

Government of India  
Bhabha Atomic Research Centre  
Laser & Plasma Technology Division

Trombay,  
Mumbai - 400 085.  
Date: 14/5/2018

REF: LPTD/2018/95226


Sub: Minor Fabrication - invitation of quotations

Dear Sirs,

Quotations are invited for the Fabrication of Intra Cavity Solid Etalon. The scope of the work is described in Annexure - 1

1. Bidder shall quote for fabrication of these components with material.
2. Taxes and excise duties shall be quoted separately. Form H shall be provided where necessary.
3. The quotations must reach, **Head, Laser & Plasma Technology Division** by **22/05/2018** and must be sent in a sealed envelope *superscribed* with the above reference number and due date given above.
4. The address on the envelope should read:  
**The Head  
Laser & Plasma Technology Division,  
Bhabha Atomic Research Centre,  
Trombay, Mumbai - 400 085.  
(Attn: CH. Someswara Rao)**
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 should be provided to our engineers during fabrication at bidder's premises.
7. The bidder shall deliver the finished components after approval by our engineer, within **75 Working Days** from the date the 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 **M6, LPTD, A-Block, Mod Labs, 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.
9. GST number must be given on quotations.

Yours faithfully,

 10/5/2018

**Head, Laser & Plasma Technology Division**

Copy to: 1) Notice Boards BARC Site      2) Notice Board, V.S. Bhavan  
3) BARC website (for uploading), Head SIRD      4) Accounts Officer (Works)

## Annexure-1

### Intra Cavity Solid Etalon:

1. Material : Synthetic Fused silica
2. Aperture: 20mm diameter
3. Coated aperture: 25mm diameter
4. Etalon Plate diameter: 30 mm
5. Thickness: 1.300mm(+/- 0.001mm)
6. FSR: ~ 79 GHz @ 500-600 nm
7. Flatness: Reflective surfaces (both sides) flatness ~  $\lambda/100$  @632.8nm
8. Parallelism: ~  $\lambda/100$  @632.8nm
9. Effective Finesse: 21 @ 500-600nm over clear aperture
10. Transmission : ~90% @500-600 nm
11. Reflectivity: >86% average @500-600nm /zero deg on both sides
12. Damage Threshold: 1 J/cm<sup>2</sup> , 6 ns pulse width
13. Mounting: Mounted in a 35 mm diameter × 9.8mm long Un-anodized aluminum cell with protective dust caps.
14. Quantity: 1 No.

*A. Anand*

