

Government of India
Bhabha Atomic Research Centre
Laser & Plasma Technology Division
Trombay, Mumbai - 400 085.

Ref: LPTD/ SK/ Works /2017/ 151550

Date: 31/08/2017

Sub: Minor Fabrication- Invitation of quotations
Due date: 18/09/2017

Dear Sirs,

Quotations are invited for the '**Fabrication of liquid flow through glass cell as per Annexure 1**'. The bidder shall quote for fabrication of these components with material.

1. Taxes and excise duties shall be quoted separately. Form H/AF shall be provided wherever necessary.
2. Quotations are to be in printed letter head / quotation format which should consist of sales tax, registration number registered with the local ST authority/ CST authority, PAN number etc. Quotations that are received in computer- generated form will be construed as invalid and rejected.
3. The quotations must reach, **Head, Laser & Plasma Technology Division by 18/09/2017** and must be sent in a sealed envelope super scribed with the above reference number and due date given above by **speed post or registered post only**.
4. The address on the envelope should read:
The Head,
Laser & Plasma Technology Division,
Bhabha Atomic Research Centre,
Trombay, Mumbai-400085.
Attn: Shri S. Kundu.
5. The bidder shall have to take an insurance policy against any material issued to him by the purchaser.
6. The fabrication work shall be subject to inspection by our engineer. The finished components shall not be dispatched prior to approval by our engineer at bidder's works. Necessary inspection facilities shall be provided to our engineers during fabrication at bidder's premises.
7. The bidder shall deliver the finished components after the approval by our engineer, within **75 days** from the date of our firm purchase order is issued to the bidder. The finished components and the scrap from the free issue material shall be delivered by the bidder at: **Room No. M2, A-Block, Mod Lab, L&PTD, BARC, Trombay, Mumbai - 400 085.**
8. Head, Laser & Plasma Technology Division, BARC reserves the right to accept/reject any or all quotations without assigning any reason.

Yours sincerely,



(Dr. A.K. Ray)
Head, TLS

Quotation shall be opened on dated 19/09/2017 at 2.00pm

Encl.: Description & Technical specification (Annexure 1).

- Copy to: 1. Head SIRD to upload at BARC website.
2. VSB notice board.
3. BARC, L&PTD notice board.

डॉ. अ. के. राय
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ट्राम्बे, मुंबई - 400 085.

Annexure – 1

Technical Specification of various components and Requirements

Item No.	Item Name & Requirement.	Item Technical Specification
Item No. 1	Liquid flow through glass cell. Requirement: 1 no.	1) Material: Optical grade synthetic fused silica 2) Outer size: 33.35mm X 20mm X 16.5mm. 3) Straight channel dimension: 6mm X 10mm X 1mm, symmetrically located along 20mm and 16.5mm directions. 4) Inlet and outlet size: 10mm X 6.5mm 5) Inlet shape: R5mm over a length of 4.5mm parallel to 10 mm side for both windows. 6) Outlet shape: Truncated prism with 3.5 degree vertex angle followed by R8mm over a length of 1mm parallel to 10 mm side for both windows. 7) Pressure capacity: Windows are fixed to each other with the help of optically transparent epoxy (Norland 61) to withstand inside liquid pressure of 7 Kg/cm ² . 8) Straight section location: 22mm from exit end. 9) Window finish: Windows are optically polished with flatness better than lamda/4 at 633 nm. 10) Dimension tolerance: 0.1mm for dimension \geq 10 mm and 0.02mm for all other dimension.

Scope of Work:

- 1) Design, Fabrication and Delivery of components as per specs mentioned in Table-1. Quantity required for each item is also mentioned in Table -1.
- 2) Conceptual drawings with dimensions of each item should be enclosed with the quotation.

Santnu Kundu

S. Kundu
SO/H, L&PTD
Ph: 25590201