

**ALL INDIA INSTITUTE OF MEDICAL SCIENCES
RAIPUR**

**TENDER FOR
GEOTECHNICAL INVESTIGATION FOR PROPOSED
CONSTRUCTION OF RESIDENTIAL BLOCKS AT AIIMS
RAIPUR**

Apr' 2019



**HSCC (INDIA) LTD.
(GOVERNMENT OF INDIA ENTERPRISE)
E-6(A), Sector-1, NOIDA(U.P) 201301 (India)**

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Tender No. HSCC/D&E/AIIMS Raipur/Geotech_Survey/2019

Name of Work: Geotechnical Investigation for Proposed Construction of Residential Blocks at AIIMS Raipur

CONTENTS:

S. No.	DESCRIPTION	Page No.
1	Notice inviting e-tender	2
2	Notice inviting e-tender-detailed	3-4
3	Information and Instructions for bidders for e-tendering forming part of bid document	5-7
4	Brief Description of Project	8
5	Pre-qualifying Criteria	8-9
6	Scope of Work	10-15
7	General Conditions of Contract	16-19
8	Completion Time and Mode of Payment	20
9	Letter of Proposal/ Undertaking from the Bidder(Annexure-I)	21
10	Price Bid for the Geotechnical Investigation for the Proposed Construction of Residential Blocks at AIIMS Raipur	22
11	Checklist for documents to be uploaded(Annexure-III)	23-24

NOTICE INVITING e-TENDER

**All India Institute of Medical Sciences, Raipur
NOTICE INVITING TENDER**

HSCC (India) Ltd as Executing Agency on behalf of The Director, AIIMS Raipur invites online bids through e-tendering from eligible firms for the work Geotechnical Investigation for proposed Construction of Residential Blocks at AIIMS Raipur (**Tender No: HSCC/D&E/AIIMS Raipur/Geotech_Survey/2019**)

Sale of Tender shall be from 25.04.2019 to 03.05.2019 up to 13:00Hrs. Last date of Bid submission shall be 03.05.2019 up to 14:30 Hrs & opening on same day at 15:00 Hrs.

For detailed NIT, please visit HSCC e-tender portal <http://www.tenderwizard.com/HSCC>, CPP Portal <http://eprocure.gov.in> and <http://www.hsccltd.co.in>,

DGM (Struc), HSCC (I) Ltd

Conducting Geotechnical Investigation for the Proposed Construction of Residential Blocks at AIIMS Raipur

Tender No: HSCC/D&E/AIIMS Raipur/Geotech_Survey/2019

Date: 25.04.2019

NOTICE INVITING e-TENDER – Detailed

HSCC (India) Ltd., as executing agency for and on behalf of The Director, AIIMS Raipur invites online bids through e-tendering from the eligible consultants to carry out Geotechnical Investigation for Proposed Construction of Residential Blocks at AIIMS Raipur.

Details are as follows:

Name & description of work	Completion period	Estimated cost (Rs.)	Bid Security (in Rs.)	Sale of Tender	Date of Submission & opening
Geotechnical Investigation for the Proposed Construction of Residential Blocks at AIIMS Raipur	04 Weeks	2,90,000/-	5,800/-	25.04.2019 to 03.05.2019 up to 13:00 hrs	03.05.2019 up to 14:30 hrs & Opening at 15:00 hrs

The bidder would be required to register at HSCC e-tender portal <http://www.tenderwizard.com/HSCC>. The bid document is available online from 25/04/2019. The bidder is required to have Digital Signature Certificate (DSC) from one of the authorized Certifying Authorities for submission of the bids.

The bidders are required to submit

1. (a) Original non-refundable Demand Draft of Rs.500/- (Rs. Five Hundred only) as cost of bid, in favour of “HSCC (India) Ltd.” payable at Noida (b) Original bid security in approved form of Rs.5,800/- (Rs. Five Thousand Eight Hundred Only).
(or)
2. The Firms/Consultants registered as MSEs under Ministry of Micro, Small & Medium Enterprises should submit required documents/proofs to avail the benefit of exemption from payment of Tender Fee and Earnest Money Deposit. Duly certified relevant registration certificates to be submitted

Any one of the above documents should be submitted to the office of “Deputy General Manager(Structure), HSCC (India) Ltd., Plot no. E-6(A), Sector-1, Noida (U.P.) Pin-

201301”, before date and time fixed for opening of bid either by registered post or by hand failing which the bid will be declared non-responsive.

The documents to be uploaded online are listed at **Annexure III**

Complete Tender Document has been made available at e-tender portal <http://www.tenderwizard.com/HSCC>

HSCC reserves the right to accept or reject any application without assigning any reason or incurring any liability whatsoever.

Prospective bidders are advised to regularly scan through HSCC e-tender portal <http://www.tenderwizard.com/HSCC> as corrigendum/amendments etc., if any, will be notified on this portal only and separate advertisement will not be made for this.

Conditional tenders and tenders not filled in figure and words are liable to be rejected.

The bids shall be valid for 90 days from the last date of submission.

Dy. General Manager (Struc)
HSCC (India) Ltd.

INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR e-TENDERING FORMING PART OF BID DOCUMENT

HSCC India Ltd., as executing agency for and on behalf of The Director, AIIMS Raipur invites online bids through e-tendering from eligible contractors/firms for the following works:

Name & description of work	Completion period	Estimated cost (Rs.)	Bid Security (in Rs.)	Sale of Tender	Date of Submission & opening
Geotechnical Investigation and Topographical Survey for the Proposed Construction of Residential Blocks at AIIMS Raipur	04 Weeks	2,90,000/-	5,800/-	25.04.2019 to 03.05.2019 up to 13:00 hrs	03.05.2019 up to 14:30 hrs & Opening at 15:00 hrs

1. Firms who fulfill the following requirements shall be eligible to apply
 - i. Should have successfully completed similar works during last seven years ending last day of month previous to the one in which applications are invited should be either of the following;
 - a) Three similar completed works consisting not less than the amount equal to 40% of the estimated cost.
Or
 - b) Two similar completed works consisting not less than the amount equal to 50% of the estimated cost.
Or
 - c) One similar completed works consisting not less than the amount equal to 80% of the estimated cost.

Similar works here mean works mentioned in “Scope of Work”.

- ii. Average Annual financial turnover during the last three years, ending 31st March of the previous financial year, i.e. for FYs 2015-16, 2016-17 & 2017-18 should be at least 30% of the estimated cost.
2. The document consisting of scope of work, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website <http://www.tenderwizard.com/HSCC> free of cost.

3. But the bid can only be submitted after uploading the mandatory scanned documents such as Demand Draft or Pay order of any Scheduled Bank towards cost of bid document and Bid Security in favour “HSCC (India) Limited”, payable at Noida.” as per details given in the Bid Document and Processing Fee via online mode only and other documents as specified.
4. Firms can upload documents in JPG format or PDF format.
5. The Technical bid shall be opened first on due date and time as mentioned above. The time and date of opening of financial bid of firms qualifying the technical bid shall be communicated to them at a later date.
6. Prospective bidders are advised to regularly scan through HSCC e-tender portal <http://www.tenderwizard.com/HSCC> as corrigendum/amendments etc., if any, will be notified on this portal only and separate advertisement will not be made for this.
7. (a) Original non-refundable Demand Draft of Rs.500/- (Rs. Five Hundred only) as cost of bid, in favour of “HSCC (India) Ltd.” payable at Noida (b) Original bid security in approved form of Rs.5,800/- (Rs. Five Thousand Eight Hundred Only).
(or)
8. The Firms/Consultants registered as MSEs under Ministry of Micro, Small & Medium Enterprises should submit required documents/proofs to avail the benefit of exemption from payment of Tender Fee and Earnest Money Deposit. Duly certified relevant registration certificates to be submitted

Any one of the above documents should be submitted to the office of “Deputy General Manager(Structure), HSCC (India) Ltd., Plot no. E-6(A), Sector-1, Noida (U.P.) Pin-201301”, before date and time fixed for opening of bid either by registered post or by hand failing which the bid will be declared non-responsive.
9. The last date of submission of bid is 03/05/2019 up to 14:30hrs. The bids shall be opened on the same day at 15:00 hrs.
10. The EMD of all other unsuccessful agencies shall be refunded within one month of finalization of appointment of consultant.
11. The Lump sum Consultancy charges quoted shall remain firm throughout the validity of contract. The consultancy charges should include cost of material, labour, tools and equipments, transport charges, all taxes, royalties, octroi etc. payable on all transactions for the due performance of work under this contract.
12. Income tax shall be deducted from Agency’s bill as per Government of India norms.

Brief Description of Project:

Proposed Construction of following blocks at AIIMS Raipur

- i. Type-II – 1 Block
- ii. Type-III – 2 Blocks
- iii. Type-IV – 2 Blocks
- iv. Type-VI – 2 Blocks
- v. UG Hostel Boys – 1 Block
- vi. UG Hostel Girls – 1 Block
- vii. Nurses Hostel – 1 Block
- viii. Amenity Block – 1 Block

Pre-Qualifying Criteria

Following is the pre-qualification criteria for the tenderers:

Consultants working with CPWD, Railways, MES, P & T Deptt., State PWD's, Semi govt. Organizations and Institutes or in reputed private Sector Firms who have:

- i. Average Annual financial turnover during the last three years, ending 31st March of the previous financial year, i.e. for FYs 2015-16, 2016-17 & 2017-18 should be at least 30% of the estimated cost.
- ii. Experience of having successfully completed similar works during last seven years ending last day of month previous to the one in which applications are invited should be either of the following;
 - a) Three similar completed works consisting not less than the amount equal to 40% of the estimated cost.
Or
 - b) Two similar completed works consisting not less than the amount equal to 50% of the estimated cost.
Or
 - c) One similar completed works consisting not less than the amount equal to 80% of the estimated cost.
- iii. Similar works here mean works mentioned in "Scope of Work".

All bidders should submit the proof of works executed as above & “Satisfactory Performance Certificates”. Absence of submitting the same along with the tender will disqualify the bidder.

The estimated cost of the work is Rs.2,90,000/- (Rupees Two Lakhs Ninety Thousand only) including GST.

The competent authority to pre-qualify shall have the powers to relax any condition/criteria for pre-qualification if it considers expedient to do so.

A. SCOPE OF WORK

1 GEOTECHNICAL INVESTIGATION AND REPORT SUBMISSION

- 1.1 Detailed Geo-technical Investigation is to be carried out of the area of plot and submission of a detailed Geo-technical report which shall be the basis for the design and detailing of foundations for buildings and structures.
- 1.2 Item wise list of investigations to be conducted along with approximate estimated quantities are given at Schedule of Quantities against which the agency shall quote the rates in figures as well as in words. However, payment shall be made as per quantities actually executed.
- 1.3 The work shall include mobilization of all necessary equipment's, providing necessary engineering supervision and technical personnel, skilled and unskilled labour etc. as required to carry out the entire field as well as laboratory investigation, analysis and interpretation of data collected and preparation of a Geo-technical report.
- 1.4 The Agency shall make their own arrangements for locating the coordinates and positions of bore holes, trial pits and other field tests as per the drawings/sketches supplied to him and for determining the reduced levels (R.L's) at these locations with respect to the single bench mark indicated by the Engineer. Two established reference lines will be indicated to him.
- 1.5 All the field and laboratory data shall be recorded in the proforma recommended in Indian Standards codes. The Agency shall submit to the HSCC one copy of field bore logs and all the field records (countersigned by the Engineer) soon after the completion of each borehole/test.
- 1.6 The Agency shall interact with HSCC and get acquainted with the broad guidelines about the different types of structures envisaged and in assessing the load intensities on the foundations for the various structures of the project in order to enable him to make specific recommendations for the depth, founding stratum, type of foundation and the allowable bearing pressure.
- 1.7 **FIELD INVESTIGATIONS –SOIL**
- 1.7.1 **BORING**
- a) Bore holes shall be taken at specified locations to obtain information about the subsoil profile, its nature and strength and to collect soil samples for strata identification and conducting laboratory tests. The sequence of boring shall be fixed with the approval of the Engineer and on ascertaining preliminary nature of subsoil profile, the Engineer shall reserve the right to increase or decrease the number of proposed Bore holes by any limit. However, payment shall be made as per actual quantities executed.

- b) All boreholes shall extend up to 10.0 to 25.0 Mtr. depths or depths shown on the construction drawings or as directed by the Engineer. The refusal criteria shall be strictly as per IS: 1892. When the boreholes are to be terminated in soil strata an additional Standard Penetration Test shall be carried out at the termination depth. No extra payment shall be made for carrying out Standard Penetration Tests. The site data shall be made available to HSCC as and when each bore is completed either by fax/ courier/speed post/ hand delivery showing location of the borehole on the plan and the soil data along with visual description. The comments regarding the strata and the nature of variations shall also be included.
- c) On completion of the boreholes, the Agency shall backfill all the bore holes as directed by the Engineer. The boreholes shall not be back filled till verified by the Engineer. Arrangements shall be made by the agency to preserve the boreholes so that the depth can be verified.

1.7.2 SAMPLING

1.7.2.1 General

All the accessories required for sampling and the method of sampling shall conform to IS: 2132. All the disturbed and undisturbed samples collected in the field shall be classified at the site as per IS: 1498.

1.7.2.2 Disturbed Sample

Disturbed soil samples shall be collected from bore holes at regular intervals. Jar samples weighing approximately 1 Kg. shall be collected in bore holes at 0.5 m below ground level and at every identifiable change of strata to supplement the boring records. Samples shall be immediately stored in air tight jars and shall fill the jar as far as possible.

Sufficient number of soil samples shall be collected. Disturbed soil samples shall be collected for field identification and conducting tests such as sieve analysis, index properties, specific gravity, chemical analysis, (chemical tests on undisturbed samples to be done so that representative chemical state of the total depth of the soil is obtained) etc. Undisturbed samples shall be collected to estimate the physical strength and settlement properties of the soil.

1.7.2.3 Undisturbed Sample

In each borehole undisturbed sample shall be collected at every change of strata and depths of 1.0 m, 3.0 m, 6.0 m, 10.0 m, 13.0 m, 15.0 m and as directed by the Engineer. Undisturbed samples shall be of 100 mm dia and 450 mm length. Samples shall be collected in such a manner that the structure of the soils and its moisture content do not get altered.

The specifications for the accessories required for sampling and the sampling procedure shall conform to IS: 1892 and IS: 2132. Undisturbed sampling in sand shall be done using compressed air technique mentioned in IS: 8763.

1.7.2.4 One of the methods shall be adopted for determining the ground water table in bore holes as per IS: 6935 and as per the instructions of the Engineer.

a) Sub-soil water samples

Sub-soil water samples shall be collected for carrying out chemical analysis thereon. Representative samples of ground water shall be collected when it is first encountered in boreholes before the addition of water to aid boring or drilling.

b) Chemical analysis of water samples shall include determination of PH value; turbidity; sulphate; carbonate; nitrate and chloride contents; presence of organic matter and suspended

1.8 LABORATORY TESTING

1.8.1 Essential Requirements

- a. Tests indicated in the schedule of items shall be performed on soil, water and rock samples as per relevant IS codes.
- b. Laboratory tests shall be conducted using approved apparatus complying with the requirements of Indian Standards or other approved standards for this class of work. The tests shall be conducted at an approved laboratory.

1.8.2 Tests

Tests as indicated in this specification and as called for by the Engineer shall be conducted. These tests shall include but not be limited to the following: -

- a) Tests on Disturbed and Undisturbed samples: -
 - Visual and Engineering Classification
 - Sieve analysis and Hydrometer analysis
 - Liquid, Plastic and Shrinkage limits
 - Specific Gravity
 - Chemical Analysis
 - Swell pressure and free swell index determination (applicable only for black cotton soil)
 - Proctor Compaction Test
- b) Tests on undisturbed samples
 - Bulk density and moisture content
 - Relative density (for sand)

1.8.3 Salient Test Requirement

- a) Chemical analysis of sub-soil shall include determination of pH value, carbonate, sulphate (both SO₃ and SO₄), chloride and nitrate contents; organic matter; salinity and any other chemical harmful to the foundation material. The contents in soil shall be indicated as percentage (%).

- b) Chemical analysis of sub-soil water sample include the determination of the properties such as colour, odour, turbidity, pH value and specific conductivity both at 25⁰ C and chemical contents such as Carbonates, Sulphates (both SO₃ and SO₄), Chlorides, Nitrates, Organic matter and any other chemical harmful to the foundation material. The contents such as Sulphates, Saltpetre, etc. shall be indicated as ppm by weight.

1.9 REPORT

1.9.1 General

- a. On completion of all the field and laboratory work, the Agency shall submit a formal report containing Geological information of the region, procedure adopted for investigation, field observations, summarised test data, conclusion and recommendations. The report shall include detailed bore-logs, subsoil sections, field test results, laboratory observations and test results both in tabular as well as graphical form, practical results both in tabular as well as graphical form, practical and theoretical considerations for the interpretation of test results, the supporting calculations for the conclusions drawn, etc. Initially the Agency shall submit three copies of the report in draft form for the Supervising Agency's review. The format of the cover page of the reports shall be got approved by the Engineer.
- b. The Agency's qualified Geotechnical Engineer shall visit Supervising Agency's office for a detailed discussion on Supervising Agency's comments on his draft report. During the discussions, Supervising Agency shall decide as to the modifications that need to be done in the draft report. Thereafter the Agency shall incorporate in his report the agreed modifications and after getting the amended draft report approved, six copies of the detailed final report (in A4 size and spiral binding with plastic covers) shall be submitted along with one set of reproducible of the graphs, tables, etc.
- c. The detailed final report based on field observation, in-situ and laboratory tests shall encompass theoretical as well as practical considerations for foundations for different types of structures envisaged in the area under investigation. The Agency shall acquaint himself about the type of structures, foundation loads and other information required from the Engineer.

1.9.2 Data to be furnished

The report (in soft as well as hard copy) shall also include but not be limited to the following: -

- a. A plot plan in A1/A0 sheet showing the locations and reduced levels of all field tests e.g. boreholes, trial pits, etc., properly drawn to scale and dimensioned with reference to the established grid lines.
- b. A true cross section of all individual boreholes and trial pits with reduced levels and coordinates showing the classification and thickness of individual stratum, position of ground water table, various in-situ tests conducted and samples collected at different depths and the rock stratum, if met with.

- c. A set of longitudinal and transverse soil profiles connecting various boreholes in order to give a clear picture of the variation of the subsoil strata as per IS: 6065 (each soil profile to be submitted in separate sheets).
- d. Past observations and historical data, if available, for the area or for other areas with similar soil profile or with similar structures in the surrounding areas.
- e. Plot of Standard Penetration Test (N values both uncorrected and corrected) with depth for identified areas.
- f. Results of all laboratory tests summarized for each sample and for each layer along with all the relevant charts, tables, graphs, figures, supporting calculations, conclusions and photographs of representative 'rock cores'.
- g. For all tri-axial shear tests stress vs strain diagrams as well as Mohr's circle envelopes shall be furnished. If back pressure is applied for saturation, the magnitude of the same shall be indicated. The value of modulus of elasticity, E shall be furnished for all tests along with relevant calculations.
- h. Soil resistivity Test results
- i. For all consolidation tests, the following curves shall be furnished:-
 - e vs log p
 - or e vs p and as per applicability
 - Compression vs log t or
 - Compression vs square root of t (depending upon the shape of the plot for proper determination of co-efficient of consolidation).

The point showing the initial condition of the soil shall be marked on curves.

The procedure adopted for calculating the compression index from the field curve and settlement of soil strata shall be clearly specified. The time required for 50% and 90% primary consolidation along with secondary settlements, if significant, shall also be calculated.

1.9.3 Recommendations

Recommendations shall be given area wise duly considering the type of soil, structure and foundation in the area. The recommendations shall include but not be limited to the following:-

1.9.3.1 For Shallow foundations

The following shall be indicated with comprehensive supporting calculations.

- a) Net safe allowable bearing pressure for isolated footings and continuous strip footings of suitable sizes (Varying from 1 to 4m) at suitable foundation depth as per site condition below ground level considering both shear failure and settlement criteria, giving reasons for type of shear failure adopted in the calculations. Such Footings to be suggested for single storeyed buildings are proposed.

- b) Net safe allowable bearing pressure for Raft Foundation at suitable foundation depth as per site condition below ground level considering both shear failure and settlement criteria, giving reasons for type of shear failure adopted in the calculations. Such Footings to be suggested for Raft Foundation giving data for modulus of Sub grade Reaction .
- c) Rate and magnitude of settlement expected of the structure.

1.9.3.2 For Pile foundations

If piling is required, the following shall be indicated with comprehensive supporting calculations:-

- a) Type of pile and reasons for recommending the same duly considering the soil characteristics.
- b) Suitable founding strata for the pile and the pile depth at respective locations.
- c) Estimated length of pile for 450 mm dia, 500 mm, 600 mm dia and any other diameter to be suggested by the investigating agencies.
- d) Type of pile- End bearing and/or Frictional resistance and whether bored cast-in-situ or Pre cast driven pile shall be indicated separately. The estimated pile capacity clearly identifying the end bearing and treated resistance capacities contributes in the total capacity.
- e) Magnitude of negative skin friction, if any, to be considered in pile design.

B. General Conditions of Contract

The General Conditions of Contract are as under.

i. Security Deposit

Security deposit at the rate of 5% of the amount of each running bill shall be retained and the same shall be released after six months of the successful completion of the work at site. However no interest shall be payable to the Agency for the amount of security deposit for the period retained by HSCC.

ii. Delay and extension

If the work is delayed by force majeure or any other cause in the absolute discretion of Employer is beyond the Agency's control, they shall immediately upon the happening of such event contributing to delays give notice thereof in writing to Employer but shall nevertheless use constantly their best endeavors to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of HSCC to proceed with the work.

Request for extension of time shall be made by the Agency in writing within seven days of the happening of the event causing delay. The survey Agency shall also indicate with any such request, the period for which extension is required. In any such case HSCC may give a fair and reasonable extension of time for completion of individual items or group of items of work for which separate period of completion is specified in the contract as a whole, but it shall be the sole discretion of the Employer to grant or refuse such extension.

The decision of HSCC in regard to the extension will be communicated to the Agency in writing within a reasonable time but no compensation or any extra amount shall be paid for such extension granted by HSCC.

iii. Compensation payable for delay in completion

The Agency shall be liable to pay compensation to HSCC in case of delay in fulfilling obligation under this agreement for causes solely attributable to the survey Agency at 1% (One percent) of contract amount per week of delay subject to maximum of 5% (five percent only) of the total contract price towards their contract.

iv. Risk Prejudice Clause

In case progress of any part of Agency's work is found to be unsatisfactory by HSCC at any time during the execution vis-a-vis, the terms of contract, HSCC shall give the Agency a fortnight's notice in writing asking for their plans for remedying the situation and to complete the job within the time mutually agreed, subject however to the conditions that the entire work falling within their scope of work shall be completed within the stipulated time. On the failure to remedy the situation as per agreed time with HSCC, HSCC shall have the right to withhold that portion of the work and get the same done at the risk and cost of the Agency after giving one weeks' notice.

v. Arbitration

If at any time any doubt, question, dispute or difference whatsoever, shall arise between the Agency and HSCC upon or relating to or in connection with this contract, either of the parties may give the other notice in writing of the existence of such doubt, question, dispute or difference and the same shall be referred to the Chairman - cum - Managing Director, HSCC or his nominee as Sole Arbitrator. The decision of the sole arbitrator thereon shall be final, conclusive and binding upon the parties to dispute. The party invoking arbitration shall specify the dispute or disputes to be referred to the arbitration under the clause together with the amount or amounts claimed in respect of each of dispute.

vi. Jurisdiction of Court

All disputes arising out of the contract shall have the jurisdiction of courts of the Union Territory of Delhi only.

vii. Termination of Contract

HSCC reserves the right to terminate, or postpone the work on account of unfulfillment of contractual obligation(s) or any sufficient cause, HSCC being sole judge of the same. The Agency shall be paid for the useful work done upto the date of termination. HSCC shall determine the credit to be given to the detailer for the value of the work executed by the Agency. The Agency shall give HSCC all the data, compiled report, drawings etc. prepared by them till the date of termination before the final dues are paid to the Agency. Even after the termination of agreement, the Agency shall continue to cooperate with HSCC to such a reasonable extent as may be necessary to clarify or explain any reports or recommendations in documents or detailing made by them.

viii. Breach of Trust

Unless otherwise directed by HSCC specifically, the Agency shall not contact directly or indirectly the client or any other authorities connected with the project. Non compliance of this clause shall be treated as breach of trust resulting in the termination of contract between HSCC and the Agency for with without any prior notice to him. In such event, no job will be entrusted to him in future by HSCC.

ix. Discussions with HSCC and Approvals

The Agency shall make themselves available at reasonable notice to be present for discussions with HSCC. The Agency shall also provide assistance, advice and information to HSCC as may be required from time to time for discussions with other agencies or HSCC officials connected with the work.

The Agency shall get approved the work done by him at every stage throughout the period from HSCC. However, such approval by HSCC shall not be deemed to absolve the Agency of the total responsibility of the correctness and soundness of the work and other obligations under this contract.

x. Guarantee and liability of the Agency

The Agency shall be liable for all consequence of errors and omissions arising from errors solely attributable to Agency or on the part of their employees to the extent and with the limitation specified by HSCC.

xi. Unit Rates

The Lump sum / Unit rates quoted shall remain firm throughout the validity of the contract. The rate shall include cost of materials, labor, tools and equipments, transport charges, taxes, royalties, octroi, GST/service tax etc. payable on all transactions for the due performance of work under this contract. The rates shall be given in the schedule, as specified herein before. No escalation shall be paid on whatever account it may be.

xii. Variation in scope of work and schedule of quantity

The scope of work & schedule of quantities may vary to any extent. The rates quoted by the Agency shall remain firm for the complete job as directed by the Engineer.

xiii. Mobilization advance

No Mobilization advance shall be paid.

xiv. Income tax

Income tax shall be deducted from Agency's bill as per rules.

xv. Computerized output

The Agency shall prepare a CD of the complete work assigned to them including drawings, report work, data, and other documents & the same shall be submitted to HSCC after completion of job. All drawings shall be on AUTOCAD and in A1 & A4 sizes only

xvi. Return of earnest Money

Earnest Money of the unsuccessful bidders shall be returned after the expiry of bid validity period.

C. COMPLETION TIME

Total time period for completion of job will be as per following from the date of issue of letter of award. The work is to be done in phases in order of priority as given below:-

Table-1

S. No.	Particulars	Collection of Field Data	Submission of Draft Report	Submission of Final Report
1.	Geotechnical Investigations (as per Scope of Work S.No 1)	2 weeks from date of award of work	3 weeks from date of award of work	1 week from the date of receipt of comments on Draft report from HSCC

D. MODE OF PAYMENT

Table-2

S. No.	Stage of Work	Percentage of Total fees payable
1.	On submission of draft Report along with field information	50
2.	On submission of final Report including photographs, calculation sheets, complete in all respects, in a CD & hard bound copy of 3 sets.	50

LETTER OF PROPOSAL/ UNDERTAKING FROM THE BIDDER

To
The Deputy General Manager(Struc)
HSCC India Limited
E-6(A), Sector-1
Noida

Sir

Reg.: Tender for Geotechnical Investigation for the Proposed Construction of Residential Blocks at AIIMS, Raipur

We submit our financial bid here with in accordance with the terms and conditions mentioned in the Request for Proposal (RFP).

We understand that

- You are not bound to accept the lowest or any bid received by you, and you may reject all or any bid
- If our bid is accepted, we are responsible for the due performance of the contract.
- Bidder means the bidder who is decided and declared so after examination of commercial bids.

Date:

Place:

Yours faithfully

Signature of Authorized Signatory
Name of Signatory
Designation
Seal of Firm/Consultant

Price Bid for the Geotechnical Investigation for Proposed Construction of Residential Blocks at AIIMS Raipur

S.No.	Description	Unit	Quantity	Rate	Amount
1	Soil boring, sampling, chemical analysis and report submission				
	Boring of holes of 150mm dia. In all types of soil excluding soft and hard rock but including boulders, gravels etc. upto the depth of 15m below the existig G.L. or refusal whichever is met earlier complete in all respects. (The quoted rate shall take care of following subheads.)				
	(a) Conducting standard penetration test in all bore holes at intervals of 1.5 m and also at change of strata as per IS codes of practices				
	(b) Collecting disturbed and undisturbed samples of soil at 1.5m interval and also at change of strata from the bore-holes.				
	(c) Recording of water table in bore hole after completion of boring as per scope of work.				
	(d) Conducting necessary tests on samples collected from each hole. The laboratory tests include chemical analysis of soil and water as per scope.				
	(e) Collection of water samples from bore holes for chemical test and analysis.	RM	195		
	Total Amount in Rs.				
	Total Amount in words				

CHECKLIST**TECHNICAL PACKAGE - Part I**

S.No	Name of Document	Mode of submission	Page No.
1.	i. Non refundable Demand Draft of Rs.500/- (Rs. Five Hundred only) as cost of bid, in favour of “ HSCC India Limited “ payable at Noida ii. Original Bid Security of Rs. 5,800/-in the form of Demand Draft/Pay order, in favour of “ HSCC India Limited “ payable at Noida (or) iii. The Firms/Consultants registered as MSEs under Ministry of Micro, Small & Medium Enterprises should submit required documents/proofs to avail the benefit of exemption from payment of Tender Fee and Earnest Money Deposit. Duly certified relevant registration certificates to be submitted	In Original before the date and time fixed for opening of bid either by registered post or by hand & Copy Online	

TECHNICAL PACKAGE - Part II

S.No	Name of Document	Mode of submission	Page No.
1.	All the information required for prequalification as mentioned in at Page No.7	Online only	
2.	Annexures I&III		
3.	Whole tender document duly signed by authorised person and stamped		

FINANCIAL PACKAGE COMPRISING OF:

S.No	Name of Document	Mode of submission	Page No.
1.	Digitally signed bid / Price Bid (Annexure-II)	Online	

Note: The bidders are required to submit all documents duly authenticated by digital signatures and online only. No hard copy of the documents is required to be submitted except

1. (a) Original non-refundable Demand Draft of Rs.500/- (Rs. Five Hundred only) as cost of bid, in favour of “HSCC (India) Ltd.” payable at Noida (b) Original bid security in approved form of Rs.5,800/- (Rs. Five Thousand Eight Hundred Only).

(or)

2. The Firms/Consultants registered as MSEs under Ministry of Micro, Small & Medium Enterprises should submit required documents/proofs to avail the benefit of exemption from payment of Tender Fee and Earnest Money Deposit. Duly certified relevant registration certificates to be submitted

Any one of the above documents should be submitted to the office of “Deputy General Manager(Structure), HSCC (India) Ltd., Plot no. E-6(A), Sector-1, Noida (U.P.) Pin-201301”, before date and time fixed for opening of bid either by registered post or by hand failing which the bid will be declared non-responsive.