

**Soil Report - Bore logs Details**

SOIL PROFILE		Project: Proposed Industrial Park (Phase -2A Area) at Eliambedu Village, Ponneri Taluk, Thiruvallur District												
		B.H. Location:		Water Table: 3.50m			Term. Depth : 22.50m			B.H. No. : 7				
N - Value#	Depth (m)	Soil Description	Grain Size Analysis					Atterberg Limits		In-situ properties		Triaxial Test		
			Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Liquid (%)	Plastic (%)	Density* (g/cm <sup>3</sup> )	Water Cont (%)	Type	c (kg/cm <sup>2</sup> )	φ (°)	
	0.0	Ground level												
8	1.5	Brown sandy silty clay	0	30	34	36	45	18	1.83	14.1	CD	0.26	16	
	2.0	Brown sandy silty clay												
	2.8	Change of strata							1.82	14.4	CD	0.16	23	
7	3.0	Brown clayey silty sand	5	36	36	23	29	17						
	3.5	Brown clayey silty sand							1.83	13.9	CD	0.12	25	
8	4.5	Brown clayey silty sand with gravel	4	43	33	20	26	15						
	5.0	Brown clayey silty sand with gravel							1.86	14.9	UCC	0.61	0	
10	6.0	Brown sandy silty clay with gravel	5	25	33	38	50	19						
	6.5	Brown sandy silty clay with gravel							1.86	14.1	UCC	0.66	0	
12	7.5	Brown sandy silty clay with gravel	2	16	40	42	53	22						
	8.0	Brown sandy silty clay with gravel							NP	-				
	8.9	change of strata												
53	9.0	Brown silty sand with gravel	2	91	7	0	-	-	Sample slipped					
	9.5	Brown silty sand with gravel												

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N - Value#	Depth (m)	Soil Description	Grain Size Analysis					Atterberg Limits		In-situ properties		Triaxial Test	
			Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Liquid (%)	Plastic (%)	Density* (g/cm <sup>3</sup> )	Water Cont (%)	Type	c (kg/cm <sup>2</sup> )	φ (°)
57	10.5	Brown silty sand with gravel	5	90	5	0	-	NP	Sample slipped				
	11.0	Brown silty sand with gravel											
	11.8	Change of Strata											
57	12.0	Brown clayey silty sand	0	39	36	25	33	16	Sample slipped				
61	13.5	Brown clayey silty sand	0	47	31	20	29	15					
	14.9	Change of Strata							Sample slipped				
52	15.0	Brown sandy silty clay	0	13	42	45	56	22					
44	18.0	Brown sandy silty clay	0	17	41	42	53	21					
	19.5	Refusal Strata											
>100 (79/21cm)		Brown clayey silty sand (Hard soil)	4	58	23	15	23	13					
>100 (94/18cm)	21.0	Brown clayey silty sand (Hard soil)	1	69	21	9	-	NP					
>100 (50/5cm)	22.5	Brown clayey silty sand (Hard soil)	2	66	21	12	-	NP					

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\*-Natural Bulk Density # -N Values (Observed)

SOIL PROFILE		Project: Proposed Industrial Park (Phase -2A Area) at Eliambedu Village, Ponneri Taluk, Thiruvallur District											
		B.H. Location:	Water Table: 3.70m				Term. Depth : 22.60m			B.H. No. : 8			
N - Value#	Depth (m)	Soil Description	Grain Size Analysis				Atterberg Limits		In-situ properties		Triaxial Test		
			Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Liquid (%)	Plastic (%)	Density (g/cm <sup>3</sup> )	Water	Type	c (kg/cm <sup>2</sup> )	φ (°)
	0.0	Ground level											
7	1.0	Brown silty sand	0	80	20	0	-	NP	1.77	7.5	DS	-	28
	1.5	Brown silty sand											
	2.4	Change of strata											
8	2.5	Brown clayey silty sand with gravel	2	36	35	27	36	17	1.82	14.2	CD	0.16	23
	3.0	Brown clayey silty sand with gravel											
9	4.0	Brown clayey silty sand with gravel	8	35	33	24	33	16	1.83	13.9	CD	0.15	24
	4.5	Brown clayey silty sand with gravel											
11	5.5	Brown clayey silty sand	0	62	25	13	20	13	1.83	12.5	CD	0.08	27
	6.0	Brown clayey silty sand											
15	7.0	Brown clayey silty sand with gravel	24	54	15	7	-	NP					
	7.5	Brown clayey silty sand with gravel								Sample slipped			
	8.0	Change of strata											
27	8.5	Brown silty sand with gravel	3	83	14	0	-	NP					
	9.0	Brown silty sand with gravel								Sample slipped			
	9.5	Change of strata											
16	10.0	Brown clayey silty sand with gravel	7	63	19	11	-	NP					
	10.5	Brown clayey silty sand with gravel								Sample slipped			

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N - Value#	Depth (m)	Soil Description	Grain Size Analysis				Atterberg Limits		In-situ properties		Triaxial Test		
			Gravel (%)	Sand (%)	Silt (%)	Clay (%)	Liquid (%)	Plastic (%)	Density (g/cm <sup>3</sup> )	Water Cont (%)	Type	c (kg/cm <sup>2</sup> )	φ (°)
22	11.5	Brown clayey silty sand	0	55	29	16	23	13					
	12.0	Brown clayey silty sand							1.96	12.1	CD	0.11	27
50	13.0	Brown clayey silty sand	0	57	28	15	21	13					
	14.3	Change of Strata											
53	14.5	Brown sandy silty clay	0	20	39	41	52	20					
45	16.0	Brown sandy silty clay	0	24	35	40	50	20					
	16.5	Brown sandy silty clay							2.04	12.3	UCC	1.22	0
	17.3	Change of Strata											
44	17.5	Brown clayey silty sand with gravel	2	37	36	25	32	16					
	19.60	Refusal Strata											
>100 (79/23cm)		Brown clayey silty sand with gravel(Hard soil)	3	38	35	24	30	16					
>100 (99/26cm)	21.0	Brown clayey silty sand with gravel(Hard soil)	4	44	32	20	27	15					
>100 (50/6cm)	22.60	Brown clayey silty sand with gravel(Hard soil)	8	40	31	21	27	15					
		*-Natural Bulk Density # -N Values (Observed)											

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