



Balmer Lawrie & Co Ltd.
(A Government of India Enterprise)
Engineering & Projects Department
21, Netaji Subhas Road
Kolkata-700 001

**TENDER FOR TOPOGRAPHICAL SURVEY & SOIL
INVESTIGATION WORK**

FOR

**TEMPERATURE CONTROLLED WAREHOUSE AT INDUSTRIAL
ESTATE PLOT NOS. 5 &13(P), CHHATABAR, DIST-KHORDA,
ODISHA**

TENDER NO: EP/TCW/BHU/SURVEY/SOIL/02

TENDER DATE: 07.06.19

PRICED BID (PART-II)

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SCHEDULE OF WORK

Name of work : Land Survey & Soil investigation Work at Plot no. 5 & 13(P), Industrial estate, Chhatabar, Khorda, Odisha					
SI No	Description	Unit	Qty	Rate in (Rs.)	Amount in (Rs.)
1	Mobilization, at site with all necessary plant and machinery, providing site establishment etc. The item also includes providing enabling works like platforms and temporary approaches etc to carry out the work.	LS	1		
2	Clearing of bushes, shrubs, trees etc including uprooting to facilitate soil investigation work and clearing, carting away material outside our premises. Plot area approx. 1.5 acres	LS	1		
3	Carryout 150 mm dia investigation bores up to a maximum depth of 15 M from existing ground level or upto refusal strata as per scope of work, preparing bore log data etc., arranging collection of undisturbed soil samples complete (4nos bore holes to be done).	RM	60		
4	Carry out standard penetration test at an interval of 2.0M and /or starting of every new soil strata. Collection of field data for preparation of investigation report and working out the bearing capacity.	Nos	30		
5	Collect disturbed soil samples every 3 meter or at change in strata for physical identification and preparation of boring log.	Nos	20		
6	Collect water samples in one gallon capacity polythene container and indicate water table in the report.	Nos	02		

7	Conduct laboratory test as required:				
i	Natural moisture content	Nos	20		
ii	Liquid limit	Nos	20		
iii	Plastic limit	Nos	20		
iv	Bulk and dry density	Nos	20		
v	Specific gravity	Nos	20		
vi	Particle size distribution				
	i) Sieve	Nos	20		
	ii) Hydrometer	Nos	20		
vii	Triaxial / direct shear test	Nos	8		
vii	Consolidation test	Nos	8		
ix	Chemical test analysis for pH sulphate and chloride content				
	i) On soil	Nos	8		
	ii) On water	Nos	8		
8	Determination of CBR value on laboratory samples.	Sets	8		
9	Conducting field CBR value at site to determine quality of existing soil surface.	Nos	2		
10	Dynamic cone penetration test.	Nos	2		
11	Preparation and submission of soil investigation report based on field data available from the tests. The report should be prepared in line with the scope of work enclosed. It should include specific recommendation regarding net soil bearing capacity based on the field data. The supporting calculations for deriving bearing capacity should be a part of the report. The report should include all other information as per requirement stipulated in scope of work.	LS	1		
12	Conducting detailed topographical & contour survey by using TOTAL STATION INSTRUMENT i.e to pinpoint all salient features such as roads, boundary wall, electric/ telephone lines, nallah, drain,	LS	1		

	trees, building etc. taking all boundary measurement, internal angles, north direction, establishing HFL, invert level of final storm water discharge point taking spot levels at 4M x 4M grid or as specified, plotting and developing survey drawing on Autocad of 0.25m contour interval etc including mobilization and demobilization of all instruments, personnel , fixing one stone pillar or other means as suitable at site for TBM etc all complete as per direction of Engineer-in-Charge. Cost also to include putting up atleast 8nos concrete precast pillar to mark four corner points and intermediate points of the entire plot for future reference.				
	TOTAL				
	Add GST @ 18%				
	TOTAL WITH GST				
	(Rupees.....only)				

Name of the Tenderer:
Name of the Signatory:

Date:

Sign:

Seal:

Notes:

1. The quoted price shall remain firm during the execution of the CONTRACT.
2. GST shall be payable extra and the party needs to submit documentary evidence towards deposit of same.