

GOVERNMENT OF INDIA
BHABHA ATOMIC RESEARCH CENTRE
TECHNICAL PHYSICS DIVISION
PURNIMA Laboratories

Ref: TPD/NSRPS/MF/2020/37

Date: 18/11/2021

Due Date: 28/11/2021

Sub : Minor Fabrication - invitation of quotations.

1. Quotations are invited for the minor fabrication job, as per the enclosed specifications.
2. Bidder shall quote for fabrication of these components with material.
3. Taxes and excise duties shall be quoted separately.
4. The quotations must reach to the Head, TPD within 11 days of the date of this letter and must be sent by Indian Speed post / Indian Post only in a sealed envelope superscripted with the above reference number and due date given above
5. The address on the envelope should read:

Head,
Technical Physics Division
Bhabha Atomic Research Centre
PURNIMA Labs., Trombay, Mumbai 400085.

6. The bidder shall have to take an insurance policy against any material issued to him by the purchaser
7. The fabrication work shall be subject to inspection by our representative. The finished components shall not be dispatched prior to approval by our representative at the bidder's works. Necessary inspection facilities should be provided to our engineers during fabrication at bidder's premises.
8. The bidder shall deliver the finished components and install it after approval by our representative, within 90 days from the date the firm purchase order issued to the bidder. The finished components and the scrap from the free issue material shall be delivered by the bidder at PURNIMA Laboratory, Technical Physics Division, Bhabha Atomic Research Centre, Trombay, Mumbai 400085.
9. Head, TPD, BARC, reserves the right to accept/reject any or all quotations without assigning any reason.
10. The bidder should furnish the GST, PAN and TIN numbers in their quotations without which the quotations will be rejected.
11. Quote for each part separately.
12. Detailed drawing will be made available after issue of order.
13. Clarifications for executing the order can be sought after issue of order.

Head,
TPD

Fabrication & supply of working platform, aluminium doors, hepa filter assembly and refurbishment of lab area

Specifications –

1. Fabrication of Working platform

Quantity – 1no

- Size: 3 meter (L) X 0.9 meter (H) X 0.85 meter (W)
- Material: Laminated Wood (18mm THK minimum) of suitable colour as decided by indentor
- Levelling screw arrangement to be provided for height adjustment
- Top platform should be made of minimum 25mm THK laminated wood
- Two sets of three drawers each should be provided at either ends below the top platform of size 18 inch X 12 inch

2. Fabrication and supply of Hepa Filter assembly with accessories – (Location – NPEB building)

- Quantity: 3 sets
- Hepa filter frame assembly made with 3mm THK MS plate and ISA 25mm x 25mm x 3mm THK flange to accommodate hepa filter of size 600mm x 600mm x 200mm THK.
- Frame to have provision for 18 inch exhaust fan at exit side (exhaust fan of ~CFM to be provided)
- Frame to be mounted at a height of ~1.5Mt from the ground level using MS square pipe of 25mm x 25mm x 3mm THK.
- Fabrication of filter frame made with 3mm MS plate and ISA 25 mm x 25 mm x 3mm thick flange for proper alignment 6 nos. of HEPA filter to be supplied
- Accessories – 6nos of hepa filter of size 600mm x600mm x 200mm THK to be supplied with the filter assembly

3. Refurbishment of Lab area (Location: Purnima & NPEB building, BARC)

This includes three labs

a. PVC flooring

- Total area: 485 sq. ft.
- PVC sheet of 2mm thickness with suitable colour as decided by indentor
- Removal of old PVC flooring
- Filling and smoothening of floor surface

b. Cleaning of room, painting of walls (one coat primer + 2 coat distemper paint)

Total wall area: 2420 sq. ft.

c. Removal of old door frame

The old non-working / broken doors (2 nos) are to be removed along with frame.

d. Fabrication & Supply of Aluminum frame doors with glass

Doors of following sizes to be provided at suitable locations in the lab (as suggested by the indenter).

- **Size: 955 mm (W) X 2225 mm (H) - Qty: 2 nos**
- **Size: 1000 mm (W) X 2000 mm (H) - Qty: 1 no**

The top half of the door to be made of 5mm thick transparent glass and bottom half of the door to be made of **A2 class fire resistant ACP sheets** (with minimum 5mm thickness). Automatic door closing mechanism should be provided for each door.

e. Fabrication & Supply of Aluminum frame with sliding doors – Quantity – 1set

Frame (**Size: 3600 mm (L) X 2160 mm (H)**) to be provided at suitable location in the lab (as suggested by the indenter). The top half of the door to be made of 5mm thick transparent glass and bottom half of the door to be made of **A2 class fire resistant ACP sheets** (with minimum 5mm thickness). The door should be provided with sliding track and guiding track. Proper locking arrangement to be provided.

4. Fabrication and Supply of epoxy bonded cement blocks

Size: 5 inch X 10 inch X 2 inch (thickness)

Quantity: 288 nos.

5. Fabrication and supply of 1m (dia) X 1m (ht) experimental chamber made of high strength polymer material.

- The chamber should be leak-proof and crack free
- The chamber should have provision for openable lid and lock-and-key arrangement
- Analytical test certificate for the chamber material should be provided
- **Qty: 1 no.**

6. Unskilled labor for lead wall erection at Apsara U

- 4 unskilled labors required for a period of 60 working days
- Work includes erecting a wall of dimensions: **2700mm X 2000mm X 150mm, 1125mm X 2000mm X 150mm and 2411mm X 2000mm X 150mm** using inter lockable lead bricks of thickness 2inch

NOTE: Vendor should quote for all the items mentioned in the tender simultaneously. Incomplete / part offers shall not be accepted.

A. BIDDER QUALIFICATION:

The bidder should have prior experience in working in radiation area. All the items (including raw materials) as per specifications should be new and from reputed manufacturers. Used materials/ recycled items/ repaired items **will not be acceptable and will be rejected.** For all the work, Vendor will be responsible to arrange/provide required security requirements for their labors/staff/supervisors & vehicles. All the laborers & supervisors needed for installation in BARC premises should have valid Police Verification certificate as per BARC security guidelines.

B. WARRANTY:

Warranty against manufacturing defect for a minimum period of one year after installation and final acceptance shall be provided. The warranty period shall automatically be extended for down time period.

C. ACCEPTANCE CRITERIA

- Vendor should be able to show sample pieces of the material.
- Images & certificates regarding the quality of products have to be attached by the Vendor along with tender wherever applicable.
- Vendor will have to supply & install all tendered items as per the lay out designed for the laboratory by the user which will be supplied along with purchase order.
- Vendor will be responsible for removal of old equipment & its disposal at appropriate places as per BARC regulations. No separate charges will be paid to the Vendor for the same.