



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

Ref.: SNB/ENGG/Soil Test/NIQ/20-21/9/537

Date: 23.11.2020

**NOTICE INVITING QUOTATION**

**Name of the Work: Soil Investigation work for the Construction of Proposed G+6 Building at S. N. Bose National Centre for Basic Sciences**

Quotations are invited only from bona-fide, resourceful and experienced **SOIL INVESTIGATION AGENCIES / FIRMS** in prescribed format by the Registrar on behalf of SNBNCBS for "Soil investigation work for the Construction of Proposed G+6 Building at S.N. Bose National Centre for Basic Sciences".

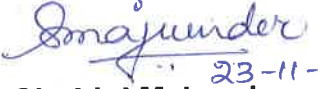
A copy of schedule of item along with terms & conditions in connection with the above mentioned work is enclosed for submission of bid by the interested agency / firm. The agencies are instructed to quote their competitive and justified rate both in figure as well as in words as per the schedule attached 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 Registrar so as to reach within 5.00pm, **14 December, 2020** positively. The agency has to submit suitable documentary evidence of having completed similar Soil investigation work for any Govt./PSU/ Autonomous body/reputed firms during last 5 years.

**Completion Period:** Completion period of the above work is 45 (forty five) days from the date of handing over of site or 10 days of issuance of work order whichever is later. The quoted rate / price shall remain valid for 90 days from the due date of opening 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.

Offers received from agencies having no experience in Soil Investigation job will be summarily rejected and their offers will not be considered for evaluation.

  
23-11-2020  
**Shohini Majumdar**  
Registrar

**Enclosure: General Conditions of Contract & Bill of Quantity.**

CC:

1. Director
2. DR (Finance), Officiating
3. DR (Admin.)
4. Notice Board
5. 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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वेबसाइट / Website: <http://www.bose.res.in>

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:

**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.

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

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

**The Contractor/Agency:** The Contractor/Agency 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.

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

**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.

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

**The Schedule of Quantities:** The Schedule of Quantities shall mean the schedule of quantities as specified and forming part of this contract.

**Price Schedule of Quantities** shall mean the schedule of quantities duly priced with the accepted quoted rates of the agency including all taxes and duties but excluding GST.

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

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.

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.

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.



### **C. TERMS AND CONDITIONS**

**Scope of Work:** The work consists of carrying out of complete soil investigation work for the proposed site of G+6 building adjacent to Liquid Helium Plant building in side the campus as per drawings to be issued, by carrying out 150mm to 250mm dia bore holes up to a depth of 30m and beyond if required, collection of samples conducting laboratory test as per relevant IS code and safety codes, preparation and submission of detailed reports, filling up the bore holes and clearing of site after demobilization of the machineries and equipments.

#### **1. Earnest Money :**

Earnest Money Deposit (EMD) of **Rs. 5900.00** (Rupees Five Thousand Nine Hundred only) is required to be submitted in Demand Draft/ Bankers Cheque 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 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. Agencies with valid MSME/NSE registration will be exempted from submission of EMD.

#### **2. Security Deposit:**

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

#### **3. Refund of Security Deposit :**

The Security Deposit may be refunded after the expiry of the defect liability period 6 (six) months provided the Contractor has satisfactory carried out all work and attended to all defects in accordance with the conditions of the work.

#### **4. Price :**

The agency has to quote their price by including all labours, equipments, profit and overhead, incidentals and all taxes and duties. However, GST, if applicable on the date of payment, will be paid extra on submission of valid documents.

#### **5. Working Hours:**

Normal working hours for weekdays shall be from 7:00 a.m. to 6:00 p.m. However, if the Agency needs to carry out the work beyond this period but not exceeding 9 p.m. and also on holidays, permission may be granted against written request of the agency.

#### **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 and submission of all the test and investigation reports and after verification/ certification of bill by the Engineering Section of the Centre. Efforts will be made to release the bill within 21 days from date of submission, provided the bill does not contain any mistake or anomaly.

#### **8. Clearing site on completion:**

On completion 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.



**9. Statutory deduction under Income Tax/ GST:**

The Statutory deduction of income tax / GST as applicable on the works contract will be deducted from all interim and final payment made to the contractor, as per Government rule.

**10. Brief Specification:**

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

**11. 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.

**12. 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.

**13. 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.

**14. 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.

**15. 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 6 (six) months after satisfactory completion of the work.**

**16. 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.

**17. Validity of Quotation:**

The contractor shall note that his quotation shall remain open for consideration for a period of 90 days from the date of opening of quotation.

**18. Labour & Payment of Wages to Labour :**

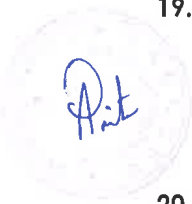
No labour below the age of 18 (eighteen) years shall be employed on the work. The contractor shall pay to labour employed by him wages not less than fair wages as per provision of the Contract Labour Act, 1970 & 1971 whichever is applicable.

**19. 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 (forty five) 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.

**20. 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.



## 21. Compensation for Delay:

If the contractor fails to maintain the required progress in terms of clause 23 or to complete the work and clear the site on or before the contract or extended date of completion, he shall, without prejudice to any other right or remedy available under the law to the Centre on account of such breach, pay as agreed compensation the amount calculated at the rates stipulated below as the authority specified (whose decision in writing shall be final and binding) may decide on the amount of balance value of the work for every completed day/month (as applicable) that the progress remains below or the work remains incomplete.

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

Compensation for delay of work : @ 1.5% per month of delay 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 Tendered Value of work or the Tendered Value of the Item or group of items of work for which a separate period of completion is originally 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.

## 22. Arbitration:

- a. 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 breach 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.
- 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 of 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 rules made hereunder and for the time being in force shall apply to the arbitration proceeding under this clause.

## 23. 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.

## 24. 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:

- a. 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.



- b. 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.
- c. In the case of additional, altered or substituted (deviated) with 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, 2016 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.
- d. 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.
- e. 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 for 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.
- f. 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.
- g. 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.

**25. Action when whole of Security Deposit is forfeited:**

- a. After recession of the contract the Security Deposit of the Contractor shall stand forfeited and be absolutely at the disposal of the Centre.
- b. 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.

**26. Force Majeure:**

- a. 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.



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

**27. Declaration:**

- a. 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 and c) Terms and Conditions.
- b. Technical Specifications, items of work and understood the same. I/we on the basis of the same quoted our rates in the schedule of quantities attached with the quotation documents.
- c. 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.
- d. I/we understand that The Centre may summon the bidders for the verification of original documents during any time before and after issuance of work order and if the document is found to be false, fabricated or forged, strict action will be taken against me/us by cancellation of tender/work order and forfeiture of EMD and I/we will be debarred from participation in all future tenders

\_\_\_\_\_  
Signature of Tenderer

Address: \_\_\_\_\_

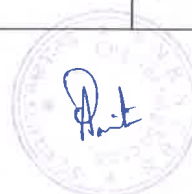
Date: \_\_\_\_\_



Seal of the Agency

**Bill Of Quantity for Soil investigation work for the Construction of Proposed G+6 Building**

Sl. No.	DESCRIPTION OF ITEMS	UNIT	Quantity	RATE (Rs.)	AMOUNT (Rs.)
1.	Mobilization charges of all tools and plants along with accessories, materials labour ,supervision etc. at site of work required in connection with boring and testing work including setting up boring rig and shifting to different borehole points etc. and also including withdrawn of the same fro the site after completion of work, complete as per direction of EIC	One Job	1.00		
2.	Making boreholes of 150mm to 250mm dia to any depth below ground level/bed level in all kinds of soil like clay, silt, sand, stiff clay, mixed soil, and through hard rocky strata etc. using shell and Auger equipments with powered winch, including chiseling if necessary, using flush joint casing pipe including collecting disturbed samples in polythene bags at ,conducting standard penetration tests at suitable intervals etc including preparation and submission of bore log as per IRC:7578 and C.I. 2400 of specifications for road and Bridge works published by IRC and also including hire charges of tools and plants complete as per direction of EIC.				
	a) G.L to 30 M or at refusal strata if encountered earlier. Refusal strata shall be the strata where the boring can not be advanced by 150 mm even after chiselling after 3 hours. Samples of the above strata at this level to be retained for inspection.	Metre	150.00		
	b) Extra for Depth beyond 30 M if required	Metre	10.00		
3.	Collecting samples at suitable intervals from all types of soil as per specification and direction using 100 mm dia X 450 mm long sample tubes sealing with wax and dispatching to the laboratory including transport and Handling charges all complete				
	a) For Undisturbed samples	Each	75.00		
	b) For disturbed samples	Each	75.00		
4.	Field Investigation:-Standard Penetration Tests (SPT) by split spoon sampler in the borehole as per IS 2131 @ 1.0 M interval or at every change of strata	Each	150.00		
5.	Conducting laboratory test on selected soil samples and groundwater as given below:-				





Sl. No.	DESCRIPTION OF ITEMS	UNIT	Quantity	RATE (Rs.)	AMOUNT (Rs.)
	a) Plastic Limit as per IS-2770 (Part-V)	Each	75.00		
	b) Grain Size analysis by sieving as per IS-2770 (Part-VI)	Each	75.00		
	c) Hydrometer Method analysis as per IS-2720 (Part-IV)	Each	50.00		
	d) Water content as per IS-2720	Each	75.00		
	e) Specific Gravity as per IS-2720	Each	75.00		
	f) Direct shear tests	Each	10.00		
	g) Unconfined compression strength as per IS-2720 (Part-X) (i) Undisturbed.	Each	10.00		
	h) Consolidation test as per IS 2720(part-XI)	Each	10.00		
	i) Triaxial compression test as per IS 2720 9 and Determination of shear strength parameters of a specimen tested in unconsolidated for undrained sample	Each	10.00		
	j) Triaxial compression test as per IS 2720 9 and Determination of shear strength parameters of a specimen tested for drained sample	Each	10.00		
	k) Determination of Free Swell index of soil as per IS 2720(Part-VIII)	Each	10.00		
	l) Chemical Test on Water (All Radicals)	Each	5.00		
	m) Chemical Test for Soil (Radicals)	Each	5.00		
	n) Bulk and dry density	Each	75.00		
6.	Preparation and submission of report in Four hard bound copies and also in soft copy giving all relevant information data like site plan, bore log and water table, test result, calculation, discussion, suggestion and recommendation in respect of suitable foundation for G+6 storied RCC framed structure with Cast-in-Situ bored pile etc. Including determination of silt factor calculation of water way and complete design of foundation including analysis of safe bearing capacity complete as per direction of Engineer-in-Charge.	One Job	1.00		
	<b>Total</b>				
	<b>Add GST @ 12%</b>				
	<b>Grand Total</b>				

In words: Rupees

Note:

1. The quoted price is inclusive of all taxes except GST.
2. The quoted price shall remain firm during the contract period and any extension thereof.



Signature of Tenderer with seal