



# WEST BENGAL INDUSTRIAL DEVELOPMENT CORPORATION LTD.

(A GOVERNMENT OF WEST BENGAL UNDERTAKING)

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## NOTICE INVITING QUOTATION

No. WBIDC/IP/RBIP/2010-11/2015/414

### Soil Investigation for designing the foundation of truckers' amenity center building at Rishi Bankim Shilpaudyan, Naihati.

WBIDC has decided to conduct a detailed soil investigation for designing the foundation of Truckers' amenity center building at "Rishi Bankim Shilpaudyan, P.S-Naihati & Bijpur, Dist. North 24 parganas".

Therefore, sealed quotations are invited from interested Soil testing agencies indicating their total fees and service taxes as applicable.

Sealed quotation with price bid in a separate sealed envelope should be addressed to "MD, WBIDC, 'PROTITI', 23, Abanindranath Thakur Sarani, Kolkata-700017 and should reach within 17:00 hours on 22.05.2015.

Schedule for Soil Investigation			
SL. No.	Description	Unit	Qty.
1.	Transportation, mobilization and demobilization of soil equipment/machineries, placement and shifting of same from one borehole location to another for five bore holes.	L.S	1
2.	Sub-soil exploration work by conduction of 2(two) no bore holes of dia 150mm up to maximum 20.00 m depth or up to the depth of refusal/rock whichever is earlier through soft over burden soil except rock or any like hard stratum in all respect as per I.S Code: 1892 (1979) and at location as indicated in the borehole location plan. Note: Boring shall be carried out by shell and auger boring technique up to termination depth in a borehole by mechanically power-driven winch, by providing casing throughout the exploration depth.	Meters	40

3.	Conducting Field SPT as per Specifications of IS: 2131 (1981) at interval of 1.5mts starting from 0.5mts below EGL.	Nos.	50
4.	Collection of representative disturbed sample at interval of 0.5mts starting from 0.00 m below EGL as per provision of relevant IS Code.	Nos.	50
5.	Collection of 100mm dia, undisturbed sample at interval of 1.5 meters starting from 1.50m below EGL as per provisions laid down in IS: 2132 (1972)	Nos.	50
6.	Conduction of relevant laboratory test on soil samples as required viz. L.L & P.L, N.M.C, Sieve Analysis, Hydrometer Analysis, Bulk Density, Tri-axial Shear Test, Consolidation Test, Specific Gravity etc. as applicable as per provisions laid down in various sections of IS: 2720. All tests listed below should be conducted and result represented in appropriate format.	L.S	1
6.	Performing engineering analysis and submission of report containing test result observations, various relevant parameters and recommendation required for finalization of foundation type and thereafter for design of a suitable foundation system for the proposed superstructure.	L.S	1

SL. No.	List of tests to be conducted in accordance to various provisions of IS:2720
1.	Grain size analysis.
2.	Hydrometer analysis for cohesive soil sample.
3.	Liquid limit and plastic limit for cohesive soil samples.
4.	Specific gravity.
5.	Natural moisture content.
6.	Natural density, Dry density, Bulk density.
7.	Void ratio.

8.	Unconfined compressive tests on all undisturbed soil sample.
9.	Triaxial shear tests in unconsolidated undrained condition on cohesive soil samples for determination of strength parameter values like Cohesion, C <sub>uu</sub> , Angle of friction etc.
10.	Triaxial shear tests in consolidated drained condition on granular soil samples for determination of strength parameter values like Angle of friction etc.
11.	Direct shear tests on granular soil samples for determination of strength parameter values like Angle of friction.
12.	Consolidation tests on cohesive soil samples for determination of settlement potentials.

**Deliverables:**

3 sets of hard copies of test results represented in appropriate format along with soft copies of the same in pdf. format.

**Terms of payment:**

Payment for the above mentioned work will be made within 21 days from submission of bill along with necessary deliverables.

**Time of Completion:**

Work should commence within 3 (Three) days of issue of work order and should be completed in all respects within 21(Twenty one) days. Exact location details of boring will be provided by WBIDC.

*Note: Agency should visit work site before quoting rate. If any bore cannot be progressed to the designed depth due to any reason, then agency shall have to go for boring at a new suitable location to be indicated by WBIDC and in that case no extra payment shall be made.*

By order of  
Executive Director-I  
WBIDCL