



# INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

Purchase Requisition Number: 1000044947

To,  
ONETIME LOCAL  
ONETIMEL

ONETIMEL  
Maharashtra India

**Sealed Tenders are invited from prospective bidders as per Section IV - Schedule of Requirements and compliance of Indian Institute of Technology Bombay.**

## Section - I : Invitation for Bid

Tender(RFQ) No.:	3000014348		
Tender Date:	27.02.2025		
Tender Category:	Goods		
Tender Type:	SINGLE		
Number of Covers:	SINGLE BID		
Cover Information / Submission of Bid			
Covers No	Cover Type	Description	Document Type
1.	Technical & Financial	Technical & Financial Specification, Tender Document, EMD , Schedule of Requirement and Compliance, Bidders Information / Indian Agent Information. Previous Supply Order Format for more than Rs.25 Lakhs.	.pdf
Single Bid System :			
1. The Single bid (both Technical & Financial bid in single envelop) system has to be followed for this tender.			
2. Tender should be submitted within the schedule date of the tender in the sealed cover superscribed with 'Tender Number' Description and Due Date. and to be submitted to the concern department/section mentioned in tender document.			
3. Contract/ Purchase Order will be awarded to the lowest bidder(L1).			
Form of Contract:	BUY		
Tender Fee Details (INR): Payable to: Payable at:	0.00 The Registrar, IIT Bombay Mumbai		
EMD Fee Details ( in the form of Bank Guarantee )			
EMD Fee Details: Payable to: Payable at:	0.00 The Registrar, IIT Bombay Mumbai		
Bid validity (Days):	180 days		
Period of Work/ Delivery Period (Days):	60 days		



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Pre Bid Meeting Date & Time:	
Pre Bid Meeting Place & Address:	
Contract Type:	Tender
Delivery Location:	MATERIALS MANAGEMENT DIVISION, IIT BOMBAY, POWAI 76
Pin Code:	400076
Bid Submission End Date & Time of submission	06.03.2025 01:00:00 PM
Place of Submission of Bid	MATERIALS MANAGEMENT DIVISION, IIT BOMBAY, POWAI 76
Bid Opening Date & Time:	06.03.2025 03:00:00 PM
Bid Opening Place:	MATERIALS MANAGEMENT DIVISION, IIT BOMBAY, POWAI 76
Technical Clarification:	Name : PROF.SHAIBAL K. SARKAR Dept.: ENERGY SCIENCE AND ENGINEERING E-mail: shailbal.sarkar@iitb.ac.in Contact Number: 022 25767846
Tender Inviting Authority:	Name: ASSISTANT REGISTRAR (MM) Address: MATERIALS MANAGEMENT DIVISION, IIT BOMBAY, POWAI 76

**Other Terms and Conditions ( Pre-qualification, Warranty etc. if any ):**

1. In lieu of EMD, bidder has to submit Undertaking for bid security.
2. Detailed technical specification document is attached.
3. Annexures have to be submitted with the technical bid as per attached.

**Signing Authority: DEPUTY / ASSISTANT REGISTRAR (MM)**



## **Section II : Instructions to Bidder**

1. Preparation and Submission of offers :
  - i. The Quotation MUST BE ENCLOSED IN A SEALED ENVELOPE superscribing Tender number and due date & should reach the undersigned on or before the due date and time mentioned in the tender notice. If the quotation envelope is not sealed, it will be rejected.
  - ii. Tender should be dropped in the tender box kept in the office of concerned Department / Section. Tender should not be handed over to our staff personally unless otherwise specified. All communications are to be addressed to the undersigned only. In case due date happens to be holiday the tender will be accepted and opened on the next working day.
  - iii. The bid can be submitted in person or through post/ courier (IIT Bombay shall not be held responsible for any postal delays or any other reason for not submitting the bid in the specified time and resulting in disqualification / rejection of any bid) so as to reach on or before the due date and time specified in the tender document.
  - iv. The leaflets catalogue, etc. should be sent invariably so that a proper evaluation of the equipment offered is possible.
  - v. It is mandatory for bidders to have GSTN Registration No. and should submit duly filled Bidders Information along with the tender document.
  - vi. It is mandatory for vendors to register applying for the tender.  
For registration kindly visit Vendor registration portal link <https://portal.iitb.ac.in/vrp/index.jsp>
2. Cost of Bidding:
  - i. The Bidder shall bear all costs associated with the preparation and submission of its Bid and the Purchaser shall not be held responsible or liable for those costs incurred regardless of the conduct or outcome of the bidding process.
3. Validity of the Bid:
  - i. 180 Days from the last date of submission of bid.
4. Amendments to Tender Document :
  - i. At any time prior to the deadline for submission of bids, IIT Bombay may, for any reason, whether on its own initiative or in response to the clarification sought by a prospective BIDDERS may modify the bid document by issuing necessary corrigendum.
  - ii. All prospective BIDDERS who have downloaded the tender document are requested to visit IIT Bombay website for any amendments / modifications and make a note of the same, which will be binding on them.
5. Deadline for Submission of Bids :
  - i. Bids must be received by IIT Bombay before the due date and time at the address specified in the tender document. In the event of the specified date for the submission of bids being declared as a holiday for IIT Bombay the bid-closing deadline will stand extended to the next working day up to the same time without any further notice.
6. Bid Opening Process:
  - i. In case of one bid system, technical & financial bid will be opened simultaneously in the presence of representatives of the bidders at IIT Bombay.
  - ii. In case of two bid system, The Technical Bid will be opened in the first instance in the presence of Dept. Technical Evaluation Committee(TEC)/MMD, representatives of the bidders at IIT Bombay.
  - iii. Financial bids of only those bidders, whose bids are found technically qualified, by the Technical Evaluation Committee, will be opened in the presence of the Dept. Technical Evaluation Committee(TEC)/MMD vendor's representatives subsequently at a later date for further evaluation. Date and Time of financial bid opening shall be intimated to technically qualified bidders only.
  - iv. One authorized representative of each of the bidder would be permitted to be present at the time of opening of the bids.



- v. The authorized representative of bidders, present at the time of opening of the bids shall be required to sign an attendance register as a proof of having attended the Technical/Commercial bid opening session.

## 7. Late Bids :

- i. IIT Bombay will not be responsible:
- For delayed / late quotations submitted / sent by post / courier etc.
  - For submission / delivery of bids/quotations at the wrong places other than the mentioned in the tender.
  - Any bid inadvertently received by IIT Bombay after the deadline i.e. after due date & time for submission of bids, will not be accepted and returned unopened to the BIDDER, without any prejudice by hand/speed post/courier services.

## 8. Supplementary offer /Modification of Original Bid:

- i. BIDDER desirous to modify their offer/terms may submit their revised / supplementary offer (s) within the extended Tender Opening Date (TOD) by clearly stating to the extent of updation done to the original offer. The purchaser reserves the right to open the original offer along with the revised offer.

## 9. Confidentiality:

- Information relating to the evaluation of bids, and recommendation of Contract award, shall not be disclosed to Bidders or any other persons not officially concerned with such process until information on Contract award is communicated to all Bidders. On completion of Technical Evaluation by the Committee, Vendors whose offer do not meet with the users Technical Specification will be restricted to participate in commercial bid opening process. Information regarding the criteria for disqualification of the tender would be communicated to the bidder in writing.
- Any attempt by a Bidder to influence the Purchaser in the evaluation of the Bids or Contract award decisions may result in the rejection of its Bid.
- Notwithstanding, from the time of Bid opening to the time of Contract award, if any Bidder wishes to contact the Purchaser on any matter related to the bidding process, it shall do so in writing.

## 10. Deviation, Reservations and Omissions:

- i. During the evaluation of Bids, the following definitions apply:
- "Deviation" is a departure from the requirement specified in the Tender Documents;
  - "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Tender Documents; and
  - "Omission" is the failure to submit part or all of the information or documentation required in the Tender Documents.

## 11. Correction of Arithmetical Errors:

- i. Provided that the Bid is substantially responsive, the Purchaser shall correct arithmetical errors on the following basis:
- if there is a discrepancy between the unit price and the line item total that is obtained by multiplying the unit price by the quantity, the unit price shall prevail and the line item total shall be corrected, unless in the opinion of the Purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the line item total as quoted shall govern and the unit price shall be corrected;
  - if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
  - if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) and (b) above.
- ii. Bidders shall be requested to accept correction of arithmetical errors. Failure to accept the correction in accordance with the same, shall result in the rejection of the Bid.



## 12. Evaluation of Bid:

- i. IIT Bombay will evaluate technical and commercial acceptable offers on landed net Price basis.
- ii. In case any BIDDER is silent on any clauses mentioned in this tender documents, IIT Bombay shall construed that the BIDDER had accepted the clauses as per the invitation to tender no further claim will be entertained.
- iii. No revision in the terms and conditions quoted in the offer will be entertained after the last date and time fixed for receipt of tenders.

## 13. Price Bid:

- i. Quoting of Price (s) : **Price quoted should be in Indian Rupees, free delivery at IIT Bombay Campus at site.**
- ii. PRICE BID must be submitted in enclosed Price Bid Form only.
- iii. Prices should include all the taxes including GST and other duties/levies.
- iv. If the price is not quoted in Price Bid Form only provided in tender document then, IIT Bombay will reject bid. If bidder wish to give pricing details, may be attached in separate sheet.
- v. In case of Multiple options of same product, bidders are requested to quote only one best option and not multiple options.
- vi. Quantity : The quantity mentioned in the tender can be increased or decreased to any extent depending upon the actual requirement.
- vii. It is mandatory to quote optional items on a separate sheet otherwise your quote will be rejected.

## 14. Corrupt & Fraudulent Practices:

- i. IIT Bombay requires that bidders, suppliers, contractors and consultants, if any, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuit of this policy,
  - (a) The terms set forth below are defined as follows:
    1. "Corrupt practice" means the offering, giving, receiving, or soliciting, directly or indirectly, of anything of in kind/value to influence the action of a public official in the procurement process or in contract execution;
    2. "Fraudulent practice" means a misrepresentation or omission of facts in order to influence a procurement process or the execution of a contract;
    3. "Collusive practice" means a scheme or arrangement between two or more bidders, designed to establish bid prices at artificial, non- competitive levels; and
    4. "Coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the procurement process or affect the execution of a contract;
  - (b) IIT Bombay will reject a proposal for award if it determines that the Bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for the Contract in question.

## 15. Communication for Non-participation of Tenders :

- i. For registered vendors with IIT Bombay, in case you choose not to participate in the tender process a regret letter by way of fax/letter/email may be submitted before the due date duly superscribing "Regret" and tender No.

## 16. Cancellation of Tender :

- i. Notwithstanding anything specified in this tender document, Purchaser / IIT Bombay in his sole discretion, unconditionally and without assigning any reasons, reserves the rights:
  - (a) To accept OR reject lowest tender or any other tender or all the tenders.
  - (b) To accept any tender in full or in part.
  - (c) To reject the tender offer not confirming to the tenders terms.
- ii. IIT Bombay will give purchase preference to Public Sector undertakings when applicable as per Govt. Policy/ Guidelines.



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iii. Offer which deviates from the vital conditions (as illustrates below) of the tender shall be rejected:

- (a) Non-submission of complete offers as mentioned in the tender document,
- (b) Receipt of offers after due date and time and or by email / fax (unless specified otherwise).
- (c) Receipt of offers in open condition.
- (d) Conditional Tenders and Unsigned Tenders will also be rejected.

## 17. Delivery:

- i. The successful BIDDER should deliver the material as per the conditions of tender document/purchase order. The successful bidder should emboss stickers of purchase order number on the materials to be delivered.



## **Section III : Conditions of Contract**

### 1. Award of Contract:

- i. IIT Bombay shall award the contract to the technically qualified eligible BIDDER whose bid has been determined as the lowest evaluated commercial bid.
- ii. If more than one BIDDER happens to quote the same lowest price, IIT Bombay reserves the right to award the contract to more than one BIDDER or any BIDDER.

### 2. Prices:

- i. The supplier shall pay and bear all other liabilities, taxes and duties not specifically agreed by the Purchaser in the contract.

### 3. Pre-installation:

- i. Please also mention the pre-installation requirements for the equipment like ambient temperature, humidity, civil work, weather specifications, power specifications, etc. When items are provided full performance satisfaction should be demonstrated.

### 4. Installation:

- i. BIDDER shall be responsible for installation / demonstration wherever applicable and for after sales service during the warranty period and thereafter as mentioned in the contract.
- ii. Installation demonstration to be arranged by the supplier free of cost and the same is to be done within 15 days of the arrival of the equipment at site.

### 5. Training:

- i. The BIDDER shall submit training proposal for the operation and maintenance to the personnel of IIT Bombay on the offered equipment/machinery.
- ii. Wherever needed, our technical persons should be trained by the supplier at the project site free of cost. In case the person is to be trained at supplier's site abroad or in India it should be mentioned in the quotation clearly. The supplier should bear all the expenses for such training including 'to & fro' fares and lodging & boarding charges.

### 6. Terms of Payment:

- i. Payment within 30 days from the date of delivery, installation and Acceptance Certificate of concerned Department / Section / Materials Management Division, IIT Bombay.
- ii. Payment shall be made by Cheque or such other mode / electronic fund transfer offered by the Bank.
- iii. IIT Bombay do not pay advance payment to party. Any request of Advance payment will be summarily rejected.

### 7. Legal Matter:

- i. All Domestic and International disputes are subject to Mumbai jurisdiction only.

### 8. Transfer and Subletting :

- i. The seller shall not sublet, transfer, assign or otherwise part with the acceptance to the tender or any part thereof, either directly or indirectly, without the prior written permission of the Purchaser.

### 9. Force Majeure :

- i. Force Majeure will be accepted on adequate proof thereof.



## 10. Penalty/ Liquidated Damages :

- i. Timely delivery is essence of the contract and hence if any consignment be delayed, liquidated damages at the rate 0.5% of the price of the delayed consignment, for each week or part whereof shall be levied and recovered subject to maximum of 10% of total purchase order value.
- ii. IIT Bombay reserves the right to cancel the order in case the delay is more than 10 weeks. Penalties if any will be recovered by forfeiting PBG at vendor's cost and risks.

## 11. Specification and Samples :

- i. The suppliers shall supply the stores in accordance with the specifications/ descriptions of stores given in the acceptance of tender. The Purchaser reserved the rights to alter the description of stores including drawings given in the acceptance of tender. In the event any such alteration result in any implication to the deliver and price, such implication shall be mutually agreed between the Purchaser and supplier. In case certified sample has been issued by the Purchaser and the Specifications / Drawings also exist in the acceptance of tender then the certified sample will govern the supply to the extent of material, workmanship and finished product.

## 12. Supervision of Erection and Commissioning :

- i. Successful BIDDER shall depute concerned specialist, for supervision of erection & commissioning of the machine to be carried out. The successful BIDDER shall make necessary arrangement at their own expenses for stay, transport and other expenses of their specialist during their stay in Mumbai which also includes imparting free of cost training to IIT Bombay personnel.





## Section IV - Schedule of Requirements and Compliance

Sr. No.	Item Description	Compliance (Yes/No)
10	<p>Monolithic Electrodes, 18 pcs</p> <p>Ref-76501 Complete monolithic perovskite solar cell electrode on 20 x 25 mm sized 10 ohm/sq FTO glass 2.2 mm thick with c-TiO<sub>2</sub>, m-TiO<sub>2</sub>, m-ZrO<sub>2</sub> and carbon layer Active area 12 x 11 mm Origin: Switzerland HS Code 8541.9000</p>	
20	<p>Monolithic Module Electrodes</p> <p>Ref-55090 10x10 cm electrode on 7 ohm/sq FTO glass 2.2mm with c-TiO<sub>2</sub>, m-TiO<sub>2</sub>, m-ZrO<sub>2</sub> and carbon layer Active area 75 x 76mm Origin: Switzerland HS Code 8541.9000</p>	
30	<p>Scribed electrode for 10x10 cm</p> <p>Ref-55040 perovskite module 10x10 cm FTO glass 7 ohm/sq 2.2mm thick with laser scribing (P1 lines) corresponding to the monolithic module (75x76mm active area). Origin: Switzerland HS Code 8541.9000</p>	
40	<p>Elcocarb B/SP, 400 g</p> <p>Ref-45422 Screenprint carbon pigment paste Origin: Switzerland HS Code 3801.90.00.00</p>	
50	<p>Zr-Nanoxide ZT/SP, 200 g</p> <p>Ref-46422 Screenprint zirconia paste Origin: Switzerland HS Code 8109.99.00.00</p>	
60	<p>Ti-Nanoxide T165/SP, 200 g</p> <p>Ref-17922 Screenprint titania paste Origin: Switzerland HS Code 2823.00.00.00</p>	
70	<p>Ti-Nanoxide BL/SP, 200 g</p> <p>Ref-17122 Screenprint titania paste Origin: Switzerland HS Code 2823.00.00.00</p>	



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80	Screen for Mesoporous Perovskite  Ref. 55020 Hot melt gasket for 10x10 cm modules Origin: Switzerland HS Code: 3919.90.50.60	
90	Printhead KM-512/SH  Ref-76501 4 pl drop volume 512 nozzles (2 lines) 360 dpi (180 dpi x 2 lines) Origin: Japan HS Code 8541.4000	
100	Printhead SAMBA W/PP cartridge  2.4 pl drop volume 1.5 ml ink capacity 64 dpi Origin: United States of America HS Code 8443.9990	
110	Gasket 100 x 100mm*  2.4 pl drop volume 1.5 ml ink capacity 64 dpi Origin: United States of America HS Code 8443.9990	
	Whether all the above items specified have been quoted in the PRICE BID.	



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## Bidders Information

1.	Name of the Bidder	
2.	Address of the Bidder	
3.	PAN No.	
4.	GSTIN No.	
5.	State of GST Registration	
6.	E-mail	
7.	Contact Person's Name & Designation	
8.	Mobile No.	



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## Reasonability of Prices :

Please quote best minimum prices applicable for a premier Educational and Research Institution. The party must give details of at least two purchase orders identical or similar equipment, supplied to any IITs/Research Institutions/ other organisation as per below Format(to be enclosed in technical Bid) along with the final price paid and details are mandatory.

### Previous Supply Orders

Name of the Firm \_\_\_\_\_

Order placed by (Full address of Purchaser)	Order No. and Date	Description and quantity of ordered equipment	Value of Order	Date of completion of delivery as per contract	Remarks indicating reasons for late delivery, if any and justification for price difference of their supply order & those quoted to us	Has the Equipment being installed satisfactorily (Attach a Certificate from the Purchaser/ Consigner)	Contact Person along with Telephone No., Fax No. and e-mail address.

Signature and Seal of the Manufacturer / Bidder \_\_\_\_\_

Place : \_\_\_\_\_

Date : \_\_\_\_\_



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Sr. No.	Description of Item & Specification	HSN/SAC Code	Quantity in Units	Unit Price ₹	Discount %	IGST %	CGST %	SGST%	Total Bid Price ₹
10	Monolithic Electrodes, 18 pcs  Ref-76501 Complete monolithic perovskite solar cell electrode on 20 x 25 mm sized 10 ohm/sq FTO glass 2.2 mm thick with c-TiO <sub>2</sub> , m-TiO <sub>2</sub> , m-ZrO <sub>2</sub> and carbon layer Active area 12 x 11 mm Origin: Switzerland HS Code 8541.9000		100 Piece						
20	Monolithic Module Electrodes  Ref-55090 10x10 cm electrode on 7 ohm/sq FTO glass 2.2mm with c-TiO <sub>2</sub> , m-TiO <sub>2</sub> , m-ZrO <sub>2</sub> and carbon layer Active area 75 x 76mm Origin: Switzerland HS Code 8541.9000		200 Piece						
30	Scribed electrode for 10x10 cm  Ref-55040 perovskite module 10x10 cm FTO glass 7 ohm/sq 2.2mm thick with laser scribing (P1 lines) corresponding to the monolithic module (75x76mm active area). Origin: Switzerland HS Code 8541.9000		100 Piece						
40	Elcocarb B/SP, 400 g  Ref-45422 Screenprint carbon pigment paste Origin: Switzerland HS Code 3801.90.00.00		1 Piece						
50	Zr-Nanoxide ZT/SP, 200 g  Ref-46422 Screenprint zirconia paste Origin: Switzerland HS Code 8109.99.00.00		1 Piece						



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Sr. No.	Description of Item & Specification	HSN/SAC Code	Quantity in Units	Unit Price ₹	Discount %	IGST %	CGST %	SGST%	Total Bid Price ₹
60	Ti-Nanoxide T165/SP, 200 g Ref-17922 Screenprint titania paste Origin: Switzerland HS Code 2823.00.00.00		1 Piece						
70	Ti-Nanoxide BL/SP, 200 g Ref-17122 Screenprint titania paste Origin: Switzerland HS Code 2823.00.00.00		1 Piece						
80	Screen for Mesoporous Perovskite Ref. 55020 Hot melt gasket for 10x10 cm modules Origin: Switzerland HS Code: 3919.90.50.60		1 Piece						
90	Printhead KM-512/SH Ref-76501 4 pl drop volume 512 nozzles (2 lines) 360 dpi (180 dpi x 2 lines) Origin: Japan HS Code 8541.4000		1 Piece						
100	Printhead SAMBA W/PP cartridge 2.4 pl drop volume 1.5 ml ink capacity 64 dpi Origin: United States of America HS Code 8443.9990		20 Piece						
110	Gasket 100 x 100mm* 2.4 pl drop volume 1.5 ml ink capacity 64 dpi Origin: United States of America HS Code 8443.9990		50 Piece						
	<b>Installation and Commissioning Charges</b>								
	<b>Other Charges</b> Please Specify Details								



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## Section V - PRICE BID for Indigenous Supplies, Quotes in INR only

Tender(RFQ) No.: 3000014348

Due Date & Time: 06.03.2025 01:00:00 PM

Sr. No.	Description of Item & Specification	HSN/SAC Code	Quantity in Units	Unit Price ₹	Discount %	IGST %	CGST %	SGST%	Total Bid Price ₹
Grand Total									

# HSN Code: "Harmonized System of Nomenclature Code No." and SAC Code:" Service Accounting Codes Code No."

1. Delivery Mode : Delivery at IIT Bombay, at site only.
2. Total Bid Price in the above column should be inclusive of all taxes and levies transport, loading, unloading etc.
3. Delivery Period .....days.
4. Validity Date: Minimum 180 days from the date of submission of quotation/tender.
5. Payment Term: Payment within 30 days from the date of submission of bill Acceptance Certificate to concerned Dept./ Sect. / MMD.
6. Prices quoted in other currencies will be summarily rejected.

PAN No. : .....

GST Registration No. : .....

Signature : .....

Name : .....

Company Name & Address : .....

Affix Rubber Stamp : .....

Place:  
Date:

**Note: Price Bid should be submitted in given format only.** For additional information/extra items above format may be typed and used.