

**BHABHA ATOMIC RESEARCH CENTRE
TECHNICAL PHYSICS DIVISION
PURNIMA Laboratories**

Ref: TPD/NSRPS/MF/2020/21

Date: 23/11/2020

Due Date: 02/12/2020

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 10 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

Description and specification of different items of **Work order ref: TPD/NSRPS/MF/2020/21**
Fabrication and supply of Borated Polyethylene Blocks

Specifications – Borated polyethylene shielding blocks **having boron concentration ~5% by weight, Density ~0.96 ± 0.03 gm/cc, Colour – Black, Cracks and voids free of following dimensions & quantity:**

1. Borated polyethylene shielding blocks - Quantity – 26nos
 - a. Dimension: 500mm (length) x 1000mm (height) x 50mm (thick)
 - b. Thickness tolerance ~ - 0.0 / + 3mm
2. Borated polyethylene shielding block (with male female fitting arrangement on sides) - Quantity – 1no
 - a. Dimension: 1100mm (length) x 2000mm (height) x 50mm (thick)
 - b. Thickness tolerance ~ - 0.0 / + 3mm
3. Borated polyethylene shielding block (Interlock able) - Quantity – 2nos
 - a. Dimension: 600mm (length) x 50mm (height) x 50mm (thick)
 - b. Thickness tolerance ~ - 0.0 / + 3mm
4. Borated polyethylene shielding block (Interlock able) - Quantity – 2nos
 - a. Dimension: 550mm (length) x 25mm (height) x 50mm (thick)
 - b. Thickness tolerance ~ - 0.0 / + 3mm
5. Borated polyethylene shielding block (Interlock able) - Quantity – 7nos
 - a. Dimension: 1000mm (length) x 50mm (height) x 50mm (thick)
 - b. Thickness tolerance ~ - 0.0 / + 3mm
6. Borated polyethylene shielding block (Interlock able) - Quantity – 7nos
 - a. Dimension: 1000mm (length) x 25mm (height) x 50mm (thick)
 - b. Thickness tolerance ~ - 0.0 / + 3mm
7. Borated polyethylene shielding block (Interlock able) - Quantity – 4nos
 - a. Dimension: 500mm (length) x 25mm (height) x 50mm (thick)
 - b. Thickness tolerance ~ - 0.0 / + 3mm
8. Borated polyethylene shielding block (Interlock able) - Quantity – 4nos
 - a. Dimension: 500mm (length) x 50mm (height) x 50mm (thick)
 - b. Thickness tolerance ~ - 0.0 / + 3mm
9. Borated polyethylene shielding block (Interlock able) - Quantity – 2nos
 - a. Dimension: 200mm (length) x 50mm (height) x 50mm (thick)
 - b. Thickness tolerance ~ - 0.0 / + 3mm
10. Borated polyethylene shielding block (Interlock able) - Quantity – 2nos
 - a. Dimension: 100mm (length) x 25mm (height) x 50mm (thick)
 - b. Thickness tolerance ~ - 0.0 / + 3mm
11. Borated polyethylene shielding block (Interlock able) - Quantity – 2nos
 - a. Dimension: 25mm (length) x 50mm (height) x 50mm (thick)
 - b. Thickness tolerance ~ - 0.0 / + 3mm
12. Borated polyethylene shielding block (Interlock able) - Quantity – 2nos
 - a. Dimension: 75mm (length) x 25mm (height) x 50mm (thick)
 - b. Thickness tolerance ~ - 0.0 / + 3mm
13. Borated polyethylene shielding block (Interlock able) - Quantity – 6nos
 - a. Dimension: 250mm (length) x 250mm (height) x 50mm (thick)
 - b. Thickness tolerance ~ - 0.0 / + 3mm

Note: Please note that the quotation shall include a compliance table with point-wise compliance/deviation of each specification of the quoted item with respect to the indented specifications.

A. BIDDER QUALIFICATION:

The bidder shall be the original manufacturer or authorized dealer/ representative of original manufacturer with respect to the main item. The authorized representative shall provide a certificate of authorization from the manufacturer. It is mandatory to declare the name of the manufacturer and manufacturer's complete contact details like address, contact person, email address, fax and phone numbers. The purchaser reserves the right to communicate with the original manufacturer regarding the offered products to ascertain their quality and genuineness. A list of similar shielding items supplied to other laboratories should be provided to ascertain bidder's adequate expertise.

All the items shall be brand new from reputed manufacturers procured from their authorized agents/principals.

Used materials/ recycled items/ repaired items **will not be acceptable and will be rejected.**

B. WARRANTY: Warranty against equipment failure 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. Testing and acceptance criteria

- The blocks will be checked out for dimensional accuracy.
- Supplier has to provide boron concentration measurement test report from certified NABL laboratory without which the items will be rejected.
- A test report certificate from the supplier to be provided for density of the material as per specifications.

