying EMD amount as per Govt. norms (proof to be attached). **For availing EMD exemption, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. In respect of bid for Services, the bidder must be the Service provider of the offered services. Traders/Distributors/agents are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises.**

EMD amount

Rs.4,696 (2% MSME (Non-trading) Exempted)



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Terms and Conditions:

1.	The quotation must be in the format furnished by NIT Tiruchirappalli and should be free from corrections/erasures. In case there is any unavoidable correction it should be properly attested. If not, the quotation will not be considered. Quotation written in pencil and incomplete will be rejected.
2.	You are invited to submit your most competitive quotation for the supply of goods according to the specifications and delivery terms as given.
3.	The Bidders have to submit manufacturers authorization Letter from OEM along with the quotation, otherwise offer will not be considered, the same will be rejected.
4.	Bidders may send the quotations in sealed covers with the quotation reference number and last date for receipt of quotations duly superscribed on the cover. Mention the company Contact Number / E-mail id on the cover.
5.	Quotation will be opened on due date at 06-06-2025 at 02.00 PM at the Store and Purchase Section, NIT, Tiruchirappalli in presence of the tenderers or their representatives who may wish to be present. (Any change in the date, time and venue of the quotation opening will be informed to the bidders through telephone / E-mail)
6.	The National Institute of Technology, Tiruchirappalli reserves the right to accept or reject any quotations, and to cancel the bidding process, and reject all quotations at any time prior to the award of order without assigning any specific reason thereof.
7.	Manufacturer's name and country of origin of materials offered must be clearly specified. Printed brochures, Purchase preference is only for Micro & Small enterprises (MSE's) register in UDYAM Portal or NSIC as per Ministries policy for MSE's . Proof to be attached
8.	All supplies are subject to inspection and approval before acceptance. Manufacturer / supplier warranty certificates and manufacturer / Government approved lab test certificate shall be furnished along with the supply, wherever applicable
9.	National Institute of Technology, Tiruchirappalli reserves the right to modify the quantity specified in this enquiry.
10.	Startup company exempted from prior turnover & prior experience (startup certificate registered with DIPP should be enclosed)
11.	The bidder has to submit the bids in sealed envelope, (separate for each tender). Further Bidder should not send clubbing many tenders in one envelope, in such case all the bids will be rejected.



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12.	<p>Bid Price</p> <ul style="list-style-type: none">a. The contract shall be for the full quantity Bidders must quote for entire quantity. Each bidder shall submit only one quotation in Indian Rupee only.b. Post work orders & completion certificate should be submitted, wherever applicable.c. The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.d. GST, packing, forwarding and delivering other allied items at the destination shall be included in the price. All such price components may be shown in the quotation. If there is no indication regarding above charges. It will be considered as inclusive of all charges.e. If any arithmetic mistake in total / GST calculation is observed, the same shall be corrected by the purchaser with an intimation to bidderf. In case the items in the enquiry are covered by any rate contract or any other state or central Government, it should be specified in your quotation and accepted contract rates should also be mentioned. It should be confirmed whether you could supply at the RC rates outside rate contractg. Quotations containing conditions like "subject to prior sale" may not be considered.h. Delivery period required for supplying the material should be invariably specified in the quotationi. Bids without quoting GST (unless exempted) will be treated as invalid & disqualified.j. If there is a discrepancy between unit price and total price, the unit price will be considered. If there is any mismatch between figure and word, the amount in word shall prevail.
13.	<p>Evaluation of quotations: Quotations will be evaluated item-wise or lump sum basis. The purchase committee will evaluate and compare the quotations determined to be substantially responsive i.e. (i) are properly signed; (ii) Conform to the terms & conditions and specifications; and (iii) price offered are competitive.</p>
14.	<p>Award of contract</p> <ul style="list-style-type: none">a. The National Institute of Technology, Tiruchirappalli will award the Order for supply of Goods / Services to the bidder whose quotation has been determined to be substantially responsive, and who has offered the lowest evaluated quotation price.b. The Bidder should furnish the contract agreement and performance security within 15 days from the date of receipt of the order for supply of goods / services, failing which the order will be cancelled without further notice and awarded to next eligible bidder.c. Notwithstanding the above, National Institute of Technology, Tiruchirappalli reserves the right to accept or reject any quotations, and to cancel the bidding process, and reject all quotations at any time prior to the award of order without assigning any specific reason thereof.d. National Institute of Technology, Tiruchirappalli, prior to the expiration of the quotation validity period, will notify the bidder whose bid is accepted for the award of contract. The terms of accepted offer shall be incorporated in the purchase order.
15.	<p>Warranty: 12 months</p>
16.	<p>Performance Security: Security deposit should be 3% of purchase order value in case of Performance Bank Guarantee should be valid for 60 days beyond the guarantee & warranty. The successful bidder need to submit</p>



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	performance security (As mentioned in Annexure –I) of purchase order value either in the form of bank guarantee or crossed demand draft drawn on any Nationalized bank in India in favor of “The Director, NIT, Tiruchirappalli” payable at Trichy. The bank guarantee / Demand Draft will be returned to the supplier after 60 days from date of successful completion of supply, installation, and the warranty period.
17.	Payment: 100% will be paid after Installation and satisfactory working/date of completion of service if the documents are in order. The bill should be raised in favor of “The Director, National Institute of Technology, Tiruchirappalli, Tamil Nadu, India.” with institute GST No. 33AAATN5491Q1ZZ. No advance will be provided to the supplier and installer.
18.	Liquidity damages If the bidder / supplier, after accepting the Purchase Order or supply of Goods / Services, fails to deliver any or all of the Goods or to perform Services within the period(s) specified in the Order, The National Institute of Technology, Tiruchirappalli shall impose penalty without assigning any reasons to the bidder / supplier a sum equivalent to 0.50 % of the total cost as indicated in the Purchase Order (which will be deemed as agreed price) for each week or part thereof of delay until actual delivery or performance is completed and such penal charges shall be limited to a maximum of 5% of the agreed price. Once the maximum is reached The National Institute of Technology, Tiruchirappalli, may proceed on its own to consider the termination / cancellation of the Order and may inform the bidder about the cancellation of the said purchase order. unless extension is obtained in writing from the office / Department on valid ground before expiry of delivery period
19.	If the deliveries are not maintained and due to that account Procuring Entity is forced to buy the material at your risk and cost from elsewhere, the loss or damage that may be sustained there by will be recovered from the defaulting supplier
20.	Dispute clause: Any dispute relating to the Enquiring /Tender of the indented item shall be under the Hon'ble Court having its jurisdiction over Tiruchirappalli only
21.	Startup company exempted from Prior Turnover & Prior Experience (Startup certificate registered with DIPP should be enclosed)
22.	GST as applicable
23.	Performance Bank guarantee should be valid for 60 days beyond the guarantee & warranty and the BG submitted for EMD shall be valid for 45 days beyond bid validity period.
24.	The successful bidder should submit Security Deposit/PBG within 15 days from the date of placement of order. The EMD shall be returned only after receipt of SD. If the bidder fails to deliver the material, then the EMD/SD shall be forfeited.



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ACCEPTANCE BY THE BIDDER

I/We hereby certify that I/We shall abide hereby the terms and conditions and the Annexures of this limited quotation.

Signature & Seal of Vendor with Date

For any details / clarifications regarding could be obtained from Research and Consultancy Section on all working days during 10 AM to 5 PM.

For further detail related to Technical specifications kindly contact **Dr. Puppala Laxman Mani Kanta** (Purchase Initiator), **Assistant Professor, METALLURGICAL AND MATERIALS ENGINEERING**, laxmanmanikanta@nitt.edu, **0431 250 4954**.

(NB: Mention the Contact Number / E-mail on the cover. Any change in the date, time and venue of the tender opening will be informed to the bidders through telephone / E-mail)

Enclosures: 1) Specifications of the equipment	Annexure – I
2) Price Format	Annexure - II
3) EMD Return Format	Annexure – III
4) Bank Mandate Form	Annexure – IV



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DEPARTMENT OF METALLURGICAL AND MATERIALS ENGINEERING

Annexure- I

Specifications of the Equipment

Ref: NITT/SEEDGRANT/PROJ.NO.20/MME/2563/PLM/2024-2025/EP/01

Date: 16-05-2025

S. No	Specification of NIT-T	Specification of the Supplier	
1.	<p><u>Battery Charge Discharge Cyclers</u></p> <ul style="list-style-type: none">Input Power – AC 220V \pm 10% /50HZResolution –AD : 16Bit : DA : 16 BitInput Resistance \geq1MΩInput Power should be 25 WChannel Features should be Constant Current Source and Constant Voltage Source with Independent pairs of Closed-loop StructureChannel Control Mode should be Independent ControlTotal number of Unit's main channels should be 8 or higher <p>Voltage Requirements</p> <ul style="list-style-type: none">Per Channel Control Voltage Range should be 25mV to5VMinimum discharge voltage should be 0VAccuracy should be \pm 0.05% of FSAccuracy should be \pm 0.05% of FSStability should be \pm 0.05% of FS <p>Current Requirements</p> <ul style="list-style-type: none">Per channel Range Range1 : 5μA to 1mA Range2 : 1mA to 25mA Range3 : 25mA to 50mAConstant current cut-off currentRange 2 : 10μA ; Range 1 : 0.1mACurrent-Accuracy should be \pm 0.05% of FSCurrent-Stability should be \pm 0.05% of FS <p>Power Requirements</p> <ul style="list-style-type: none">Per Channel Output Power should be 0.25WStability should be \pm 0.1% of FS <p>Time Requirements</p> <ul style="list-style-type: none">Current Response Time should be 1ms (0-Full Range)Step Time Range \leq(365*24)hour/step Time Form Support 00 : 00 : 00.000(h: min: s: ms) <p>Data Recording</p> <ul style="list-style-type: none">Record Condition should have the following TimeΔt : 100ms VoltageΔU : 10mV CurrentΔI : Range 2 : 50μA ; Range 1 : 100μA	Model	(No hand written)



- Recording-Record Frequency should be 10Hz

Charge test Conditions

- Charge-Charge Mode should have following requirements
Constant Current Charge,
Constant Voltage Charge,
Constant Current and Constant Voltage Charge,
Constant Power –Charge
- End Condition should posses
Voltage, Current, Relative Time, Capacity,- ΔV

Discharge test Conditions

- Discharge Mode should have following requirements
Constant Current Discharge,
Constant Power Discharge,
Constant Resistance Discharge
- End Condition
Voltage, Current, Relative Time, Capacity
- Should support DCIR test

DCIR test Specifications

- Pulse Test
Under Charge-Constant Current Charge and Constant Power Charge
- Under Discharge-Constant Current Discharge and Constant Power Discharge
- Minimum Pulse Width should be 500ms
- Pulse Number should be 32 different pulse for a single step
- Charge And Discharge Switch-continuous switched for a single pulse step
- End Condition-Voltage Relative Time

Cycle

- Loop Measure Range should be 1 to 65535 times
- Max Steps Per Loop should be 254
- Nested Loop-Nested loop Function and Max Support 3 Layers

Protection

- Software Protection should have Power-down Data Protection-Off-line Testing Function and Setting Protection with Setting Parameter; Low Voltage limit, Upper Voltage limit, Low Current limit, Upper Current limit, Delay Time
- Additional Anti-reverse Protection Model for Hardware Protection
- Voltage and Current Testing Sample should be 4-wire connecting type
- Noise should be <85dB
- Database should be MySQL Database
- A Means of Communication of Upper Machine should be TCP/IP Protocol
- Data Output should be EXCEL 2003,2010,TXT format
- Communication Interface should be through internet Access
- Server Operating System should be Windows 7 or higher version
- Leak current should be 0.0000005mA
- Total number of Unit's main channels should be 8 or higher
- The system brand name should be specified



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Equipment working Environment

- Working Temperature Range should be 0°C to 40°C
- Storage Temperature Range should be (-10°C to 50°C)
- Working Environment Relative Humidity Range should be ≤70% RH
- Storage Environment Relative Humidity Range should be ≤80% RH

Interface Device

Desktop computer should have compatibility Battery charge- Discharge cyclers with following specifications

- RAM- 32 GB or higher
- Processor- INTEL i5 or higher
- Hard disk- 1TB or higher
- Integrated Graphics Card
- Mandatory Accessories such as Mouse, Keyboard etc., should be provided
- The system brand name should be specified

UPS Backup

2KVA UPS with 1 year warranty

Reasons (if there is difference in specification)

1.

2.

S.No	Other requirements related to the equipment	NITT Requirement	Supplier commitment
1.	Installation required	Yes	
2.	Warranty (in Month)	12 months	
3.	Comprehensive AMC required	No	
4.	Delivery Period (Weeks)	3 Weeks	
5.	Shipment terms	At NIT-T	
6.	Performance Security in %	3%	
7.	Payment Terms	100% Payment after satisfactory delivery/Installation	
8.	EMD Amount (2 to 5)%	Rs.4696/- (2% MSME (Non-trading) Exempted)	

Note:

Signature & Seal of Vendor with Date

Specification of the Supplier should be given in detail, single word confirmation like Complied / No / same will be treated as non - responsive Bid and summarily rejected. Proof for the supplier's specification must be enclosed along with the quotations. (catalogue, brochure, and product website link if any)

**NATIONAL INSTITUTE OF TECHNOLOGY****TIRUCHIRAPPALLI - 620 015****DEPARTMENT OF METALLURGICAL AND MATERIALS ENGINEERING****Annexure- II****PRICE BID FORMAT FOR BIDDERS**

Quotation reference No. & Date : NITT/SEEDGRANT/PROJ.NO.20/MME/2563/PLM/2024-2025/EP/01

Bidder's Offer No. & Date :

S. No.	Description of item	Unit (Set / No)	QTY	Rate / Qty in Rs. (excluding GST)	GST in Rs.			Total Value + GST in Rs.
					SG ST	CGST	IGST	
1.	Supply portion (The price indicated shall be exclusive of all accessories, spares etc. as given in the scope of supply)	<u>Nos</u>	<u>1</u>					
2.	Other accessories / spares etc. as given in scope of supply (Individual item-wise break-up price shall be attached as an annexure to this price bid format.)							
3.	Installation and Commissioning (extra, if any)	<u>No</u>						
4.	Packing & Forwarding charges (extra, if any)							
5.	Freight & Transit insurance charges, extra, if any							
6.	Total price							
7.	Value of Annual Maintenance Contract							
8.	Net cost to be paid by NIT-T							

Signature & Seal of Vendor

Note: The price quoted should be in Typed format only as per the above form. Hand written quotes will be rejected. No row shall be left blank, Kindly mention NA in case the item is "Not Applicable". If this format is not used or any column is left blank, then the bid will be rejected. AMC Value will not consider for arriving L1 bidder.



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(TO BE PRINTED IN LETTER PAD OF THE FIRM)

EMD Returning Form

To
The Director
National Institute of Technology,
Tiruchirappalli – 620 015

Sub: Returning EMD amount

Sir / Madam,

Our firm has participated in the tender / quotation enquiry No mentioned below and produced the EMD amount through SBI collect, details are given below.

Tender / Quotation Reference No	
EMD amount	
Transaction Number	
Transaction Date	

It is requested to return the EMD amount to our firm after completion of the purchase to the below mentioned Bank account.

Account Name	
Bank Account Number	
IFSC code	
Bank	

Signature with Seal and Date



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(TO BE PRINTED IN LETTER PAD OF THE FIRM)

Annexure – IV

MANDATE FORM FOR ELECTRONIC FUND TRANSFER/RTGS TRANSFER

Date: / /

To

The Director,
National Institute of Technology,
Tiruchirappalli – 620 015, Tamil Nadu

Sub	:	Authorization for release of payment / dues from National Institute of Technology, Tiruchirappalli through Electronic Fund Transfer/RTGS Transfer.
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1. Name of the Party / Firm / Company / Institute :
2. Address of the Party :
3. City _____ Pin Code _____
4. E-Mail _____ Mobile No: _____
5. Permanent Account Number _____
6. Particulars of Bank:

Bank Name:		Branch Name:	
PIN Code:		Branch Code:	
IFS Code:(11 digit alpha numeric code)			
Account Type	Savings	Current	Cash Credit
Account Number:			

DECLARATION

I hereby declare that the particulars given above are correct and complete. If any transaction delayed and not effected for reasons of incomplete or incorrect information I shall not hold Director, National Institute of Technology Tiruchirappalli responsible. I also undertake to advise any change in the particulars of my account to facilitate updating of records for purpose of credit of amount through NEFT/RTGS Transfer.

Place: _____ Date: _____

Signature & Seal of the Authorized Signatory of the Party