



GOVERNMENT OF INDIA
BHABHA ATOMIC RESEARCH CENTRE
URANIUM EXTRACTION DIVISION

Ref: UED/ PL 13/18/ 174 483

Dated: 10/09/2018

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Tender No.: BARC/UED/SKS/18094

Due date: 26/09/2018

Sub: Annual service contract for servicing of Air handling unit filters at UMP, AUMP, RUMP and UMRT of UED, South site (Non-Comprehensive).

Dear Sir,

On Behalf of Head, Uranium Extraction division quotations in sealed envelopes are invited through Indian Post from contractors experienced in works of similar kind and magnitude for servicing of Air handling unit filters.

1) **Brief description of work:**

Annual Maintenance Contract through outside firms on Limited Tender basis for Air handling unit filters available in the uranium extraction division, BARC for a period of Two years. The detailed works to be carried out is given in the scope of work.

2) **Description of Equipments:-**

Air Handling Unit filters are consisting of four types of filters as per the following details:-

a) **Dry Metallic Filters:**

Size- 610 mm x 610 mm x 50 mm

Pressure drop – Not more than 3.5 mm WC

Face Velocity – 125 Meter/Minuit
Air Flow rate – 2,800 Meter³/ Hour
Quantity – 75 Nos. (Fixed in Position)

b) Pre Filters:-

b1) Size- 610 mm x 610 mm x 293 mm
Pressure drop – Not more than 6 mm WC
Face Velocity – 76 Meter/Minuit
Air Flow rate – 1,700 Meter³/ Hour
Quantity – 85 Nos. (Fixed in Position)

b2) Size- 610 mm x 610 mm x 150 mm
Pressure drop – Not more than 6 mm WC
Face Velocity – 122 Meter/Minuit
Air Flow rate – 2,720 Meter³/ Hour
Quantity – 35 Nos. (Fixed in Position)

c) Bag Filters:-

c1) Size- Outside Diameter: 225 mm, Length: 1,400 mm
Filtration area – 9.26 M²
Air Permeability – 450 M³/M²/Hr
Pressure drop – Not more than 12.5 mm WC
Quantity – 12 Nos. (Fixed in Position)

c2) Size- Outside Diameter: 160 mm, Length: 1,000 mm
Filtration area – 7.5 M²
Air Flow rate – 770 Meter³/ Hour
Pressure drop – Not more than 12 mm WC
Quantity – 12 Nos. (Fixed in Position)

2) Scope of Work: -

2.1) For Dry metallic and Pre filters -

- ☑ Switch of the supply blowers from electrical supply board and remove the fuses of main switch.
- ☑ Fix the board on switches marked "AHU under servicing".

- ☒ Dismantle and removes all 75 nos. dry metallic filters and all 120 Nos. pre filter from the M.S. structural frame.
- ☒ Remove the dust, dirt from dry metallic filters and pre filters by washing with water/using vacuum cleaner /manually (as required at site) and dried the filters with direct sunlight and warm air.
- ☒ Check and make operative of existing manometer unit (used for differential pressure measurement across the filters banks). Maintain the record of manometer reading.
- ☒ If required change the filters with new ones which are available with the division.
- ☒ Clean the frames, painted by two coat of enamel paint with black color.
- ☒ Clean and make operative of all wing nuts and bolts of the frame.
- ☒ If thread are worn out or damaged should be replaced.
- ☒ Lubricate the bolt threads by grease during fitting.
- ☒ Fix back all 75 nos. dry metallic filters and all 120 Nos. pre filters in position on the frame and tighten the wing nuts.
- ☒ Remove the board marked "AHU under servicing" from main switch.
- ☒ Fix back the fuses of main switch board and inform the departmental representative.

2.2) For Round pipe filters (filter bags): –

- ☒ To switch of the blowers and remove the fuses of main switch.
- ☒ To fix the board on switches marked "AHU under servicing".
- ☒ To dismantle and removes all 24 nos. filters from the frame at upper side.
- ☒ To remove the dust, dirt by using vacuum filters system only.
- ☒ Check the pressure drop across the filters with suitable testing method (like Manometer etc.).
- ☒ If required change the filters with new ones which are available with the division.
- ☒ Clean and make operative of all clamps/nuts of bag house frame.
- ☒ Lubricate the bolt threads by grease during fitting.
- ☒ Fix back of all 24 nos. filters in position on the frame and tighten the clamps/nut.
- ☒ Remove the board marked "AHU under servicing" from main switch.
- ☒ Fix back the fuses of main switch board and inform the departmental representative.

Important:

- Supervisor should be available during the job at site under whom all jobs are to be carried out. The supervisor should coordinate with departmental representative during the job for any site guideline.

- The vendor should arrange all the tools, tackles, neoprene rubber gasket and safety gears (Hand gloves, dust mask, boiler suit, shoe & shoe cover etc.) as per the site requirements.
- The vendor has to know that the work include the handling of radioactive material (powder) at various places. Hence for carrying out the job safely & properly the vendor should follows and fill-up the attached safety form Annexure-II & III (as per AERB guideline) before starting the job.
- Arrangement of all materials (Enamel paint (smoke grey color), red oxide paint, paint brush, emery paper, grease, lubrication oil, and welding requirement) required for servicing and repairing will be arranged by the vendor itself free of cost.
- After completion of the work, the contractor shall remove all debris, take away left out construction materials etc. and make the area neat and clean.
- All the services shall be witnessed by users engineer in-charge/ supervisor.

3) Quantity of Work:-

S. No.	Equipments/Items details	Quantity	Location
1	Dry Metallic Filters	75 Nos.	UMP
2	Pre Filters	120 Nos.	UMP, RUMP & UMRT
3	Bag Filters	24 Nos.	UMP & AUMP

4) FREQUENCY OF SERVICING:-

- Works has to be done on the half yearly basis (Total four servicing in the contract period) and should be finished within 3-5 working days time in each turn.
- Breakdown maintenance, Should be attended immediately but not later than 24 hours.

6) Price:

The bidder shall give the break up of charges as per the following:

- Cost of annual maintenance contract (inspection and servicing) for filters.
- Taxes and duties applicable.

5) PERIOD OF CONTRACT: -

Two years from the date of commencements of the order. While the contract is intended for a period of two years, this department reserves the right to terminate this contract by giving a notice of one month without any financial obligation of the department. In the

event of cancellation of the contract for a reason the payment for services carried out pro-rata basis.

- If the party fails to perform the services within the time frame(s) incorporated in the contract, BARC shall, without prejudice to other rights and remedies available to BARC under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to the 0.5 % percent of the delivered price of the services for each week of delay until the completion of servicing, subject to a maximum deduction of the 5% of the services contract price(s).

6) FREE ISSUE MATERIALS:-

Dry metallic filters, Pre-filters, Bag filters as and when required. The requirement will be accounted and regulated strictly. Vendor should maintain the record & submit the copy to the BARC representative.

7) FACILITIES WOULD BE MADE AVAILABLE BY BARC:-

- a) Suitable site for storage of tools & tackles.
- b) Free electricity and water supply at site.
- d) Ladder will be provided at the site if required.
- e) Vacuum cleaner at site if required.

8) PAYMENT:-

Payment shall be made on half yearly basis By ECS approximately within 3 – 4 weeks after satisfactory completion of works and submission of following documents:

- (a) Original bills with advanced stamped receipt
- (b) Delivery challan of brought out spare items (If any use).
- (c) Servicing reports in standard format.

Vendor shall provide bank details as required for ECS payment, along with the bill.

9) DEDUCTION TAXES & SURCHARGE:-

Income Tax @ 2% (or as applicable) shall be deducted from your bill.

10) Taxes and surcharges: As per the following details-

GSTN-It shall be ascertained that the invoice raised by a registered supplier of taxable goods / services along with other details specifically indicates:

- i) GSTN
- ii) PAN
- iii) Location of supply,
- iv) Tax component to be separately indicated in the invoice.

- iv) An undertaking shall be taken from the registered supplier that the GST promptly deposited with the authorities.

11) CONFIDENTIALITY CLAUSE:-

Confidentiality

No party shall disclose any information to any third party concerning the matter under this contract.

Restricted information

Categories under section 18 of the Atomic Energy Act, 1962 and "Official Secrets" under section 5 of the official Secret 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 purpose

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 media like press, Radio, TV, or Internet without the prior written approval of BARC.

Party should write clearly **the Tender No. and due date** on the top of sealed envelope containing offer and to be addressed to, **Head, UED, BARC, Trombay, Mumbai-85.**

12) NOTE:-

- (a) Party should aware about the entry procedure of BARC. PVC (Police Verification Certificate) is required for site work for all workers and it is to be made by party. Party should be responsible to submit all the supporting documents for the preparation of entry pass.
- (b) **The vendor should understand the job thoroughly along with all general requirements before accepting work order.**
- (c) Please mention your GST No., PAN No. etc. in the offer, otherwise the offer will be automatically cancelled.
- (d) The offer must be signed by competent authority with his/her rubber stamp if any otherwise company stamp and all entries in the tender document/quotation should be in one ink. Erasures and over writing are not permitted.
- (e) The contractor shall follow the Industrial Safety Regulations strictly. You shall ensure safety of your personnel and they must be provided with necessary safety equipment and personnel protective equipment to carry out this type of work. Any claim arising out of injuries / death of your personnel due to any accident or what so ever reason shall be settled by you only and shall remain as your liability only. BARC will not be

responsible or liable for any such claim. Any dispute related to labor will be responsibility of the vendor only.

- (f) The damages, whatsoever, if done to the piping, cables, structures etc existing in the plant/site to be laid as per this contract, shall have to be made good/repaired by the contractor by his own cost immediately.
- (g) Quotation should be sent in sealed envelope addressed to **Head, Uranium Extraction Division, BARC, Trombay, Mumbai 400 085**. Party should ensure that their quotation is reach to us on or before due date and time indicated, failing which tenders will be treated as a late and rejected.
- (h) All quotation should be superscripted (i) **The subject** (ii) **Tender no.**(iii) **Due date** on the top of the envelope positively. Quotation will be accepted by INDIA POST only Quotation sent by FAX/E-Mail/or any other form/means will not be considered.
- (i) Conditional and unsigned tenders. Tenders containing absurd rates and amounts, tenders which are incomplete and tenders which are not in accordance with the tender conditions are liable to be rejected.
- (j) The tenderer who have security vetting clearance letter and PVC certificate of all their workers will give the preference
- (k) The BHABHA ATOMIC RESEARCH CENTRE reserve the right to reject any or all the tenders received or accept any tender or part thereof without assigning any reason thereof. In case of acceptance of a part of tender, the time for completion may also be reduced to the extent considered appropriate by the accepting authority.
- (l) The party should mention their PAN No. & GST No. etc while submitting the documents (offer/invoice/bill and challan etc.). Failing of the same may delayed their payment.

Thanking you.

Satpati
5/9/18

Dr. S.K. Satpati

Head, HPS, UED

(For and on behalf of President of India)

Yours faithfully,

N. Singh

Narendra Singh

Scientific Assistant-E, UED

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