SCOPE OF WORK AND TERMS & CONDITIONS

1. Scope of Work

Topographical survey and subsoil investigation for construction of proposed commercial cum residential complex at Rajarhat, Kolkata.

A. The broad scope of topographical survey and technical work shall be as under.

i. Contour survey (including jungle clearance) at field with recording the levels at 5 m grid on either side and contour map @ 5 m interval using a electronic total station including preparation and submission of one soft copy and two hard copies of the drawing in 1:200 scale with coordinate of permanent bench mark (one in every 20 meter) and recording manmade features and natural features ie road, culvert s nullah, trees, (girth more than 200mm) building etc.

ii. The mobilization of all tools & plants and accessories labours etc. at site including setting of boring rig for making 150 mm dia borehole.

iii. Collection of disturbed samples and conducting Standard Penetration Test (SPT) at different depths as per BIS specifications.

iv. Carrying of samples to the laboratory and performing laboratory test on disturbed and undisturbed and remodeled samples to find out LL, PL, Sieve Analysis, Hydrometer Analysis, direct shear test, Unconfined compression test, tri-axial test and determination of nature moisture content, Bulk Density, Sp. Gravity etc.

v. Preparation and submission of detail report along with recomendndation for suitable foundation system.

vi. Calculation of evaluation of sage bearing capacity & settlement of Soil, Pile load capacity (vertical & lateral) etc.

vii. Geo-technical investigation for site as per latest relevant BIS code.

viii. During sinking of bore holes soil samples both in disturbed and undisturbed conditions to be collected for laboratory tests. The disturbed samples would be subjected to tests to obtain soil index properties. The undisturbed soil samples, however, would be used mainly for conducting tests to obtain shear strength parameters as well as consolidation characteristics of the soil representing the strata.

ix. The information at the site is to be reported for various layers present at their respective depths along with their thickness in bore-log data. As ground water table location influences the method construction of foundation at a site its location also bees to be found out.

x. Conducting soil investigation work at all the locations shown in annexure, including preparation of drawings & report covering all parameters and requirements as per latest I.S. Code & standards.

xi. The contractor shall make his own arrangement for water and electrical power for construction and other purposes at his own cost and pay requisite electricity and water charges. The contractor shall also make standby arrangement for water and electricity to ensure uninterrupted supply.

2. Rate

Rate shall be firm for entire period of work. No other claim shall be entertained against the work except the BOQ rate.

3. Quantity:

Soil testing shall be carried out in making 05 nos. bore holes, the bore hole upto 35 mt depth or refusal, topographical survey shall be carried out over 1.25 acre land (approx)

3. Completion Time:

The work shall be completed in all aspect within 10 days from the date of issue of LOI / work order and the report must be submitted within 25 days from the date of issue of LOI/ Work Order.

4. Payment terms:
a) 80% payment shall be released after completion of field work and submission of two copies of test report.

b) Balance 20% shall be released after checking and verification of the report within one month from the date of submission of Report.

5. Taxes and Duties:
The rates are all inclusive all taxes and duties. ITDS shall be deducted from the bills as per prevailing rates.

6. Liquidated Damages:

In case of delay in execution of work due to reason attributable to the party. Liquidated damages shall be charged at the rate of one percent (1%) of the contract value per week. Subject to maximum of ten percent (10%) of the total value of the contract.