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सत्यमेव जयते

भारत सरकार  
GOVERNMENT OF INDIA  
भाभा परमाणु अनुसंधान केंद्र  
BHABHA ATOMIC RESEARCH CENTRE  
रिएक्टर इंजीनियरिंग प्रभाग  
REACTOR ENGINEERING DIVISION

हाल - 7,  
ट्रोम्बे  
मुम्बई - 400 085,  
HALL No. 7,  
TROMBAY,  
MUMBAI - 400 085

Ref.: - RED/PP&ESS/RRS/34 /3FS/MF/2022/ P-55042

25 July, 2022.

### Sub: Invitation to quote

Dear Sirs,

1. Sealed quotations (**In two Parts**) are invited by undersigned for and on behalf of the President of India from the experienced contractors for the **repair work** as per the requirements given in the technical Specification (*Annexure-I*).
2. Tender should be in a sealed cover (containing **two envelopes, one for technical and another for Price bid**) and super-scribed as "**Repair Work**" and should indicate this office Ref. No. and due date clearly. The quotation shall be complete in all respects with regard to price, specifications, completion period, validity of the offer, etc. and must reach on or before **05/08/2022 by 16.00 Hrs.** The quotation shall be on printed letter head mentioning complete address, Phone numbers, fax number, PAN number/ GST registration/TIN etc., without these details, quotation will be liable for rejection. The envelope should indicate this office Ref. No. and due date clearly. The sealed quotation should be addressed to undersigned and should be sent through Speed Post Only so as to reach his office before due date

I. **SCOPE OF THE WORK:** Please refers to the enclosed *Annexure-I*, which describes the detail specifications & scope of the work.

II. **FREE ISSUE MATERIALS:** As per technical specifications *Annexure-I*.

### III. GENERAL INSTRUCTIONS

- 1). The earliest period by which the job can be executed in totality should be clearly stated in the quotation and such period should be strictly adhered to in the event of a work-order. However, the entire work is to be completed within **6 (Six) months** reckoned from the 5th day after the date of issue of the work order, depending on the site availability.
- 2). Taxes, duties, if any, applicable shall be indicated separately.
- 3). Please note that the goods proposed to be fabricated based on this NIT (Notice Inviting Tender) is meant for the Research Institution under the Dept. of Atomic Energy. The purchaser will make available (**if required and applicable**) to the successful bidder with whom a work order is placed the GST exemption certificate duly signed by the authorised officer in the Dept. of Atomic Energy well before the dispatch of the goods by the supplier.
- 4). **Place of work:** Engineering. Hall No. 3 & 7, Trombay, Mumbai-400085.
- 5). Inspection as per specification shall be carried out departmentally after the completion of the work to the satisfaction of the Engineer in-charge. Inspection regarding the work according to specification, checking of the site etc. will be carried out continuously by the Engineer in-charge or his authorised representative.
- 6). The contractor shall have to maintain the area assigned to him for the work very clean and shall follow the instructions of Engineer in-charge in this regard. All equipment/tools etc. are to be removed and cleaned the area after the end of the day's work.
- 7). The bidders have to visit and inspect the site compulsorily before quoting. The site visit appointment can be obtained (*with PVC and work experience certificate*) from our engineer **Shri R. R. Singh through email only – rrsingh@barc.gov.in.**



- 8). Payment will be made by cheque/ECS after satisfactory completion of the work as per Government rules. Income Tax @ 2% will be deducted from the bill.
- 9). Bidder shall note that BARC is final consumer of the goods/services procured and does not intends to make any outward supply. BARC will not avail the benefits of input tax credit and hence, the good can be supplied without quoting the GSTIN of BARC, Mumbai on invoice. The invoices taxed under GST, as per rates applicable under the GST schedule of rates, will be admitted for payment.
- 10). **GSTN Invoice**: The invoice raised by the registered supplier of taxable goods/services along with other details specifically indicating: GSTN, PAN, Location of supply, tax component to be separately indicated.
- 11). An undertaking shall be furnished by the registered supplier that the GST has been promptly deposited with the authorities.
- 12). Recovery of TDS on GST in case of payment of invoices for supply under contract exceeding Rs.2.50Lakhs.
- 13). With your offer please furnish the detailed information regarding whether an ex-employee of BARC is working in your organisation or whether any of your relatives is working in DAE/BARC or you are an ex-employee of DAE/BARC. In absence of such information or wrong information, the quotation or contract is likely to be rejected/cancelled.
- 14). **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 the party with equal force.
- 15). **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.
- 16). **Prohibition against use of BARC's name without permission for publicity purposes**: 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, T.V. or Internet without prior approval of BARC.
- 17). **Safety Precautions**: The contractor will follow all the good industrial safety rules required during the execution of work. He will have to compulsorily follow other safety instructions issued by engineer-in-charge from time to time. The contractor shall provide all safety gears to their workmen at site and all safety rules shall be strictly followed. Any injury/ accident caused to their persons while working inside BARC shall be the full responsibility of the contractor.
- 18). **Police Clearance**: The bidder shall note that entry inside BARC is restricted and it is compulsory for contractor to get police clearance (*as prescribed by security section of BARC*) for all his staff who will be entering BARC for work.
- 19). The work can be carried out on all working days between 9.30 hrs to 17.30 hrs.
- 20). The offer shall be kept valid for a period of 60 days from the date of opening of the tender.
- 21). Purchasing authority reserves the right to alter the quantity while placing the order.
- 22). **Department reserves the right to accept or reject any or all the quotations received without assigning any reasons whatsoever.**



(D. S. Bisht)

**Scientific Officer - G**

For and on behalf of President of India

Encl. : (Annexure - I),



## Technical Specifications

(Part-I)

### Scope of work:

Repairing of electrical fixtures, equipments and distribution panel etc. at office rooms of Engineering Hall No. 3 & 7.

#### Scope of work also includes:

- (i) Disconnection, removal and disposal of fan, lights etc.
- (ii) Removal and disconnection of existing aluminum conductor, PVC insulated, armoured cable.
- (iii) Fabrication of MS supports structure & painting as per site requirement.
- (iv) Termination of incoming and outgoing feeders cables of various sizes.
- (v) Repairing, Checking, and testing of distribution board at site.
- (vi) Loading and unloading of material at site.
- (vii) Other miscellaneous works required at site.

### Description of work:

#### (A). Repairing of Lighting Fixtures

- 1) Fluorescent/LED lighting fixtures, CFL lighting fixtures (*items listed in table-I below*) shall be checked for their physical condition (*before starting the repairing*) and electrical power supply system, *if fixture found* defective the same shall be repaired including the replacement of components such as ballasts, starter, lamps, capacitor *etc.* The department will provide the components being replaced **free of cost** to the contractor.
- 2) Contractor shall ensure that the power supply to the fixtures is totally switched 'OFF'/isolated and tagged, before starting the repairing work on the fixtures.
- 3) Contractor shall cover (with plastic sheet or cloth- *in scope of contractor*) the important equipment, machines, computers and office tables located inside the office rooms, so that they will remain protected from the dust etc during the course of repairing and testing. After completion of day's work, contractor shall clean the work area.
- 4) Lighting fixtures shall be thoroughly cleaned after repair and installation at site, with a dry cloth after that soap water soaked cloth shall be used to remove the stains and sticky materials. The lighting fixtures shall be completely dried with clean dry cloth. The buckets, detergent/soap solution and dusters will be supplied by the department free of cost.
- 5) Lighting fixtures shall be installed back (after repairing, complete checking, testing) to their earlier position and demonstration of the working condition after the completion of day's work shall be shown to engineer in-charge.
- 6) Reflectors of the lamps fixtures shall be removed & fixed as per the original mounting with care without damage to the fitting. Down rod and lamp shall also be cleaned and tightened. The ladders of adequate height (with proper non-slippery foot pegs) **for electrical work** shall be arranged by the contractor themselves. The overhead travelling crane with platform for repairing of highbay/loopbay LED lighting fixtures will be provided by the department wherever required.



## **)). Repairing of Electrical Equipments**

### **1200/1400mm Sweep Ceiling Fans.**

1. Ceiling fan shall be checked for bearing conditions (if required shall be replaced), connection with ceiling rose, earthing, capacitor and safety wire ropes. Blade alignment and balancing shall be checked and rectified (if found defective). After repairing and servicing fan body and blades shall be cleaned with dry cloth. Before installation to the original location, fan shall thoroughly checked for mechanical and electrical conditions. Parts and components required for the repairing will be provided by the department free of cost to the contractor.
2. All parts of the fan such as canopy, down rods, frames, finger guards, *etc.* shall be thoroughly checked and tightened. Operation of the fan shall checked at installed location and afterwards fan and assembly shall be cleaned with dry clothes only. Soap water soaked cloth also may be used to remove stains from the fan motor with proper care.
3. The safety rope provided on the ceiling fan shall be checked for tightness, if safety rope is not available on the ceiling fan, then new safety rope shall be provided to the ceiling fan. The safety rope with accessories will be provided by the department to the contractor.
4. Ventilating fans shall be checked and tested in installed position as per the above-mentioned procedure for defective parts and components. However the nuts and bolts/screws of the fan motors and frames shall be checked and tightened.

Contractor shall install 1200/1400mm sweep, BLDC/Split phase motor Ceiling fan provided by the department, at the designated places, specified by the *Engineer In-Charge*. The ceiling fans shall be secured with wire rope tied to the hook for additional safety. The ceiling fan shall be checked and tested for its operation after installation, in front of purchaser or his authorized representative. The existing ceiling fan shall be removed and disposed-off as per the instruction of Engineer In-charge.

### **300/450mm Propeller type Exhaust fans.**

Contractor shall repair existing 300/450 sweep, Single/Three Phase propeller type exhaust fans installed, at the designated places (*2.5 to 3.5 meter height*) in above mentioned premises. Fan blade, (capacitor, if available), wiring, connections shall be tightened and replaced (if found defective). Bush-bearing shall be checked, oiled and greased as per approved procedure. Bearing puller and other tools required for repair work shall be brought by contractor on returnable basis. The exhaust fans shall be secured with stainless steel hardwares and rubber packing (*shall be replaced if found defective and deteriorated*). The exhaust fan shall be checked and tested for its operation after installation, in front of *engineer in-charge* or his authorized representative. If exhaust fan found defective, then it shall be removed from the position and *disposed-off* as per the instruction of *engineer In-charge*.

## **(C). Repairing and servicing of Electrical Switchgears/boards**

Contractor shall provided qualified technicians (**Skilled -04 Nos. and Unskilled – 02 Nos.**) for a period of **six months** to carry out the day to day electrical repair works on daily basis **as per the working hours of department and site location**. The maintenance work includes repairing of lighting switchboards, power points outlets, A/c power point outlets, distribution boards and other electrical equipments. The components and material required



for the work will be provided by the department free of cost to the contractor. The contractor has to maintain the attendance of the technicians and the work carried out by them regularly. Technician provided by the contractor will be subjected to **test at site and liable for rejection**, if found unsuitable for the job. The technicians selected/approved for the work cannot be replaced without prior approval from the engineer in-charge. Repairing, servicing and testing procedure and protocols will be provided by the department at the time work execution to the successful bidder. Procedure and protocol provided by the department shall be followed strictly as per the instruction and guidelines of engineer in-charge. Repairing and servicing records and logs shall be prepared and updated as per the guidelines issued by the engineer in-charge.

#### Other requirements:

- 1). **Inspection & Testing:** Equipment and panels will be checked and tested after repairing for electrical and mechanical function and parameters. Any abnormal performance and parameter found shall be corrected and again operational function shall be checked and tested to the satisfaction of *engineer in-charge*.
- 2). The responsibility for the safety of technician and labours lies with contractor. However, contractor shall follow the instruction issued by the *engineer In-charge* with respect to the safety of personnel. The personnel working at height (more than 4') shall use the personnel protective equipments (PPE) such as helmet, safety belt etc. which shall be provided by the contractor. The tools and equipment brought by the contractors shall be taken care by the contractor themselves.
- 3). Contractor is liable to compensate for any damage caused to the office equipment and furniture while carrying out the repairing and testing of lighting fixtures and fans in office rooms and other areas like computer room; operation gallery etc. where costly equipments are accommodated.
- 4). A supervisor from contractor's side should always accompany their technicians and the permission may be sought from the concerned persons before entering into a particular room or area.
- 5). The testing of fixtures and fans shall be carried out before and after installation for their electrical insulation resistance etc.
- 6). The electricity will be provided free of cost, but contractor has to arrange his own extension boards/panel which shall have adequate protection device for short circuit and earth leakage. The power connection will be provided from single point after verifying the condition and status of electrical boards and equipments brought by the contractor.
- 7). **Consumable material to be supplied by the Contractor:** NIL



## (Part-II)

**Table – I** (Schedule of work - **Repair**)

Sr. No.	Description	Qty.
<b>A.</b>	Repairing/Servicing of Lighting Fixtures	
1.	Lighting fixture-2x20/40watt Industrial type/ with M.S Canopy and down rods/decorative type with diffuser/ weather proof with glass cover installed on ceiling, on I beam, on walls, false ceiling etc.	550 Nos.
2.	Lighting fixture-1x40/18watt Industrial type/ with M.S Canopy and down rods/decorative type with diffuser/ weather proof with glass cover installed on ceiling, on I beam, on walls, false ceiling etc.	150 Nos.
3.	Lighting fixtures - 2X36watt CFL	30 Nos.
4.	LED Lighting fixture (square 2'X2')	150 Nos.
5.	50W LED Low bay Lighting fixture with canopy	40 Nos.
	Repairing/Servicing of Ceiling fans & Ventilating fans	
6.	Ceiling fan - 1200 mm /1400mm Sweep	230 Nos.
7.	Ventilating fan 250mm (10") Sweep.	12 Nos.
8.	Exhaust fan - 300mm (12") Sweep.	12 Nos.
9.	Pedestal fans - 450/600mm Sweep.	15 Nos.
<b>B.</b>	Repairing and servicing of switchboards and panels	
	Servicing of electrical switchgears and components - 6+16 Socket outlets (200 Nos.), MCB Distribution Boards (30 Nos.), Light and Fan Switch Boards (80 Nos.), 20 Nos. of Free standing Panels, 25 Nos. of PCC/MCC and other miscellaneous works.	01 Job

Additional work not covered by the scope of work (as mentioned above), has to be executed by the bidder which shall fall within the envisaged + 10 % variation of the work.

**Note to Bidders:** The offer will be considered on the basis of overall total cost including taxes, duties etc. for all the items mentioned above. *If any* one of the item is not quoted, the offer will be considered incomplete and hence rejected.



## GENERAL TERMS & CONDITIONS

1. The completion time period from the date of acceptance of purchase order/work order will be six months and same shall be stated in the offer.
2. Bidder shall provide along with their offer following documents/details of employees.
  - (i) Electrical Contractor's License
  - (ii) Provident fund.
  - (iii) Insurance/ESIC.
  - (iv) Wage/emolument statement.
  - (v) Qualification details
  - (vi) Police Verification Certificate.
  - (vii) Past experience.

If the above stated documents are not available with the offer, offer will be liable for rejection without giving any reason.

3. Bidders shall go through the technical specifications and provide in the offer **point by point compliance**. The technical deviations, (if any) shall be indicated clearly in the offer. Kindly note that no further communication will be made to get the technical clarifications. The offers without this information will be rejected without any consideration.
4. The cost evaluation of the offers will be carried out on the overall basis. Hence vendor shall consider all the expenses towards all items, taxes, loading, unloading, transportation, manpower boarding/lodging, guarantee etc. while quoting. The individual/breakup cost is not required, but taxes shall be quoted separately.
5. The contractor shall bring his own tools, tackles, ladders etc. required at site for installation work. Department will not provide any tool/tackles at site. **Contractor's personnel shall always wear the safety shoes, helmet and high-visibility clothing at site.**
6. The electricity and water required at site (for very small tools/tackles like drilling/cutting machine) will be provided to the contractor at a single point, from where contractor have to make his own arrangement through extension boards etc. Prior to connection of electrical equipments contractor have obtain written clearance from Engineer in-charge.
7. The technician required to carry out the electrical work shall be skilled and have requisite qualification/certificates. The documents are to be provided (in original) to engineer in-charge, before commencement of work at site. Unqualified/unskilled technician/**workers will not be allowed to work at site.**
8. All the safety precautions as per applicable code and practices shall be followed at site. The PPE shall strictly be used by workers while working at site. The safety instructions issued by engineer in-charge shall be followed in all respect. The contractor will be responsible for any injury/accident occurring at site, due to any reason, department will not pay or liable for any compensation.
9. The site is restricted area and permission to the personnel coming inside the premises for installation work, require security clearances. Hence firm has to obtain Police Verification Certificates (PVC) from Police Commissioner Officer (not local police)/District Magistrate office, for all the persons coming inside the premises for work.
10. Firms who have not worked inside the DAE units (BARC/NPCIL) in past have to go through vetting procedure as prescribed by the Security Section.
11. The entry passes for personnel coming inside premises are made by *Security Section* and require **local residence proof (Mumbai/Thane)** & identification proof along with PVC.