



भारतीय  
प्रौद्योगिकी  
संस्थान  
काशी हिन्दू विश्वविद्यालय



**ANNEXURE-1-A**

INDIAN  
INSTITUTE OF  
TECHNOLOGY  
BANARAS HINDU UNIVERSITY

## SCHOOL OF MATERIALS SCIENCE AND TECHNOLOGY

### QUOTATION ENQUIRY

Ref: IIT(BHU)/SMST/BNP/SERB/2016-17/EVA/10

Date:24/01/2017  
(Date of tender enquiry)

**Due Date: 14/02/2017, 5:00 PM**  
**(Last date and time of quotation receiving)**

Dear Sir,

Please submit your lowest rate for supplying the under mentioned items **(in hard copy in sealed envelope)**. It must be ensured, before submission of the quotations that each **and every submitted paper has been signed and the seal of the firm affixed**. Quotation in duplicate must reach us before the date marked above and should contain the following information

1. Full specification and make of the item offered and its rate F.O.R. Varanasi/CIF New Delhi.
2. Sales tax at concessional rate as applicable to educational institution.
3. Your VAT / CST registration number, PAN & TAN numbers
4. Conditions of supply and terms of payment
5. If you are a manufacture of the item or if you have proprietary right over it, please mention it in the quotation and provide a certificate.
6. Please mention your agency commission in Indian Rs., if applicable (in case of imported items).
7. Please give an undertaking as per annexure -I-B.
8. Further, if you want to quote any additional features, you are suggested to use a separate sheet.

Quotation must be sent in a **sealed envelope** with word **“QUOTATION”**, our reference number, and due date as given above, clearly marked over it.

Sl. No.	ITEM	Approx. Qty.
01	<u>TECHNICAL SPECIFICATION FOR THERMAL EVAPORATOR THIN FILM DEPOSITION SYSTEM</u>	01

**a) Chamber:** Should be made out of Stainless Steel Material Suitable size **“D” Shape** chamber with rectangular front door opening & view port. Approx. dimension should be 400mm diameter x 500 mm high or close to that. Necessary ports for pumping, gauges, gas inlet, feed through, etc., A SS liner to be provided

**b) High Vacuum Pumping System:**

Turbo Molecular Pump: 400 Ips with controller and vent valve  
Make: Edwards/Pfiever/Leybold

Rotary Vacuum Pump: 15 m<sup>3</sup> / hr (or) better

LNT, Collar, SS Plumbing line, etc.,

Manually Operated High vacuum, backing, roughing, needle valve, air admittance valves  
Safety devices and interlocks, etc.,

**c) Vacuum Gauges**

Digital Pirani with two sensors: Measuring range Atmosphere to  $10^{-3}$ mb  
Digital Penning with one sensor: Measuring range  $10^{-3}$  to  $10^{-6}$ mb

**d) Evaporation Source Holder (02 Sets or more)**

LT Power Supply with feed through  
HT Ion cleaning  
LT / HT control and meters

**e) Source Shutter (02 Nos.) and Suitable size with Work Holder**

**f) Substrate Heater** consisting of radiation source to enable substrates to be heated upto 700 Deg C or higher using PID controller with an accuracy of +/-5 Deg C.

**g) Water Chiller:** Minimum 0.5 TR capacity

Make: Indigenous

**h) Digital Thickness Monitor** with feed through and sensor with water cooling system. Make: Indigenous

**i) Control console:** Should house vacuum gauges, Pumps ON / OFF switches, controllers, DTM etc.

**j) Support Structure:** Should be made out of MS channel and angles, neatly painted; Must have castor wheels for mobility purpose.

**k) Leak Testing:** System must be leak tested to leak rate better than  $1 \times 10^{-9}$  std. Cc / sec.

**l) Packing:** To be done in such a way, that it should not happen any damage during transit.

**m) Installation & Commissioning:** Supplier has to install and commission the equipment at SMST, IIT Varanasi;

**n) Training:** Supplier has to give training to students after installation and commissioning of system at SMST, IIT(BHU), Varanasi.

**o) Manual:** Operation Manual to be given after delivery and installation.

**p) Warranty:** 1 Year from the date of installation, commissioning and acceptance of equipment against manufacturing defects

**q) Schematic Drawing and Technical Brouchers** to be submitted along with offer.

**02. Accessories Items for thermal evaporator (Quote prices separately):**

- a) Heating boat Tungsten Helicals,
- b) Heating boat Tungsten baskets
- c) Heating boat Tungsten
- d) Molybdenum heating Boat
- e) Thickness monitor crystal,
- f) O ring etc.

**ACCEPTANCE CRITERIA:**

- 1) Company must be an Original Equipment Manufacturer (Preferable) of said Thermal Evaporation Unit, Vacuum Systems and Products.
- 2) Vendor Must have supplied minimum 10 numbers of said thermal evaporation unit to various Government Labs / Institutions, etc. including any one INDIAN INSTITUTE OF TECHNOLOGY.
- 3) List of Organization details to be submitted along with offer where similar type of Thermal Evaporation Unit supplied earlier.

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- **Payment condition: On bill basis on installation of instrument**
  - **Quote should include F. O. R to the IIT(BHU)**
  - **Validity of the Quotation: Minimum 90 Days**
  - **Supply Period of the quoted Instrument: Minimum 80 Days**

**Dr. BholaNath Pal  
Project Investigator  
School of Materials Science and Technology  
Indian Institute of Technology (BHU) Varanasi  
221005**

## INDIAN INSTITUTE OF TECHNOLOGY (BHU) VARANASI

<b>TO BE RETURNED</b>
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Following proforma should be filled in and duly signed by the firm and sent along with the quotation. (Please refer to the detailed instructions/notes before filling this proforma).

1. Validity of the offer : .....
2. Approximate Delivery Period : .....
3. (a) Whether rates have been quoted F.O.R. site and covers packing forwarding and insurance charges. : YES / NO  
(b) If not, please mention the same : .....
4. (a) Whether the prices are inclusive of Sales Tax and other taxes. : YES / NO  
(b) If not, kindly specify the amount / rate :  
.....
5. If the Sales Tax is charged extra, declaration for charging Sales Tax correctly attached. : YES / NO
6. (a) Whether supply will be made directly or through any Local / Regional / Authorized Dealer / Stockist Dealer : Directly/Stockist/Authorized Dealer  
(b) If through a Stockist / Dealer: -  
(i) Name and full address of the Party :  
.....  
.....  
(ii) Whether the order to be placed with the Dealer : Principal / Stockist /  
(iii) Who will raise the bill : Principal / Stockist / Dealer  
(iv) Cheques will be drawn in favour of : Principal / Stockist / Dealer  
(v) Whether any Delivery, Packing and Forwarding Charges will be payable to local Stockist/Dealer : YES / NO  
(Please specify the amount/percentage etc, if any)
7. Our terms of payment (Please indicate your preference by a (✓) mark). Please note that no other payment terms are likely to be accepted.  
(a) **For Local Firms or if the bills are raised by the Local Dealers.**  
(i) 100% Payment on bill basis : .....  
**OR**  
(ii) 100% payment against Proforma Invoice after receipt of materials in good condition, installation and satisfactory report.  
**(Only under exceptional cases)**  
(b) **If the bills are raised by outstation Firms**  
(i) 100% Payment on bill basis :  
.....  
**OR**  
(ii) 100% payment against Proforma Invoice after receipt of materials in good condition, installation and satisfactory report : .....

**OR**

(iii) D.G.S. & D. Terms of Payment for D.G.S. & D

Rate Contract items : .....

**OR**

(iv) 75% against Proforma Invoice (at site) or Documents through Bank and 25% after receipt of materials in good condition, installation and Satisfactory report. : .....

**OR**

(v) 90% payment against Proforma Invoice (at site) or documents through bank and 10% after receipt of materials in good condition, installation and Satisfactory report (Only under special Circumstances). : .....

8. Whether any Excise Duty is payable on the items. : YES / NO  
If yes, indicate the amount / percentage. : .....%
9. Whether any installation charges are payable extra. : YES / NO  
If yes, amount to be specified. :  
.....
10. Whether any discount for educational institution :  
offered on the printed price list of the manufacturer. : YES / NO  
Please mention the amount / percentage. :  
.....
11. Whether the product is on DGS &D/D.I. Rate contract.  
If yes, please enclose a photocopy of the same. : YES / NO
12. Whether the product bears I.S.I. Mark. YES / NO  
If yes, please mention the I.S.I. License no. :  
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13. (a) Whether the firm is Sales Tax payer. : YES / NO  
If yes, please mention the Sales Tax Numbers. :  
.....
- (b) Whether the Local Dealer(s) is / are Sales Tax payer(s) : YES / NO  
If yes, please mention the Sales Tax numbers of each :  
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14. Whether printed / authenticated price list of the Firm's Products and Catalogue etc. enclosed. : YES / NO

Signature of the Authorized Official with Seal

TO BE RETURNED WITH QUOTATION

**UNDERTAKING**

***WE HEREBY UNDERTAKE THE FOLLOWING:***

1. We will not sell the product (s) to other institutions, bodies and also in the market on the rates less than those quoted by us to the Institute.
2. The goods on which Sales Tax has been charged are not exempted for payment of Sales Tax under C.S.T. Act or U.P.S.T. Act or the rules made there under and the amount mentioned on account of Sales Tax on goods is not more than what is payable under the provisions of the relevant Act or Rules made there under.
3. The rate of Excise Duty mentioned in the quotation is in accordance with the provisions of the rules and the same is payable to the Excise Authorities in respect of the stores.
4. The goods / Stores / articles offered shall be of the best quality and workmanship and their supply will be strictly in accordance with the technical specifications and particulars as detailed in the quotation.
5. The information furnished by us in the quotation is true and correct to the best of our knowledge and belief.
6. We have read and understood the rules, regulations, terms and conditions and agree to abide by them.

***Authorised Signatory***  
**(Seal)**