

Government of India  
Bhabha Atomic Research Centre  
Metallic Fuels Division

Ref: MFD/SR/2022/02/P-25547

Date: - 21/01/2022

To,

M/s

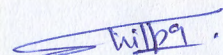
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Dear Sir,

We request you to submit your quotation for **“Fabrication, supply and guarantee of solution annealed and precipitation hardened Aluminium-Magnesium-Silicon alloy complying to ASTM B 209 standard specifications in flat and cylindrical geometry as per the details mentioned in Annexure-I.”**

Yours Faithfully,

  
(Shilpa Raj)  
Scientific Officer (C)

Encl.: 1. Annexure-I (4 pages)  
2. Bid Security Declaration form.

## ANNEXURE-I

### **SCOPE:**

**“Fabrication, supply and guarantee of solution annealed and precipitation hardened Aluminium-Magnesium-Silicon alloy complying to ASTM B 209 standard specifications in flat and cylindrical geometry as per the details mentioned in Annexure-I.”**

**Bidder Qualification:** In order to qualify the bidder to participate in this tender, it is mandatory that the bidder has some prior experience in fabrication of solution annealed and precipitation hardened Aluminium-Magnesium-Silicon alloy complying to ASTM B 209 standard specifications in flat and cylindrical geometry. Therefore, the bidder is required to submit necessary documentation/proof (Purchase Orders, Work Orders, and Contract etc.) where he has been awarded the contract by any government agencies only for similar kind of work. It is also desired that the bidder must also demonstrate by submitting documents demonstrating the timely completion of such contracts/work within stipulated time frame. In order to qualify it is also required that bidder must have completed minimum 5 number of tenders/work contracts in the last 2-year duration on jobs related to fabrication of solution annealed and precipitation hardened Aluminium-Magnesium-Silicon alloy complying to ASTM B 209 standard specifications in flat and cylindrical geometry

### **GENERAL:**

- Aluminium-Magnesium-Silicon alloy billet of 200mm diameter and 500mm length → 5000 kg
- Aluminium-Magnesium-Silicon alloy plates of 5 mm x 100 mm x 2000 mm → 1500 kg
- Aluminium-Magnesium-Silicon alloy plates of 6.5 mm x 100 mm x 2000 mm → 1500 kg
- Sizing of plates in the desired shape must be carried out by extrusion or rolling.
- Surface finish of the order of 50 μ is required on the job.
- The Chemical composition of the Aluminium-Magnesium-Silicon alloy must be as per the specification below:-
  - Mg: 0.8-1.2%
  - Si: 0.4-0.8%
  - Fe 0.7%
  - Mn 0.15%
  - Cr 0.04-0.35%
  - Cu 0.15-0.14%
  - Zn: 0.25%
  - Ti 0.15%
  - Rest Aluminium
- The Boron content of the material supplied must be below 10 ppm
- The elemental analysis report shall be generated by NABL accredited laboratories and the same will be verified by the facilities at BARC. It is therefore mandatory for the supplier to send test samples for chemical analysis for qualification and commence the actual fabrication of the ordered quantity after obtaining the test clearance certificate from the Purchaser.
- The required yield strength values shall be atleast 240 MPa. The UTS value shall be atleast 290 MPa
- The items specified will be used for fabrication of fuel assemblies for reactor, hence stringent control on chemical specification & surface finish will be enforced.
- It is mandatory that each plate shall undergo radiographic examination in presence of official from BARC. Hence company shall arrange for suitable infrastructure for radiographic examination.
- It is mandatory that the plates shall be 100 % UT certified (as per ASME Article 23, SA578) in presence of officials for BARC.
- It may be noted that the payment for only the quantity mentioned in the work order shall only be paid.

- Test certificate from the OEM shall be provided to the user department.
  - Dealer authorization certificate shall be provided by the dealer if the material is being supplied by the local supplier.
  - No change in price of the alloy shall be allowed. The payment shall only be made at the fixed price as mentioned in the quotation supplied by the supplier.
  - You shall send your offer in a sealed envelope (**strictly by registered post/Speed post only**) indicating delivery period, price inclusive of taxes and other relevant information, to:
 

Shilpa Raj  
Metallic Fuels Division  
Bhabha Atomic Research Centre  
Trombay,  
Mumbai 400 0085
  - Quotation shall reach us by speed post/register post only on or before **04/02/2022** before **11.30 hrs.**
  - Please send "REGRET" if not quoting.
  - On top left corner of the sealed envelope please indicate **"Fabrication, supply and guarantee of solution annealed and precipitation hardened Aluminium-Magnesium-Silicon alloy complying to ASTM B 209 standard specifications in flat and cylindrical geometry as per the details mentioned in Annexure-I."**
- All applicable taxes should be clearly mentioned.
- Overwriting, scratching etc. must be avoided in the quotation. Rewriting the whole figure shall carry out any alteration in the figure. The authorized person from the firm shall countersign such figure.

**Bid- Security Declaration**

The supplier should submit the duly filled bid security declaration form (attached with the NIT). Quotations without the bid security declaration form shall be suspended from bidding till the last due date for this tender.

**DELIVERY PERIOD:**

- The Work completion period mentioned in the quotation shall be strictly adhered to. If the contractor fails to complete the work before "work completion period" mentioned in the contract or secure extension work completion date before effecting work completion schedule of the supply against the contract, acceptance of such item by the purchaser shall in no way prejudice the right of the purchaser to levy liquidated damage nor shall it be entitled to the contractor for payment of statutory levies that comes into force after the expiry of the work completion date.
- Any delay on part of the contractor is liable to for penalty @ ½ % per week (max 10%) to be imposed to the contractor. Validity period of offer should be more than 60 days.
- Early delivery schedule shall be given a consideration.
- Guarantee / Warranty of the material supplied for one year.
- For any Enquiry and clarifications you may contact the following persons Miss Shilpa Raj (025593929/02225593929).

**PLACE OF DELIVERY:**

- The inspected and accepted assemblies shall be delivered to:
 

Stores Officer  
Radiological Zonal Stores  
Bhabha Atomic research centre  
BOMBAY 400 085

### **INSPECTION AND TESTING:**

The purchaser will have access at all reasonable times to all shops of the contractor and the sub-contractors where material is being fabricated and assembled and all reasonable facilities for such inspection shall be provided. Prior to the supply of item the manufacture has to get it approved from the purchaser.

### **PAYMENT TERMS:**

Full payment will be made only after the satisfactory completion of Work order and delivery **“Fabrication, supply and guarantee of solution annealed and precipitation hardened Aluminium-Magnesium-Silicon alloy complying to ASTM B 209 standard specifications in flat and cylindrical geometry as per the details mentioned in Annexure-I.”**

• Two copies of Invoice, in the name of,  
Director,  
Nuclear Fuels Group,  
Bhabha Atomic Research Centre,  
Mumbai 400085.

- Advance Stamp Receipt
- A copy of cancelled cheque
- Company's GSTIN No. & PAN No. should be furnished along with the bill.
- Company's copy of Sales Tax /Service Tax Registration Certificate has also to be furnished along with the bill.
- Company's copy of GST registration/ Certificate to the effect of GST payment has also to be furnished along with the bill.
- ITR Undertaking with acknowledgement for last two years.
- Option form for payment through ECS/RTGS with pre-stamped receipt.
- Guarantee / Warranty of the material supplied should be for one year.
- Note: The Tax Invoice should specifically indicate the following:
  - GSTN
  - PAN
  - Location of Supply
  - Tax Component to be separately indicated in the invoice
  - Undertaking that the GST has been promptly deposited with the authorities

Please note that, income tax @ 2% and GST TDS@2%, will be deducted from your bill.

No part payment or advance payment will be made.

You may contact Miss Shilpa Raj (25593929) for any clarification.

### **TAXES:**

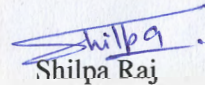
- All applicable taxes should be clearly mentioned. Overwriting, scratching etc. must be avoided in the quotation. Rewriting the whole figure shall carry out any alteration in the figure. The authorized person from the firm shall countersign such figure.

### **DELAY CLAUSE:**

Any delay which is attributable to the contractor is liable for penalty @0.5% per week (max. 10%) to be imposed on the contractor.

**CONFIDENTIALITY:**

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. "Restricted information" categories under section 18 of the Atomic Energy Act, 1962 and "official Secrets" under section 5 of the official secrets act, 1923:- 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. 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 medial like press, radio, T.V. or Internet without the prior written approval of BARC.



Shilpa Raj  
Scientific officer (C)

(On behalf of the President of India)



**Form of Bid-Security Declaration**

Date: (insert date (as day, month and year)

Bid No. : ( ADB/ITB/.....)

To :

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

I/We understand this Bid Security Declaration is in lieu of Bid Security (Earnest Money Deposit) and I/We accept that if the bids are withdrawn or modified during the period of the validity, I/We will be suspended for the time specified in the NIT.

Signature :

Name: (insert complete name of person signing the Bid Security Declaration)

Dated on \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ (insert date of signing)

Seal