Quotation Notice

Sealed quotations are invited from reputed firms/agencies for conducting field tests/ Laboratory tests for depicting the nature of sub soils, strata and evaluates the various soil properties required for computation of safe/ allowable bearing capacity required for the design of the foundation of high rise tower at lower Tank band road, Hyderabad for construction of Dr. B.R. Ambedhkar Bhavan, for preparation of SOIL INVESTIGAATION REPORT i.e. to explored as per code of practice for

a) Sub Soil profile
b) Chemical tests of Sub Soil water along with Spt curves, Liquefaction, grain Size curves and bore log tables as per IS 1982 and report shall be reviewed with detailed study with upto date expertise available for determination stabilization of Sub-Soil condition.

The salient features and precise requirements:

1. The Site is 4300 Sqm with existing Building with proposed column load of 19000 KNS max

2. The details furnished in soil Report shall be appreciable compared to other standard reports. data collected is upto 20 m in reference to international Practice including proposed increase factors taken considering buoyancy due to high water table and shall be sufficient to interpret SBC at other depths as and when required.

3. The project is located at Lower tank bund road Hyderabad for excavation depths of 5m from ground level for piles and Pile cap or with with raft . Hence we need to collect the data interpretation on SBC for 6.0m ,9.0m ,12.0m, 16m and 20 m with already available data from SOIL INVESTIGATION Consultants keeping the points 3 and 4 of below for arriving at safe working design and economy possible .

4. The settlement under Raft foundation is arrived as 50 mm at 5.0m deep (belowGL) excavation the settlements shall be obtained considering a range of down ward pressures keeping in view the reular Type of Structure (shape) and Load intensities of structure (i.e. 4P + Lobby + 12 Floors) at 5.0m , 10m and 12m depths.

5. The restrictions on change of Specifications from Client's point of view for their Rights and proposed regulations shall have to be followed

6. The site details with field test locations are given in fig (1).The site is located in Down Stream plains region of HussainSagar Lake which is formed as a result of deposition of soil transported by stream and the expected structures coming in existence at this site has spans od 10m and max load is 19000 KNS

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SCOPE OF WORK:

The planning of soil exploration for this project included the following:

1 Mobilization of men and equipments to the proposed site, setting up of the equipment and conducting the field investigations on land and demobilization after field work is completed satisfactorily.

2 The field work to be done at site comprised of:

a. Making 100-150mm diameter 3 nos bore holes at given locations using shell and auger method upto the depth of 30.0m upto the refusal strata whichever occurs earlier. The refusal means when SPT 'N' value reaches 100 for 30 cm or less penetration of SPT sampler.
b. Conducting standard penetration tests in bore holes during boring activity at 1.5m interval or at every change of strata whichever occurs earlier.
c. Collecting undisturbed & disturbed soil samples at regular interval of 3.0m depth or at every change of strata whichever occurs earlier.
d. Recording the depth of ground water table on its full stabilization in all bore holes in case of its occurrence.

3. Testing the representative soil samples in the laboratory :

a) Liquid limit & Plastic Limits.
b) Specific gravity
c) Dry density / Bulk density
d) Grain size analysis (Sieve & hydrometer analysis)
e) Direct / triaxial shear test.
f) Consolidation test.
g) Moisture content.
h) Rock testing

4. Describing sub-soil strata and preparation of bore logs.
5. Submitting of soil report in triplicate including recommendations for type of foundations and safe/allowable bearing capacity.
6. Collecting one no. of soil sample and conducting chemical analysis test (sulphate, chloride and PH value) on sub-soil sample.
7. Collecting one no. of water sample and conducting chemical analysis test (for sulphate, chloride and PH value) on the sample

Note : 1.All the bore holes and tests were carried out in the presence of the engineer-in-charge.

2. For conducting SPT, IS Code: 2131-1981 shall be followed spoon sampler attached to lower end of "A" drill rods was driven in the bore holes by means of standard hammer of 63.5kg. falling freely from a height of 75 cm. The sampler was driven 45 cm. and the number of blows required for each 15 cm. penetration were recorded.

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EMD:- Rs. 7,500/- as E.M.D. in the form of Demand draft in favour of 'DIRECTOR GENERAL' National Academy of Construction payable at Hyderabad, shall be enclosed. EMD will not be exempted under any Circumstances.

Period of completion work One month from the date of work agreement

Last date for submission of quotations 16-01-2018 by 4 PM

Eligibility Criteria:-

1) The Agency shall have well experience in conducting such type of Investigation. The agency should taken up at least three such type of similar investigations done in combined AP State / Telangana State and proof of such work orders shall be enclosed.
2) The agency should have minimum of 3 years experience in conducting such type of investigations.
3) Should poses a valid registration for conducting Soil Investigatins.
4) Must have PAN card, (5) valid registration of GST.
5) Must enclose the Laboratory details, staff working with qualifications.
6) Must submit all relevant documentary evidence in support of their eligibility.
7) Must enclose last (3) years IT returns.

C. SPECIAL TERMS AND CONDITIONS:

1. Conditional tenders will not be accepted.
2. Successful tenderer shall not be entitled to any hike in prices for any reason.
3. If the contractor fails to execute the work as per the agreement in full or part within stipulated time, it will be procured from elsewhere and extra expenditure incurred on the risk purchase will be recovered from the contractor / tenderer.
4. The Director General, NAC, Hyderabad will enter into the agreement with the successful bidder.
5. The Director General, NAC reserves the right to cancel the tender process and reject all tenders at anytime prior to the award of contract.
6. No bidder is entitled to withdraw his offer after filling. Incase of such withdrawal, the EMD deposited along with the tender schedule will stand forfeited.
7. For breach of any of the conditions prescribed in the tender and specified by the organization from time to time, the Security Deposit is liable to be forfeited. Decision of the Director General, NAC in this regard is final and binding on the Contractor.
8. The Director General, NAC has the right to impose penalties for any violation or breach of any of the clauses contained in the agreement.

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Submission of quotations:-

The agency shall submit the quotations in two covers i.e.

I. Technical bid:- Contains
   a) EMD
   b) Photostat copies of
      i) PAN CARD
      ii) Registration of GST
      iii) Last 3 years IT returns
      iv) Work order copies
      v) Valid registration for conducting such Soil investigations
      vi) Proof of such Soil investigations done
      vii) Details of Laboratory and field equipment owned by firm
      viii) Details of key technical personal employed by the firm

II. Price bid:- Contains
   i) Schedule – 'A'

The above two bids i.e. Technical bid and price bid shall be Kept in one cover and shall submit to Director (CMRI), National Academy of Construction, Kothaguda (Post), Hyderabad on or before 16-01-2018, Contact no. 9666669365.

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Schedule – 'A'

(PRICE BID)

Description of work	Rate
1 Mobilization of men and equipments to the proposed site, setting up of the equipment and conducting the field investigations on land and demobilization after field work is completed satisfactorily. 2 The field work to be done at site comprised of: a. Making 100-150mm diameter 3 nos bore holes at given locations using shell and auger method upto the depth of 20.0m or upto the refusal strata whichever occurs later. The refusal means when SPT 'N' value reaches 100 for 30 cm or less penetration of SPT sampler. If frachred / hard rock is encountered at any intermittent depth the bore hole shall be progressed with core drilling machine using tc / diamond bit. The core recovery shall be reported and the samples should be kept in core boxes for further laboratory tests. b. Conducting standard penetration tests in bore holes during boring activity at 1.5m interval or at every change of strata whichever occurs earlier. c. Collecting undisturbed & disturbed soil samples at regular interval of 3.0m depth or at every change of strata whichever occurs earlier. d. Recording the depth of ground water table on its full stabilization in all bore holes in case of its occurrence. 3. Testing the representative soil samples in the laboratory : a) Liquid limit & Plastic Limits. b) Specific gravity c) Dry density / Bulk density d) Grain size analysis (Sieve & hydrometer analysis) e) Direct / triaxial shear test. f) Consolidation test. g) Moisture content. 4. Rock core testing. 5. Describing sub-soil strata and preparation of bore logs. 6. Collecting one no. of soil sample and conducting chemical analysis test (sulphate, chloride and PH value) on sub-soil sample. 7. Collecting one no. of water sample and conducting chemical analysis test (for sulphate, chloride and PH value) on the sample. 8. Submitting of soil report in triplicate including recommendations for type of foundations and safe/allowable bearing capacity and any precautions to be taken while construction.	

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