

Government of India
Bhabha Atomic Research Centre
Atomic Fuels Division
Technical Services Section

Ref.AFD/TSS/BP/2017/198528

Date 10/11/2017

Sub: Tender enquiry for Supply, installation and commissioning of bus trunking system along with associated accessories at AFD, South site, BARC.

Scope of Work:

Sno	Description	Qty.
1.	Supply, installation and commissioning of bus trunking system along with incomer MCCBs and associated accessories at AFD, South site, BARC. <ul style="list-style-type: none">• 250 A,415 V,50 Hz : 9 mtrs• 160 A, 415 V,50 Hz : 9 mtrs Detail of the same is given in Annexure-I.	1 set

Other details:

1. The completion period of this job should be within 4 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 @0.5 % Per Week (MAX 5%) will be imposed on contractor.
 7. The offer shall be forwarded as per following guidelines:
 - a) 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 24/11/17

To,

**Mr. Bhupendra Patidar,
Atomic Fuels Division
South Site, BARC
Trombay, Mumbai 400 085.
Email: bpatidar@barc.gov.in**

- b) 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 16/11/17 to 22/11/2017 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.

**(B. Patidar)
SO/E, TSS, AFD
For & On behalf of President of India**

Annexure-I

1. Detail technical specification of bus trunking system along with associated accessories.

Sr. No	Name of items	Qty
1	<p>Supply, installation and commissioning of bus trunking system along with incomer MCCBs and associated accessories</p> <p>Air insulated copper bus bar Trunking system (3P+N) as per IEC60439-1/2 with tapings for outgoings and all supportive accessories for termination, fixation and tapings.</p> <ul style="list-style-type: none"> • Material : Electrolytic copper with purity $\geq 99.9\%$ • Length:- 9 meter • Current rating: 160 A • Voltage rating:- 415V • Frequency: 50 Hz • Peak current rating : 10 kA • Degree of protection : IP55 <p>Accessories:</p> <ul style="list-style-type: none"> • End feed unit : 1 No • End cover : 1 No • Joint cover : 3 Nos • Plug outlet cover : 18 Nos • Hanger bracket : 7 Nos • MS plug in box 63 A IP 55 for MCB (4 module DIN) : 5 Nos • Incomer MCB 160A, 4 Pole 415V, 25kA : 1No. 	1 set

2	<p>Air insulated copper bus bar Trunking system (3P+N) as per IEC60439-1/2 with tapings for outgoings and all supportive accessories for termination, fixation and tapings.</p> <ul style="list-style-type: none"> • Material : Electrolytic copper with purity \geq 99.9 % • Length:- 9 meter • Current rating: 250 A • Voltage rating:- 415V • Frequency: 50 Hz • Peak current rating : 25 kA • Degree of protection : IP55 <p>Accessories:</p> <ul style="list-style-type: none"> • End feed unit : 1 No • End cover : 1 No • Joint cover : 3 Nos • Plug outlet cover : 18 Nos • Hanger bracket : 7 Nos • MS plug in box 63 A IP 55 : 5 Nos for 4P MCB (4 module DIN) • MS plug in box 125 A IP 55 : 2 Nos for 4P MCB (4 module DIN) • Incomer MCCB 250A, 4 Pole 415V, 25KA: 1No. 	1 set
3	Supply, Installation testing and commissioning of incomer MCCBs for above bustrunking along with suitable boxes..	Lumpsum

Note: -

- Spacing between electrical components in bus trucking shall be as per the IEC standard.
- The trucking shall be designed for continuous operation (24 hrs X 7 Days).
- All Electrical components shall comply with IEC standard.
- Complete bus bar shall be fire retardant.
- Provision of protective conductors in bus trunking system.
- Incoming cable termination will be in the scope of supplier.

- The propagation of electric arc along the bus bar shall be prevented by arc barrier or other suitable means.
- All fitting related material have to be arranged by contractor
- No free issue material will be provided for this work

2. Inspection and test:-

- 2.1. Before starting of fabrication, the contractor shall prepare layout drawing of bus trunking system and get approval from purchaser.
- 2.2. Before leaving the manufacturing work, all equipments shall have been inspected and tested and the results recorded in test report.
- 2.3. The manufacturer shall provide test report of each and every electrical components of bus trunking system and submit at the time of inspection.

3. Following test shall be carried out

- 3.1. Visual and dimensional test
- 3.2. Resistance and reactance measurement
- 3.3. Temperature rise test
- 3.4. Insulation resistance test
- 3.5. High voltage test

4. Packing and dispatch

All the equipment shall be divided into several shipping sections for protection and ease of handling during transportation. The equipment shall be properly packed for transportation by ship or rail or trailer. The panel shall be wrapped in polyethylene sheet before being placed in the wooden crates or cases to prevent damage to the finish. This side up, centre of gravity, weight, owner particulars, purchase number, shall be clearly marked on the package together with other detail as per purchase order.