

TENDER ENQUIRY

Ref.: AFD/ESAS/TE/4/2022/I/16545

March 4, 2022

To,

.....
.....

Sub: Tender enquiry for "Operation and Maintenance of Ventilation Systems, Plant Utility Services, Mechanical Equipments & S74 workshop equipments for fuel fabrication at AFD for period of one year"

Sealed quotations are invited for & on behalf of The President of India for "Operation and Maintenance of Ventilation Systems, Plant Utility Services, Mechanical Equipments & S74 workshop equipments for fuel fabrication at AFD for period of one year". The scope of work, general specifications, terms & conditions are as follows:

A) Scope of Work and Specifications:-

The scope of work shall involve operation and maintenance of ventilation systems, plant utility services, mechanical equipments & S74 workshop equipments for fuel fabrication at AFD for period of ONE YEAR

I. Operation of Ventilation Systems and Utility services of plant:-

On Daily Basis: Switching ON and Switching OFF

- (a) Main plant Supply Blowers : 2 nos.
- (b) Main plant Exhaust Blowers : 2 nos.
- (c) Extrusion press Supply Blowers : 2 nos.
- (d) Extrusion press Exhaust Blowers : 2 nos.
- (e) Cooling Towers : 2 nos.
- (f) Spraying pump : 2 nos.
- (g) Circulating pump : 2 nos.

II. Collection and pumping operation of liquid effluents:-

Collection tanks 9.5 m³ capacity : 2 nos.
Delay tanks 50 m³ capacity : 2 nos.

- (a) Pumping operation (2 nos. pumps) of effluent from collection tanks to delay tanks : **9,000 liters per day**
- (b) Pumping operation (2 nos. pumps) of effluent from delay tanks to sea discharge : **50,000 liters per week**

III. Pumping operation of Overhead pumps:- 2 nos. on Daily basis

(Automatic or Manual operation depending on water level)

IV. Fabrication of control blade assembly and components:-

- (a) Poison tubes ID/OD cleaning : 70 nos. per day
- (b) Tube vacuum drying : 70 nos. per day
- (c) B4C Powder vibro-filling in tubes : 20 nos. per day
- (d) Tube handling & assistance to welding work : 20 nos. per day
- (e) Tube straightening work : 70 nos. per day
- (f) Shifting of tubes and cruciform bars : 70 nos. per day
- (g) Handling of various components : 70 nos. per day
- (h) Packing of assemblies in wooden boxes/box strapping: 12 nos. per year

V. Maintenance of Mechanical equipments :-

Mechanical maintenance of equipments and machineries: On **Daily basis**

(Pumps: 4 nos. / Blowers: 8 nos. / Cooling Towers: 2 nos. / Extrusion press: 1 no.)

- (a) Checking of noise and vibrations
- (b) Cleaning, degreasing and greasing of bearings and various fittings
- (c) Cleaning of hot and cold sumps of cooling towers and cleaning of pvc fills

- (d) Alignment of belt tensions
- (e) Repairing water leakages
- (f) Physical checking of water levels in overhead and underground tanks
- (g) Replacement of Guide and yoke seals of extrusion press m/c
- (h) Hydro testing of effluent pipe line

VI. Maintenance of equipments at S74 & S64 active workshop:- on daily basis

(Lathes: 2 nos. / Grinding m/c: 1 no. / Milling m/c: 1 no. / Spot welding unit: 1 no)

- (a) Checking of noise and vibrations
- (b) Cleaning, degreasing and greasing of bearings and various fittings
- (c) Cleaning of hot and cold sumps of cooling towers and cleaning of pvc fills
- (d) Alignment of belt tensions
- (e) Preventive and breakdown maintenance of equipments

B) General Technical Instructions:-

1. For execution of the above work as mentioned (against I to VI), contractor shall provide **at least 6 skilled fitters on daily basis on all working days for a period of one year**. Contractor shall provide a copy of valid certificate for the skilled operators. Personnel working at site shall have min. 3 years of working experience in any mechanical industries or engineering workshops.
2. A trade test and an interview will be performed for all the personnel coming for work. Only after satisfactory performance in test, the personnel will be allowed to work at the site.
3. All the works shall be carried out at AFD, BARC, Trombay, Mumbai. All material, equipment and tooling will be supplied by the department.
4. Preventive maintenance checklist of above equipments and work schedule has to be strictly followed.
5. Breakdown maintenance work shall be carried out as per instructions given by the Engineer- In- Charge
6. Fresh candidates shall not be deputed in any case for carrying out the above work.
7. All the work related to maintenance shall be carried out with utmost care and under supervision only. Damages of equipments, machineries, accessories etc of any kind shall be liable for penalty.
8. Contractor's personnel shall report to Engineer-in-charge and shall perform the task under his supervision.
9. The demands of work require the person to be able to lift loads up to 25 kg. Valid medical fitness certificates of all personnel shall be produced after placement of work order/ contract document as per prescribed format. The fitness certificates shall be obtained from Medical Practitioner registered with Indian Medical Council.
10. No personal or medical insurance charges will be borne by the department. No transport allowance, vehicle allowance etc will be borne by the department. Hence, it is the responsibility of the supplier to provide necessary arrangements to their personnel.
11. Absenteeism, irregularity and punctuality in attendance of contractor's personnel shall be strictly reviewed. Proportionate amount shall be deducted from contractor's bill for absenteeism of its personnel.
12. Contractor shall arrange for suitable alternative manpower in case of frequent absenteeism /unsatisfactory performance/ misbehavior of any worker involved in this work so that the scheduled work shall not hamper.
13. All personnel will be required to report to Health Physicist, AFD, before commencement of work and after completion of work every day. Personnel involved in this works contract shall have to use TLD badges provided by divisional HP.
14. The personnel shall undergo detailed training in radiation protection including emergency procedures applicable to the plant. They will be adequately trained so that they are fully familiar with the procedures and work methods of the plant. The literacy level of workers should be such that they should be able to read, write and absorb the training imparted to them and understand radiation safety.
15. Supervisor shall be present at site during the work. During execution, all safety measures such as safety shoes, hand gloves, headgear for welding, certified machines for electrical jobs etc. are to be followed. The supervisor shall be experienced enough for safety (fire & personal) to oversee the site activities. For elevated jobs proper Safety Belts shall be used by all workers.
16. Personal protective gears such as safety shoes suitable for mechanical workshop, socks, undergarments, Face cover/mask and soap shall be provided by the supplier to their employees engaged in this work. No personnel will be allowed to work without safety gears.

17. Personal protective gears such as boiler suits, hand gloves and respirator (if required for occupational hazard) will be provided by us.
18. During the execution of work, all safety instructions are to be followed. This work includes working in an area with possible radioactive contamination; hence the supplier should strictly ensure that the personnel carrying out work shall wear all necessary personnel protective equipment as prescribed. BARC will not be responsible for any injury or accident taking place on site. Any loss or damage to property, machine, equipment, tools will be recovered from the vendor.
19. The upkeep/cleaning of work place and surrounding is the responsibility of contractor. Any unwanted or extra materials shall be kept at designated area which will be shown by departmental supervisor. It is required to maintain safe and hygienic work environment.
20. **Site Visit:-** The contractor shall have to visit the site to comprehend the scope of work and equipment conditions. The same will be arranged by the undersigned. The site can be visited strictly on 15/3/2022 between 10.00 hrs to 14.00 hrs on working day. However, prior intimation of at least three working days is necessary. For site visit, undersigned may be contacted (ph. 25594869/4614, email: pjpatil@barc.gov.in). Complete details of the firm, name of visitors, occupation/designation, identity proof, PVC details, date of visit etc. are required for approval of visit.
Contractor shall have to carry valid Photo identity card (Driving licence/passport/adhaar card) while visiting this premises. Contractor should not carry any type of electronic items such as mobile, pen drive, camera etc with him/her at the time of visit.
The quotations submitted without site visit will NOT be considered.
21. Contractor should have previous experience of similar type of work and shall have to produce documentary evidences of the same for site visit clearance.
22. Contractor shall obtain police verification certificate (PVC) for all his employees including his supervisors and workers engaged in the work.
23. The contractor shall deploy the manpower at AFD, BARC within 3 weeks after issue of work order. Work order will be communicated to the contractor through email also.
24. Work order will be cancelled, if the contractor fails to deploy the required manpower within 1 month from the date of issue of work order. Further the contractor will not be permitted to bid against future tender enquiries raised by AFD, BARC.

C) Terms & Conditions:-

1. Taxes, GST, if any, shall be specified separately.
2. Supplier should **clearly and separately** mention the Basic Cost of supply, GST, work completion period etc in the offer.
3. Quotation shall be **lump sum** for entire work completion mentioned in the enquiry. Quotations received on per person basis or individual work basis will not be considered.
4. Work completion period is **ONE YEAR** from the date of issue of the work order.
5. Any delay which is attributable to the contractor is liable for penalty @ ½ % per week (max. 10%) to be imposed on the contractor.
6. In case of delay in work completion, supplier may send request letter to concerned authority for extension in work completion period with proper justification for delay in work. Concerned authority may or may not give extension with or without penalty depending on the justification for delay.
7. Income tax @2% and GST TDS @2% will be deducted from the Suppliers bill.
8. Supplier should give guarantee for a minimum period of One Year for the workmanship.
9. Contractor must furnish their **PAN no. & GST Registration Certificate**.
10. Supplier shall submit GST undertaking as per format and will be liable for GST exemption as per prescribed rate if found in order.
11. 100% payment will be arranged after satisfactory completion of work at AFD and on submission of:
(a) Bills in Triplicate, (b) Advanced Stamped Receipt, (c) Delivery Challan, (d) Guarantee Certificate, (e) GST Undertaking, (f) ECS Payment Form, (g) Work Completion Certificate, (h) ITR undertaking, (i) Site Clearance Certificate

12. In case of award of work order, the supplier shall give his acceptance through email or letter within 15 days of issue of work order.
13. Contractor working inside BARC is subjected to security clearance by BARC security, before or during the period of contract. Security instructions and guidelines must be followed strictly by the contractors.

D) Confidentiality clause:-

i) 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.

ii) "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

iii) Prohibition against use of BARC's name without permission for publicity purposes. :-

The contractor of 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, T.V. or Internet without the prior written approval of BARC.

- Quotations are to be in printed letter head / quotation format which should consists of **PAN of the firm, GST registration number** etc. Quotations that are received in computer generated form will be considered as invalid & rejected.
- Sealed quotations must be forwarded by **Registered or Speed Post ONLY**. Quotations forwarded through any other routes will not be considered.
- Sealed quotations should be super scribed on the envelope with the reference number of this letter, and should be addressed to and reached by **(28-03-2022 by 16.00 hrs.)** to:

TO,

Shri P.J. Patil,

SA/E, Engg. Services & Automation Section,

Atomic Fuels Division, Bhabha Atomic Research Centre,

Trombay, Mumbai-400085.



(P. J. Patil)

SA/E, ESAS, AFD



(Surendra Kumar)

Head, ESAS, AFD

(For & on behalf of The President of India)

सुरेंद्र कुमार / SURENDRA KUMAR

अध्यक्ष, इंजीनियरिंग सर्विसेस & ऑटोमेशन सेक्शन
Head, Engineering Services & Automation Section

परमाणु ईंधन विभाग / Atomic Fuels Division

भारत सरकार

भाभा परमाणु संशोधन केंद्र