

Bhabha Atomic Research Centre
Atomic Fuels Division
Technical Services Section

Ref.AFD/TSS /VP/19/10212

Date 11/04/2019

Sub: Tender enquiry for Fabrication, Supply, installation testing commissioning of electrical power distribution panel with miscellaneous electrical work at AFD.

Sealed quotations are invited for and on behalf of President of India, Fabrication, supply, installation, testing and commissioning of electrical power distribution panel with miscellaneous electrical work at AFD. as per Specifications and scope of work given below.

I. Scope of Work:

Sr. No	Description	Qty.
1.	Fabrication, Supply, installation testing and commissioning of new electrical Power Distribution panel with miscellaneous electrical work at AFD.	Qty and specifications as per Annexure -I

II. Other details:

- 1) Offer should be valid for minimum 90 days otherwise it will be rejected.
- 2) Only the lumpsum prices to be quoted.
- 3) The completion period of this job should be within 3 months from the date of issue of work order.
- 2) Persons having valid PVC will be allowed to enter BARC to execute the job.
- 3) Warranty period should be 12 months after completion of work.
- 4) The payment will be made after the satisfactory completion of the work.
- 5) Income. Tax and S.C. as applicable will be deducted from the bill. .
- 6) Any delay which is attributed to the contractor is liable for penalty @1/2% PER WEEK (MAX 5%) will be imposed on contractor.
- 7) The offer shall be forwarded as per following guidelines:

Quotations are to be on printed letter head / quotation format which should consist of Sales tax registration number registered with local ST authority/CST authority, PAN of the firm, service tax registration number etc. computer generated Quotation shall be considered as invalid & rejected.

Sealed offer with tender no and due date legibly written on the sealed envelope should reach through speed/register post on or before **29/04/2019**

To,
Smt. Vaishali Patidar
Atomic Fuels Division
South Site, BARC
Trombay, Mumbai 400 085.
Email: vrb@barc.gov.in

The contractor shall have to visit the site to comprehend the scope of work and equipment condition. The same will be arranged by the undersigned. The site can be visited between 22/04/2019 to 24/04/2019 on working days between 10:30am to 4:00 pm. however prior intimation of at least three working days is necessary.

The quotation submitted without site visit will not be considered.

Details and Confidentially & Publicity Clause

I. 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-contractor, consultant, adviser or employees engaged by a party with equal force

II. “Restricted information” categories under section 18n of the Atomic Energy Act, 1962 and “Official Secret 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 consequence under the aforesaid legislation.

III. Prohibition against use of BARC’s name without permission for the publicity purpose:-

The contractor, 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 the prior written of BARC. Contractor shall obtain Police verification certificate for all his employees including his supervisors and workers engaged in the work.

(Vaishali Patidar)
TO/C, TSS

(Surendra Kumar)
SO/H, TSS/AFD
For & On behalf of President of India

Description of items	Qty
<p>Dismantling of old panel and Supply, installation testing commissioning of new electrical Power Distribution panel. -1No.</p> <p>Specification for Construction of Panel :</p> <ul style="list-style-type: none"> • Panel shall be free from dents, waviness, warp ages and sharp edges / corners. • Lifting hooks shall be provided. • All the fabrication work shall undergo seven tank process of pre-treatment. • Provision for Cable entries from bottom / top as desired shall be made. • Panel Dimensions shall be as max 1800 mm (H) X max 1500 mm (W) X max 600 mm (D) • Panels shall have Fire retarding Neoprene Gasket to make them dust and vermin proof. • Earth Bus with Ground studs with suitable nuts, washer shall be provided for purchaser's earth trip termination. • Duly Engraved Aluminum or BWB sandwich sheets type of Name Plates wherever required shall be provided as per descriptions required. • All hardware shall be Cadmium plated • Partition pole: 1.6mm CRCA • Frame work: 2mm CRCA • Doors and Covers : 2mm CRCA • Base frame: 3mm M.S.Sheet. • Gland Plate: 3mm M.S.Sheet. • Painting: powder coated Siemens grey • Labels: acrylic front engraved black block letters, white background. • Degree of protection : IP-54 • Cable entry : Bottom/TOP • Front access only. • Incomer 4 Pole MCCB of required current Rating of 250A with Incoming Supply LED type Indication lamps with Digital Multi Function Meters A,V,Freq, PF,.KW,KVAR WITH CTs etc. and Indication Lamps with MCB/Fuses etc. shall be incorporated. • Outgoing feeder: 125 A 4P MCCB –2 Nos. 63 A 4P MCB – 3 Nos. 32 A 4P MCB – 3 Nos • Padlocks and Interlocks to the requirements shall be provided. • Bus bars shall be of Electrolytic grade high conductivity Copper (Size30x6mm OR Equivalent Size) of continuous current rating of 250 A supported on non hygroscopic Epoxy / SMC supports. Absolute Temperature of Tinned Busbars Joints shall not exceed 90deg. C considering ambient of 45 deg. C. Busbars shall have SC Ratings of 35KA or more. Busbars shall have Heat shrinkable sleeves with proper identification. Copper Horizontal Earth Bus size 25x 3mm with two nos. earth studs with suitable nuts washers etc. shall be provided for earth strip termination. Compartment Doors shall be earthed with 2.5 sq. mm flexible wires • Control Wiring shall be done with FR Wires of 1.5 Sq. mm. Size of wires. For CT Circuit shall be 2.5 Square mm. Covering SMC sheets shall be incorporated for protection or direct bus bar contacts. • Suitable Links shall be provided for incoming cables of higher sizes. Space Heaters with thermostat and switch socket for 240 V AC supply shall be provided. • CFL Panel Lighting shall be incorporated. 	1 Set

1) following Tests shall be offered on Panels :-

- a. Visual and Dimensional checks.
- b. Insulation Resistance
- c. High Voltage test
- d. Functional Tests of Components / Equipments and Panels.
- e. QAP shall be submitted for approval.
- f. Stage inspections and Final inspections shall be incorporated.
- g. Test Certificates for major items shall be forwarded.

Note: 1) Removal and dismantling of existing panel is in scope of supplier.

2) Termination of existing cables in the new panel is in scope of supplier.

Supply, laying and termination of 240 sq. mm four core aluminum armored FRLS cable at both ends in the Panel – 60 Mtrs

Fabrication and Supply of modular metal enclosure for UPS and batteries. – 1No.

Size : 1100mm (H) X 600mm (W) X 800mm (D)

Make : VALRACK/Equivalent

Preferred make :

Preferable make of components shall be as follows :

MCCB -Schneider / Siemens/

Lamps – Teknic/Siemens

Meters -AE/Meco/Schneider

Terminals -Elmex / Connectwell

Wires-finolex / RR kables / Polycab