



THE NATIONAL INSTITUTE OF ENGINEERING

(An Autonomous Institution)

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME PHASE-III

Manandavadi Road, Mysuru – 570 008.

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Date: 06-04-2018

Invitation for Quotations

Quotations are invited for the procurement of the following equipments under TEQIP– III

Equipment: Fume Hood and Thermal Evaporation Unit – Quantity - 1 each

Sl. No	Item Name	Specifications				
1	Fume Hood	<p>A. Fume Hood Interior Walls: Double wall ends, not more than 4” wide, shall be provided to maximize interior working area. The area between the double wall ends shall be closed to house the remote control valves.</p> <p>B. Fume Hood Airfoil</p> <p>C. Fume Hood Top Panel:</p> <p>a. Restricted Bypass Configuration: The top front panel shall be of the same material as the exterior facia.</p> <p>D. Fume Hood Baffles :</p> <p>a. A stable, non-adjustable baffle with three fixed horizontal slots shall be provided to aid in distributing the flow of air into and through the hood. The baffle shall be spaced out 2-1/4” from the back liner. The baffle shall be removable for cleaning</p> <p>E. Fume Hood Duct Collar :</p> <p>a. A 12” diameter polyethylene bell-mouthed duct collar shall be located in the top of the hood plenum chamber. Coated common steel duct collars are not acceptable.</p> <p>F. Fume Hood Lighting: A one-tube, energy-efficient, T-5 fluorescent light fixture of the size given below shall be provided in the hood roof. Illumination at 13” above the work surface shall be at least 100 foot-candles.</p> <table border="0"> <tr> <td>Hood Size, Ft.</td> <td>Nominal Fixture Length, Ft.</td> </tr> <tr> <td>3</td> <td>3</td> </tr> </table> <p>a. The light fixtures shall be isolated from the hood interior by a 1/4” thick tempered glass panel sealed from the hood cavity.</p> <p>G. Fume Hood Sash:</p> <p>i. Combination Sash: Fume Hood Plumbing Service:</p> <p>ii. Utility services like Nitrogen, Vacuum, Compressed Air and Raw water Fume Hood Electrical Service:</p> <p>b. The hood superstructure shall be pre-wired and contain wire gauge, connections, fixtures and wire color coding. Wiring electrical services shall consist of two duplex receptacles and a light switch. 4 nos of 5/15 Amps (Make: North West), 230 Volt AC, and 3-wire polarized grounded with ground fault interruption. The light switch shall be 5 Amps. 230 volt AC and 3-wire polarized grounded. Wiring shall terminate in one 6” x 6” x 4” service junction box located on the fume hood roof</p> <p>H. Hood Work Surface:</p> <p>a. Black Granite:</p> <p>b. Hood work surface shall be 1-1/4” thick jet black granite</p> <p>I. Polyethylene Cup Sinks:</p> <p>J. Access Opening:</p> <p>J. Fume Hood Dimensions Double wall end panel thickness shall not exceed 4”. Interior clear working height shall be not less than 41-3/4” at any location in the interior of the hood on bench hoods. Interior depth from the back of the sash to the front of the rear baffle shall not be less than 25-1/4”. The sash opening shall be not less than 28” in height above the work surface on bench hoods.</p>	Hood Size, Ft.	Nominal Fixture Length, Ft.	3	3
Hood Size, Ft.	Nominal Fixture Length, Ft.					
3	3					

		<p>K. Fume Hood Liners : Interior liner panels shall be 1/4" thick fiberglass reinforced polyester sheet. Interior liner panels shall be fastened using stainless steel screws with plastic covered heads.</p>
2	Thermal Evaporation Unit	<p>LT evaporation feed through: 10nos of LT evaporation electrical feed through and evaporation source holder made of electrolytic pure copper with 200 amps current H.T.ION Cleaning: yes Evaporation source holder: one set for central/sector evaporation source holder L.T power Supply (2nos): 200 amps power supply capable of delivering 200 amps at 10 volts, 100 amps at 20 volt intermittent and 160 amps at 10 volts, 80 amps at 20 volts continuous is provided H.T. Power Supply: A 5000 volts DC open circuit, 3500 volts at 50 ma high reactance type transformer and solid state bridge rectifier are provided LT/HT control: Yes Meters: Digital panel meters provided No of Evaporation boats: 10 (circular setup) No of Boats: 10 Position of Boats: Circular No of Transformers for thermal evaporation: 2 High Transformer (Ion Itching): 1 Rotary Pump Diffusion Pump/Turbo Molecular Pump Hydraulic Chamber set up Piran gauge Penning gauge (max: 10-7mbar) Gas inputs: 03 Substrate Rotation Substrate Temperature Substrate Distance variation from Boats (minimum to maximum from 2 cm to 10 cm) Thickness monitor</p>

Delivery Period: 60 Days from the date of issue of purchase order. Warranty Period: 36 Months

Terms and Conditions

- i. Quotation should be invariably in the prescribed **format enclosed**; otherwise it is **liable to be rejected**.
- ii. Quotation should be sent in a **sealed cover superscribed as "Quotation for the supply of Fume Hood and Thermal Evaporation Unit under TEQIP III" to the office of the Principal (TEQIP- III), The National Institute of Engineering, Manandavadi Road, Mysore 570 008.**
- iii. Last date and time for submission of quotation **21st April, 2018, 14:00 hours**
- iv. Installation and demonstration shall be at the Department of Mechanical Engineering, NIE, Mysore.
- v. Quotation should be valid for **45 days** from the last date of submission of quotation.
- vi. Equipment should be delivered at **the Department of Mechanical Engineering, The National Institute of Engineering, Manandavadi Road, Mysore - 570008.**
- vii. **100% payment on installation, demonstration, successful completion in all respects and final acceptance by the Purchaser.**
- viii. **Authorized Dealer/ Channel Partner Certificate from the company** should be enclosed along with the quotation.
- ix. The Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.

FORMAT FOR QUOTATION SUBMISSION

(In letterhead of the supplier with seal)

Date: _____

To:

Sl. No.	Description of goods (with full Specifications)	Qty.	Unit	Quoted Unit rate in Rs. (Including Ex Factory price, excise duty, packing and forwarding, transportation, insurance, other local costs incidental to delivery and warranty/ guaranty commitments)	Total Price (A)	Sales tax and other taxes payable	
						In %	In figures (B)
Total Cost							

Gross Total Cost (A+B): Rs. _____

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs. _____ (Amount in figures) (Rupees _____ amount in words) within the period specified in the Invitation for Quotations.

We confirm that the normal commercial warranty/ guarantee of _____ months shall apply to the offered items and we also confirm to agree with terms and conditions as mentioned in the Invitation Letter.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

Signature of Supplier

Name: _____

Address: _____

Contact No: _____