To, To whom it may concern

Sub: Fabrication and supply of high purity rare earth metallic shots - 1 lot

Invitation of Quotations

DUE DATE: September 7, 2020

Dear Sirs,

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

2. The quotations must reach, Associate Director, Beam Technology Development Group by September 7, 2020 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. Nagaraj Alangi)
To,
Associate Director,
Beam Technology Development Group
BARC, Trombay, Mumbai - 400 085.

4. The bidder may contact on Telephone Nos. +91-22-25594396/0218 or by email at nagaraj@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. Associate Director, Beam Technology Development Group BARC reserves the right to accept or reject any or all quotations without assigning any reason.

Yours faithfully,

Encl: One (Job details)
C.C.: AAO, (WORKS) CC, BARC
Technical specifications for Fabrication and supply of high purity rare earth metallic shots - 1 lot

The requirement is for the fabrication and supply of high purity rare earth metallic shots of Samarium, Ytterbium and Lutetium for the experimental work to the extent of quantity and purity specified in table 1. The scope of the work includes:

1. Procurement of raw material that meets the chemical purity requirements to prepare Samarium, Ytterbium and Lutetium metal.
2. Preparation of metallic shots / lumps by appropriate technique after reduction to metal.
3. Thorough cleaning of shots / lumps by use of suitable solvent.
4. Inspection and testing as per the detailed QA/QC program.
5. Packing and safe delivery of the fabricated components to BARC, Mumbai with due care to prevent oxidation of metallic shots / lumps.

Table 1 – Details of metal required, quantity and chemical composition

<table>
<thead>
<tr>
<th>S.no</th>
<th>Rare earth element and CAS Number</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Samarium metal CAS - 7440-19-9</td>
<td>Purity (Sm/TREM) ≥99.9%(3N)</td>
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<tr>
<td></td>
<td></td>
<td>Total rare earth metal (TREM) ≥99.5%</td>
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<tr>
<td></td>
<td></td>
<td>Typical analysis, ppm Ca 200, Fe 50, Gd 100, Mg 50, Si 10, Y 100.</td>
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<tr>
<td></td>
<td></td>
<td>Shape Shots/lumps</td>
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<tr>
<td></td>
<td></td>
<td>Maximum chunk size 10 mm</td>
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<tr>
<td></td>
<td></td>
<td>Minimum chunk size 7 mm</td>
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<tr>
<td></td>
<td></td>
<td>Storage Immersed in mineral oil to prevent oxidation</td>
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<tr>
<td></td>
<td></td>
<td>Packaging 250g bottle</td>
</tr>
<tr>
<td></td>
<td>Total Quantity 2000g (250g x 8No.s)</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Ytterbium metal CAS - 7440-64-4</td>
<td>Purity (Yb/TREM) ≥99.9%(3N)</td>
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<tr>
<td></td>
<td></td>
<td>Total rare earth metal (TREM) ≥99.5%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Typical analysis, ppm Ca 50, Cu &lt;1, Fe 30, La 400, Lu 100, Mg 3, Si 1, Sn 1, Sr 1, Tm 100.</td>
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<tr>
<td></td>
<td></td>
<td>Shape Shots/lumps</td>
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<tr>
<td></td>
<td></td>
<td>Maximum chunk size 10 mm</td>
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<tr>
<td></td>
<td></td>
<td>Minimum chunk size 7 mm</td>
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<tr>
<td></td>
<td></td>
<td>Storage Immersed in mineral oil to prevent oxidation</td>
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<tr>
<td></td>
<td></td>
<td>Packaging 250g bottle</td>
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<tr>
<td></td>
<td>Total Quantity 1000g (250g x 4No.s)</td>
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<tr>
<td>3.</td>
<td>Lutetium metal CAS - 7439-94-3</td>
<td>Purity (Lu/TREM) ≥99.9%(3N)</td>
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<tr>
<td></td>
<td></td>
<td>Total rare earth metal (TREM) ≥99.5%</td>
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<tr>
<td></td>
<td></td>
<td>Typical analysis, ppm Manufacturer to specify, particularly tungsten impurity</td>
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<tr>
<td></td>
<td></td>
<td>Shape Shots/lumps</td>
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<tr>
<td></td>
<td></td>
<td>Maximum chunk size 6 mm</td>
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<tr>
<td></td>
<td></td>
<td>Minimum chunk size 4 mm</td>
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<td></td>
<td></td>
<td>Storage Immersed in mineral oil to prevent oxidation</td>
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<tr>
<td></td>
<td></td>
<td>Packaging 100g bottle</td>
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<tr>
<td></td>
<td>Total Quantity 400g (100g x 4No.s)</td>
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</tbody>
</table>
1. **Procurement of raw material and testing**
   a. All materials shall be such that the final compositional requirements are satisfied.
   b. Certificates for material and purchase order copies for all bought out items shall be provided.

2. **Inspection, testing and acceptance criteria**
   a. The contractor shall rigorously inspect the components before delivery to ensure that they will comply with the specifications and relevant dimensions. The purchaser shall have access at all reasonable time to all shop where components are being fabricated/assembled and all facilities for inspection shall be provided.
   b. Each component shall undergo the following tests at suppliers shop before dispatch
      i. Metrological inspection as per sizes
      ii. Compliance of applicable compositional specifications

**Acceptance criteria**
The raw material shall be sampled and tested for chemical composition in Government approved laboratory as per the relevant purity and impurities specified. Testing charges have to be borne by the supplier. After inspection of workmanship and specifications of each lot of the metallic shots / lumps by the way of test report, it shall be accepted for final delivery to BARC, Mumbai. The material which will not qualify the sizes and compositional requirements shall be rejected.

3. **General specifications, terms and conditions**
   a. **Dimensional Tolerances:** As specified in the drawings or Diameter: ±2% (but not less than ±0.1 mm), Height: ±1%, Linearity: Maximum deviation 0.6% 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. **GSTIN of BARC related details:** Suppliers please note that BARC is the final consumer of the goods/services procured and does not intends 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.
   d. **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.

e. **Material test certificates:** The material testing certificates for all raw materials shall be provided along with the items. A laboratory test certificate issued by Government approved lab conforming the purity shall also be furnished before the items are dispatched to BARC, Mumbai, India.

f. **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.

g. **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.

h. **Free issue material:** There is no free issue of material. All material required for the job is to be supplied by the bidder.

i. **Workmanship:** The surface should be free from impurities, inclusions, unconverted oxides etc, having an impact on a common processing or application of the product. Components with manufacturing defects viz. Cracks, voids, inclusions, oxide scales will not be accepted.

j. **Dispatch:** The finished components shall not be dispatched prior to approval by our engineer at bidder's works.

k. **Packing and shipment:** All components shall be packed properly to avoid damage during shipment.
l. **Delivery schedule:** Supplier shall deliver the completed components/equipment in 45 days from the date of release of order.

m. **Warranty:** Guarantee of the items shall be furnished for one year from the date of delivery.

n. **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.

o. **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.

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**Annexure 1**

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**Certificate of the Contractor / Owner of the Firm**

This is to certify that the undersigned is the proprietor / Owner of M/s __________________________ at __________________________ who have been awarded work contract in BARC, Trombay. I hereby certify that my firm / company and my employees / labourers have not been indulge in any adverse or corrupt criminal activity and no police case has been registered against any of them.

Signature of the Contractor

Name: __________________________

Dr.: __________________________

(Through concerned Engineer/ Officer, BARC)

To,

Dy. Chief Security Officer
(North/ South Zone), BARC
UNDETA KING
(Goods & Service Tax)

The following certificates should be submitted by the suppliers/contractors to the paying authority on the bills itself when Goods & Service Tax (GST) is claimed as extra by the contractors/suppliers.

1. Certified that the goods and packing on which Goods & Service Tax (GST) has been charged have not been exempted under the Goods & Service Tax (GST) or the rules made there under.

2. Certified further that we have actually paid Goods & Service Tax (GST) and are being assessed to Goods & Service Tax (GST) and also that there are statutory exemptions under the GST act concerned we have availed of the same and certify non-availability of such provisions for Goods & Service Tax (GST).

3. Certified that in respect of the amount claimed in the bill, no claim is pending for refund or is admissible. Certified that in the event of our getting refund in whole or in part of the element of Goods & Service Tax (GST), we shall pass on the benefit of the amount of refund obtained by us.

4. Certified further that we (our branch or agent)

(Address)

are registered as dealer in the State of____________________ under the Control Registration No____________________ for the purpose of Goods & Service Tax (GST)

Signature & Stamp