



GOVERNMENT OF INDIA
BHABHA ATOMIC RESEARCH CENTRE
CHEMICAL ENGINEERING GROUP
DESALINATION DIVISION

Ref: DD/PDUS/ ELECT/F&R-/ 2018

Date 27 -07-2018

To,

Sub: Invitation to submit your quotation

On behalf of the President of India, **Head, Desalination Division, Chemical Engineering Group (CHEG)**, Bhabha Atomic Research Centre invites lowest quotation in sealed envelope for the work given below as per the technical specifications enclosed herewith.

Sr. No. Period.	Description of Job	Completion
1.	Shifting and installation of 3 Nos. of electrical control panels of 5 months from the boilers inside the control room cabin and power cable installation for the same at Steam Generation Plant and miscellaneous electrical installation work at Desalination Division.	date of issue of Work Order.

Detailed technical specification and scope of work is given on ANNEXURE I

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 with quotation.
 - 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 of ongoing jobs inside BARC premises with expected completion period shall be provided.
 - 1.4 Interested bidders shall contact the undersigned on Phone No. 2559 4747 (Ext. No. 24747) 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 along with **Due Date**.
3. The complete quotation shall reach the following address before **13.00 hrs on 17/08/2018** by **Registered Post / speed post only**. The quotations will be opened on the same day in Desalination Division, BARC between 14.00 to 16.00 Hrs. The address on envelope should read as follows.

Head,
Desalination Division,
Bhabha Atomic Research Centre,
Trombay, Mumbai- 400 085

Attention : S. S. Chavan, SA/D

4. **Printed 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/break-up basis as per the scope of work** along with applicable taxes. Quotation price format will be like Rs..... (Basic lumpsum cost) + Rs.....applicable taxes (GST) = Rs.....(Total cost).
8. **Offer of Firm:** Offer of those bidder, 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. **Payment Terms:** Accounts Division BARC Mumbai-400085 shall make full and final payment only after submission of the satisfactory work completion certificate & site clearance certificate issued by the undersigned, bill, guarantee certificate, delivery challan and advanced stamped receipt. No advance is admissible.
12. **Income Tax Recovery Clause:** Income tax @ 2% will be deducted from the bill.
13. 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.
14. **Penalty:** Any delay which attributable to the contractor is liable for penalty @ 0.5 % per week (max 5 %) to be imposed on contractor.
15. **GST/PAN Number:** Quotation must contain the GST and PAN number of the firm
16. **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.
17. **Details of free issue materials/facility:** Following material will be provided from departmental side as well as water and electricity will be made available free of cost.
 1. 4C x 4 Sq. mm. size Copper conductor, Armoured power cable – 500 mtrs.
 2. 24" sweep, Air circulators fans- 6 Nos.
18. **Safety 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.
19. **Security Rules :**
 - a) Police verification certificate are required for supervisors and laborers deployed at the site.
 - b) Security and transportation rules at BARC, Trombay premises shall be strictly followed.
 - c) Laborers below 18 years of age shall be not allowed to work at site.

20. The buy-back arrangement shall be followed, wherever applicable, for the disposal of scarp/garbage, redundant stores and debris etc.
21. The contractor should ensure that the scarp generated at the work place during the course of the work should be carried safely to the designated place at BARC. The job completion certificate will be issued only after clearing of all such material from the work premises of BARC.
22. **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.
Housekeeping at the work place during the course of the work is the sole responsibility of the contractor.
23. **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

(S Schavan)
SA/D
PDUS, DD, BARC

Approved,

(Mrs. S T panicker)
Head, PDUS, DD

ANNEXURE -I

Name of Work - Shifting and installation of 3 Nos. of electrical control panels of boilers inside the cabin and power cable installation for the same at Steam Generation Plant and miscellaneous electrical installation work at Desalination Division..

Location: Steam Generation Plant of Desalination Division, BARC, Trombay, Mumbai-400 085.

Scope of Work

A) Supply of Material :

- (i) M S angles 40 x 40 x 6 mm size for fabricating frame & cable tray support, Qty. – 50 Mtrs.
 - (ii) 300 x 75 mm size G I Perforated cable trays, Qty. – 30 mtrs.
 - (iii) 4C x 4sq. mm. Aluminum Stranded conductor, XLPE insulated, PVC ST2 inner sheathed, galvanized steel round wire armoured, FRLS PVC outer sheathed, LV Power Cable, Polycab/R R kabela/Finolex/HavellsMake Qty. – 200 mtrs.
- (iv) 16 pair x 1 sq. mm. copper stranded conductor, XLPE insulated, individually and overall Shielded, Armoured, PVC FRLS outer sheathed , control cable, 650 Volts rating, Polycab/ R R Kabela/Finolex/HavellsMake Qty. – 200 mtrs.
- (v) M S powder coated (Simens grey color) box along with 20 Amp terminal blocks fixed inside, size of box 600 x 600 x 250 mm, Qty. – 1 No.
- (vi) M S powder coated sheet, 2 mm thickness, approximate size 2 mtr x 1mtr – 1 Sheet.
- (vii) LED flood light fixture, Cool white light, IP 65/66 protection, 120 watts, 230 Volts, Philips/ Syska/ Wipro make, Qty. – 6 Nos.
- (viii) LED street light fixtures, cool white light, IP 65/66 protection, 90 watts, 230 volts, Philips/Syska/Wipro make, along with G I pipe of 48 to 60 mm dia of 1mtr length For Street light support With base plate for fixing on wall Qty. - 6 set.
- (ix) Power supply Box for AC unit along with 20 Amp metal clad socket& 3 pin top – 2 Nos.
- (x) Glands, lugs, casing capping ,earthing wire, single core cu. wire (FRLS) etc – as per scope.

B) Installation Work :

1. Shifting, Installation and commissioning of 3 Nos. of control panels of boilers.:

Removal and dismantling 3 nos. of 750 x 550 x 400 mm size electrical control panels from existing location along with all incoming and outgoing power/control cables at panel ends. Shifting of these three panels inside the control room cabin. Installation of these panels on suitable frame fabricating from M S angles of size 40 x 40 x 6 mm. Frame should be painted with black color before fixing of panels on it. Frame should be installed with proper grouting in wall and on floor. All material required for fabrication and installation of frame and installation of panels is in the scope of contractor.

2. Removal & dismantling of all existing power / control cables of these electrical control panels.

Removal of existing incoming and outgoing cables of these control panels from existing cable trays. Dismantling of termination of cables at MCC panel end, at junction box end at control panel end is to be carried out. Approximate total length of cable removal is 500 mtrs. Maximum size of cable is 4C x 35 Sq. mm. Removal of approximate 10 nos. of old lighting fixtures which are not in operation and its conduit pipe.

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3. Installation of cable trays & laying of power /control cables.

Installation of 30 mtrs. of cable trays with suitable M S angle supports. Support should be painted with black colour before fixed on wall. Spacing between two support should be kept at least 1.5 Mtrs. Cable tray size slot should be made on wall to enter cable tray inside the cabin.

All incoming and outgoing cables should be laid on existing and new installed cable trays. Total length of cable laying is approximately 600 mtrs. Main Incoming supply should give to all three panels from MCC panel by using 4C x 25 sq. mm. Al. power cable and outgoing cable 4C x 4 Sq. size cu. power cable and 16 pair x 1 Sq. mm. size control cables are terminated at junction box which is fixed on boiler itself. Termination of all cables at both ends by using proper size glands and lugs along with earthing wire for provision of earthing to installation. Only 4 C x 4 Sq. mm. cu. power cable was issued from department side, other total material cables and proper size earthing wire, glands, lugs etc was supplied by contractor.

4. Installation of junction box and other installation work. :

- One no. of junction of box of size 600 x 600 x 250 mm size is to be fixed on one boiler on suitable M S angle frame.
- Fixing of 6 nos. of 120 watt LED flood light fixtures & 6 Nos. of 90 watt street light fixtures on M S pipe support and provision of power connection to them at boiler house and other location of Desalination Division.
- Minor changes / modification in existing telephone line conduit, casing capping, power supply boards, lighting fixtures and fans in control room cabin as per site requirement for clear area for fixing of control panels.
- Minor installation works as per site requirements.
- Installation of 2 nos. of AC power supply box in cabin along with casing capping & wiring work in it. Supply of AC box with 20 Amp metal clad socket and 3 pin top, casing capping & suitable size single core Cu. FRLS wire is in the scope of contractor.
- Installation of 6 Nos. of 24" air circulator fans in boiler operating area these fans will be provided by departmental side.
- Repairing of 10 Nos. of 250 watt MH flood lights fixtures at different location of Desalination Division.

Note : As these 3 boilers are in operation, work should be carried out without disturbance to the operation of boilers.

(SSChavan)

Officer Initiating the Proposal

SA/D, PDUS, DD