

Government of India  
Bhabha Atomic Research Centre  
Nuclear Physics Division

Ref: BARC/NPD/works/2017/824

Date: 18 August, 2017

**Sub: Fabrication, installation, commissioning and testing of one Electrical Distribution panel as per specifications**

On behalf of President of India, quotations are invited for fabrication, installation, commissioning and testing of one electrical distribution panel as per attached technical specifications.

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) not expiring during the tender period. The list of manpower to be utilized by firm shall be submitted along with their details of PVC (and any other certificate as demanded by the BARC security) to the indenting officer.
- 1.3 Workers/labourers given by the vendor should be well experienced in fabrication, installation and commissioning of similar type jobs.
- 1.4 All workers/labourers of the Vendor/Contractor employed for execution of job in this tender should have proper Personal Protective Equipment (PPE), the arrangement of which shall be made by Vendor/Contractor.
- 1.5 The vendors shall be evaluated based on their experience in successfully carrying out similar type of jobs within BARC premises. The past experience of the firm in carrying out works of a similar nature in BARC/DAE shall be made available in the form of Work Order copy and copy of a satisfactory completion certificate from the user. Also the list of jobs currently in progress inside BARC premises with expected completion period shall be provided.
2. Bidder shall quote for deliverables as per technical specifications. The quotation has to be signed by authorized person with company seal.
3. **The quotation must reach The Head, Nuclear Physics Division by September 11, 2017 (12:00 Noon) and must be sent in a sealed envelope super scribed with the reference number & the due date given above. Couriers are not allowed in BARC premises, the quotation shall be sent by speed post/registered post.**
4. The address on the envelope should read:

**The Head,  
Nuclear Physics Division,  
Van-de-Graaff Bldg., North Site  
BARC, Trombay,  
Mumbai -400 085.  
(Kind Attn: Shri Shardul Goel, SO/C)**

5. The bidder shall complete the job within 60 days from the date of firm work order issued to the bidder. It will be the responsibility of the bidder to arrange for transport & deliver the finished components at **Nuclear Physics Division, BARC, Trombay, Mumbai -400 085. Further, it will be the responsibility of the vendor to conform to various rules and procedures pertaining to availing of permission required for transporting the material inside BARC.** The installation, commissioning and testing of Electrical distribution panel as per specifications shall also be carried out by the vendor at customer site.
6. Head, Nuclear Physics Division reserves the rights to accept / reject any or all quotations without assigning any reason.
7. Delivery, packing, freight charges and manpower charges for installation & commissioning if any must be clearly mentioned in the offer. Quotation must also indicate the validity of offer. Quotation must also indicate the GST TIN, VAT no and PAN no of the party, sales tax registration number registered with the local ST authority/CST authority etc. Taxes and Excise Duties shall be quoted separately. Excise duty exemption certificate, if required shall be provided.
8. No Free Issue material is involved. All fittings, devices, materials, tools, equipments that are required for the installation and commissioning have to be arranged by the vendor. A list of such items to be brought inside BARC needs to be submitted to the indenting officer for purposes of issuing the gate pass. Vendor may please note that the customer will not be in a position to arrange for the required fittings, material, tools, equipments, devices that are required for the installation and commissioning.
9. Payment (as per Government of India, BARC rules & procedures) will be made only after satisfactory completion of work on production of bill, delivery challan and advance stamped receipt.
10. Vendor shall have to provide full scope warranty for a minimum period of 12 months from date of completion of the work.
11. Safety and Security: The vendor shall follow all the safety procedures as per normal industrial practice. Any mishap occurring during the work due to unsafe workmanship shall be vendor's liability.

*Shardul Goel*

Shardul Goel  
SO/C, NPD  
sgoel@barc.gov.in

Encl.: Technical Specification

**Scope of Work:**

1. Design, fabrication, shop testing, supply, installation, testing and commissioning of floor/wall mounting cubicle panel.
2. Supply and installation of Power Cable of cross-section area of 120/150Sqmm or higher (capable to supply 120 kVA at 415 V phase to phase voltage) and length 100 meters (approx).
3. Supply of power cable and power point wiring for a 60 kVA load from the cubicle panel as per site requirement (10 meters cable length approx).

**Specifications of Distribution panel:**

The distribution panel should conform to the following specifications.

1. Panel should be for distributing 5 wire, 3 phase and 3 wire, 1 phase power.
2. The Maximum incoming capacity is of 120 kVA.
3. Distribution panel (along with circuit breakers) should have capacity for following loads
  - (i) 01 nos 60 kVA, 3 phase load
  - (ii) 01 nos 20 kVA, 3 phase load
  - (iii) 01 nos 10 kVA, 3 phase load
  - (iv) 06 nos 15 A, 230V (1 phase) points with provision for 5 A plug points.
4. IP 55 protection or better, IK 08.
5. Reduced depth for optimum space saving.
6. Easy and reliable equipment installation through the functional uprights integrated at the back of the cabinet.
7. Possibility of joining (between 2 enclosures or between the enclosures and the cable sleeves) for greater wiring capacity.
8. Perfect finish and protection index IP 55 or better with the metallic or glass doors.
9. Tested as per IEC 61439-1 with circuit breakers.
10. All metallic parts are permanently earthed making it safe for use during the operation. The uprights, doors, faceplates, side, back & top covers are earthed with earth link to the nearest earthing point.
11. Power cables should be armoured, well insulated, water resistant, fire resistant low smoke type.

**Miscellaneous**

- The Purchaser reserves the right to make changes, revisions to schematics/drawings even after release in order to reflect improvements/additional data/details received and more updated requirements. Revision to schematics/drawings and any new drawings made to include additional work by Contractor shall be considered as part of this specification contract and shall be carried out without any additional cost implication to the Purchaser.
- All fittings, devices, materials, tools, equipments that are required for the installation and commissioning have to be arranged by the vendor. A list of such items to be brought inside BARC needs to be submitted to the indenting officer for purposes of issuing the gate pass. Vendor may please note that the customer will not be in a position to arrange for the required fittings, material, tools, equipments, devices that are required for the installation and commissioning.

*Shardul Goel*