

**DEPARTMENT OF CHEMISTRY**  
**&**  
**CENTRE OFF ADVANCE STUDIES IN CHEMISTRY**  
**PANJAB UNIVERSITY CHANDIGARH –160014 (INDIA)**

Please send the quotations in 'two bid system' so as to reach the undersigned by 22.05.2018.

- Technical bid consisting of all technical details along with commercial terms and conditions.
- Financial bid indicating items-wise price for the items mentioned in the technical bid.
- Also send 2% cost of the Instrument as EMD (in the form of Demand Draft) quoted on the Quotation if the amount exceed Rs.50,000/-.
- The technical bid, financial bid and EMD should be sealed by the bidder in separate cover duly super scribed and all three sealed covers are to be put in a bigger cover which should also be sealed and duly super scribed to reach on or before.

**Other terms and conditions:**

The quality, make, packing and other particulars of each item should clearly be stated/indicated in your quotation.

1. It should clearly be stated whether the rates are inclusive / exclusive of GST etc.
2. The rates of INSURANCE if any should be specified. The firm will be required to submit original payees receipt along with bill. NO PAYMENT OF INSURANCE CHARGES IS PERMISSIBLE UNLESS THESE REQUIREMENTS ARE COPLIED WITH.
3. THE QUOTATION SHOULD ALWAYS BE SUBMITTED IN DUPLICATE.
4. Please quote only for the items available in 'READY STOCK.'
5. Please quote only for the make required and strictly according to the specifications etc.
6. Please also indicate the DISCOUNT separately, if any.
7. While submitting the quotation please write on the OUTER ENVELOPE, 'QUOTATIONS FOR Provision of Laboratory Workstations, Fume Hood, UVCabinet, , Temp/humidity Display Monitor Static Pass Box, Alkali/Abrasion resistant floor, Aluminum section and the envelope be put in another envelope address to **Dr. G.R. Chaudhary, Investigator incharge, Department of Chemistry, Panjab University, Chandigarh – 160014**
8. Please send the quotation by post along with Authorization Certificate with validity and Certificate of Rate of Reasonability.
9. **Time period for completion would be 60 days from the issue of Purchase order.**

**Note: In terms of the Government of India Notification No.47/2017-Integrated Tax (Rate) dated 14th November, 2017, the applicable Integrated Tax (Rate) under GST Act-2017 on goods procured for Scientific and Research purposes shall be 5%. Where ever applicable, this clause shall be taken into consideration.**

## **Provision of Laboratory Workstations, Fume Hood, UVCabinet, , Temp/humidity Display Monitor Static Pass Box, Alkali/Abrasion resistant floor, Aluminum section .**

### **Technical Specifications:**

#### **Supply and Installation of wall side modular Laboratory Workstation**

Top of the laboratory table should be made of black granite supported underneath with water proof and pest (termite) resistant wooden ply with 11 mm minimum thickness supported on high quality mild steel (MS) metal frame square in shape which would be pre- treated and epoxy powder coated for better corrosion resistant. All the sharp corner edges of the granite would be rounded off and polished. The storage cabinets of lab table shall be provided with locking facility. The body of the Storage Cabinets and doors would be made of 22 G grade CRCA MS Sheet. The swing doors should be firmly affixed with corrosion resistant metal hinges. Every drawer and cabinet should be provided with handle with no sharp edges.

#### **Wall Side Modular Laboratory Workstation**

Size: 4572mm (L) x 609.6mm (D) x 853.4mm (H)

15feet (L) x 2 feet (D) x 2.8 feet (H)

Underneath working top space should be provided with drawers and storage cabinets. There should be one sink provided with inlet and outlet provisions. One Laminar Air Flowspace with approximate size of 40 inches length to be left for fixing LAF. one **Fume hood** to be provided in between this wall side modular laboratory workstation having at least 6 feet gap between LAF and Fume Hood

#### **Wall Side Modular Laboratory Workstation (MLW)**

Size: 6096mm (L) x 609.6mm (D) x 853.4mm (H)

20feet (L) x 2 feet (D) x 2.8 feet (H)

Underneath working top space should be provided with drawers and storage cabinets. There should be leg space not exceeding for more than 3 (three) persons

#### **Wall Side Modular Laboratory Workstation (MLW)**

Size: 5560mm (L) x 609.6mm (D) x 853.4mm (H)

20feet (L) x 2 feet (D) x 2.8 feet (H)

Underneath working top space should be provided with drawers and storage cabinets. There should be leg space not exceeding for more than 3 (three) persons and one sink

#### **Supply and Installation of of MS Fume Hood with provision of ducted filtered Exhaust**

##### **Detailed Specification of Fume Hood (40 x 24 x 24 inch)**

- The body/cabinet is made of Mild steel working table of heavy gauge construction material fortified with acid proof glazed tiles/stone. The working table is provided with a small sink made of SS 304/ceramic. Fume hood is provided with sliding sash made of shatter proof glass duly framed with aluminium frame with sliding motion and counter weight balanced mechanism.
- Fume hood ensure approx 800 lux of illumination on the working table. The fume hood is equipped with very diligent heavy duty exhaust system, comprising of dynamically balanced centrifugal impeller with high speed motor of approx 1440 RPM (3 Phase)
- Air Velocity: Fume hood ensures that the optimum face velocity of 80 feet – 100 feet per minute is maintained with an accuracy of +10 feet/minute with sash in complete open position
- Volume of Exhaust: Fume hood capable of maintaining a constant exhaust volume. The maximum variation permissible in house test procedure is 6%.
- Testing Procedures: Fume hood conforms to British standards of testing performance of chemical hoods.
- Pressure: Fume hood is designed to minimize the loss of static pressure at a given baffle opening position.
- Illumination Level: fume hood ensures approx 800 Lux of illumination on the working table.
- Noise/Sound: Fume hood designed to generate lower noise level and performance is 60 db, at 1 feet distance from the sash.
- Exhaust Assembly: Fume hood is provided with very strong and high end exhaust system having range of 500 – 1250 CFM. The exhaust assembly consists of dynamically balanced impellers which are coupled with heavy duty three phase motor
- Exhaust Ducting: Fume hood is provided with suitable FRP ducting.

**Technical Parameter**

|                     |   |
|---------------------|---|
| Construction        | Mild Steel with epoxy powder coating              |
| Table               | Fortified acid proof glazed tiles/stone           |
| Sink                | SS 304/ceramic with tap                           |
| Air Flow            | Unidirectional                                    |
| Air Flow Control    | Three Step air flow speed controller              |
| Blower Assembly     | Centrifugal lubricated                            |
| Illumination        | Fluorescent light illumination > 800 lux on table |
| Noise Level         | < 60 db   |
| Internal Work Space | 3x2x2 ft  |
| Warranty            | Warranty of 2 years from the date of installation |

**Supply and Installation of UV Cabinet (30x30x30inch )**

External operation for both UV and fluorescent Lamps  
 Polycarbonate clear window and SS 304 working platform

**Supply and Installation of Display monitors**

Temperature, humidity and pressure display monitors in all chambers  
 Display monitor having LCD display  
 Complete installation having connection with electrical (220V)

**Supply and Installation of Static Pass Box**

Static Pass Box, made in compliance with clean room standards.  
 The Static Pass Box should act as a hindrance for entrance of contaminants in  
 Clean room and other classified areas.

**Supply and Installation of of vitrified polished floor tiles of 1<sup>st</sup> quality**

Size shall be 600x600mm or 605x605mm having not less than 0.8 mm thickness  
 Heavy duty vitrified tiles shall be acid and alkali resistant, weather proof anti skid, abrasion resistant.  
 Area Covered: 24 x 21.6 ft

**Supply and Installation of aluminum section (16 G) brown powder coated**

Window with Tinted glass having size 21.5ft x 6ft (4")  
 Storage Cabinet with frozen glass having size 11ft x7ft (2")

# CHEMISTRYGREEN LAB FACILITY

With Provision of Laboratory Workstations, Fume Hood, UV Cabinet, Temp/humidity Display Monitor  
Static Pass Box, Alkali/Abrasion resistant floor, Aluminum section

