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DEF building, Trombay
MUMBAI – 400 085

GOVERNMENT OF INDIA
BHABHA ATOMIC RESEARCH CENTRE
Desalination Division

Ref: BARC/DD/MTS/SSR/F&R⁴/2018/

Date: 09/01/ 2018

To,

Sub: Invitation to submit your quotation

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

S. No.	Description of Job	Completion Period
1.	Installation of Pumps with modifications in suction and discharge piping, laying of product transfer & service water pipe lines and providing Aluminium enclosure & Equipment labelling at SWRO Pilot Plant, DD, BARC, Trombay	Four months from the date of issue of order

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 experience of the firm in similar nature in BARC/DAE shall be made available with Work Order copy and satisfactory completion certificate from the user. Also the list on of going jobs inside BARC premises with expected completion period shall be provided.
 - 1.4 Interested bidders shall contact the undersigned on Phone No. 2559 4732/4749 (Ext. No. 24732/4749) with above mentioned details for getting the Detailed Tender Specification.
2. The quotation envelope shall be superscripted with **Description of the job and the Tender Ref. No.**, mentioned above.
 3. The complete quotation shall reach the following address on or before **25/01/2018 by 11.00hrs** through Registered Post/ Speed post only. The quotations will be opened on the same day in Desalination Division. BARC between 1400 to 1600 Hrs. **The address on envelop should read as follows.**

Head,
Desalination Division,
Bhabha Atomic Research Centre,
Trombay, Mumbai- 400 085
Attn: S S. Ram, SA/E, MTS/DD

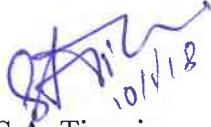
4. **Printed with Letter Head:** Quotation should be printed on the letter head; computer generated quotation is not valid.
5. **Validity of the Offer:** Validity of the offer shall be 90 days from date of opening of quotation.
6. **Guarantee:** Vendor shall have to give guarantee of the quality and workmanship of work done for the period of 12 months from the date of completion of the work.
7. **Quote Format:** Bidder is requested to quote for the above job on lump-sum basis with mention of applicable taxes. Quotation price format will be like Rs..... (Basic lump sum cost) + Rs..... applicable taxes(GST) =Rs..... (Total cost).
8. **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.
9. The department reserves right to extend the date of opening the quotations.
10. **Criteria for Evaluation of Tender:**
 1. Responsiveness of the Quotation: Bid should cover the entire fabrication and supply job in totality for its technical suitability.
 2. Evaluation will be done based on consolidated price.
 3. Technical suitable lowest consolidated offer will be considered for awarding the work order.
11. **Specific Conditions of Tender**
 1. Bidders are requested to return the technical specification, drawing and envelop along with the Quotation.
12. **Security Rules:**
 1. Police verification certificates are required for supervisors and labourers deployed at the site.
 2. Security rules and transport rules at BARC, Trombay premises shall be strictly followed.
13. Labourers below 18 years of age shall be not allowed to work at site.
14. **Payment Terms:** Accounts Division BARC Mumbai-400085 shall make payment only after submission of the satisfactory work completion certificate issued from the undersigned, bill, guarantee certificate, delivery challan and advanced stamped receipt. No advance is admissible. Satisfactory completion certificate will be issued only after site clearance.
15. **Income Tax Recovery Clause:** Income tax @ 2% will be deducted from the bill.
16. 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.
17. **Penalty:** Any delay which attributable to the contractor is liable for penalty @ 0.5 % per week (max 5 %) to be imposed on contractor.
18. **ST/VAT/PAN Number:** Quotation shall consist of Sales Tax Registration Number registered with local ST authority /CST authority, PAN number of the firm, service tax registration number etc.
19. **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.
20. **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 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



S.S. Ram
SA/E, MTS, DD



S.A. Tiwari
SO/F, MTS, DD



K. P. Bhattacharya 10.01.18
Head, MTS, DD

Technical Specification

Name of Work: Installation of Pumps with modifications in suction and discharge piping, laying of product transfer & service water pipe lines and providing Aluminium enclosure & Equipment labelling at SWRO Pilot Plant, DD, BARC, Trombay.

Location: SWRO plant, Desalination Division, BARC, Trombay, Mumbai-400 085.

Scope of Work

1. Installation and commissioning of RO Feed pump-set with modifications in suction & discharge piping as per attached drawing no. BARC/DD/MTS/SWRO/P01.

Item No.	Item Description	Quantity
1.1	Installation of RO high pressure feed pump (Multistage centrifugal pump, weight- 2000 kg) with supply of 1 no. of glycerine filled pressure indicator (0-100 bar), after dismantling the existing pump-set from the pump bay and associated works like grouting, surface finishing, shifting to TVS Stores (about 5 kms away)/ DD scrap yard etc. complete as required. RO feed pump is available at SWRO plant site.	1 no.
1.2	Fabrication, supply and installation of SS316L, Sch 40, 100NB size suction piping with required fittings as per provided drawing, with 2 nos. of suction valves (65NB,150# ball valve-1 no & 80 NB,150# ball valve-1 no). Dismantling of old suction piping & transferring to TVS stores (about 5 kms away) is included.	10 m
1.3	Fabrication, supply and installation of SS316L, Sch 80, 50NB size discharge piping with required fittings as per provided drawing, with 2 nos. discharge ball valves (50NB, 600#). Dismantling of old discharge piping & transferring to TVS stores (about 5 kms away) is included.	5 m
1.4	Testing @ 50 bar pressure and Commissioning of newly installed RO feed pump and its suction – discharge piping, in existing RO module system.	Job

2.0 Installation and commissioning of RO product transfer system & service water line inside the SWRO plant area. drawing no. BARC/DD/MTS/SWRO/P02.

Item No.	Item Description	Quantity
2.1	Installation, Testing and commissioning of RO Product transfer pump-set (weight- 200 kg) with supply of 1 no. of pressure indicator (0-7 bar), after dismantling the existing pump-set from the pump bay and associated works like grouting, surface finishing, shifting to TVS Stores (about 5 kms away)/DD scrap yard etc. complete as required. Product transfer pump set is available at SWRO plant site.	1 no.
2.2	Supply, fabrication, laying and testing @ 3 bar pressure of RO product transfer pipeline from RO product tank to Overhead water reservoir of DEF building as per attached drawing. 2.2.1: 40 NB Sch 40 UPVC piping with required nos. of fittings, saddles, solution cement etc complete	60 m

	2.2.2: 40 NB heavy duty GI piping with required nos. of fittings, saddles, solution cement etc complete	45 m 5 nos. 1 no
	40NB UPVC Ball valve 40 NB UPVC NRV	
2.3	Supply, fabrication, laying and testing of 1-inch size heavy duty GI service water pipeline with required fittings, saddles etc. along the bund wall from SWRO control room corner up to the SWRO UF end, with 3 nos. of ½ inch tapping arrangement provided with SS304 ball valve.	45 m

3.0 Installation and commissioning of UF backwash pump-set with modifications in suction & discharge piping as per attached drawing no. BARC/DD/MTS/SWRO/P03.

Item No.	Item Description	Quantity
3.1	Installation, testing and commissioning of UF backwash pump set (Centrifugal pump, weight- 200 kg) with supply of 1 no. of pressure indicator (0-7 bar), after dismantling the existing pump-set from the pump bay and associated works like grouting, surface finishing, shifting to TVS Stores (about 5 kms away)/DD scrap yard etc. complete as required. UF backwash pump set is available at SWRO plant site.	1 no.
3.2	Supply, fabrication, laying and testing of 80 NB, UPVC, Sch 80 suction piping with required fittings & 2 nos. of suction valve as per provided drawing.	5 m
3.3	Supply, fabrication, laying and testing of 65 NB, UPVC, Sch.80 discharge piping with required fittings & 2 nos. of discharge valve & 1 no of NRV, as per provided drawing.	25 m

4.0 Miscellaneous Jobs

Item No.	Item Description	Quantity
4.1	Providing powder coated Aluminium Composite Panel as per attached drawing no. BARC/DD/MTS/SWRO/P04.	15 sq. m.
4.2	Providing MS framed aluminium grill in the gap between bund wall and SWRO plant shed.	8 sq. m
4.3	Demolition of existing 150 mm raised RCC foundations & flushing/finishing as existing at site, at SWRO plant area and transferring to TVS stores.	5 sq. m
4.4	Providing Equipment Labeling on various equipment's/Pumps/ MCC panels etc in the SWRO plant, to be fixed on the equipment. Dimensions of Label plate: 100 mm x 65 mm x 3 mm thick MOC of label plate: Anodized aluminium Label plate with equipment names & tags nos. Etched/embossed on it.	50 labels

Bidder shall quote for the work with all materials required to works completion.

Departmental free issue materials: Water and electricity will be made available free of cost.

Completion period: The Vendor shall note that the time is essence for this project. As such, the bidder should indicate the best completion period in the proposal. It is intended that the entire work shall be completed within 04 (Four) calendar months from the date of issue Work order.

Drawings: - List of Drawing: -

Sr. no.	Drawing No.& Title	Job
1.	RO feed pump piping No. BARC/DD/MTS/SWRO/P01	Fabrication & Installation of pumps & pipes
2.	SWRO Product piping lay out No. BARC/DD/MTS/SWRO/P02	Laying of product transfer line
3.	UF backwash system No. BARC/DD/MTS/SWRO/P03	Replacement of backwash pumps
4.	SWRO plant enclosure No. BARC/DD/MTS/SWRO/P04	SWRO Plant enclosure
5.	Lay out of work Drawing No.:DD/MTS/SWRO/05	Plant lay-out

The drawing annexed in the tender is the property of Bhabha Atomic Research Center, Mumbai and should not be used for any purpose other than specified in this tender document without the written permission from the purchaser.

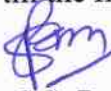
Note: Minor changes/modifications in the drawings, if any, shall be communicated to/by the party. However once the drawings are approved for fabrication, no further changes shall be allowed.

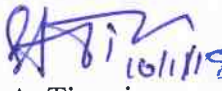
Inspection: Jobs at site will be closely monitored and supervised by departmental Engineer and has to be up-to the satisfaction of the Engineer.


Security and Safety Procedure: The contractor shall arrange latest police verification certificates for his staffs. Please note that without valid police verification certificate, the Vendor will not be permitted to take up any site work. The Vendor must follow all the security rules and regulations of BARC while working at site, which are quite stringent. The Vendor shall adhere strictly to the work procedure stipulated at site, also follow the safety procedures.

Material Specifications: Procurement of all the materials shall be within the scope of the manufacturer conforming to relevant IS standard. All the materials shall be new and first class in all respects and free from corrosion, flaws and other objectionable imperfections.

Site Clearance Certificate: Scrap/garbage generated during the execution of work order is to be cleared-off by the contractor. A certificate in this regard has to be obtained from the indenting officer along with job completion certificate. 20% amount of the work order value will be held back till the final disposal of scrap/garbage from the site.


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