

TABLE 1: LABORATORY TEST RESULTS

Bore Hole No.	Type	Depth (m)	Standard Penetration Resistance 'N' value	Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Natural Moisture Content (%)	Bulk Density (gm/cc)	Dry density(gm/c.c.)	Liquid Limit(%)	Plastic Limit (%)	Plasticity Index (%)	IS Classification	Type of Test	Co-hesion (kg/cm ²)	Angle of Friction (degree)	Sp.Gravity	Pressure Range (kg/cm ²)	m _v (cm ² /kg)	
BH-1	U	3.00	-	-	2.45	62.6	35.0	21.3	1.853	1.528	47.6	23.8	23.8	CI	UU	0.34	2.0	2.63	0.25-0.5 0.5-1.0 1.0-2.0 2.0-4.0 4.0-8.0	0.0310 0.0256 0.0181 0.0124 0.0082	
	U	6.00	-	-	1.12	55.3	43.6	29.6	1.682	1.298	60.2	30.7	29.5	MH	UU	0.19	1.0	2.56	0.25-0.5 0.5-1.0 1.0-2.0 2.0-4.0 4.0-8.0	0.0496 0.0355 0.0256 0.0181 0.0123	
	P	9.00	3	-	1.09	56.5	42.4				61.3	30.5	30.8	MH							
	P	12.00	4	-	1.25	57.2	41.6				58.3	29.6	28.7	CH							
	P	15.00	4	-	1.32	58.5	40.2				56.2	28.4	27.8	CH							
	P	18.00	8	0.6	2.61	63.4	33.4				45.4	22.8	22.6	CI							
	P	21.00	33	-	89.64	10.4						Non-Plastic		SW-SM							
	P	24.50	39	-	91.28	8.7						Non-Plastic		SW-SM							

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BH-2	U	1.50	-	-	2.36	61.4	36.2	23.4	1.843	1.494	50.3	25.8	24.5	CH	UU	0.29	2.0	2.60	0.25-0.5 0.5-1.0 1.0-2.0 2.0-4.0 4.0-8.0	0.0331 0.0250 0.0183 0.0136 0.0089	
	U	4.50	-	-	1.15	56.2	42.7	29.1	1.693	1.311	58.6	29.7	28.9	CH	UU	0.20	2.0	2.57	0.25-0.5 0.5-1.0 1.0-2.0 2.0-4.0 4.0-8.0	0.0503 0.0455 0.0349 0.0219 0.0126	
	U	7.50	-	-	1.05	54.6	44.4	29.8	1.682	1.296	60.3	30.5	29.8	MH	UU	0.19	1.0	2.55			
	U	10.50	-	-	0.98	53.1	45.9	31.5	1.691	1.286	64.3	32.5	31.8	MH	UU	0.17	1.0	2.54			
	U	13.50	-	-	1.23	56.2	42.6	28.3	1.703	1.327	59.3	29.7	29.6	CH	UU	0.18	2.0	2.58	0.25-0.5 0.5-1.0 1.0-2.0 2.0-4.0 4.0-8.0	0.0502 0.0414 0.0245 0.0180 0.0123	
	P	16.50	8	0.5	2.61	62.1	34.8					46.2	23.3	22.9	CI						
	P	19.50	32	-	88.26	11.7									Non-Plastic						
	P	22.50	46	-	92.36	7.6									Non-Plastic						
	P	24.50	50	-	94.26	5.7									Non-Plastic						

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BH-3	P	1.50	3	-	2.29	60.2	37.5				51.2	25.8	25.4	CH							
	P	4.50	2	-	1.02	56.5	42.5				59.5	30.5	29.0	CH							
	U	7.50	-	-	0.97	54.6	44.4	30.5	1.681	1.288	62.4	31.3	31.1	MH	UU	0.18	1.0	2.56	0.25-0.5 0.5-1.0 1.0-2.0 2.0-4.0 4.0-8.0	0.0518 0.0452 0.0352 0.0230 0.0124	
	U	10.50	-	-	1.09	55.2	43.7	29.8	1.698	1.308	60.1	30.8	29.3	MH	UU	0.20	1.0	2.57			
	U	13.50	-	-	1.28	58.6	40.1	28.6	1.701	1.323	58.3	29.7	28.7	CH	UU	0.22	2.0	2.58	0.25-0.5 0.5-1.0 1.0-2.0 2.0-4.0 4.0-8.0	0.0491 0.0361 0.0257 0.0182 0.0121	
	P	16.50	-	-	2.56	61.5	35.9					47.3	23.8	23.5	CI						
	P	19.50	46	-	91.56	8.4						Non-Plastic		SW-SM							

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BH-4	P	3.00	-	-	2.38	61.8	35.8				49.3	24.8	24.5	CI							
	P	6.00	-	-	1.07	56.2	42.7				60.2	30.5	29.7	MH							
	U	9.00	-	-	0.98	54.3	44.7	28.5	1.686	1.312	61.5	30.7	30.8	MH	UU	0.18	1.0	2.54	0.25-0.5 0.5-1.0 1.0-2.0 2.0-4.0 4.0-8.0	0.0510 0.0449 0.0343 0.0221 0.0123	
	U	12.00	-	-	1.15	55.5	43.4	28.5	1.698	1.321	58.3	29.2	29.1	CH	UU	0.19	1.0	2.57			
	U	15.00	-	-	1.32	58.3	40.4	27.2	1.713	1.347	56.3	28.5	27.8	CH	UU	0.23	2.0	2.59	0.25-0.5 0.5-1.0 1.0-2.0 2.0-4.0 4.0-8.0	0.0473 0.0345 0.0258 0.0178 0.0117	
	P	18.00	9	0.7	2.63	63.2	33.5					45.2	22.6	22.6	CI						
	P	19.50	38	-	89.59	10.4						Non-Plastic		SW-SM							

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