

**POST GRADUATE INSTITUTE OF MEDICAL
EDUCATION & RESEARCH
CHANDIGARH**

Tender

For

**Topographical, Geotechnical & Hydrological
Survey Works for the Construction of
Temporary OPD, Guest House and Boundary
Wall for PGI Satellite Centre at Sangrur,
Punjab**

**Price Bid / Bill of Quantities
(B.O.Q.)**

VOLUME-II

DECEMBER' 2013



**HSCC (INDIA) LTD.
(CONSULTANTS & ENGINEERS FOR MEGA HOSPITALS & LABORATORIES)
E-6(A), sector-1, NOIDA(U.P) 201301 (India)**

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Tender No:- HSCC/ PGI/SANGRUR/SOIL/2013

Price Bid : - for Geo-technical (Soil) investigation and Topographical survey works for the Construction of Temporary OPD, Guest House and Boundary Wall for PGI Satellite Centre at Sangrur, Punjab.

BILL OF QUANTITIES

S.No.	Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
1	Topographical Survey, Collection of field and report Submission:					
	(a) Site Survey and Collection of Field Data as per defined scope of work of the area ear marked in enclosed layout drawing.	Acre.	26			
	(b) Construction of Bench Mark and providing fencing around them as per drg. supplied.	No	1			
2	Soil boring, sampling, chemical analysis and report submission					
	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	RM	130			
	(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.					

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S.No.	Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
3	Plate Load Test					
	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 is obtained or failure of the soil whichever is earlier as per IS:1888 or refusal whichever is earlier	Each	02			
4	Rock Sampling					
	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	12			
5	Other penetration tests:					
	Conducting static cone penetration test as specified and in locations indicated and depth upto 10.0 m or refusal whichever is earlier	Each	07			
	Conducting Dynamic cone penetration test as specified and in locations indicated and depth upto 10.0m or refusal whichever is earlier.	Each	07			
	Conducting field density test as specified at 1.5m, 2.5m and 3.5m depth at each locations.	Each	07			

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BILL OF QUANTITIES

S.No.	Description	Unit	Quantity	Rate in figures (Rs.)	Rate in words (Rs.)	Amount (Rs.)
6	Ground water investigation					
	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,.	Lumpsum	01			
	(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					
7	Conducting soil resistivity test as per IS 3043 and submission of test results as part of draft and final report.	Each	01			
					TOTAL	