



**IIITDM**  
KANCHEEPURAM

## TENDER NOTICE FOR PROCUREMENT

Tender Enquiry No: **IIITDMK/24-25/SP/CRFMSU/019 Dt07/11/24**



**Tender (E-Procurement Mode)**

**For**

**Supply and Installation of Customized RF  
Magnetron Sputtering Unit**



Tender Enquiry No: **IIITDMK/24-25/SP/CRFMSU/019 Dt07/11/24**

## Notice Inviting E-Tender (E-Procurement Mode)

Date: 07.11.2024

IIITDM Kancheepuram is intent to procure in E-Procurement of the articles mentioned below as per the terms and conditions attached. Please submit your bid documents on <https://eprocure.gov.in/eprocure/app> as per the due date and time.

Item	:	Supply and Installation of Customized RF Magnetron Sputtering Unit (Specification/Quantity details enclosed as Annexure-1)
Tender Enquiry No	:	IIITDMK/24-25/SP/CRFMSU/019 Dt07/11/24
EMD	:	Payment proof for EMD of Rs.1,00,000/- or a valid MSME Registration Certificate for EMD exemption must be attached.

### CRITICAL DATE SHEET

STAGE	DATE & TIME
<b>Pre-Bid meeting</b>	18 <sup>th</sup> November 2024 – 15.00 HRS at IIITDM Kancheepuram / Hybrid Mode  Meeting ID <a href="https://meet.google.com/wby-ukhg-zta">https://meet.google.com/wby-ukhg-zta</a>
Bid Submission End Date & Time	09 <sup>th</sup> December 2024 - 15:00 HRS
Bid Opening Date & Time	10 <sup>th</sup> December 2024 - 15:30 HRS
<b>NOTE:</b> 1. The bidder should be a Class-I / Class-II Local Supplier meeting the requirement as per the Order No. P-45021/2/2017-PP (BE-II) issued by the Public Procurement Section, DPIIT, Ministry of Commerce and Industry, GOI dated 16-09-2020. 2. Bidders other than Class-I / Class-II Local Suppliers will not be considered and bids will be rejected outright.	

#### Important:

All communications are to be addressed to in the name of The Registrar, IIITD&M Kancheepuram only and not in the name of any officer and mails has to be sent to official purchase email id [purchase@iiitdm.ac.in](mailto:purchase@iiitdm.ac.in)



**Terms and Conditions**

1. The Bidders are requested to give detailed tender in two bid format.

**Bid-I** : **Technical Bid**  
**Bid-II** : **Commercial Bid**

2. The tender document can be downloaded from the CPPP Portal <https://eprocure.gov.in/eprocure/app> . The duly filled tenders should be submitted **on or before due date 15.00 HRS, 09<sup>th</sup> December 2024**. Extension of due date will not be entertained. The instruction regarding e-bidding is enclosed.

3. **A pre-bid meeting is organized on 18.11.2024 at IIITDM Kancheepuram / Hybrid mode to clarify any doubts about the tender. The Interested bidders may participate at their own cost.**

4. The link for the meeting through online mode is <https://meet.google.com/wby-ukhg-zta>.

5. Tenders submitted without following the two bid offer system will summarily be rejected.

6. **Bid -1: Technical Bid**

The online Technical bids should be uploaded containing the scanned copy of the following documents in (.pdf file)

- I. The technical bid compliance sheet & Eligibility Criteria (**Annexure-1**)
- II. Payment proof for EMD of Rs.1,00,000/- or a valid MSME Registration Certificate for EMD exemption must be attached. (**Annexure-2**)
- III. Declaration of Local Content (**Annexure-3**)
- IV. Authorization Letter from OEM (**As Annexure-4**)
- V. Experience Certificate: Should have Supplied one similar equipment (each costing Rs. 25.00 Lakhs and above excluding taxes or equalent foreign currency) to reputed organizations/ research institutions/ Universities etc. in India on or after 1/1/2020 (PO copies to be enclosed) (**Annexure -5**)
- VI. Bidders shall quote only those products in the bid which are not obsolete in the market and has at least 5 years residual market life i.e. the offered product shall not be declared end-of life by the OEM before this period. (**Declaration from OEM to be enclosed as Annexure-6**)
- VII. Item Description Leaflet. (**Annexure-7**)
- VIII. Bids should have a validity of **90 days**. The technical offer should not contain any information on price.

**Important:**

The Technical bid consisting of all annexures and other documents should be serially numbered and to be uploaded as a single pdf file and the page number details has to be furnished in the compliance sheet. The total number of pages uploaded to be mentioned in the relevant column.

**Earnest Money Deposit:**

- Bidders shall Deposit EMD in the following bank. The amount must be through online mode and it shall be received on or before the last date and time of bid submission and the payment proof of EMD shall be attached along with the technical bid. No other mode of payment is accepted.

**Steps for submission of EMD through SBI E'Collect.**

- Go to link - <https://www.onlinesbi.sbi/sbicollect/icollecthome.htm>
- Please select category as "Educational Institutions"
- Please select "IIITDM – KANCHEEPURAM A/C" from drop down list



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- Please select “Earnest Money Deposit (EMD)” from Payment Category drop down list
- Kindly fill all tender details, contact details, EMD amount and make payment.
- After successful payment, the payment proof of EMD shall be attached along with the technical bid.
  
- In the case of payment failure/ mismatch of particulars leads to cancellation of bid.
- For the successful bidder, the EMD will be retained/ adjusted against the security deposit.
- For the unsuccessful bidders, EMD amount will be refunded within 30 days from the finalization of contract.
- The bidder shall enclose cancelled cheque/bank details to refund the EMD amount in case of unsuccessful bids at the technical evaluation process.
- EMD shall be forfeited if any tenderer withdraws their offer within the bid validity period.
- **EMD Exemption:** Vendors registered under ‘**Micro & Small Enterprises Act**’ (MSE) are exempted from submission of EMD. Exempted bidders should upload a valid certificate issued by the Department of Micro, Small and Medium Enterprises (MSME) or are registered with the Central Purchase Organisation or the concerned Ministry or Department along with Bid document.

**7. Bid-2: Commercial Bid / Price**

- i. **The Institute is exempted from custom duty (as applicable to Research Institutes/University) vide Custom notification no. 51/96 dt 23.07.1996 based on the DSIR notification in this regard.**
- ii. The Price may be quoted in INR only.
- iii. The price quoted should be for FOR Destination at IIITD&M Kancheepuram, Melakkottaiyur, Off Vandalur-Kelambakkam Road, Chennai – 600 127.
- iv. The packing, forwarding, freight, insurance and commissioning charges, if any extra may be quoted separately in commercial bid.
- v. This should contain only the price information along with commercial terms & conditions.
- vi. Submission of commercial bids by any other means shall not be accepted by the Institute in any circumstances.
- vii. Online submission of the bid will not be permitted on the portal after expiry of submission time and the bidder shall not be permitted to submit the same by any other mode.
- viii. **The Institute is Government Funded Educational Institution offering UG/PG and PhD programmes. The Item is required for student laboratory purpose and prices may be quoted at applicable “Academic Pricing”.**

**8. Technical Evaluation**

All the technical aspects of the bids will be evaluated by a committee constituted by the Director. The scrutiny of bids will be done prima-facie on the basis of documents and information furnished by the bidder in the bid. Hence, the bidders are requested to upload all the required documents to avoid rejection of bid for want of information.

Further, the Institute may verify from the end users specified in the technical bid about the execution and satisfactory functioning of the item quoted, if required.

Any information given in the bid found to be incorrect / false / suppressed fact will render the bidder ineligible at any stage during evaluation process or after issuance of PO and PO can be cancelled with no cost to the Institute.



**9. Opening of Commercial Bids**

IIITD&M Kancheepuram will open commercial bids of only the shortlisted bidders who qualified at the technical evaluation stage.

**10. Make in India Policy**

1. This Institute is following and will abide with the Public Procurement (Preference to Make in India), Order 2017 issued from time to time. The Institute will award the Contract to the Bidder whose bid has been determined to be substantially responsive as per the Order No. P-45021/2/2017-PP(BE-II) dated 16-09-2020 from Department for Promotion of Industry and Internal Trade (Public Procurement Section), Ministry of Commerce and Industry, Govt. of India.
2. The bidder should be a Class-I / Class-II Local Supplier meeting the requirement of minimum 20% Local Content in line with the Public Procurement (Preference to Make in India) Order 2017 No. P-45021/2/2017-PP(BE-II) dated 16-09-2020.
  - i. Class I local supplier – has local content equal to more than 50%
  - ii. Class II local supplier – has local content 20% to less than 50%
3. Further among all technically qualified bids during the price evaluation the lowest bid will be termed as L1. If L1 is Class I local supplier the contract will be awarded to L1. If L1 is not Class I Local supplier the lowest bidder among the class I local supplier will be invited to match the L1 price subject to class I local supplier quoted price falling within the margin of purchase preference and the contract shall be awarded to such class I local supplier subject to match the L1 price. In case the lowest eligible class I supplier fails to match the L1 price, the class I local supplier with next higher bid within the margin of purchase preference shall be invited to match the L1 price and so on and the contract shall be awarded accordingly. In case none of the class I local supplier within the margin of purchase preference matches the L1 price the contract shall be awarded to the L1 bidder (Class II Local supplier). Class II Local supplier will not get any purchase preference.
4. The margin of purchase preference for Class I local supplier is 20% from L1 price (without tax).

**11. Delivery Period / Timelines**

The deliveries and installation must be completed **within 08 weeks** from the date of purchase order. The time is the essence of the contract. It is mandatory for the bidders who respond to this bid to meet this expectation, as this is linked to student's Labs / classes.

**12. Supply & services**

- i) The items covered by this document is required to be supplied and installed at **Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram, Off Vandalur-Kelambakkam Road, Melakkottaiyur, Chennai – 600 127, Tamil Nadu.**
- ii) IIITD&M Kancheepuram will not provide any accommodation / transportation for the engineers / representatives for attending installation, commissioning and demonstration work. It is the absolute responsibility of the principal supplier / agent to make their own arrangements.

**13. Restriction on Purchase on Grounds of Defense of India**

The Institute follows Ministry of Finance and Department of Expenditure OM No.6/18/2019-PPD dated 23<sup>rd</sup>



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July 2020 and subsequent order dated 23<sup>rd</sup> July 2020 which are binding and the evaluation will be done accordingly.

**14. Installation**

- i) Bidder shall be responsible for installation / demonstration as applicable and for after sales service during the warranty and thereafter.
- ii) Installation and 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.

**15. Warranty / Support**

- i) The items supplied shall carry the warranty as per the requirement mentioned in the technical specification.
- ii) The defects, if any, during the guarantee / warranty period are to be rectified free of charge by arranging free replacement wherever necessary.

**16. Indemnity**

The vendor shall indemnify, protect and save IIITD&M Kancheepuram against all claims, losses, costs, damages, expenses, action suits and other proceeding, resulting from infringement of any law pertaining to patent, trademarks, copyrights etc., or such other statutory infringements in respect of all the items supplied by them.

**17. Freight and Insurance**

The items to be supplied will be insured by the vendor against all risks of loss or damage from the date of shipment till such time it is delivered at IIITD&M Kancheepuram site.

**18. Payment**

100% payment after delivery, installation and acceptance by IIITD&M on submission of Bank Guarantee for an equivalent value of 3% of PO value valid till warranty period plus 2 months

**19. Penalty for delayed services / LD**

- i) As time is the essence of the contract, delivery period mentioned in the purchase order should be strictly adhered to. Otherwise LD clause will be applied / enforced.
- ii) If the supplier fails to supply, and fix the item as per specifications mentioned in the order within the due date, the supplier is liable to pay liquidated damages of 1% of order value for delay of every week or part thereof subject to a maximum of 10% beyond the due date. Such money will be deducted from any amount due or which may become due to the supplier.
- iii) IIITD&M Kancheepuram reserves the right to cancel the order in case the delay is more than 04 weeks and the contractor is not eligible for any damage from the Institute and contractor will forfeit his claim for EMD.

**20. Jurisdiction**

The disputes, legal matters, court issues, if any, shall be subject to Courts in the district of Chengalpattu Jurisdiction only.



**21. Force Majeure**

- a) IIITD&M Kancheepuram may consider relaxing the penalty and delivery requirements, as specified in this document, if and to the extent that the delay, in performance or other failure to perform its obligations under the contract, is the result of a force majeure.
- b) If the due date of submission of tender / tender opening is declared a holiday for the Institute, the due date for submission of tender / tender opening will be extended to same time on next working day.

**22. Arbitration**

All disputes of any kind arising out of supply, commissioning, acceptance, warranty maintenance etc., shall be referred by either party (IIITD&M Kancheepuram or the bidder) after issuance of 30 days notice in writing to the other party clearly mentioning the nature of dispute and will be referred to the arbitrator to be nominated by Director, IIITD&M Kancheepuram, India. The Venue for arbitration shall be Chennai, India.

**23. Acceptance of the terms and conditions of tender document**

The bidders has to accept all the terms and conditions of this tender document and it is made known that the bidders quoting for this tender had impliedly accepted the terms and conditions of this tender.

**24. Interpretation of the clauses in the Tender Document**

In case of any ambiguity / dispute in the interpretation of any of the clause in this tender document, interpretation of Director, IIITD&M Kancheepuram shall be final and binding on all parties. The IIITD&M Kancheepuram reserves the right to accept the offer in full or in parts or reject the offer summarily or partly without assigning any reasons.

**25. Integrity Clause**

No official of a procuring entity or a bidder shall act in contravention of the codes which includes prohibition of making offer, solicitation or acceptance of bribe, reward or gift or any material benefit, either directly or indirectly, in exchange for an unfair advantage in the procurement process or to otherwise influence the procurement process.

**26. The competent authority reserves the right to either accept or reject the tender without assigning any reason.**

कुलसचिव / Registrar  
IIITD&M Kancheepuram



**ANNEXURE-1**

**TECHNICAL BID**

**Technical Compliance Sheet (to be filled and uploaded)**

<b>Name of the Agency</b>					
<b>Office Address:</b>					
<b>Name and Mobile No. of contact person:</b>					
<b>ITEM: Supply and Installation of Customized RF Magnetron Sputtering Unit (Quantity: 01 No)</b>					
Sl No	Parameter	Technical Specification	Compliance Yes/No/N.A.	Deviation (If Any)	Remarks
1.	Construction design	The box type vacuum chamber, Non corrosive, Nonmagnetic SS 304L Metal is used to fabricate the Chamber, and all stainless steel components including chamber is electro polished.			
2.	Magnetron Sputtering Source: (4 Nos)	Indirect water cooled, flexible magnetron source of 2" dia with height adjustment feasibility and individual shutters along with power cables should be provided.			
3.	Substrate heater	The substrate heater (1 No) is provided for varying the substrate temperature from room temperature to 600°C.			
4.	Substrate Holder & Rotation assembly	a. As per the requirement, the substrate holder fixture accommodates a substrate 5 mm to 100 mm size of diameter with threaded holes to screw the small size samples will be provided. A Rotary drive mechanism is provided for rotation of the substrate holder adjustable from 0 to 20 rpm.			
5.	Substrate Handling for Roll-to-Roll mechanism	a. Feed Rollers: To feed the textile threads into the deposition zone b. Take-Up Rollers: To collect the			





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		coated threads after deposition c. Tension Control: Precise control to maintain uniform tension and prevent thread breakage Speed Control: Adjustable speed to control the coating thickness			
6.	Mini-Vacuum chambers (2 Nos)	a. Loading fresh yarn bobbins with rotating feed assembly with gate valve b. Unloading the coated yarn with take-up-rotating assembly, provided with gate valve Variable vacuum should be maintain in the mini-vacuum chambers			
7.	DC power supply (1 No)	a. DC power supply of 1 kW It has an automatic current control and hence limits the current in the circuit by closed loop action			
8.	RF power supply (1No) [Advance Energy/ Serene/ Highend model]	a. 300 W RF power supply (13.56 MHz) with auto-matching network and RF outputcables. The power supply has digital displays for forward and reflected power.			
9.	Thermal Power supply [single source]	Variable LT and HT (200 amp)			
10.	Thickness Monitor	Quartz crystal thickness monitor			
11.	Two stage rotary vane vacuum pump: (1 No)	Suitable Rotary pump should be provided.			
12.	Turbo Molecular Pump: (1 No)	Turbo Molecular Pump with capacity of greater than equal 300 LPS should be provided.			
13.	High Vacuum Valve	Motorized, position controlled high vacuum valve should be provided to functioning of high vacuum pumping.			
14.	Valves	Electro-magnetically operated valves should be provided to functioning of roughing and backing operations.			
15.	Vent valve (1 No.)	Electromagnetically operated vent valve			
16.	Plumbing lines	SS-304 made vacuum pumping lines with necessary bellows should be provided.			



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17.	Vacuum Measuring gauges	Required number of Pirani Gauge and Penning Gauge heads with controller should be provided.			
18.	Mass Flow controllers: (4 No of each)	Multigas support Individually with 1-100 sccm range.			
19.	Gas cylinders with Regulators & PU pipe connectors: (1 No of each 47 ltr)	Argon gas: Purity of 99.999% Nitrogen gas: Purity of 99.99% The purity certificate should be provided.			
20.	Water chiller	Suitable Industrial grade water chiller with plumbing lines for connecting two coating units with low noise (<50 db).			
21.	Mounting	Rigid and movable support structure should be provided.			
22.	Housing Console Cabinet	Well designed housing cabinet to hold power supplies, electrical controlling switches for vacuum pumps, gauges, rotation, thread speed controller, PID, etc.			
23.	Safety and Interlocks	a. Necessary interlocks should be provided for safe operation of vacuum pumps, magnetron guns. All major components are connected through circuit breaker and contactor, and major electrical circuits are provided with fuse.			
24.	Operation & Instruction Manual	One (1) set of manual is provided for operation, instruction and maintenance of the system.			
25.	O-rings	One (1) set of all O-rings			
26.	Vacuum oven for sample preparation	Vacuum range: $10^{-3}$ mbar Temperature: RT – 250 °C Programmable PID 8 segment controller			
27.	Warranty	3 years Comprehensive Warranty (onsite/parts/labour)			
28.	Delivery of the equipment will be 4 <sup>th</sup> floor of the laboratory complex and at least two times of demonstration and training need to be provided after installations.				

**Note: The total cost will be taken into account for arriving L-1.**



**ELIGIBILITY CRITERIA**

Sl.No	Description		Compliance Yes/No/N.A.	Page No.
1.	Technical Sheet	The technical bid compliance sheet & Eligibility Criteria <b>(Annexure-1)</b>		
2.	EMD	Payment proof for EMD of <b>Rs.1,00,000/-</b> or valid MSME Registration Certificate for EMD exemption <b>(Annexure-2)</b> .		
3.	Declaration of Local Content	Declaration of Local Content <b>(Annexure-3)</b>		
4.	Authorization Letter from OEM	Authorization Letter from OEM <b>(Annexure-4)</b>		
5.	Experience Certificate	Should have Supplied one similar equipment (each costing Rs. 25.00 Lakhs and above excluding taxes or equalent foreign currency) to reputed organizations/ research institutions/ Universities etc. in India on or after 1/1/2020 <b>(PO copies to be enclosed) (Annexure -5)</b>		
6.	Bidders shall quote only those products in the bid which are not obsolete in the market and has at least 5 years residual market life i.e. the offered product shall not be declared end-of life by the OEM before this period. <b>(Declaration from OEM to be enclosed as Annexure-6)</b>			
7.	Leaflet	Product Leaflet <b>(Annexure-7)</b>		
8.	Bid Validity	90 Days		
9.	Total Number of pages uploaded in the technical bid			
<b>Please Enclose Relevant Document Only.</b>				

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**ANNEXURE-3**

**SELF-CERTIFICATION REGARDING LOCAL CONTENT (LC) FOR GOODS, SERVICES OR WORKS  
ISSUED BY OEM UNDER PREFERENCE TO MAKE IN INDIA ORDER CERTIFICATE FOR CLASS-I or  
CLASS- II LOCAL SUPPLIER**

Tender No.: \_\_\_\_\_; Date: \_\_\_\_\_

Date: [insert date (as day, month and year) of Bid Submission]

We hereby declare that the items under our Quotation No. \_\_\_\_\_  
in the brand name of \_\_\_\_\_ & (equipment details)  
\_\_\_\_\_ are manufactured at (complete  
address) \_\_\_\_\_.

Hence, it contains the local content of: \_\_\_\_\_% as defined under the Make in India policy of the  
Department for Promotion of Industry & Internal Trade, DPIIT, Govt. of India.

The value addition for the local content is done at (Name of the place & address)  
\_\_\_\_\_.

The Country of Origin of the item(s) is/are \_\_\_\_\_.

**Further, it is declared that finished Equipment is not imported and local Content not calculated  
on the basis of Transportation, Insurance, Installation, Commissioning, and Training & after sales  
services. But Equipment is Manufactured/Assembled in India at out Factory  
address \_\_\_\_\_.**

The false declaration will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the General  
Financial Rules of 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.

We also declare that the goods are not manufactured in a country that shares its land border with India  
nor the beneficial owner belong to those country.

We shall be held responsible if the certificate is found to be incorrect.

Seal and Signature of OEM & Bidder



**ANNEXURE-5**

**Past Experience details**

List of Organizations for whom the bidder has undertaken such work in India on or after 1/1/2020.  
(must be supported with Purchase orders)

Name of the organization	Name of Contact Person	Contact No.	Copy of Purchase Orders (Page no.) along with value

**Note: Without submission of relevant Purchase orders, experience will not be considered.**

**Signature of Bidder**

Name: \_\_\_\_\_  
Designation: \_\_\_\_\_  
Organization Name: \_\_\_\_\_  
Contact No.: \_\_\_\_\_