



## CENTRE FOR NANO AND SOFT MATTER SCIENCES

Prof. U.R. Rao Road, Jalahalli, BENGALURU 560 013.

Autonomous Institution under the Dept. of Science & Technology, Govt. of India

### REQUEST FOR QUOTATION

PI2/000041/20-21

Date : 14.09.2020

The Centre invites Quotation for the following item.

SI No	Description of Item	Qty
01	<b>FUME HOOD</b> Detailed Specification is given in Annexure.	02 Nos.

#### NOTE:

- The sealed quotation/bids should be submitted on or before 24 September 2020 by 5.00 PM through Speed Post / Courier / Registered Post.
- The quotation should be addressed to the **Administration and Finance Officer , Centre for Nano and Soft Matter Sciences**, PB No: 1329, Prof. U.R Rao Road, Jalahalli, Bangalore-560013.

The same should be accompanied with and Earnest Money Deposit of Rs.25,000/- through SBI Collect (link : [onlinesbi.com/sbicollect](https://onlinesbi.com/sbicollect)). Procedure for paying through SBI Collect :- Please Select State : Karnataka/Type: Govt. Department/ Name: Centre for Nano and Soft Matter Sciences/Category : MISC Fee/ Purpose : Earnest Money Deposit. The EMD will be refunded to unsuccessful bidders without any interest thereon. A copy of the SBI Collect receipt should be attached with the quotation in proof of remittance of EMD. Overseas bidders may remit an equivalent EMD to the Centre's Bank A/C No.10838600274, Bank Name : State Bank of India, Jalahalli branch, IFSC Code : SBIN00963 SWIFT Code: SBININBB177.

- The cost of Packing, Freight & Insurance (CIF Bangalore) should be indicated separately. A brochure giving technical details of the product should be enclosed.
- Discount if any should be clearly mentioned.
- Delivery schedule, warranty details must be clearly indicated.
- Taxes & duties should be separately shown.
- The quoted price should be valid for a minimum period of **3 months** from the date of issue.
- Terms of payment:**

#### **i) For Imported Equipment:**

- 90% through Letter of Credit with usance period of 30 days on proof of dispatch of consignment. The balance 10% payment will be released after expiry of the applicable Warranty period or on submission of

Performance Bank Guarantee for an equivalent amount (10% of the Invoice value), having validity up to three months from the date of expiry of the applicable Warranty period.

**OR**

b) 90% by wire transfer on proof of dispatch of consignment and balance 10% after delivery and installation of equipment. Performance Bank Guarantee valid for the period of warranty equal to 10% of invoice value to be submitted before release of the final 10% payment.

**ii) For Indigenous Equipment:** the payment in INR shall be made through NEFT/RTGS after successful installation and against submission of Performance Bank Guarantee equal to 10% value of the equipment, valid for the period of warranty. Complete details such as the bank account number/IFSC/SWIFT/Bank Address, etc. should be provided along with the price bid.

(i) **Opening of bids:** The firm shall be at liberty to authorize a representative to be present at the opening of the quotation at the time and date which will be informed by E-mail. A proper letter of authority should be produced before the meeting.

(j) Firms representing the Principal supplier should submit authorized dealership certificate from the Principal company along with the quotation. The dealership certificate should be valid for at least one year from the date of submission of quotation.

(k) **Banking charges:** All banking charges applicable outside India will be on suppliers account.

(l) **Guarantee and replacement:** The Supplier shall guarantee that the Items/Equipment supplied shall comply fully with the specifications laid down, for material workmanship and performance. The Guarantee period should be specifically mentioned.

(m) The Centre reserves the right to accept or reject any quotation or part thereof without assigning any reasons.

(n) Sealed envelopes containing the quotation should be superscripted with "Quotation for Fume Hood PI2/000041/20-21"

(o) Quotation received after the due date shall not be considered.

(p) The Centre is exempted from paying of custom duty on purchase under the Government of India Notification No.11/280/1993-TU-V dated 29 April 2016.

(q) The Centre is also exempt from paying Central Excise of Customs duty on purchase under the Govt. of India, Notification No. 11/280/1993-TU-V dated 29 April 2016.

Yours sincerely

Sd/-

Administration and Finance Officer

## Annexure

<i>Type of Fume Hood</i>	<i>Overall dimension</i>			<i>Inner dimension</i>			<i>Worktop height</i>
<i>Bench Type Fume Hood</i>	1800	915	2300	1600	645	1250	900
<i>Baffle Design</i>	3 point suction, fix type baffle arrangement for effective suction of light, medium and heavy fumes						
<i>Sash Arrangement</i>	Vertical rising						
<i>Service Valves</i>	Panel mounted valves with color coded as per DIN/ BS standard remote knobs fitted on front vertical post						
<i>Front Vertical Post</i>	Aero Dynamic Design						
<i>Air Foil</i>	Flip on Type Design						
<i>Exhaust Outlet</i>	Streamlined exhaust outlet with suitable size Volume Control damper						
<i>Electrical Panel Box</i>	Provided below the fume hood in GI construction						

### **B. MATERIAL OF CONSTRUCTION / MAKE OF COMPONENT:**

**Fume Hood Inner Panels & Baffles:** 6mm thick panels made of laboratory grade Phenolic Resin / Compact Laminate to have property of excellent chemical & heat resistance and fire retardant. These panels should be rigid construction with smooth finish and easy clean ability.

**Fume Hood External Panels:** Outer panels in 1.2mm thick front posts in durable, Zero Spangle / Skin Past Galvanized Iron steel from Tata, Jindal or equivalent make, finished with epoxy powder coating of at least 50-60 micron thickness applied through twin electrode method.

**Fume Hood Super Structure:** 2.0 mm thick Galvanized Iron (GI) powder coated construction.

**Fume Hood Work Surface:** 18 to 20 mm thick telephone black natural granite in standard offering with raised railing in same material on 4 sides for containment. The worktops can also be offered in Solid Epoxy/ Phenolic Resin/ Vitrified Ceramic etc. as per end user requirement on request.

**Air foil:** SS 316 L & in “Flip On” type in Aerodynamic design.

**Scaffolding (Lattice):** in vertical rod design, fabricated out of 12.0mm dia. Epoxy Rods, having 150mm pitch between two rods in standard offering.

**Fume Hood Sash:** 5 mm thick toughened glass in frameless const. and vertical rising type. Fume Hood sash should work with a pulley & counter weight mechanism with SS 316, multi wire flexible sash rope.

**Lighting:** Vapor proof light fitting with twin LED type light with fluorescent lamps.

**Duct Collar:** Molded Polypropylene (PP) construction.

**Damper:** Molded Polypropylene (PP) construction suitable for motorized operation.

**Fume Hood Plumbing Service Line:**

**For Air & Nitrogen Service:** 4mm Bore PU Tube

**Electrical Fittings:** Legrand or Equivalent

**Cables/ Wires:** ICI/ Finolex/ Gloster / Anchor make or Equivalent

## **2. BASE CABINET:**

**Overall Dimension:** W 1200 / 1500 / 1800 / 2400mm x H875mm x D600mm.

Twin cabinets in Zero Spangled Galvanized Iron (GI) construction for chemical storage cabinet. Cabinets should be mounted on a common base frame with castor wheels. Each cabinet to have twin door in double skin construction. Each cabinet should have one adjustable shelf & with detachable rear panels in segmented construction. Cabinet should be provided with two numbers ports with the flexible ducts connected to the exhaust passage of the fume hood.

**Material of Construction:**

**Cabinet Body:** 1.0mm thick Galvanized Iron (GI) construction.

**Cabinet Shutter:** 0.8mm thick Galvanized Iron (GI) construction.

**Handles:** Flush type; Anodized Aluminum construction; duly powder coated.

**Hinges:** Heavy duty Knuckle-Barrel type special designed door hinges.

**Hardware:** SS 304 construction

**Cabinet Finish:** Inner and Outer surface of the cabinet, shelf and drawer type plate shall be coated with pure epoxy powder coating applied through twin electrode process.

### **3. EXHAUST FAN:**

#### **Construction, Design and MOC detail:**

- Single piece molded UV treated chemical resistant SISW direct driven centrifugal fan in PP construction with suitable stand in MS powder coated construction.
- Corrosive resistant PP Impeller with extra strength, high efficiency properties which produces lower noise and power consumption.
- 415V, 50Hz. TEFC Class B insulation, in Non-FLP/FLP const. induction motor with IP55 enclosure
- 16A, 3Ph MCB for Fan - Legrand or eq. Make
- DOL starter for motor / Electrical panel with necessary internals and VFD for fan

### **4. ACCESSORIES:**

**Airflow Monitor:** This Face Air Velocity monitor gives digital display of face velocity in m/sec or fpm with on screen display for Safe and Alarm conditions with audible alarm and LED indication.