Ref: - CSDD/LC/TE-ALA/2020/235 16/03/2020

To,

Sub: Invitation of quotations for “Fabrication and Supply of Miniature Aluminium Alloy Components”

Dear Sir,

1. Quotations are invited for minor fabrication/ repairs jobs as per the enclosed General Terms & Conditions (Annexure-I) and Technical specifications (Annexure-II).
2. Bidder shall quote for the work described here. Please mention PAN, GST registration numbers.
3. Taxes should be quoted separately.
4. The Quotation must reach Control Systems Development Division by 26/03/2020 by 18:00 hrs and must be sent by speed post (No private Courier or Hand Delivery) in the sealed envelope super scribed with the reference number and due date given above. Also the name of the work should be mentioned on the envelope. Quotations will be opened on 27/03/2020, at 11:00.
5. The address on the envelope should read:

   To,
   The Head,
   Control Systems Development Division,
   Bhabha Atomic Research Centre,
   Mumbai - 400 085
   Attn: Lalchand,

6. The bidder shall have to take an insurance policy against any material issued to him by the purchaser, if any.
7. The Fabrication / Repair work shall be subjected to inspection by our Engineer.
8. The bidder shall deliver finished components/equipments after approval of our Engineer or finish the work at site, as the case may be; within Ten Weeks from the date the firm work order is placed with the bidder.
9. Head CSDD, BARC reserves the right to accept or reject any or all the quotations without assigning any reason.

(Lalchand)
SA-F, CSDD, BARC, Trombay
Tel: 022 2559 1728
Email: lchand@barc.gov.in
Annexure-I
GENERAL TERMS AND CONDITIONS

A: Job Title: “Fabrication and Supply of Miniature Aluminium Alloy Components”

B. Scope of Work:
   The scope of work includes micromachining on Aluminium Alloy (6061-T6) material for fabrication of the miniature components as per the drawing. The major operations involved in fabrication would be micro-milling and micro-drilling at high precision machining centre. The components should be anodized for hardening. The technical specifications are given in Annexure-II.

C. Deliverables
   The deliverables are as following:

<table>
<thead>
<tr>
<th>Sr No</th>
<th>Miniature Aluminium Alloy Components</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Type-A</td>
<td>50 Nos.</td>
</tr>
<tr>
<td>2</td>
<td>Type-B</td>
<td>50 Nos.</td>
</tr>
</tbody>
</table>

D. Technical Notes: Given in Annexure-II

E. Free issue materials: No FIM will be given

F. Completion period: Ten Weeks from the date of receipt of work order. However, earlier completion will be desired and appreciated.

G. Requirement of PVC: Not Applicable for this work

H. Charges: Contractor shall quote lump sum as well as the break-up of price for the execution of the complete job. The price quoted shall remain valid at least for four month time from the date of offer.

I. Terms of payments:
   1) No advance payment shall be made.
   2) Full payments shall be made only after completion of the job.
   3) Supplier should send a copy of cancelled cheque & option form for payment through ECS/RTGS with duly signed pre-stamped receipt.
   4) Payment shall be made through cheque or ECS, in favour of the contractor and Accounts Officer, BARC, shall issue the same.
   5) The supplier will have to submit in and stamped receipt along with the bills, for the immediate payment.
   6) Please quote the PAN, GST Registration numbers.
7) An Undertaking to be submitted by the supplier that the GST has been promptly deposited with the authorities. (Annexure-II Ref: BARC/AD/IFB®/2017/OPA-July 10,2017).

8) Deduction of Taxes: Income Tax @2% and GST TDS @2% will be deducted from your bill.

9) Any delay which attributable to the contractor is liable for **penalty @1/2 % per week (max 5%)** to be imposed on contractor.

10) Original satisfactory work completion certificate with date of completion & payment release letter signed by competent authority shall be provided after each quarter of contract.

11) Final bill shall be cleared by Accounts only after receipt of site clearance certificate by the contractor and to the effect issued from the BSMO (BARC Swachchhta Monitoring Officer) as per circular No:- BSMC/Indent/Admin-II/2015 Dt.- 08.05.2015.

**J. Criteria of Technical Evaluation**

I. Partial offers will not be considered. The work order will be placed for **complete work only** and not part wise.

II. The requirement should be completely understood. In case of any technical clarifications, please contact at given telephone number (022 2559 1728, 0977) and email lchand@barc.gov.in and mshivam@barc.gov.in.

III. The bidders shall furnish the details of facilities available with/to them. The past experience of the bidder should be submitted to assess the capability of the company.

IV. The bidder should depute their engineer for technical presentation, if asked for. He/she should be able to respond to the queries on the floor. The bidder should respond within a week’s time, else the offer will be rejected on technical ground.

V. In order to assess the technical competence of the bidder beyond doubt, the bidder may be asked to produce few samples on its own expenses for qualification

VI. As this is a development work, a few (up to three) meetings may be required during the execution of the work. Therefore, the company should be able to send their technical person/engineer as and when required within 7 days (for outstation company) or 2 days (for local company) of the call.
Annexure-II
Technical Specifications
“Fabrication of Miniature Aluminium Alloy Components”

1.1 Aluminium blanks of material grade 6061 - T6 to be precision machined to fabricate the components (Fig.1)

1.2 The overall size of the component is within 8 mm x 8 mm x 12.5 mm in all the cases

1.3 Special machines and tooling are required to accomplish this due to small size and features of the job

1.4 Precision machined micro-holes of diameters 0.5, 1, 1.25 (in steps) and another parallel hole of diameter 1.5 mm along the length of the component are required. Diameter tolerances are -0.00 mm / + 0.020 mm.

1.5 A precision machined slot of defined elliptical shape, of width 0.7 ± 0.01 mm and depth 2.7 ± 0.1 mm to be made in the component

1.6 The component should be finished with chamfering and filleting

1.7 The component should be subjected to hard-anodizing after all machining operations

1.8 Necessary engineering drawings will be supplied to bidders on request ( Tel: 022 2559 0977, email: mshivam@barc.gov.in )

![Fig.1 A pictorial view of the component](image)

1.9 These components are to be fabricated in two types, as given in the table below. The difference is there in the relative positioning of the features in the components. All other complexities are similar.

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1.10 Sample must be approved by indenting officer before the start of batch production