

**DR. RAM MANOHAR LOHIA HOSPITAL (RML)  
NEW DELHI**

**TENDER**

**FOR**

**Geo-technical (Soil) Investigation & Hydro-  
geological Survey works for the work of  
Redevelopment plan of Dr. RML Hospital,  
New Delhi**

**BILL OF QUANTITIES**

**(B.O.Q.)**

**VOLUME- II**

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HSCC (INDIA ) LTD.  
(CONSULTANTS & ENGINEERS FOR MEGA HOSPITALS & LABORATORIES)  
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**Tender No:- HSCC/RMLH/Soil-Survey/2013**

**Bill of Quantities**

**Tender for "Geo-technical (Soil) Investigation & Hydro-geological Survey works for the work of Redevelopment plan of Dr. RML Hospital, New Delhi."**

S.No.	Description	Unit	Quantity	Rate in Figures (in Rs.)	Rate in Words (in Rs.)	Amount
<b>1</b>	<b>Soil boring, sampling, chemical analysis and report submission</b>					
	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 30m 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	100			
<b>2</b>	<b>Plate Load Test</b>					
	Conducting plate load tests using 750mm x 750mm square plate. Test should be continued till 25mm settlement in normal circumstances and 50mm in special cases such dense gravel, gravel and sand mixture	Each	1			
<b>3</b>	<b>Rock Sampling</b>					
	Boring of holes of 150mm dia. Into hard rocks in case hard rock is met at a depth lesser than 30 meter below the existing G.L. or refusal whichever is met earlier complete in all respects	Metre	10			

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<b>4</b>	<b>Other penetration tests:</b>					
	Conducting static cone penetration test as specified and in locations indicated and depth upto 10.0 m or refusal whichever is earlier	Each	3			
	Conducting Dynamic cone penetration test as specified and in locations indicated and depth upto 10.0m or refusal whichever is earlier.	Each	3			
	Conducting field density test as specified at 1.5m, 2.5m and 3.5m depth at each locations.	Each	3			
<b>5</b>	<b>Ground water investigation</b>					
	Ground water investigation by Geo-physical equipments for assessment of availability of ground water at site as per scope of work specified including the followings:					
	(a) Collection of geophysical field data at 4 no of required locations to suggest 2-3 no of tube wells/dug wells.					
	(b) Collection of data from existing underground water sources,.					
	(c) Collection of water samples from 2 no locations of existing underground sources and getting them tested (Physical, Chemical & Bacteriological) at every location. Suggesting design of tube wells/dug wells					
	(d) Suggested design for Rain water Harvesting System	Lumpsum	1			
<b>6</b>	Conducting soil resistivity test as per IS 3043 and submission of test results as part of draft and final report.	Each	1			
	<b>TOTAL</b>					