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CFB, Trombay
MUMBAI - 400 085

**GOVERNMENT OF INDIA
BHABHA ATOMIC RESEARCH CENTRE
Cryo-Technology Division**

Ref: BARC/CrTD/MF/SNR/2018/OPA/176221

Date: 12/09/18

Sub: Invitation to submit your quotation

On behalf of the President of India, Head, Cryo-Technology Division, Bhabha Atomic Research Centre invites lowest quotation in sealed envelope for the work given below as per the technical specifications enclosed herewith.

S. No.	Description of Job	Completion Period
1	Minor fabrication work of Magnetic Abrasive Finishing Facility at CrTD, CFB as per specifications	3 months from date of W.O.

The terms and conditions are given below:

1. Qualifying criteria for bidders

- 1.1 Firms willing to bid for above mentioned job shall have been vetted by Security Section of BARC.
- 1.2 All the supervisors and workers should have valid Police Verification Certificate (PVC). The list of manpower available with firm shall be submitted along with their details of PVC.
- 1.3 The past work experience certificate of the firm of similar nature in BARC/DAE shall be made available with Work Order copy and satisfactory completion certificate from the user. Also the list of ongoing jobs inside BARC premises with expected completion period shall be provided.
- 1.4 The firm having past experience (minimum of 3 years) in development of advanced magnetic based nano finishing facilities and similar R&D nature of work in BARC/DAE, only need to apply for this work.
- 1.5 Interested bidders shall contact the undersigned on Phone No. 2559 6819 (Ext. No. 26819) with above mentioned details for getting the Detailed Tender Specification.

2. Detailed job description & scope of work: As per Annexure I.

3. Facilities required at firm's site: Machining & fabrication facilities for development of magnetic based nano finishing facilities and similar R&D nature of work.

P.T.O.

4. The quotation envelope shall be superscripted with **Description of the job and the Tender Ref. No.**, mentioned above.
5. The complete quotation shall reach the following address on or before 28/09/18 by **Registered Post/ Speed post**. The quotations will be opened on the next working day at Cryo-Technology Division, BARC between 1400 to 1600 Hrs.

Head, Cryo-Technology Division, Bhabha Atomic Research Centre, Trombay, Mumbai- 400 085
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6. **There is no FIM.**
7. **Printed Letter Head:** Quotation should be printed on the letter head; computer generated quotation is not valid.
8. **Validity of the Offer:** Validity of the offer shall be 90 days from date of opening of quotation.
9. **Guarantee:** Vendor shall have to give guarantee of the quality and workmanship of work done for the period of 12 months from the date of completion of the work.
10. **Offer of Firm:** Offer of those firms, who do not submit their quotation as per the details given in the technical specification and incomplete quotations in any respect shall not be considered. Contractor shall quote lump sum price for the execution of the complete job.
11. The department reserves the right to extend the date of opening the quotations.
12. **Payment Terms:** Accounts Division BARC Mumbai-400085 shall make full and final payment only after submission of the satisfactory work completion certificate issued from the undersigned, bill, guarantee certificate, delivery chalan, ECS and advanced stamped receipt. No advance is admissible.
13. **Income Tax Recovery Clause:** Income tax @ 2% will be deducted from the bill.
14. If any of the employee, consultant, or partner of the company is an Ex BARC employee, the same must be stated in the quotation clearly.
15. **Penalty:** Any delay which attributable to the contractor is liable for penalty @ 0.5 % per week (max 5 %) to be imposed on contractor.

16. ST/VAT/PAN Number: Quotation shall consist of GSTN number registered with local GST authority /CGST authority and PAN number of the firm.

17. Quantity Variation Clause: Quantity variation of $\pm 10\%$ is possible during the execution of the job. Actual payment shall be made based on the actual work carried out by the contractor after completion of entire job.

18. Safety & Security Rule: The vendor shall follow all the safety procedures as per the normal industrial practice during the execution of the job at site. Any mishap occurring during the work due to unsafe workmanship shall be the vendor's liabilities. Security and transportation rules at BARC, Trombay premises shall be strictly followed.

19. Confidential Clauses:

i. Confidentiality : No party shall disclose any information to any third party concerning 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 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, advisors, or the employees engaged by a party with equal force.

ii. "Restricted information" categories under section 18 of the Atomic Energy Act, 1962 and "Official secrets" under section 5 of the of the Official Secret Act, 1923: Any contravention of the above mentioned provisions by any contractor, sub- contractor, consultant, advisor or the employee of a contractor will invite Penal consequences under the aforesaid legislation.

iii. Prohibition against use of BARC's name without permission for any publicity Purpose. The contractor or Sub contractor, consultant, advisor or the employees engaged by the contractor shall not be use any public purposes through any media like press, TV, or internet, without the prior written approval of BARC.

R.S. Nair
12/09/18
(Sandeep Nair R.)
Scientific Officer – E
CrTD, BARC
वैज्ञानिक अधिकारी (E) /Scientific Officer (E)
कायो-प्रौद्योगिकी प्रभाग/Cryo Technology Division
भारत सरकार /Government of India
भाभा परमाणु अनुसंधान केंद्र /B. A. R. C
द्वि / Trombay, मुंबई/ Mumbai-400 085

Annexure - I

Technical Specifications for the Magnetic Abrasive Finishing Facility:

The Magnetic Abrasive Finishing Facility will have a CNC controlled milling machine base complete with machine bed (for finishing of flat components) and an additional chuck arrangement (for finishing of cylindrical components). The specifications of the machine are:

- 1) Feed and spindle accuracy of the machine = 20 microns or better.
- 2) Floor space of approx. dimensions = 600 mm (L) x 600 mm (B) x 600 mm (H).
- 3) Minimum working space of approx. dimensions = 400 mm (L) x 200 mm (B) x 200 mm (H).
- 4) Rotational speed range of the machine = 0 – 2000 RPM (max.). Various speeds will be obtained using a Variable Frequency Drive (VFD).
- 5) Automatic feed movement range for the work piece/magnet tool = 0 – 40 mm/min (max.).
- 6) The machine should compose of: (1) Granite base (2) LM Guide rails for all 3 axes (3) Precision ball screw assemblies for all 3 axes (4) Stepper motor drives for all 3 axes slides (5) Two spindle drives, one each for rotation of the work piece and magnet tool (6) VFDs for both spindle drives (7) Aesthetic SS enclosure with Perspex viewing window (8) Accessories like chuck, vertical tool holder/collet, standard tool post, dead centre (revolving type), etc. (9) CNC controller & standalone system (10) CNC software with compatible hardware.

For further detailed specifications, layout and any other clarifications, kindly contact the indenting officer, Sandeep Nair R., SO/E, CrTD, CFB, BARC.

(Ph: 022 – 2559 6819/1752)