

S. N. BOSE NATIONAL CENTRE FOR BASIC SCIENCES

BLOCK JD, SECTOR III, SALT LAKE, KOLKATA 700 098

NOTICE INVITING TENDER

Ref. SNB/ENG/NIT/13-14/03/010

Dated: 22.05.2013

Sealed Tenders on items rate basis are invited from experienced and resourceful firms for **“Supply, Installation and Testing Commissioning of 200 KVAR APFC Panel”** at Sub-Station Block, of SNBNCBS, Kolkata-98.

1. Name of work: Supply, Installation and Testing Commissioning of 200 KVAR APFC Panel at Sub- Station Block, of SNBNCBS, Kolkata-98.
2. Time allowed for completion: 45 days from the date of issue of order.
3. Earnest Money Deposit: Rs. 9500/- (Rupees nine thousand five hundred only).
4. Availability of Tender Document: Tender document can be down loaded from the Centre’s website: www.bose.res.in. Tenderers may visit the website for latest updates of this tender.
5. Last date and time of submission of tenders: 2.30 pm on 04.06.2013
6. Address at which the tenders are to be submitted: In tender box placed at the Ground Floor of Main Building (Part-B) at S N Bose National Centre for Basic Sciences, Block –JD, Sector-III, Salt Lake, Kolkata-98.
7. Date of opening of tender: 3.00 p.m. on 04.06.2013
8. Place of opening of tenders: At 2nd floor Meeting Room.
9. Defect Liability period: 12 months from the date of actual completion of work.
10. Validity of offer: For a period of 90 days from the date of opening of price bid of tender.
11. Liquidity damages: As per Cl. 14 of tender terms & Conditions.
12. Tender has to be submitted in a sealed envelop along with the EMD and shall contain the offered price with the tender document duly filled and super scribed with the name of the work.
13. Rate of each item should be written in figure as well as in words.

The Centre will not bound to accept the lowest tender and reserves the right to accept or reject any or all the tenders received and to place order one or more firms without assigning any/one reason thereof. The notification of award of contract will be in writing to the successful tenderer by the Centre.

In case the date of opening of tenders is declared as a holyday, the tenders will be opened on the next working day at the same time.

S/d

Acting Registrar
S N Bose National Centre for Basic Sciences

Schedule of Work

Supply, Installation and Testing Commissioning of 200 KVAR APFC Panel at Sub-Station Block, of SNBNCBS, Kolkata-98.

SL. NO.	DESCRIPTION OF ITEMS	UNIT	QTY.	RATE Rs.	AMOUNT Rs.	AMOUNT IN FIGURE	REMARKS
1.	Supply and fixing of 15 KVAR Ultra Heavy duty Capacitor.	No.	13				Siemens/LT make
2.	Supply and fixing of 5 KVAR Ultra Heavy duty Capacitor.	No.	01				Do
3.	Supply and fixing of 32 Amp. 3 pole M.C.B.	No.	14				Legrand make
4.	Supply and fixing of capacitor duty contactor of type MPX-15 for 15 KVAR.	No.	13				LT make
5.	Supply and fixing of capacitor duty contactor of type MPX-5 for 5 KVAR.	No.	01				Do
6.	Supply and fixing of Push button switch.	No.	24				Do
7.	Supply and fixing of LED Indicator	No.	12				Do
8.	Supply and fixing of 0-650 V, 3 Ph Digital Volt Meter with selector switch.	No.	01				AE Make
9.	Supply and fixing of 0-400 AMP. 3 Ph Digital Ampere meter with selector switch.	No.	01				AE Make
10.	Supply and fixing of 14 steps APFC Relay unit which should measure and display of V, I, KVA, KW, KVAR, PF, Current sensitivity 10 mA, type RPM-14.	No.	01				LT Make
11.	Supply and fixing of M.S. base frame for APFC panel made from 75mmX50mmX6mm M.S.	Job.	01				

	Channel including necessary brick wall, trench cutting etc. all complete.						
12.	Final Erection, Testing & Commissioning work.	Job.	01				
13.	Supply and fixing of 150 mm sweep Exhaust Fan.	Nos.	02				
14.	Supply and fixing of Timer unit.	No.	01				
15.	Supply and fixing of Auxiliary Contactor.	No.	01				
16.	Supply and fixing of auxiliary contactor element.	Nos.	16				
17.	Supply and fixing of 6 Amp. DP MCB.	Nos.	02				
18.	Supply and laying of 1100 Volt grade, 3.5 Core 185.0 sq. mm. XLPE, PVC, AL Armoured cable.	Mtr.	100.0				Havell,s/ Polycab
19.	Supply and fixing of 185.0 sq.mm. Cable Gland	No.	04				Dowells make
20.	Supply and fixing of 185.0 sq.mm. flat socket.	No.	12				Dowells make
21.	Supply and fixing of 95.0 sq.mm. flat socket.	No.	04				Dowells make
22.	Supply and fixing of ADD ON BLOCK for 25/15/10/5 KVAR Capacitor duty contactor.	No.	12				LT Make
23.	Supply and fixing of 400 Amp. 4 pole MCCB of type DN3-400N, breaking capacity 50 ka, Cat No. CM9410500R10G, with auxiliary contact including extended rotary handle and spreader terminals.	No.	01				LT Make
24.	Supply and fixing of Current Transformer (CT) of ratio 400/5A, 15VA, CL-1, Tape wound.	No.	03				Kappa make
25.	Supply and fixing of Current Transformer (CT) of ratio 400/1A, 20VA, CL-1, Tape wound.	No.	01				Kappa make
26.	Supply and fixing of phase indicator lamp	No.	03				LT Make
27.	MCCB ON/OFF indicator Lamp.	No.	01				LT Make
28.	Supply and fixing of 4 Pole 6 Amp. MCB.	No.	01				LT Make
29.	Supply and fixing of 4 core 4.00 sq.mm. Control cable with end termination.	Mtr.	50.0				Polycab/ Havell's
30.	Supply, Installation of back and front operated cubical type free standing APFC Panel suitable for operation of 200 KVAR, 415 Volt, 3 Phase, 50 Hz A.C. supply system and to withstand a short circuit level of 35 KA symmetrical. The panel shall be fabricated out of 14 SWG CRCA sheet steel with necessary anti corrosive treatment and shall be dust and vermin proof	Set	01				

	<p>construction suitable for installation on pedestal with following facilities.</p> <p>A) Fire and corrosion resistant coating similar to VIPER FR-1101 applied two coats with necessary primer.</p> <p>B) Fire retardant DMC/SMC fillings for openings around busbar near the sanctional barriers.</p> <p>C) Facilities in the terminals to have direct termination with ALU cables.</p> <p>D) Shall have high mechanical dielectric strength.</p> <p>E) Door interlocking facility and fire barriers.</p> <p>F) Painting of APFC Panel and base frame shall be carried out through seven tank process after surface treatment and shall be painted through powder coating process with two coats of zinc chromate primer and two coats siemens gray painting.</p> <p>G) Approximate size of panel 2000mmX1200MMx750mm with 600 AMP. TPN Aluminium Buabar.</p> <p>H) Earthing arrangement: Supply and erection of 02 Nos. 600mmX600mmX6mm G.I. earth plate as per IS- 3043, 1987, including supply, laying and fixing of 25mmX6mm G.I. earth strip partly underground and partly surface by necessary clamps etc. for earthing, and supply and fixing of 3 mtr. long 25mm dia 3.64mm thick. G.I. Pipe for watering purpose and supply and poring of char coal Salt as per requirement.</p> <p>N.B. The Panel Box should be complete with all internal wiring and with arrangement for receiving incoming and outgoing terminals.</p>								
	Total								

In words:

1. **Quoted rates should be valid for 90 days.**
2. **Rates will be inclusive of all taxes.**

TERMS AND CONDITIONS

1. Earnest Money:

Earnest Money Deposit (EMD) of **Rs. 9500.00** (Rupees Nine thousand Five Hundred only) is required to be submitted in Demand Draft/ Bankers Cheque by the Tenderer with the tender. The Demand Draft/Bankers Cheque drawn on schedule bank must be issued in favour of **S N Bose National Centre for Basic Sciences**. EMD deposited by the unsuccessful tenders will be refunded by way of handing over the original Demand Draft/ Bankers Cheque duly endorsed by the Competent Authority of the Centre. The Earnest Money of the Successful Tenderer will be adjusted against the Security Deposit to be recovered from the running account bills. Under any circumstances, SNBNCBS will not be liable to pay any interest on the EMD.

2. Security Deposit:

The Security Deposit shall be deducted from the Running Account Bills at the rate of 10% of the gross certified bill value. The EMD shall form part of the Security Deposit.

3. Refund of Security Deposit.

The Security Deposit will be refunded without interest within 14 (fourteen) days after the expiry of the defective liability period (Twelve months from the date of completion) provided the Contractor has satisfactorily carried out all work and rectified all defects in accordance with the conditions of the work that may appear during the Defect Liability Period.

4. Arbitration:

a) Except as otherwise provided elsewhere in the contract, if any dispute, difference, question or disagreement or matter whatsoever, shall, before and after extended period, hereafter arises between the parties, as to the meaning, operation or effect of the contract or out or relating to the contract or breach thereof, shall be referred to sole Arbitrator to be appointed by the Director of the Centre at the time of dispute.

b) It is a term of the contract that the party invoking arbitration shall specify all disputes to be referred to arbitration at the time of invocation or arbitration under the clause.

c) It is a term of the contract that the cost of arbitration will be borne by the parties themselves equally.

d) The venue of arbitration shall be Kolkata.

e) Subject as aforesaid the provisions of the Arbitration and Conciliation Act 1996 and any statutory modification or re-enactment thereof rules make hereunder and for the time being in force shall apply to the arbitration proceeding under this clause.

5. Removal of improper Work:

The owner shall during the progress of the work have power to order in writing from time to time the removal from the work within such reasonable time or times as may be specified in the order of any materials which in the opinion of the Centre are not in accordance with specification or instructions, the substitution or proper re-execution of any work executed with materials or workmanships not in accordance with the drawings and specifications or instructions. In case the contractor refuses to comply with the order the Centre shall have the power to employ and pay other agencies to carry out the work and all expenses consequent thereon or incidental thereto as certified by the Centre shall be borne by the contractor or may be deducted from any money due to or that may become due to the contractor. No certificate which may be given by the Centre shall relieve the contractor from his liability of unsound work or bad materials.

6. Cancellation of Work:

The Centre reserves the right to cancel the work order at any point of time without assigning any reason thereof.

7. Payment :

Payment will be made after satisfactory execution of the work / progressively through running account (RA) bills and after verification/ certification of bill by the Engineering Section of the Centre.

8. Clearing site on completion:

On completion of the works the contractor shall clear away and remove, from the site, all constructional plant, surplus materials and rubbish/debris to the satisfaction of the Engineer-in-Charge.

9. Income Tax/ Sales Tax on Works Contract :

The Statutory deduction of income tax / sales Tax as applicable on works contract will be deducted from all interim and final payment to made to the contractor.

10. Declaration :

I/We have inspected the site of works and have made me/us fully acquainted with the local conditions in and around the sites of works. I/We hereby declare that I/We have gone through the items

of work in the attached Schedule of work of the N.I.Q. and understood the Technical Specifications given therein and on the basis of the same I/We have quoted our rates in the scheduled quantities attached with the quotation documents. The rates are valid for a period of three months from the date of submission of the tender.

I/We shall also uniformly maintain such progress with the work, as may be directed by the Centre to ensure completion of same within the completion period as mentioned in the NIQ.

11. Damage if any occurs during execution of the job to any person/property, recovery shall be made from the contractor's bill or through any other means as the appropriate authority of the Centre deems fit.
12. The contractor will be solely responsible for any fatal/non fatal accident which occurs to their person during execution of work.
13. The contractor shall have to submit computerized internal control circuit diagram of APFC Panel along with drawing of fabrication after getting work order.

14. Liquidity damage:

If the contractor fails to maintain the required progress to complete the items of work and cleared the site, he shall pay compensation the amount calculated @ 1.5% per month of delay to be computed on per day basis which shall not exceeds 10% of the tendered value of work.

15. The firm should have valid Electrical License.

Signature of Contractor

Address: _____

Date:

Office Seal: