

INDIAN INSTITUTE OF TECHNOLOGY DELHI  
HAUZ KHAS NEW DELHI

Date: 25/02/2014

**Notice Inviting Quotation**

Quotations are invited for the purchase of Fume Hood (two in number) at the **Department of Chemistry**. Interested manufacturers / suppliers are required to submit their quotations as per the specifications given below. The sealed Quotations are to be submitted in two Separate envelopes;

**A □ for Technical Quote (Specifications) &**

**B □ for Financial Quote**

**(For details, see Annexure I)**

Both these envelopes should be further enclosed in an outer envelope, which should also be sealed and addressed to, clearly mentioning on top of the envelope "Quotations for Fume Hood."

**Dr. Ravi P. Singh**  
**Assistant Professor,**  
**Department of Chemistry,**  
**IIT Delhi, Hauz Khas, New Delhi 110016**

The quotations should reach the above office of by **5.00PM on 11/03/2014**. If needed, the suppliers may be asked to make a technical presentation before the committee.

Institute reserves the right to accept or reject any of the offers without assigning any reasons.

**Specifications of Fume Hood - Qty. 2 Nos.**

<b>Type of hood:</b> Auto Bypass Type Bench Fume hoods.																	
<b>Overall Dimension:</b> Width 1800 x Depth 915 x Height 2300																	
<b>Inner Dimension:</b> Width 1600 x Depth 645 x Height 1200																	
<b>Sr. No.</b>	<b>Description</b>	<b>Qty. (Nos.)</b>															
1	<p><b>Fume hood Superstructure</b> consisting of</p> <ul style="list-style-type: none"> <li>- Structure frame in 2.0mm thick GI construction</li> <li>- Inner lining, rear baffles and top baffles in 6mm thk. Phenolic resin construction</li> <li>- Outer panels in 1.2mm thick GI construction.</li> <li>- Aerodynamic Shape front posts, in GI construction</li> <li>- Flip-on type Airfoil in 1.6 mm thick SS construction</li> <li>- Streamlined shaped exhaust duct collar in PP const.</li> <li>- Combination type, Frameless design Sash in toughened glass construction with full length sash handle in anodized Al const.</li> <li>- Sash movement mechanism with counter weight.</li> <li>- Twin tube type light fitting with fluorescent lamps</li> </ul>	1															
2	<p><b>Fume hood Worktop</b> In telephone black natural granite construction, having raised rails on all four sides, with 1 No. oval shaped cup sink, in PP const. on left rear side.</p>	1															
3	<p><b>Service Valves</b> Having body in forged brass const., extended spindle in brass construction, color coded knobs in plastic const., angular shaped serrated nozzles, in epoxy coated forged brass const., 1.5mt. long flexible tubing with end fittings for following services:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><b>Services</b></th> <th style="text-align: left;"><b>Tube Construction</b></th> <th></th> </tr> </thead> <tbody> <tr> <td>Compressed Air</td> <td>- PU-4</td> <td>1</td> </tr> <tr> <td>Vacuum</td> <td>- SS braided Teflon Hose</td> <td>1</td> </tr> <tr> <td>Nitrogen</td> <td>- PU-4</td> <td>1</td> </tr> <tr> <td>Potable Water</td> <td>- Nylon braided PVC Hose</td> <td>1</td> </tr> </tbody> </table>	<b>Services</b>	<b>Tube Construction</b>		Compressed Air	- PU-4	1	Vacuum	- SS braided Teflon Hose	1	Nitrogen	- PU-4	1	Potable Water	- Nylon braided PVC Hose	1	
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4	<p><b>Electrical Services</b> with internal wiring (All in Non-FLP const.)</p> <ul style="list-style-type: none"> <li>- 5.0A piano type switch for light - Northwest or eq. Make</li> <li>-16A, 3Ph MCB for Fan - Northwest or eq. Make</li> <li>-5/15A 3-pin Socket with switch/ MCB - Northwest or eq. Make</li> </ul>	1 1 4															
5	<p><b>Fume hood understructure</b> Fabricated out of heavy gauge rectangular shape hollow pipes in MS construction, duly finished with corrosion resistant specially coatings.</p>	1															
6	<p><b>Fume hood under-cabinet - Chemical Storage Purpose.</b></p> <ul style="list-style-type: none"> <li>- Detachable design chemical purpose twin cabinets fabricated out of GI sheet, consisting of,</li> <li>- Special arrangement for air ventilation inside the cabinet</li> <li>- twin doors in double wall const.</li> <li>- flushed type recessed handle.</li> <li>- 110° special design door hinges in Zn-Al alloy const.</li> <li>- recessed base frame in heavy duty GI const.</li> <li>- twin castors for easy removal of the cabinet.</li> <li>- <b>Chemical resistant FRP Lining inside the cabinet.</b></li> </ul>	1															
7	<p><b>Accessories</b></p> <p>a <b>300 mm dia. Duct damper</b> in PP const. complete with pre drilled flanges on bot sides, manual operation handle and extended spindle, suitable for motorized drive.</p>	1															

**Specifications of Exhaust Fan - Qty. 1 No.**

Sr. No.	Description	Qty. (Nos.)
1	<b>Exhaust Fan- 1 No. fan for 2 Nos. 1800mm wide bench type fumehoods</b> SISW direct driven design, Exhaust fan, capacity 2200 CFM at 25-40mm WC static pressure; consisting of - Punker - Germany Make impeller duly finished with chemical resistant super special coating - Drive - 2HP, 4 Pole, 3Ph, 415V, 50Hz., TEFC Class B insulation induction motor with IP55 enclosure, in non-FLP const. - <b>DOL Starter for Motor.</b>	1

**Specifications of PP+ FRP - Qty. 1 No.**

Sr. No.	Description	Qty. (Sq.Mtr.)
1	<b>Supply and Installation of exhaust ducting in PP/ FRP (Round Shape)</b> construction (3mm + 2mm) complete with necessary bends, reducers, T-connections, supports, flanges, gaskets, nut bolts etc. <b>Note: Amount for ducting work shall be payable as per actual site measurement.</b>	40 (Approx)

**Envelope A: Technical Quote: The following details are to be enclosed (Mention clearly on this envelope – Technical Quote)**

1. Technical brochures mentioning all details with complete address of the principals.
2. A compliance chart based on the specifications as per the NIQ.
3. Any optional equipment / accessory / spares advised to be included separately.
4. Installation requirements including blower, ducting etc.
5. List and addresses of organizations where the equipment has been supplied in last 3 years in India.
6. Details of other equipment supplied to IIT Delhi specifying the Department/ Centre / lab to which the equipment was supplied. Also mention if the equipment is being maintained by your organization.
7. Address of the technical office, in India, with telephone and FAX numbers. Kindly clarify the type of support available in India.
8. If quote is for imported equipment supplied through Indian Agent, Sole Agency  ship certificate on the letterhead of the principal company, if quotation is from an Indian Agent.
9. Proprietary Item Certificate from the principals, if applicable.
10. Copy of the certificate of a registered importer from Ministry of Commerce or Finance if the quotation is being submitted by an Indian agent.

**Envelope B: Financial Quote: The following details are to be enclosed/ ensured. (Mention clearly on this envelope – Financial Quote)**

1. The quotations for the equipment in foreign exchange, if it is to be imported. The cost of spares and optional equipment/accessories to be quoted separately. The cost should be based on CIF, New Delhi. If equipment is indigenous, the quote should be in INR and all taxes applicable should be mentioned clearly.
2. Institute makes payment after delivery and successful installation. In case the payment terms are different, it should be mentioned clearly. If equipment is to be imported, the address of the company in whose name the LC is to be opened should be stated.
3. The comprehensive Warranty period.
4. The details of the AMC after the warranty period.
5. Cost for Installation and training at site, if applicable.
6. Validity of the quote should be minimum 90 days.
7. The delivery period to be clearly specified.