

Ref : BARC/ED/RIS/427/ 2021

Mod Labs., Trombay.  
Dated: 13-12-2021.

Sub: Minor Fabrication - Invitation of Quotation.

**Fabrication and supply of explosion clad (SS+Al +Al ) plates as per enclosed annexure**

Dear Sirs,

1. Quotations are invited for the fabrication and supply of explosion clad (SS+Al +Al ) plates as below. The fabrication of the alumina ceramic bushes, discs and tubes is as per specifications in Annexure.
2. The quotations should be on **printed letter head** and should indicate **sales tax registration number (registered with local ST or CST), PAN of the firm & Service Registration Number**.
3. Bidder shall quote for fabrication of these components with material only.
4. Income Tax @ 2% and surcharge on IT as applicable will be deducted from your bill.
5. Taxes and excise duties shall be quoted separately. Form AF shall be provided where necessary.
6. The item must be provided with on-site guarantee of 1 year. Certificate to this effect may kindly be provided along with delivery of items.
7. The quotations must reach, Head Electronics Division by **03<sup>rd</sup> January, 2022** and must be sent in a sealed envelope, through India Post only, super scribed with the above reference number and due date given above.
8. The address on the envelope should read:  
The Head, RIS, Electronics Division,  
Bhabha Atomic Research Centre,  
Modular Labs., Trombay, Mumbai-400 085.  
Attn.: **Dr. V. Balagi**
9. The bidder shall have to take an insurance policy against any material issued to him by the purchaser.
10. The fabrication work shall be subject to inspection by our officer. The finished components shall not be dispatched prior to approval by our engineer, at bidder's works after inspection to ensure fidelity to acceptance criterion included in the specifications. Necessary inspection facilities should be provided to our engineers during fabrication at bidder's premises.
11. The bidder shall deliver the finished components, within **8 weeks** (including approval by our engineer) from the date the firm purchase order issued to the bidder. Any delay attributable to the contractor is liable for penalty @ ½ % per week (max. 5%) to be imposed on the contractor.
12. The finished components and the scrap from the free issue material shall be delivered by the bidder at **B.A.R.C.**
13. Head Electronics Division, BARC reserves the right to accept/reject any or all quotations without assigning any reason.
14. Note for Suppliers:
  - i. **Supplier should be Original Equipment Manufacturer (OEM) and have adequate experience in inspection and quality control and provide documentary proof of having successfully supplied items with the sizes and tolerances indicated in the enquiry.**
  - ii. **Supplier should have in-house facilities for all processes involved, instruments for inspection and quality control at in house workshop along with skilled manpower.**
  - iii. **Bidder shall clarify the above 2 points in the quote.**
15. Enclosures

- Annexure-: Specifications of explosion clad (SS+Al +Al ) Plates

## **Confidentiality Clause**

- 1.1 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.  
This clause shall apply to the sub-contractors, consultants, advisers or the employees engaged by a party with equal force.
- 1.2 **"Restricted information" categories under Section 18 of the Atomic Energy Act, 1962 and "Official Secrets" under Section 5 of the Official Secrets Acts, 1923:-**  
Any contravention of the above-mentioned provision by any contractor, sub-contractor, consultant, adviser or the employees of a contractor will invite penal consequences under the aforesaid legislation.
- 1.3 **Prohibition against use of BARC's name without permission for publicity purposes:-**  
The contractor or sub-contractor, consultant, adviser or the employees engaged by the contractor shall not use BARC's name for any publicity purpose through any public media like Press, Radio, TV or Internet without the prior written approval of BARC.

  
(P. V. Bhatnagar)

Head, RIS, ED

**Annexure**  
**Specifications of explosion clad (SS+Al +Al ) Plates**

1. Material Specifications:
  - a. Cladding metal : Aluminum 99% purity minimum as per IS 736 alloy No.19000
  - b. Interlayer metal : Aluminum 99% purity minimum as per IS 736 alloy No.19000
  - c. Base metal : STAINLESS STEEL TO SA 240 TP 304 L Solution Annealed
2. Type of cladding: Aluminum shall be continuously and integrally bonded to steel by Explosion cladding process to achieve metallurgical bond
3. Dimensions of clad Plates.  
500 mm W x 500 mm L x 27mm T (12mm Al + 3mm Al + 12mm SS) Quantity 02 Nos.
4. Tolerance on final dimensions, finish
  - a] On composite thickness (27mm):  $\pm 2$  mm ; On length:  $-/+ 50$ mm ; On width:  $-/+ 25$  mm
5. TESTS:
  - a] UT General conformity to SA – 578 with 100% scanning b] Bond shear test : 55 M Pa Minimum

**Acceptance Criterion:**

**The explosion clad (SS+Al +Al ) plates shall pass the tests mentioned in art. 5 above.**



