



# भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद

धनबाद, झारखण्ड, भारत, पिन-826004

(मानव संसाधन विकास मंत्रालय, भारत सरकार के अधीन राष्ट्रीय महत्व का एक संस्थान)

INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD

DHANBAD, JHARKHAND, INDIA, PIN-826004

(An Institute of National Importance under Ministry of H.R.D., Govt. of India)

STORES & PURCHASE SECTION Phone:(0326) 2235678 || Email : purchase@iitism.ac.in || Website : www.iitism.ac.in

NIT No.: ECE-PRJ-325-18-19

Date: December 24, 2018

## NOTICE INVITING TENDER

**Subject:** NIT No. ECE-PRJ-325-18-19 for Supply and Installation of Electron Beam Gun cum Thermal Evaporation System - 1 Qty

Indian Institute of Technology (Indian School of Mines), Dhanbad invites tenders/ quotations for supply and installation of Electron Beam Gun cum Thermal Evaporation System in our ECE Department. *Particulars of tender cost, earnest money deposit and date and time of submission and opening of tenders are as under:*

S No	Items	Particulars
1.	Tender cost	Rs. 1,180.00 (Inclusive all taxes)
2.	Earnest money deposit	Rs. 25,000.00
3.	Last date and time for submission of tenders	<b>15.01.2018 at 1:00 P.M.</b>
4.	Date and time of opening of tenders	<b>15.01.2018 at 3:00 P.M.</b>

Tender document containing following document is available in our website [www.iitism.ac.in/tender](http://www.iitism.ac.in/tender) page, which may kindly be referred.

1. Technical specifications as per Annexure-I
2. General terms & condition as per Annexure-II
3. Acceptance of terms & conditions as per Annexure-III
4. Financial bid format-IV
5. Compliance Statement as per Annexure -V

Encl : As above

Assistant Registrar (P&S)



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**Annexure-I**

## **Technical Specification**

### **ELCETRON BEAM CUM THERMAL EVAPORATION SYSTEM**

**Description:** The thin film deposition unit will be comprised of a Single electron beam gun cum thermal evaporation source. The vacuum system consisting of Oil diffusion pump and two stages oil rotary pump together with system of valves and vacuum measuring hardwares. Details about the required technical specifications are given below:

S.NO	Items		Specifications
1	Electron Beam Gun Cum Thermal Evaporation Chamber	(A)	<b><u>VACUUM CHAMBER:</u></b> <ul style="list-style-type: none"> <li>➤ A box type (D shape) vacuum chamber fabricated out of non-magnetic stainless steel and electro-polished SS 304. Approximate outer dimensions of 400mm (W) x 400mm (D) x 450-500mm (H).</li> <li>➤ Necessary ports required for Pumping, evaporation sources, Gas Inlet, Vent, gauge, feedthrough, view port, port for substrate holder etc.</li> <li>➤ All sub-assemblies should be electro-polished.</li> <li>➤ The leak rate of the chamber should be better than <math>10^{-9}</math> mbar l/sec.</li> </ul>
		(B)	<b><u>THERMAL EVAPORATION SOURCE:</u></b> <ul style="list-style-type: none"> <li>➤ 1 set of LT evaporation electrical feed through and evaporation source holder for evaporation made of electrolytic pure copper, with 200 A current carrying capacity for sector evaporation source holder to be provided as a standard which can accept Filament / Basket / Boat as evaporation source.</li> <li>➤ A 200 Amps power supply capable of delivering 200 A at 10 V, 100 A at 20 V</li> <li>➤ Output power is controlled by means of thyristor controller</li> <li>➤ Separate digital panel meters should be provided for secondary current through current transformers.</li> <li>➤ Manual shutter for cover the single evaporation source during pre- melting</li> </ul>
		(C)	<b><u>Special Substrate Holder</u></b> <ul style="list-style-type: none"> <li>➤ A special substrate holder is provided which can</li> </ul>



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			<p>hold minimum of six numbers of fibers at a time for coating. The fixture is attached to the top plate. Substrate fixture is designed such that the fibers are exposed 360 Deg with Rotation towards the Evaporation source for deposition on fiber surface.</p> <p>➤ Motor and Gear mechanism should be provided to achieve the rotation up to 20 rpm</p>
2	Electron Beam Gun & Power Supply	(A)	<p><b><u>Electron Beam Gun ( Source ):</u></b>            No. of Pockets: 4 Nos.            Beam Deflection Angle: 270 deg.            Turret drive : Manual            Magnet : Alnico            High Voltage Feedthroughs : Teflon insulated rated for 15 K.V. /100 Amps.            Crucible Size : Top OD: 18mm and Depth: 16mm</p>
		(B)	<p><b><u>Power Supply:</u></b>            Power Supply : Solid State            Power Input : 440 VAC, 50 Hz., 3 Phase            Maximum Output Power : 3 K.W.            H.T. Voltage : 0-7 K.V. adjustable            Filament Supply : 10 V @ 30 Amps.            Emission Current : 500 Milliamps.max.            Control : Thyristor Controlled            Scan Unit : Beam Scan should be Provided</p>
		(C)	<p>Plug in Emitter assembly for easy filament replacement.            Secondary Electron absorber will be provided to eliminate the cross contamination.            Insulators will be covered by shields to protect from coatings &amp; there by increasing the life period.            Crucibles will be made-up of OFHC copper for better Thermal Conduction &amp; to get clean Vacuum.            Remote Controller will be provided for easy of operation.            All the safety interlocks will be provided like Water, Door &amp; Vacuum.</p>
3	Vacuum Pumping System	(A)	<p><b><u>High vacuum pump:</u></b>            ➤ A Oil Diffusion pump having suitable pumping speed (minimum 600 lit/sec) to achieve chamber vacuum level better than <math>2 \times 10^{-6}</math> mbar            ➤ Ultimate Pressure: Better than <math>2 \times 10^{-6}</math> mbar to be achieved in chamber after high vacuum valve opens and initially back filled with pure and dry</p>



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			Argon / Nitrogen gas and liquid nitrogen trap filled with liquid nitrogen.
		(B)	<b><u>Roughing pump:</u></b> ➤ A Two Stage Oil Rotary pump ( $\geq 12 \text{ m}^3/\text{hr}$ or Higher)
		(C)	<b><u>HIGH VACUUM VALVE:</u></b> ➤ Manual or motorized poppet high Vacuum Valve to Isolate Vacuum Chamber from pumping system. ➤ Inbuilt Liquid Nitrogen Trap of 1.4 Lt Capacity is incorporated below the High Vacuum Valve.
		(D)	<b><u>VACUUM VALVES:</u></b> ➤ A Combination Valve having provision for both roughing and backing Operation should be provided for high vacuum applications. ➤ A Vent valve, fine control needle valves should be provided
		(E)	<b><u>SS Plumbing line &amp; Collar</u></b> ➤ SS Plumbing line with flexible hoses & KF connections wherever required with necessary interlocks should be provided;
		(F)	<b><u>VACUUM GAUGES:</u></b> ➤ Digital Pirani gauge with high pressure sensor to monitor the backing and roughing pressure in the range of 1000 mbar to $1 \times 10^{-3}$ mbar and Digital Penning Gauges to monitor the vacuum range of $\geq 10^{-3}$ mbar to $\geq 10^{-6}$ mbar should be provided.
4	<b>Control Console &amp; Instrumentation</b>		➤ To house all the displays of Pumps, Gauges, Power Supplies, controller, etc., ➤ Should be easy for maintenance;
5	<b>Mounting Frame / Support Stand</b>		➤ Necessary pumping systems can be accommodated below the stand. ➤ The unit is mounted on 4 castor wheels for mobility and easy maneuverability.
6	<b>Water Chiller (Closed loop)</b>		➤ 1.5TR capacity water chiller to be provided for the whole unit with interlocks, tank, etc.,
7	<b>Warranty</b>		➤ $\geq 12$ months from the date of commissioning and acceptance of equipment
8	<b>Eligibility Criteria</b>		➤ Must have supplied minimum 3 nos. of similar equipments to Government labs / Govt. Institutions / Universities, etc., List of Organization names with user details to be submitted along with offer where similar type





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			supplied earlier to above said institutions / Universities / etc. ➤ Registration certificates
9	<b>Utilities</b>		➤ Details to be provided in the offer for space, power supply, gases, etc for system operation
10	<b>Manuals</b>		➤ Operation Manual to be given after installation and acceptance of equipment
11	<b>User Training</b>		➤ Training for 1-2 users from <b>Indian Institute of Technology (Indian School of Mines), Dhanbad</b> should be provided to make them well familiar with the operation of various components and successful growth of the thin films using the given deposition units.
12	<b>Associated Accessories and parts</b>		<b>Spares</b> ➤ O-rings and gasket-1 Set ➤ Tungsten Helical -6 No's ➤ Tungsten Basket-6 No's ➤ molybdenum Boats- 2 No's ➤ Diffusion pump oil-250cc ➤ Rotary pump oil – 5 Ltrs ➤ Pirani gauge sensor- 1 No ➤ Penning Gauge sensor-1 No ➤ Graphite Liners for E Beam Source- 4 Nos. ➤ Moly Liners for E Beam Source- 4 Nos. ➤ Electron Beam Gun Emitter Filament-5 Nos. Should be supplied for trouble free running of the equipment.



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**Annexure-II**

## GENERAL TERMS & CONDITIONS

### NIT No. ECE-PRJ-325-18-19

Sealed tenders under **two-bid system** are invited from manufacturers/ their authorized dealers/agents for supply and installation in IIT (ISM) Dhanbad of items specified in *Annexure-I*.

1. Offer should be submitted under **TWO BID** system in two separate sealed covers i.e. “**Techno-commercial bid**” and “**Price bid**”.
2. *a) In a tender, either the Indian agent on behalf of the principle/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender.*  
*b) If an agent submit bid on behalf of the principle/OEM, the same agent shall not submit a bid on behalf of another principle/OEM in the same tender for the same item/product. There must be authorization letter for this tender reference issued by principle/ OEM in firm of the agent.*
3. **Techno-commercial Bid:** should contain the following documents/information:
  - a. **Tender Cost:** Cost of the tender document is to be paid by way of online only through the link: <https://www.onlinesbi.com/prelogin/icollecthome.htm?corpID=272342>. Tender cost is **non-refundable and non-transferable**. Alternatively, intending tenderers may download the complete set of tender document from IIT (ISM) website ([www.iitism.ac.in](http://www.iitism.ac.in)) and submit the same duly signed on all pages by the tenderers along with receipt of tender cost.
  - b. **Earnest Money Deposit (EMD):** Should be submitted in form of A/C payee demand draft drawn in favor of Registrar, IIT (ISM), Dhanbad and payable at any other Bank/ Branch located in Dhanbad. It can also be submitted in the form of bank guarantee issued by a Nationalized Bank in India in the format given in Annexure-IV.
  - c. Tenders without payment of tender cost and EMD may not be considered unless the tenderer is exempt from such payment under Govt. Rules/Regulations as amended from time to time and claims such exemption along with relevant and valid supporting documents.
  - d. All relevant technical specifications/details of offered items, drawings, printed technical leaflets, and commercial details which are necessary to ensure that offer is complete in all respects.
  - e. A ‘Compliance Statement’ along with a certificate and duly signed that the tenderer satisfies the technical requirements given in **Annexure-I**. The said statement should be in a tabular form with the columns: sl. no., (2) technical requirement as per NIT; (3) what is offered by the tenderer; and (4) status of compliance: Complied/Not complied).
  - f. IIT (ISM) does not bind itself to offer any explanation to those bidders whose Technical Bids have not been found acceptable by the Evaluation Committee of the Institute.
4. The packing, forwarding, freight and transit insurance charges, if any must be included in the price and should not be claimed separately. Duties & taxes, if applicable, are to be shown separately clarifying whether those are extra or included in the price. **Price bids of only technically short-listed tenderers shall be opened.**
5. **Educational discount, if any, should be clearly mentioned.**
6. Being an IITs and equipment will be used for research purpose. Hence, GST may be charged @ 5% as per Institute’s notification.
7. IIT (ISM) is entitled for custom, excise Duty Exemption under Govt of India notifications and is registered with DSIR, Govt of India for this purpose. This may be taken into consideration while quoting minimum possible rate. IIT (ISM) has not agreed any high sea sales Purchase. IIT (ISM) will provide only custom duty exemption certificate for availing concessional custom duty. IIT (ISM) will not pay any extra custom duty other than duty exemption certificate.



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8. IIT (ISM) does not issue form 'C' or 'D' for concessional Sales tax/VAT. Hence, full rate of sales tax as applicable to educational institutions against the form of certificate (enclosed as Annexure V) should be indicated.
9. **Warranty:** Minimum 12 months from the date of installation and commissioning at the site.
9. **Validity:** Offer must be valid for a period of **180 days** from the date of opening of tender.
10. Price should be quoted on FOR, Dhanbad basis only.
11. Your full address for correspondence and name address of the beneficiary's banker should be clearly indicated in the offer.
12. One set of technical literature/catalogue with the detail specification of the material under purchase should be furnished with the offer.
13. Earliest/expected delivery period should be clearly indicated.
14. The offer should reach through post/ courier only at the earliest in a sealed envelope superscribed 'Enquiry Reference Number and due date' address to  
**Assistant Registrar (P&S),  
Indian Institute of Technology (Indian School of Mines),  
Dhanbad-826004, Jharkhand, India.**
15. **Performance Bank Guarantee (PBG):** Successful bidder has to submit a bank guarantee issued by a Nationalized Bank in India towards PBG within two weeks of placement of purchase order for an amount equal to 10% of order value of purchase order and valid till the period beyond two months of completion of warranty period should be submitted in favour of **REGISTRAR, IIT (ISM) DHANBAD.**
16. **Delivery Period and Liquidated Damage:** The ordered materials/work complete in all respects are required to be delivered and installed within the period stipulated in the purchase order failing which liquidated damages of 1% per week for the delayed period subject to maximum of 5% of the total basic value of the order shall be deducted from the invoice of the supplier.
17. **Inspection:** Inspection shall be carried out at IIT (ISM), Dhanbad after arrival of the materials and decision of the Institute in this regard shall be final.
18. **Rejection and Replacement:** Rejection, if any, shall be notified to the supplier within 30 days of receipt and inspection of the material/workmanship. Rejected materials/work is to be removed by the supplier at his own risk and cost from IIT (ISM). Campus within 14 days of intimation of rejection. Defective Supplies are required to be replaced within 15 days of the removal of the rejected materials/work.
19. **Risk Purchase:** IIT (ISM) shall be at liberty to realize from the supplier the differential amount, if any, which it shall have to incur on purchase of the material/work at higher price(s) from elsewhere in the market, if the supplier, due to their fault, fails to supply the ordered quality and quantity of the material/work within the stipulated time.
20. **Conditional offer will not be accepted.**
21. Any kind of advance or part payment will not be released.
22. Payment will be made within 30-45 days after satisfactory supply, inspection, installation/commissioning & acceptance and on submission of pre-receipted tax invoice, delivery challan, warranty certificate and installation report in triplicate and performance bank guarantee followed by its verification. The invoice should be duly certified by the Head of Dept to which supply is made or any other IIT (ISM) official authorized for this purpose.
29. **Last date** for receipt of tenders and date & time for opening of the same is given above. In the event last date is a holiday/declared as a holiday, next working date will be the last date for submission/ opening of tender. IIT(ISM) may extend/ revise these date & time as per its rules.
30. (i) Tender should be submitted in a sealed cover/envelope and must be superscribed as:  
"Tender No. \_\_\_\_\_ (NIT no. should be mentioned for \_\_\_\_\_ (tendered





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item should be mentioned) due on \_\_\_\_\_ (tender opening date should be mentioned) at \_\_\_\_\_  
(tender opening time should be mentioned).

(ii) All tender shall be received upto to the time and date as stated in the tender notice, after which no tender shall be accepted in any circumstances.

(iii) All tender must be send by Registered Post/Speed Post/Courier along with Courier receipt, during IIT (ISM) working days, working hours only (i.e. Monday to Friday). Please note that no hand delivery of tender will be received at any circumstances.

31. IIT (ISM) reserves the right to accept or reject any or all the bids in part or in full without assigning any reason and does not bind himself to accept the lowest bid. The Institute at its discretion may change the quantity/quality/parameters/upgrade the criteria/drop any item(s) or part thereof at any time before or after placing the order. IIT(ISM) reserves the right to change/ cancel the purchase order at any stage without assigning any reason/ notice thereof.

32. In case of any dispute, the decision of IIT (ISM) shall be final and binding on the bidders/tenderers.





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**Annexure-III**

## **ABOVE TERMS AND CONDITIONS OF THE NIT ARE ACCEPTED**

1	Name and address of the tenderer	
2	Telecom nos. of the tenderer i.e. phone & email id.	
3	Signature, name & designation of the person signing on behalf of the tenderer & his/her office seal	
4.	Name & designation of the contact person & his phone/mobile no.	



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## Annexure-IV

### Format for Financial Bid

NIT No.: ECE-PRJ-325-18-19

Date:

Bidders Ref: No.

Date:

GSTIN No.:

**Subject: Supply & Installation of Electron Beam Gun cum Thermal Evaporation System**

Sl. No.	Full Description of Items with (HSN Code/SAC Code)	Qty.	Rate	Amount
		Packing & Forwarding (if any)		
		<b>Total</b>		
		GST		
		Freight (if any)		
		Installation (if any)		
Amount should be in figure as well as word (FOR IIT(ISM), Dhanbad basis)		<b>Grand Total</b>		

### **Note:**

- 1) All the details must be provided as per prescribed format only
- 2) Prices quoted by the bidders should include GST, HSN Code, SAC Code, duties, livies, transportation cost and insurance costs etc. if any



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धनबाद, झारखण्ड, भारत, पिन-826004

(मानव संसाधन विकास मंत्रालय, भारत सरकार के अधीन राष्ट्रीय महत्व का एक संस्थान)

INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD

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(An Institute of National Importance under Ministry of H.R.D., Govt. of India)

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NIT No.: ECE-PRJ-325-18-19

Date: December 24, 2018

Annexure-V

## Compliance Statement

Sl. No	Technical requirement as per NIT	What is offered by the tenderer	Status of Compliance Complied/Not Complied
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