

CONSTRUCTION OF NEW PAVILION BUILDING AT ABBOTTABAD CRICKET STADIUM					
GEOTECHNICAL INVESTIATIONS					
BILL OF QUANTITIES					
Sr. No.	Description	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
A.	FIELD INVESTIGATIONS				
A1	Mobilization and demobilization of at least one (01) straight rotary / percussion drilling rig alongwith allied accessories at site including setting up and shifting from one investigation point to another. The equipment should be sufficient enough to complete the work within scheduled time.	L.S	Job		
A2	Execution of three (03) boreholes upto a maximum depth of 20 m at pavilion location below NSL or rock strike level whichever is met earlier, by straight rotary/ percussion drilling method including backfilling of boreholes to their original position. Minimum permissible diameter of borehole is 250 mm for percussion method and 101 mm for straight rotary method.	L.M.	35		
A3	Continuous core drilling in bedrock (NX size in general) up to a maximum depth of 10 m below rock strike level, including preservation of core samples in core boxes, waxing of core samples, photography of rock cores and transportation of core samples to the laboratory	L.M.	25		
A4	Performance of Standard Penetration Tests (SPTs) in boreholes along with collection of SPT samples at 1.0 m interval in general, or as necessary, including their labelling, packing, storage & transportation to an approved testing laboratory.	No.	32		
A5	Collection of undisturbed soil samples from boreholes through Shelby/Denison/Pitcher samplers, including their waxing, labelling, packing, storage & transportation to an approved testing laboratory.	No.	3		
A6	Collection of water samples (if encountered) from boreholes including their labelling, packing, storage & transportation to an approved testing laboratory.	No.	3		
	Total	Rs.			
<p>Establishment of coordinates and ground elevations of all the boreholes using Total Station are included in the scope of work. The coordinates should be provided with reference to a permanent local bench mark.</p> <p>All soil samples must be labelled, stored and transported as per ASTM. The area ratio and clearance ratio of the thin walled tube, should be in strict compliance with relevant ASTM standard.</p> <p>Contractor will be responsible for arrangement of Personnel Protective Equipments (PPEs) such as safety helmets and jackets for NESPAC site supervisory / visiting staff.</p> <p>The preferred method of drilling is straight rotary. Percussion boring will be allowed only in case of gravelly strata.</p>					



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Sr. No.	Description	Unit	Qty.	Rate	Amount
B.	LABORATORY TESTING			(Rs.)	(Rs.)
B1	Sieve analysis	No.	15		
B2	Hydrometer Analysis	No.	4		
B3	Liquid and plastic limits	No.	8		
B4	Bulk density & dry density	No.	3		
B5	Consolidation with Swell Pressure Measurement	No.	3		
B6	Unconfined compression	No.	3		
B7	Direct Shear Test	No.	3		
B8	Uniaxial Compression	No.	12		
B9	Point Load Index on Rock Samples	No.	8		
B10	Sulphate content of soil	No.	3		
B11	Chloride content of soil	No.	3		
B12	Organic matter content of soil	No.	3		
B13	Complete chemical analysis of water samples i/c TDS, Cl, SO4 & pH	No.	3		
Sub- Total B				Rs.	
Name Of Laboratory:					
Total (A+B)=				Rs.	
Say				Rs.	

