

NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA-136119

No. Phy/2018/03(1440)/18/EMR-II/01 / 5405

Dated: 01/11/18

M/s Institute website

Sub: INVITATION OF QUOTATIONS FOR THERMAL EVAPORATOR UNIT FOR METALS (Au, Ag)

1. You are invited to submit your most competitive quotation for the following goods:

Sr.No.	Brief Description & Specifications of Goods	Quantity
1.	Thermal Evaporator Unit for Metals (Au, Ag) (Detailed Specifications are attached)	01 No.

2. Necessary literature of the goods may please be sent to facilitate to take decision.

3. Payment will be made Online through RTGS/NEFT within 30 days after receipt of material in good condition and according to specifications and installation of the same. The Bank detail for making online payment may be indicated in the quotation.

4. The supplier shall deposit Earnest Money along with the Quotation amounting to Rs. 16000 /- in shape of Accounts Payee Demand Draft/Fixed Deposit Receipt/Bankers Cheque or Bank Guarantee from any scheduled commercial Bank in favour of the Director, National Institute of Technology, Kurukshetra. The Quotations without Earnest Money shall be rejected, the EMD will remain valid for a period of 45 days beyond the final validity period of quotation.

5. Performance Security @ 5% of the total value of the equipment must be furnished in shape of Demand Draft/Fixed Deposit Receipt or Bank Guarantee from any scheduled Commercial Bank in favour of the Director, NIT Kurukshetra valid upto 60 days after the date of completion of warranty by the successful bidder.

6. The items must be supplied within delivery period or delivery period extended by the Institute on the request of the supplier on genuine grounds otherwise the penalty for delayed period @ 0.5% of the amount shall be charged for every week or part thereof and the maximum 10%. The request for extension of delivery period (if any) must be made before the last date of supply as per P.O.


7. The goods are required exclusively for Research Purpose. The Duties are not payable by the Institute.

8. The quotation should remain valid for a period not less than 90 days from the date of submission.

9. The firm must have got GST No. printed on their quotation

10. The right of accepting or rejecting any quotation and to cancel the bidding process and reject all quotations without assigning any reason is reserved with the Institute.

11. The due date for receipt of quotation is 19.11.2018 and will be opened on next working day. Please quote on the top of the envelope our Ref. No. and due date of opening.


01.11.2018
Prof-Incharge (Stores)

Technical Specifications of Thermal Evaporator Unit for Metals (Au, Ag)

- **Chamber:** Glass dome with minimum 20 cm distance between target and substrate, with auto/manual cleaning
- **Substrate holder :** For samples with diameter 1cm to 10cm.
- **Substrate heater:** Up to 500 °C or more using PID controller with suitable power controller
- **Substrate rotation:** Rotation up to 20 rpm or more for uniform deposition of films
- **Gas flow assembly:** Gas Inlet and Outlet for Argon, Nitrogen gas
- **Thickness monitor:** Thickness measurement system ranging from 20nm to 10 um or better with good resolution
- **Rate Display:** 3 digit auto ranging from 0.00 to 999 Angstrom /sec. .
- **Static Thickness:** 1 Angstrom at minimum update rate
- **Evaporation materials:** in the form of granules/wire
 - i. Au(Gold) -10 gms
 - ii. Ag(silver) - 25 gms
- **Vacuum :** 10^{-6} m. bar or better
- **Water chiller:** Up to 2 TR Water Chiller should be provided along with Unit for cooling Purpose of Thermal Evaporation System
- **Spares/ Accessories:**
 - i. Oil for Rotary Vacuum pump (5 Liters)
 - ii. Diffusion pump oil (200 cc)
 - iii. Diffusion Pump Heater (No.-01)
 - iv. Liquid Nitrogen up to 4-5 Liters for first usage
 - v. Molybdenum boats 200 amps (5 pieces)
 - vi. Tungsten baskets 10WB 3/3 (10 pieces)
 - vii. Crystals for Film Thickness monitor (5 pieces)
 - viii. ITO/FTO/Glass Substrates
- **Terms and Conditions:**
 - i. **Warranty/ Guarantee (Including Service and maintenance):** Three Years
 - ii. **Manual:** One set of instruction and service manual
 - iii. **Demonstration and installation:** Demonstration and Installation at Physics Department, NIT Kurukshetra. Training and demo must be conducted by the instrument engineer at NIT Kurukshetra.

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