

Government of India
Bhabha Atomic Research Centre
Beam Technology Development Group

Trombay
Mumbai - 400 085.
September 16, 2021

Ref: BTDG/ATLAF/WORKS/PR/MF/2021/295

To,

To whom it may concern

Sub: Fabrication and supply of Laser support structure - 3 Nos.

Invitation of Quotations

DUE DATE: October 1, 2021

Dear Sirs,

1. Quotations are invited for the fabrication job as per the enclosed job details.
2. The quotations must reach. **Director, Beam Technology Development Group** by **October 1, 2021** and must be sent in a sealed envelope **superscribed** with the above reference number, subject and due date given above.
3. The address on the envelope should read
(Attn. Dr . Paramjit Rana)
To,
Director,
Beam Technology Development Group
BARC, Trombay, Mumbai - 400 085.
4. The bidder may contact on Telephone Nos. +91-22-25594358 or by email at paramjit@barc.gov.in for any clarifications in the enquiry.
5. 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
6. Director, Beam Technology Development Group BARC reserves the right to accept or reject any or all quotations without assigning any reason.

Yours faithfully,


15-9-2021
Director

Beam Technology Development Group

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

डॉ. (श्रीमती) अर्चना शर्मा / ARCHANA SHARMA
निदेशक / Director
किरणपुंज प्रायोगिकी 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.

Annexure: S

Item: "Fabrication and supply of laser support structure"

(Quantity: 3 Sets)

Scope of Work & Technical Specifications: -

The job is to fabricate a rigid table top support structure with honeycomb table top for placing laser systems and associated opto-mechanical components. It should have a black anodized enclosure over it for laser safety and dust protection: -

- Dimension of the table top is 1250 mm width X 1100 mm depth X 150 mm thick honeycomb top. It should be placed/fixed on a rigid support system.
- The total height of the table top should be 1050 mm from the ground. It should have 900 mm clear space underneath the table top to place power supply units.
- Rigid table top support system should have four vertical members made from rectangular steel tubes (90 mm X 90 mm) and eight horizontal members made from 50 mm x 50 mm steel tubes. These members should be joinable by nuts & bolts at the site. Dismantling and re-assembly of the support structure should be possible to be done at site.
- Honeycomb table top must rest on four heavy-duty bolts on the top of the support system, which can also be adjusted for levelling. The adjustment range should be +/- 5 mm.
- The support system should be given moon light finish by epoxy paint.
- All the nuts, bolts and accessories required for its installation at site shall be supplied along with the support structure.
- This support structure should be compatible vibration isolation requirement of the honeycomb table top. Isolation pads if required should be supplied with the support structure.
- Black anodized metallic enclosure fixed on the top of the table top should be supplied. It's dimension should be compatible with 1250 mm X 1100 mm table top and height should be 500 mm. This enclosure must be having hinged door opening from front i.e. 1250 mm side (two doors of 625 mm width each), slide openings from 1100 mm sides (3 slides of 350 each) and hinged door openings on the top. There should be two hinged

(hinges at the center) doors at the top (1100 mm X 625 mm) so that table top can be accessed by opening two doors from top.

➤ Brief specifications of the enclosure are provided below:

Frame material	: Aluminium
Panels	: 2 mm thick aluminum
Visibility	: 0 %
Side panel fixing method	: Tightened by rubber beading inside frame slots
Number of cable/water ports	: 12 Nos.(2 inch each)
Front door	: Hinged or sliding
Finish	: Black powder coated

➤ Brief Specifications of the Honeycomb table top are as follows:

Size	: 1250 mm x 1100 mm x 150 mm
Height of breadboard	: 150 mm
Top Plate	: 2 – 3 mm thick
Top plate	: Stainless Steel
Bottom Plate	: 2 – 3 mm thick
Honey comb Core	: Aluminium
Honeycomb core size	: 6 cm ²
Flatness of top plate	: ± 100 µm
Tapped Hole	: M6
Tapped hole grid	: 25 mm grid
Bonding	: Semi solid Epoxy
Side wall Finish	: Black non reflecting

The breadboard should dissipate induced energy in the amplitude and duration.

The deflection in between the two components fixed on the breadboard should be minimum.

Drawing, Inspection and Acceptance Criteria:-

1. Drawing should be submitted to the user and approval should be taken before start of the fabrication work.
2. The items will be delivered to ATLAF/BTDG, BARC. The complete order shall be supplied within 60 days of the issue of the work order.
3. The delivery shall be in good quality packing materials to avoid any type of damage during transit. Packing, Forwarding, Freight & Transport charges shall be restricted to 3% or else original payment proof of the entire charges shall be furnished.
4. The material shall cover the guarantee/warranty of minimum one year against any form of defect and quality degradation after installation on site.

Inspection and Acceptance Criteria: -

1. Self certified inspection report must be submitted by supplier before dispatch of the items.
2. The workmanship should be of good quality.

General specifications, terms and conditions

- a. Dimensional Tolerances:** As specified in the drawings or Diameter: $\pm 2\%$ (but not less than $\pm 0.1\text{mm}$), Height: $\pm 1\%$, Linearity: Maximum deviation 0.5% of total length if not specified in the drawing.
- b. Quotation details:** The quotation should be in the printed letter head /quotation format which should consist of the PAN No., GST No. of the firm. Quotation shall be signed by proprietor or authorized person and affix company seal. Computer generated/scanned and printed quotation will not be accepted. Failing to mention the details in their quotation will become liable to be rejected. All taxes, other charges should be mentioned clearly.
- c. Note to Contractor:** All the persons involved in the erection and commissioning job, if any, shall possess valid Police Verification Certificate (PVC) to enter into BARC premises. In addition to that, vendor has to submit a certificate (Annexure I) that the contractors or their employees have not been involved in any corrupt or criminal activity and no police has been registered against any of them. The contractor shall observe all safe working practices and shall provide safety gears to his worker wherever necessary. For any work inside BARC, the contractor has to strictly abide by rules and regulations set by Security Section of BARC.
- d. GSTIN of BARC related details:** Suppliers, please note that BARC is the final consumer of the goods/services procured and does not intend to make any outward supply. BARC will not avail the benefits of Input Tax Credit and hence, the goods can be supplied without quoting the GSTIN of

BARC, Mumbai on the invoice. The invoices taxed under GST, as per rates applicable under the GST Schedule of Rates, shall be admitted for payment. An undertaking shall be submitted by the supplier that the GST has been promptly deposited with the authorities (Annexure II). GST shall be paid only in the case of supplier clearly indicating their GSTN on the invoice.

- e. **Compliance for Section 206AB & 206CCA of Income Tax Act, 1961:** Vendor has to submit a declaration in the attached proforma (Annexure III) along with necessary acknowledgements in support of the declaration along with the quotation (Two previous financial years IT return information). In case the aforesaid declaration is not submitted, Accounts section shall be deducting the TDS at the higher rates as instructed under the provisions of the Income Tax Act.
- f. **GST exemption Certificate:** Since the goods are to be supplied against the work order meant for research purpose of a research organization under DAE, the necessary GST will be exempted to the party. Interstate transaction for R&D will attract IGST only @ 5% as per notification No. 47/17-Integrated Tax (Rate) dated 14.11.2017. Transaction within the state will attract Central Goods and Service Tax (CGST) @ 2.5% as per notification no. 45/2017-Central Tax (Rate) dated 14.11.2017 and State Goods Service Tax (SGST) @2.5% as per notification no. 45/2017-State Tax (Rate) dated. 14.11.2017 of the State of Maharashtra. No claim for reimbursement of GST above the stipulated rate as per notification would be entertained later.
- g. **Material test certificates:** The material testing certificates for all raw materials shall be provided along with the items. A laboratory test certificate of the measured properties of raw material used to make the items, finished component testing shall also be furnished before the items are dispatched to BARC, Mumbai, India.
- h. **Quality surveillance, inspection and inspection report**
 - i. All work covered by the specification shall be subject to quality surveillance by the purchaser or his authorized representative for which purpose the fabricator shall allow access at all reasonable time to: the premises in which the work is being carried out the drawing and/or tooling involved, and Gauges, instruments, etc. required for inspecting the work. Inspection and tests shall be carried out by the fabricator as per the requirements detailed in the drawings and the specifications.
 - ii. The purchaser reserves the right to inspect any material or equipment furnished or used by Supplier under the contract and to reject any, which is found defective in workmanship, design, or otherwise unsuitable for the purpose intended.
 - iii. Components found unsatisfactory as to workmanship or material shall be removed by fabricator and replaced by components, which are satisfactory. In the events of Purchaser's inspection revealing poor quality of goods, Purchaser shall be at liberty to specify additional procedures if required to ascertain supplier's compliance with the component specifications.
 - iv. Even though Purchaser or his representative carries out inspection, such inspection shall not however relieve Supplier from his responsibilities for furnishing the components conforming to the requirement of the contract. The Supplier shall maintain proper inspection records and make it

available to Purchaser's representative whenever required. The fabricator shall submit three copies of inspection report to the purchaser for approval.

- i. **Free issue material:** There is no free issue of material. All material required for the job is to be supplied by the bidder.
- j. **Workmanship:** The surface should be free from impurities, splits, fractures and indentations, having an impact on a common processing or application of the product. Components with manufacturing defects viz. Cracks, burns, flakes, voids, inclusions, oxide scales, scratches, dirt and ingot patterns will not be accepted.
- k. **Dispatch:** The finished components shall not be dispatched prior to approval by our engineer at bidder's works.
- l. **Packing and shipment:** All components shall be packed properly to avoid damage during shipment.
- m. **Delivery schedule:** Supplier shall deliver the completed components/equipment in 45 days from the date of release of order.
- n. **Warranty:** Guarantee of the items shall be furnished for one year from the date of delivery.
- o. **Confidentiality clause:** No party shall disclose any information to any third party concerning the matters under this contract generally. In particular, any information identified as "Proprietary" in nature by the disclosing party shall be kept strictly confidential by the receiving party and shall not be disclosed to any third party without the prior written consent of the original disclosing party.
Any contravention of the above-mentioned provisions by any contractor, sub-contractor, consultant, adviser or the employees of a contractor will invite penal consequences under the aforesaid legislation.
The contractor or sub-contractor, consultant, adviser or the employees engaged by the contractor shall not use BARCs name for any publicity purpose through any public media like Press, Radio, TV or Internet without the prior written approval of BARC
- p. **Payment terms:** No advance payment will be made. Full payment will be made by NEFT/ECS on satisfactory completion of the works. Party should submit the bill along with advance stamped receipt. Income Tax @2% and GST TDS @2% will be deducted at source from the bill.
- q. **Pre-dispatch inspection:** If the bidder is not of Indian origin inspection prior to dispatch from works is not necessary as this is a standard manufacturer. The finished products shall be subject to the inspection and testing after received by the user for transit damages. The manufacturers shall provide all the factory test certificates of all the stages of manufacture in duplicate.