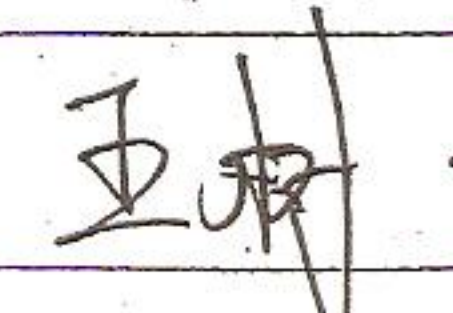


Borehole drill Requirements

underwrite of design institute :

date: 14/12/09

Hole No.	414		Type	Control	
coordinate	East	15863.10 m	Remark		
	North	20998.20 m			
altitude	63.664 m		Remark		
Design Depth (m)	28 m		Depth of groundwater	beginning	—
Finished Depth(m)	28.10 m			stable	3.14 m below E.G.L.
Requirements	Undisturbed sample	Be collected in clay soil and sand Collected at the depth of 1.00 m below the earth surface at regular interval of 1.50 m one by one			
	disturbed sample	Be collected in sand and sandy soil Collected from SPT,			
	SPT	Be performed in all soil and cw rock Performed at the depth of 1.50 m below the earth surface at regular interval of 1.50 m one by one			
	DPT	Be performed in cw rock or hw rock at regular interval of 2.00 m one by one			
	Term of Finished	Be drilled to 3 meters deep into medium weathered bedrock			
Result	samples		VDS ⇒ Nil		
	SPT & DPT		SPT ⇒ 02		
	finitude of stratum		0.00 m to 0.50 m ⇒ Sand 0.50 m to 4.50 m ⇒ M.W. to S.W. Rock. 4.50 m to 13.50 m ⇒ Fresh Rock. 13.50 m to 28.10 m ⇒ Fresh Rock.		
Deputy of investigator (signature)				EPC contractor&design (signature)	



Record of Boring

Project No.: _____

Page: 02/05

Pit or Borehole No.: 414

Elevation of Pit or borehole: 63.664 m

Length and Width of Pit: _____ m

Diameter of Borehole: 150 / NX mm

Depth of Pit : _____ m

Depth of Borehole: 28.10 m

The buried depth of groundwater:

the beginning: _____

the stable: 3.14 m below E.G.L

Duration: From 10 / 12 / 09 (day/month/year) Start
To 14 / 12 / 09 (day/month/year) End

Record of Sampling

No.	Depth (m)		lithology	Un-disturbed	Disturbed	No.	Depth(m)		lithology	Un-disturbed	Disturbed
	from	to					from	to			
01	0.20	0.24			(R)						
02	0.50	0.53			(R)						
Date: / (day/month)			Weather			The accumulative depth drilled					
10	1	12	Sunny			0.00m to 4.50m					
11	1	12	Sunny			4.50 m to 10.50m					
12	1	12	Sunny			10.50 m to 16.50m					
13	1	12	Sunny			16.50 m to 22.50 m					
14	1	12	Sunny			22.50m to 28.10 m					

Recorded: Sumit Kumar

Checked: _____

Record of SPT

borehole No.: 414

Page: 03/05

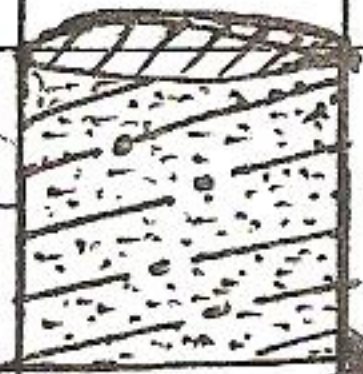
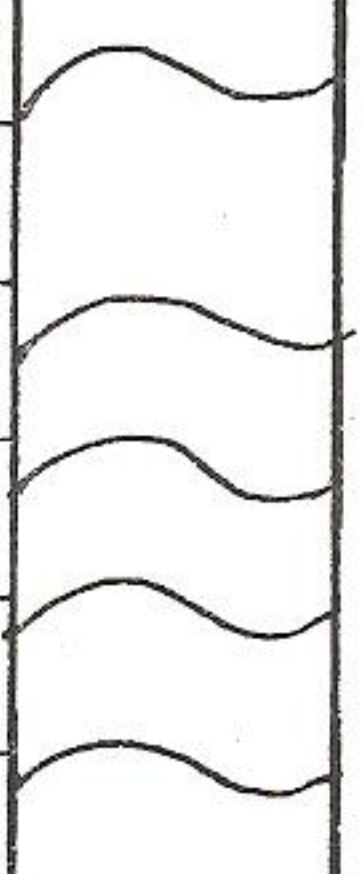
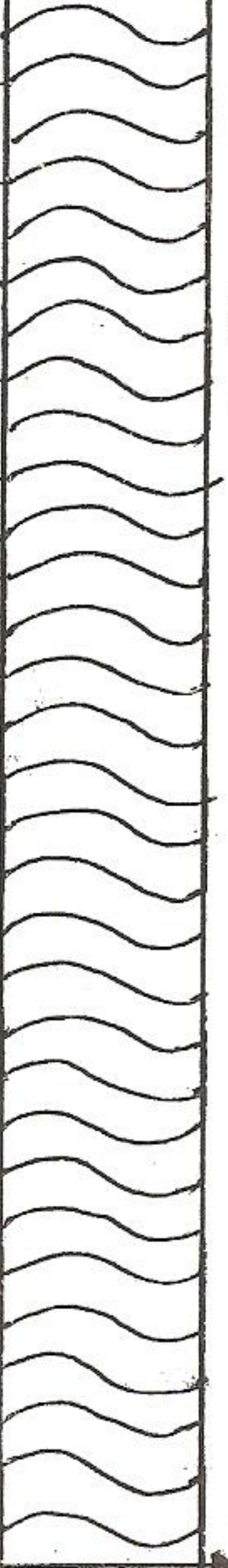
[illegible]

Recorded:

Checked:

Sumit Karmakar

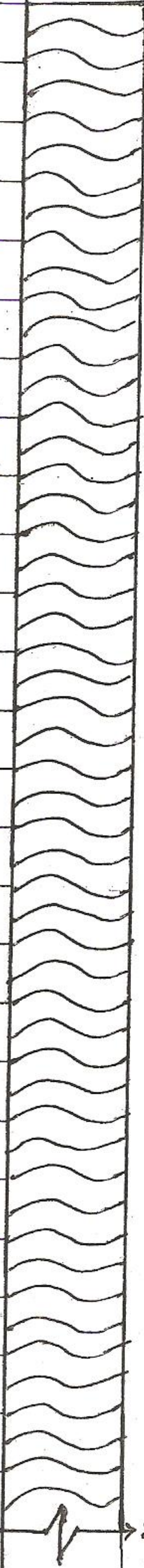
04/05

Depth		Describing for subsoils			Borelog	Remarks
From m (m)	To (m)	The lithology, color, state, objects contained, and the other properties of the subsoils	Density	Humidity		
0.00	0.50	Sand $\Rightarrow$ very dense, Yellowish grey, silty sand.	V. D	Saturated		0.00 Sand. 0.50 m
0.50	4.50	M.W. to S.W. Rock $\Rightarrow$ Moderately to slightly weathered, Yellowish grey, medium to fine grained sand stone.				0.50 65% 30% R1 1.80 85% 31% R2 3.00 86% 25% R3 4.50 92% 44% R4 6.00 91% 48% R5 7.50 96% 74% R6 9.00 95% 50% R7 10.50 97% 61% R8 12.00 98% 72% R9 13.50
4.50	13.50	Fresh Rock $\Rightarrow$ Fresh, light blackish grey, medium to fine grained sand stone. obs. Alternation of laminated Shale throughout the hole depth.				4.50 Fresh Rock. 13.50

Sumit Kumar

Continues
→

05/05

Depth		<u>Describing for subsoils</u>			Borelog	Remarks
Fro m (m)	To (m)	The lithology, color, state, objects contained, and the other properties of the subsoils	Density	Humidity		
13.50	28.10	Fresh, light blackish grey, medium to fine grained, sand stone. obs. Alternation of laminated shale through the hole depth.				→ 13.50
						13.50 99% 77% R10 ↓
						15.00 93% 80% R11 ↓
						16.50 98% 76% R12 ↓
						18.00 97% 81% R13 ↓
						19.50 97% 83% R14 ↓
						21.00 95% 78% R15 ↓
						22.50 99% 89% R16 ↓
						24.00 97% 85% R17 ↓
						25.50 98% 81% R18 ↓
						27.00 98% 82% R19 ↓
						28.10
					↗ 28.10 m	

Sumit Karmakar