Government of India
Bhabha Atomic Research Centre
Beam Technology Development Group
Advance Tunable Laser Application Facility

Mumbai - 400 085.

Ref: BTDG/ATLAF/WORKS/VSR/MF/2021/ 11937 September 14, 2021

To,

To whom it may concern

Sub: *Fabrication and supply of Tuning Assembly for Tunable Lasers with mirror mounts and Accessories*

Invitation of Quotations

DUE DATE: September 28th, 2021

Dear Sirs,

Quotations are invited for the fabrication job as per the enclosed job details.

1. The quotations must reach. ***Director, Beam Technology Development Group*** by ***September 28th, 2021*** and must be sent in a sealed envelope ***superscribed*** with the above reference number, subject and due date given above.
2. The address on the envelope should read

   (Attn. Dr Vinod Singh Rawat)
   To,
   Director ,
   Beam Technology Development Group
   BARC,Trombay,Mumbai - 400 085.
3. The bidder may contact on Telephone Nos. +91-22-25595694/6600 or by email at vrawat@barc.gov.in for any clarifications in the enquiry.
4. Sealed Quotations should be submitted only through **Registered post/speed post** through Indian Postal Service. Offers sent by telegram, telex, courier, fax or e-mail will not be considered

Director, Beam Technology Development Group BARC reserves the right to accept or reject any or all quotations without assigning any reason.

Yours faithfully,

14-9-2021

Director
Beam Technology Development Group

डॉ. (श्रीमती) अरुणा शर्मा / ARUNAA SHARMA
निदेशक / Director
किरणपुंज प्रौद्योगिकी विकास वर्ग
Beam Technology Development Group
भारत सरकार / Government of India,
भा.प.अ. केंद्र / B. A. R.C.
ट्रॉम्बे, मुंबई / Trombay, Mumbai - 400 085.

Encl: One (Job details)
C.C.: AAO, (WORKS) CC, BARC

Job specification

Fabrication of Solid Fabry Perot Etalons

S. No.	Name of Items	Quantity
1.	Solid Fbary Perot Etalons	3 Nos.

The quotation should contain all the parameters listed in the specifications. Point wise comparison of compliances/deviations from the required specifications should be brought out clearly in the quotation. An incomplete offer shall not be considered.

1.1 Material : Synthetic Fused silica

1.2 Aperture: 25mm diameter

1.3 Coated aperture: 28mm diameter

1.4 Etalon Plate: 30 mm diameter

1.5 Thickness: 5.00mm (+/- 0.01mm)

1.6 Free Spectral Range: 20.56 GHz at 530 – 650 nm.

1.7 Surface Flatness: Reflective surfaces (both sides) flatness ~ $\lambda/75$ @632.8nm

1.8 Parallelism: ~ Parallel to $\lambda/75$ @632.8nm

1.9 Effective Finesse: > 19 @ 530-650 nm over 15 mm

1.10 Transmission : ~90% @530-650 nm

1.11 Reflectivity: >86% average @530-650nm /zero deg on both sides

1.12 Damage Threshold: 5 J/cm^2 , 20 ns pulse width

1.13 Mounting: Mounted in a 38 mm diameter × 12mm long Un-anodized aluminum cell with protective dust caps.

1.14 Pinch clamp mounting ring to fit with 2" Kinematic Mirror Mount

General specifications

2.1 **Operating Conditions**

2.1.1 Operating Temperature : 20 – 40 ^{0}C

2.1.2 Relative Humidity : 70 % RH

3. **Packing and Forwarding**

These items are to be packed for damage free transport.

4. **Inspection and Acceptance Criteria**

4.1 The manufacturer should provide the test report for each solid etalon.

4.2 The Manufacturer should provide transmission characteristics for the coating provided on the etalon faces.

4.3 Manufacturer should provide standard test certificates for the etalons with batch number.

5. The bidder should submit the drawing of the job along their respective quotation.
6. The delivery shall be in good quality packing materials to avoid any type of damage during transit.
7. The manufacturer should provide one-year warranty for any manufacturing defect in the etalons.