



सत्येन्द्र नाथ बसु राष्ट्रीय मौलिक विज्ञान केन्द्र
SATYENDRA NATH BOSE NATIONAL
CENTRE FOR BASIC SCIENCES
সত্যেন্দ্র নাথ বসু জাতীয় মৌল বিজ্ঞান কেন্দ্র

SNB/ENGG/NIQ/11/E.I. Furnace Lab/23-24/ 826

Date: 29.01.2024

NOTICE INVITING QUOTATION

Name of the Work: Electrical power supply work at New Furnace Lab (Store-3) at SNBNCBS.

The Centre is pleased to enclose herewith a copy of schedule of items along with terms & conditions in connection with the above mentioned work from qualified and experienced firms and in case you are interested in the job, you may quote your competitive and justified rate both in figure as well as in words as per the schedule attached and submit the same complete in all respect with signature on the each page of the terms & conditions, in a sealed cover addressed to the undersigned so as to reach within 5.00 p.m. on 12th February 2024 positively.

Completion Period: Completion period of the above work is 30 days from the date of handing over of site. The quoted rate/price shall remain valid for 90 days from the due date of submission of quotation.

Please note that the Centre reserves the right to reject any or all tenders without assigning any reason thereof.

Interested agencies may download quotation documents from the Centre's Official website <http://newweb.bose.res.in/InfoAnnouncements/Tender.jsp> and submit the same within the stipulated date.

Yours sincerely,

Shohini Majumdar
29.1.2024

Shohini Majumdar
Registrar

Enclosure: General Conditions of Contract & Bill of Quantity.

CC:

1. DR (F)
2. DR (Admin.)
3. Notice Board
4. Central Registry

ब्लॉक - जे.डी., सेक्टर - III, सॉल्ट लेक, कोलकाता- 700 106 / Block - JD, Sector - III, Salt Lake, Kolkata - 700 106

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भारत सरकार के विज्ञान एवं प्रौद्योगिकी विभाग के अंतर्गत एक स्वायत्त संस्थान

AN AUTONOMOUS INSTITUTE UNDER DEPARTMENT OF SCIENCE & TECHNOLOGY, GOVERNMENT OF INDIA

A. Interpretation

In construing these conditions, the specifications, the schedule of quantities, tender and agreement, the following words shall have the meaning herein assigned to them except where the subject or context otherwise requires:

(i) The Centre: The term Centre shall denote Satyendra Nath Bose National Centre for Basic Sciences, Block –JD, Sector-III, Salt Lake, Kolkata-700106 or any of its employees /representatives authorised on their behalf.

(ii) Engineer-in-Charge (EIC): Mean the person being the HOD of Engineering Section to whom the Site Engineers report.

(iii) Site Engineer: The term Site Engineer shall mean the person/s appointed and paid by the Centre to superintend the work.

(iv) The Contractor: The Contractor shall mean the individual or individuals, firm or company, whether incorporated or not, undertaking the works and shall include the legal personal representative of such individual or the persons composing such firm or company, or the successors of such firm or company and the permitted assignees of such individual, firm or company.

(v) Site: The site shall mean the site where the works are to be executed in the campus.

(vi) Drawing: The work is to be carried out in accordance with drawing, CPWD specifications, the schedule of quantities and any further drawings, instructions etc. which may be given by the Engineer-in-charge on behalf of Centre during execution of the work. In case any detailed drawings are necessary contractor shall prepare such detailed drawings and have it confirmed by the Centre prior to taking up such work.

(vii) The Work: The Work shall mean the work or works to be executed under this contract.

(viii) The Bill of Quantities: The Bill of Quantities' shall mean the schedule of quantities as specified and forming part of this contract.

(ix) Price Schedule of Quantities shall mean the schedule of quantities duly priced with the accepted quoted rates of the contractor.

(x) The Bid/Tender shall mean the proposal /offer along with the supporting documents, submitted by the bidder for consideration by the Centre.

(xi) The Bid/Quotation document shall mean the documents issued by the Centre to prospective bidders, containing various terms and conditions, scope of work, any requirements etc. or generally laid and in various sections spelling out the basis, procedure, modes, methods and formalities of the bidder to prepare their BIDs for submission to the Centre. The BID documents shall include the invitation to BID, instructions, proposal forms and all addenda/corrigenda/amendments issued by the Centre.



(xii) The **Contract** means the documents forming the tender and acceptance thereof and the formal agreement executed between the Competent Authority of the Centre and the contractor, together with the documents referred to therein including these conditions, the specification, designs, drawings and instructions issued from time to time by the Engineer-in-charge and all these documents taken together, shall be deemed to form one contract and shall be complementary to one another.

(xiii) The **Work Order** means the letter by which the contractor is informed to commence the work after handing over the site by the Centre.

(xiv) **Tender value** means the value of the entire work as stipulated in the letter of acceptance/award.

(xv) The **Month** shall mean the calendar month according to the Christian calendar. **Day** unless herein expressly defined otherwise shall mean Christian calendar day of 24 hours.

(xvi) The **EIC** shall mean the Engineer-in-Charge.



TERMS AND CONDITIONS

1. Scope of Work: The work consists of supply & laying of main electrical power cables, S & F of 125 Amp. 4 Pole MCCB as Incomer, Distribution Boards, MCB's, Switch Boards, Dedicated Earthing arrangements including electrical wiring etc. all complete. The work will be finished by providing all the required materials.

2. Earnest Money: Earnest money deposit (EMD) of **Rs.4,000.00** (Rupees Four Thousand Only) is required to be submitted in Demand Draft/Bankers Cheque or copy of MSME certificate by the tenderer with the quotation. The Demand Draft/Bankers Cheque must be issued in favour of "S.N. Bose National Centre for Basic Sciences, Salt Lake, Sector-III, Block-JD, Kolkata-700106".

EMD deposited by the unsuccessful tenderer will be refunded by way of handing over the original Demand Draft/Bankers Cheque/NEFT 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 deducted from the running account bills. Under any circumstances, SNBNCBS will not be liable to pay any interest on the EMD.

3. Security Deposit: Based on the amendment in the General Financial Rules, - 2017 – Rule 171 (i) Performance Security Regarding dated 03.04.2023 from Ministry of Finance, Govt. of India, the Security Deposit shall be deducted from the Running Account/Final Bills @10% of the certified bill value including GST component. The Centre will not be liable to pay any interest on the SD.

4. Price: The price quoted by the party will include the cost of all materials, labour, transportation, handling, over head and all other taxes excluding GST which will be paid extra as per prevailing statutory provision.

5. Refund of Security Deposit: The Security Deposit may be refunded after the expiry of the defect liability period 06 (six) months provided the Contractor has satisfactory carried out all work and attended to all defects in accordance with the conditions of the work during the defect liability period.

6. Working Hours: Working hours on other days of the week shall be from 9:00 a.m. to 6:00 p.m.

7. Cancellation of Work: The Centre reserved its right to cancel the work order or to terminate the contract at any time after giving due notice without assigning any reason thereof. The contractor will not be entitled to claim any compensation against such cancellation of work order or termination. However, while terminating the contract, if any payment is due to the contractor for the work already performed in terms of the contract, these would be paid after certification of the bill by the concerned department as per the contract terms.

8. Payment: Payment will be made after satisfactory execution of the work and after verification/certification of bill by the Engineering Section of the Centre.

9. Clearing site on completion: On completion of each quarter of the work, the contractor shall clear away and remove, from the site, all constructional plant, surplus materials and rubbish to the satisfaction of the Centre.



10. Statutory deduction under Income Tax/ GST: The Statutory deduction of income tax, Labour Welfare Cess (If applicable), GST TDS etc. shall be made all interim and final payments as per Income Tax Act and Rules and GST act and Rule. The rate of GST mentioned in the BOQ is as per present rule. In case of any variation (+ / -) as per statutory notification, the same will be applicable at the time of making payment.

11. Brief Specification: The work shall be carried out as per schedule of items of work, CPWD specification and direction of the Engineer-in-charge.

12. Superintendence of Supervision: The Contractor shall give all necessary personal Superintendence during the execution of the work and this obligation and liability will continue (a) till completion of the work and (b) thereafter expiration of defects liability.

13. Failure by Contractors to comply with Owner's Instruction: The quantities shown in the schedule of quantities are tentative. The Owner reserves the right to execute only a part or the whole or any excess of the work thereof without assigning any reason.

14. Tenderer shall visit the site: Intending quotation shall visit the site and make himself/herself thoroughly acquainted with the local site condition, nature and requirements of the works, facilities of transport condition, effective labors and materials, access and storage for materials and removal of rubbish.

15. Contractor to provide everything necessary: The Contractor shall provide everything necessary for the proper execution of the work according to the intent and as per instruction of EIC and making sure that the day to day working of the Centre is not hampered.

16. Defects after Completion: The contractor shall make good at his own cost and to the satisfaction of the Owner all defects, shrinkage, settlements or other faults which may appear within six months after satisfactory completion of the work.

17. Escalation: The rate quoted shall be firm throughout the tenure of the contract (including extension of time, if any, granted) and will not be subject to any fluctuation due to increase in cost of materials, labor, tax, octroi, etc.

18. Validity of Quotation: The contractor shall note that his quotation shall remain open for consideration for a period of 90 days from the due date of submission of quotation.

19. Labour & Payment of Wages to Labour: No labour below the age of 18 (eighteen) years shall be employed on the work. The contractor shall pay to labour employed by him wages not less than fair wages as per provision of the Contract Labour Act, 1970 & 1971 whichever is applicable.

20. Completion of Time: The entire work is to be completed in all respect within the time stipulated in the NIQ. Time is the essence of Contract and shall be strictly observed. The work should be completed within 45 days (unless time extension is granted) from the date of handing over of site or 10 days of issuance of work order whichever is later.

21. Termination of Contract: If the tenderer goes into liquidation or shall use improper materials or shall fails to proceed the progress of work to the satisfaction of the Engineer-in-Charge, the Centre shall have right to terminate the Contract.



22. Compensation for Delay: If the contractor fails to maintain the required progress or to complete the work and clear the site as per the terms of the work order/agreement within the stipulated date of completion or the extended date of completion, the contractor shall without prejudice to any other right or remedy available under the law on account of such breach, pay as agreed compensation the amount at the rates stipulated below as the Authority may decide (whose decision in writing shall be final and binding) on the amount of tender value of the work for every complete day/month (as applicable) that the progress remains below that specified in clause 23 or that the works remain incomplete.

This will also apply to items or group of items for which a separate period of completion has been specified.

i) Compensation @1.5% per month of delay for delay of work to be computed on per day basis. Provided always that the total amount of compensation for delay to be paid under this Condition shall not exceed 10% of the Tender Value of work or of the Tender value of the item or group of items of work for which a separate period of completion is given.

The amount of compensation may be adjusted or set-off against any sum payable to the Contractor under this or any other contract with the Centre. In case, the contractor does not achieve a particular approved milestone, or the re-scheduled milestone(s) in terms of Clause 23, the amount shown against that milestone shall be withheld, to be adjusted against the compensation levied at the final grant of Extension of Time. With-holding of this amount on failure to achieve a milestone, shall be automatic without any notice to the contractor. However, if the contractor catches up with the progress of work on the subsequent milestone(s), the withheld amount shall be released. In case the contractor fails to make up for the delay in subsequent milestone(s), amount mentioned against each milestone missed subsequently also shall be withheld. However, no interest, whatsoever, shall be payable on such withheld amount.

23. Arbitration: All disputes or differences of any kind whatsoever which shall at any time arise between the parties hereto touching or concerning the works or the execution or maintenance thereof of this contract or the rights touching or concerning the works or the execution of maintenance thereof of this contract or the construction remaining operation or effect thereof or to the rights or liabilities of the parties or arising out of or in relation thereto whether during or after determination foreclosure or branch of the contract (other than those in respect of which the decision of any person is by the contract expressed to be final and binding) shall after written notice by either party to the contract to the other of them and to the Employer hereinafter mentioned be referred for adjudication to a sole Arbitrator.

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 of arbitration under the clause.

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

The venue of arbitration shall be Kolkata.

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

24. Extension of Time: The contractor, due to any delay in the work beyond the date of scheduled completion, shall have to apply before expiry of the scheduled time, for time extension of work up to a reasonable period by citing valid reasons/documents for such delay which the Centre may, at



its discretion grant with or without LD depending on the correctness of the constraints/hindrances. The decision of the Centre in this regard shall be final and binding on the contractor.

25. Variation / Deviation: The contractor on his own accord shall make no addition, omission or variation without authorization.

The rates for additional, altered, substituted work shall be arrived at in accordance with the following rules:

- i) The net rates of prices in the contract schedule shall determine the valuation of (the rates for) the extra work (items) where such extra work is of similar character and is executed under similar conditions as the work priced therein.
- ii) If the rates for the extra, altered or substituted (deviated) work are not provided for (available) in the contract schedule, they shall to the extent possible be derived out of rate given in that schedule for similar or near similar items the purpose of such deviation, where necessary and when so directed, the contractor shall furnish detailed analysis for the said similar or near similar items in the contract schedule. For such portions of the analysis for the extra, altered or substituted (deviated) work for which prices cannot be abstracted from the corresponding analysis of rates for the said similar or near similar items in the contract schedule, market rates substantiated by purchase bills/vouchers dependable printed price schedules of building materials of different types shall be adopted, using factors and constants for quantum of material, labor T & P and sundries from standard analysis of rates adopted by the National Building Organization, Ministry of Works & Housing, Govt. of India in preparation of D.S.R. 2016 and adding 15% towards profits and overheads. When called upon to do so the contractor shall submit the required purchase bill/vouchers.
- iii) In the case of additional, altered or substituted (deviated) work for which rates cannot be reasonably be derived as at (i) and (ii) above, the rates shall be worked out adopting market prices, substantiated by purchase bill/vouchers, using factors and constants for quantum of materials, labor, T & P and sundries from standard analysis of rates adopted by the Delhi Schedule of Rates, 2007 and addition 15% towards profit and overheads. When called upon to do so the contractor shall submit his purchase bills/vouchers to the architects and employer.
- iv) The tender rates will hold good for any increase or decrease in the tender quantities up to a variation of 25% except in the case of item below plinth level where the variation will be up to 100% For variation beyond the above limit, rates for the respective items for quantity beyond the limits mentioned above may be worked out on market rates.
- v) The question as to what particular items, being similar or near similar to the additional, altered or substituted (deviated) work in the contract schedule to be adopted for deviation of rates for the additional, altered or substituted (deviated) work and whether the said rates cannot be derived from similar or near similar items in the contract schedule will be decided by the Employer.
- vi) In case, the contractor is required to submit the analysis of rates adopting the principles enunciated above and the Centre, after scrutinizing the analysis and other papers furnished will allow such rates as he considers reasonable.



vii) Where extra work is of such a nature that it cannot be properly measured valued the contractor shall be allowed day work priced at the net rates stated the tender or the priced schedule of quantities or if not so stated then in accordance with the minimum local day work rates and wage for the district notified by the concerned authority.

26. Action when whole of Security Deposit is forfeited: After recession of the contract the Security Deposit of the Contractor shall stand forfeited and be absolutely at the disposal of the Centre.

To measure up the work of the Contractor, and to take such part thereof as shall be unexecuted, out of his hands, and to give it to another contractor to complete in which case any expenses which may be incurred in excess of the sum which would have been paid to the original contractor.

27. Force Majeure: Contractor shall not be considered in default in delay in work occurs due to causes beyond his control such as acts of God, natural calamities, civil wars, fire, strike, frost, floods, riot and acts of unsurpassed power. Only those causes which have duration of more than seven (7) days shall be considered cause of force majeure. A notification to this effect duly certified by the statutory authorities shall be given by the contractor to the Centre within 10 days from the date of such Force Majeure condition by registered letter. In the event of delay due to such causes, the work schedule/completion time will be extended for a length of time equal to the period of force majeure or at the option of the Centre the order may be cancelled. Such cancellation would be without any liability whatsoever on the part of the Centre. In the event of such cancellation, the contractor shall refund any amount advanced or paid to them, by the Centre and deliver back any materials issued to them by the Centre and release facilities, if any, provided by the Centre.

The bidder will be solely responsible for any fatal / non fatal accident which occurs to their person during execution of work.

28. Safety: (a) The Contractor shall maintain all the safety security of men and materials and Properties of the Centre as per Provision relevant safety code.

(b) The Contractor and his all workmen should follow all Covid-19 norms including wearing mask, maintaining social distancing etc. as per orders from Govt. from time to time. They are also required to get vaccinated against Covid-19 pandemic for seeking entry in the Campus.

29. New Entrant: The agencies who have not done any work satisfactorily in the Centre in the past 5 years or not registered, may be asked to submit documents in support of their credentials in support of their past experience in any Govt. dept. / PSU, Local or Statutory Body or a highly reputed Private Organization, Valid Electrical Contractor's License and failure to submit such satisfactory document might debar the agency's bid from opening.

30. 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

(A) I/We have gone through the conditions laid down in the General Conditions of Quotation, along with a) Interpretation, b) Scope of Work, c) Terms and Conditions and d) the BOQ and well understood the requirements for this work.



(B) I/We confirm of having adequate experience for similar work in one of the Govt. Organization/PSU/Autonomous Body and the Centre reserves the right to seek relevant and valid documents before finalization of the tender and if found non-acceptable, my/our offer will be liable for rejection and Centre's decision in this regard will be final and binding on me/us.

(C) I/we have quoted our rates on the basis of the description of the items mentioned in the schedule of quantities and the terms and conditions attached with the quotation documents.

(D) 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 target date as mentioned in the quotation document.

Specification for Cable Laying:

Trenches shall be 750 mm deep (minimum) and 450 mm wide for LT Cables and trenching work shall include all pumping and bailing out water. These trenches shall be wide enough to accommodate the cable with brick protections as per the requirements specified in the relevant I.S.

After excavation of the trench of proper size, the bottom of the trench shall be dressed and leveled and filled with a 75 mm layer of fine sand. The cables shall then be laid with bricks on both side of the cable continuously, filled and packed up to a level of 75 mm (3") above top of cable with fine sand, the top layer of bricks in the middle of the cable shall be covered by bricks placed side by side in continuous series as protective cover. Total No. of bricks required being 12 Nos. per meter run. The remainder of the trench shall be filled with excavated soil, well rammed and watered to a level of 75 mm (3") above surrounding ground level. The ground level surface of the whole trench route shall be restored properly after completion of cable laying.

Signature of Tenderer

Address:

Date:



SCHEDULE OF WORKS

Electrical power supply work at New Furnace Lab (Store-3) at SNBNCBS.

Sl. No.	Description of items	Unit	Qty.	Rate Rs.	Amount Rs.
1.	Providing & Fixing following rating and breaking capacity and pole MCCB with thermo magnetic release and terminal spreaders along with cubical panel board including drilling holes in cubical panel, making connections, etc. as required. 125 Amp. 36 Ka, Four Pole MCCB. (Make: LT/Legrand/ABB)	Each	01		
2.	Supplying and fixing of 100 Amps. 3 phase 4 wire with neutral, heavy duty weather proof bus bar chamber (make: Bentec).	Each	01		
3.	Supplying & fixing following ways, surface/recess mounting, vertical type, 415 V, TPN MCB Distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (But without MCBs and incomer) as required. 4 Ways (4+12), Double Door. (Make: ABB/SIEMENS/LEGRAND)	Each	01		
4.	Supplying & Fixing following rating, four poles, 415 V, MCB in the existing MCB DB complete with connections, testing and commissioning etc. as required. 100 Amp.	Each	01		
5.	Supplying & fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required, Single Pole. (Make: ABB/SIEMENS/LEGRAND)	Each	12		
6.	Supply of PILC/PVC insulated and PVC sheathed/XLPE power cable of 1.1 KV grade of approved cable conforming to IS 1554 (Part-I) of following sizes. 3.5Cx70.0 sq.mm. 1.1 KV grade XLPE Aluminum Armoured cable. (Make: Havell's/Ploycab/ Gloster)	Mtr.	140		
7.	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required. Above 35 sq. mm. and up to 95 sq. mm.	Mtr.	140		
8.	Supplying and making end termination with double brass compression gland and Aluminum lugs for following size of PVC insulated and PVC sheathed/XLPE Aluminum conductor cable of 1.1 KV grade as required: 3.5Cx70.0 sq. mm.	Each	02		
9.	Wiring for circuit/ sub main wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 2X4.0 sq. mm. + 1X2.5 sq.mm. (Make: Havell's/Polycab/Finolex/Gloster).	Mtr.	30		



Sl. No.	Description of items	Unit	Qty.	Rate Rs.	Amount Rs.
10.	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with Modular type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5 sq. mm. FRLS PVC insulated copper conductor single core cable etc. as required. Group C. (Make: Havell's/Polycab/Finolex/Gloster)	Point	06		
11.	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25/32 A 240 V "C" curve DP MCB complete with connections, testing and commissioning etc. as required. (Make: ABB/SIEMENS/LEGRAND)	Each	06		
12.	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate (450mmX450mm) having locking arrangement and watering pipe of 2.7 meter long (40 mm dia) etc. with chemical compound (03 bags each) etc. as required.	Set	02		
13.	Supplying and laying 25 mm X 6 mm G.I. strip at 0.50 meter below ground as strip earth electrode, including connection/Terminating with nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50mm).	Mtr.	15		
14.	Supplying and fixing of following size/module PVC box along with modular base and cover plates for modular switches in surface/recess etc. as required. 3 Module (100mmX75mm) (Make: ABB/Siemens/Legrand/Havell's)	Each	06		
15.	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. 15/16 Amp. Switch+6 pin 15/16 Amp. socket outlet. (Make: ABB/Siemens/Legrand/Havell's)	Set	06		
16.	Supply, Installation & Testing-Commissioning of 12 Inch. Dia heavy duty Exhaust Fan of industrial grade (Make: Havell's/Bajaj/Orient)	Each	03		
	Grand Total				
	N.B.: GST is inclusive				

Amount in words:

Note:

1. The Quoted Price is inclusive of all taxes.
2. The Quoted Price shall remain fixed & firm during the Contract period and any extension thereof.

Signature of Tenderer with Seal

