

FIG DRILLING LOG

Remarks
 0: Disturbed Soil Sample

Project No. _____

Project The Study on Construction of Bridge over the River Puga in Khulna

Type of Drilling Rotary

Hole Number BH-14FB (PAGE 3 of 3)

Date 31/10/99 - 01/11/99 & 21/11/99 - 28/11/99

Water Table 0.720 m.

Elevation PWD-6858 (STA 6+710) m.

Driller _____

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test								
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 15 cm			N - Value				
												15cm	15cm	15cm	10	20	30	40	50
61	-67.90	61.00	10.50	x x x x x	Sand	Light Grey	Very Dense	Sand is fine to medium grained. Slightly silty and trace of mica throughout.	60.15 60.45	0-43S	104	27	16	58	104	BLOWS/30cm	✓		
62				x x x x x	Silty Sand	Light Grey	Very Dense	Non plastic. Silty fine sand. trace of mica throughout. trace of gravel between 78 and 84m.	61.65 61.95	0-11S	119	34	52	67	119	BLOWS/30cm	✓		
63				x x x x x					63.15 63.45	0-12S	70	24	32	38	70	BLOWS/30cm	✓		
64				x x x x x					64.65 64.95	0-43S	121	29	52	69	121	BLOWS/30cm	✓		
65				x x x x x					66.15 66.38	0-11S	128/23	35	66		128	BLOWS/23cm	✓		
66				x x x x x					67.65 67.95	0-45S	109	34	44	65	109	BLOWS/30cm	✓		
67				x x x x x					68.15 68.45	0-46S	103	37	44	59	103	BLOWS/30cm	✓		
68				x x x x x					70.65 70.95	0-47S	191	49	90	104	191	BLOWS/30cm	✓		
69				x x x x x					72.15 72.45	0-43S	211	36	99	112	211	BLOWS/30cm	✓		
70				x x x x x					74.65 74.80	0-42S	104/15	42	104		104	BLOWS/15cm	✓		
71				x x x x x					75.15 75.30	0-50S	116/15	47	116		116	BLOWS/15cm	✓		
72				x x x x x					76.65 76.80	0-51S	126/15	64	126		126	BLOWS/15cm	✓		
73				x x x x x					78.15 78.30	0-52S	143/15	80	143		143	BLOWS/15cm	✓		
74				x x x x x					79.65 79.80	0-53S	151/15	78	151		151	BLOWS/15cm	✓		
75				x x x x x					81.15 81.30	0-54S	152/15	92	152		152	BLOWS/15cm	✓		
76				x x x x x					82.65 82.88	0-55S	118/23	38	70	68/8	118	BLOWS/23cm	✓		
77				x x x x x					84.15 84.38	0-56S	122/23	42	75	67/8	122	BLOWS/23cm	✓		
78				x x x x x					85.65 85.88	0-57S	134/23	41	82	52/8	134	BLOWS/23cm	✓		
79				x x x x x					87.15 87.38	0-58S	126/23	44	70	58/8	126	BLOWS/23cm	✓		
80				x x x x x					88.65 88.88	0-59S	130/23	46	78	62/8	130	BLOWS/23cm	✓		
81				x x x x x					90.15 90.38	0-60S	137/23	46	71	68/8	137	BLOWS/23cm	✓		
82				x x x x x															
83				x x x x x															
84				x x x x x															
85				x x x x x															
86				x x x x x															
87				x x x x x															
88				x x x x x															
89				x x x x x															
90	-97.25	90.38	29.38	x x x x x															
91				x x x x x				-END OF DRILLING-											

FIG DRILLING LOG

Project No. _____

Project The Study on Construction of Bridge over Pe River Rupsa in Khulna

Type of Drilling Rotary

Hole Number 84-18A2 (PAGE 1 of 3)

Date 11/1/93 - 31/1/93

Water Table OL-1.70 m.

Elevation P40+245 (STA 6+861) m.

Driller _____

Remarks

0 : Disturbed Soil Sample

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test									
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 15 cm			N - Value					
												15cm	15cm	15cm	10	20	30	40	50	
1				x x x x	Clayey Silt	Light Brown To Grey	Very Soft	Oxidized zone. trace of fine sand.												
2	1.74	2.50	2.50	x x x x					1.65	0-78	2	0	0	2						
3				v v x x	Silty Clay	Light Brown To Grey	Medium	Oxidized zone. Medium plastic. Trace of roots.	3.15	0-28	5	0	2	3						
4	0.24	4.00	1.50	v v x x	Silty Clay	Grey	Soft	Plastic. trace of roots.	3.45											
5				v v x x					4.65	0-38	3	0	1	2						
6	-1.26	5.50	1.50	x x x x	Clayey Silt	Grey	Soft	Low plastic. With decomposed organic matter.	4.95											
7				x x x x					6.15	0-48	4	0	2	2						
8	-2.26	7.00	1.50	v v x x	Silty Clay	Grey	Very Soft	Highly plastic. With decomposed organic matter.	6.45											
9				x x x x	Sandy Silt	Light Grey	Very Loose	Non plastic. Sand is fine grained. Little clay.	7.65	0-58	1	0	0	1						
10	-4.26	8.50	1.50	x x x x					7.95											
11	-5.76	10.00	1.50	x x x x	Silty Sand	Light Grey	Medium	Sand is fine grained. trace of mica throughout. Little silt at 0-9 and 0-10. With seams of clayey silt at 0-10.	9.15	0-68	3	0	0	3						
12				x x x x					9.45											
13				x x x x					10.65	0-78	24	7	10	14						
14				x x x x					10.95											
15				x x x x					12.15	0-88	23	6	9	14						
16				x x x x					12.45											
17				x x x x					13.65	0-98	22	12	13	9						
18				x x x x					13.95											
19	-14.76	19.00	9.00	x x x x					15.15	0-108	19	14	11	8						
20				x x x x	Sand	Light Grey	Medium	Sand is fine grained. With seams of clayey silt throughout. trace of mica throughout.	15.45	0-118	12	8	5	7						
21				x x x x					16.65											
22				x x x x					16.95											
23				x x x x					18.15	0-128	14	7	7	7						
24				x x x x					18.45											
25				x x x x					19.65	0-138	14	8	6	6						
26				x x x x					19.95											
27				x x x x					21.15	0-148	16	8	9	9						
28				x x x x					21.45											
29				x x x x					22.65	0-158	19	8	7	12						
30	-25.26	29.50	10.50	x x x x					22.95											
31				x x x x					24.15	0-168	20	8	9	11						
				x x x x					24.45											
				x x x x					25.65	0-178	20	8	9	11						
				x x x x					25.95											
				x x x x					27.15	0-188	23	8	10	13						
				x x x x					27.45											
				x x x x					28.65	0-198	24	8	11	13						
	-26.26	31.00	1.50	x x x x	Silty Sand	Light Grey	Medium	Sand is fine grained. trace of mica.	28.95											
				x x x x					30.15	0-208	26	8	11	15						
	-26.76	31.00	1.50	x x x x					30.45											

FIG DRILLING LOG

Project No. _____

Project The Study on Construction of Bridge over the River Rupsa in Khulna

Type of Drilling Rotary

Remarks

0 : Disturbed Soil Sample

Hole Number 81-18A2 (PAGE 2 of 3)

Date 27/7/93 - 31/7/93

Water Table Q-1.70 m.

Elevation P1014245 (STA 6+861) m.

Driller _____

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test								
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 15 cm			N - Value				
												15cm	15cm	15cm	10	20	30	40	50
31	-26.76	31.00	1.50	x x x x	Silty Sand	Light Grey	Medium	Sand is fine grained. Trace of mica.	30.15 30.45	0-20	26	8	11	15					
32				x x x x	Sand	Light Grey	Dense To Very Dense	Sand is fine grained. With seams of silt. Trace of mica.	31.65 31.95	0-21	46	12	20	26					
33				x x x x					33.15 33.45	0-22	52	12	24	28	52 B.C.VS/30cm				
34	-29.76	34.00	1.00	x x x x	Silty Sand	Light Grey	Dense	Sand is fine grained. Trace of mica.	34.85 34.95	0-23	42	13	16	26					
35	-31.26	35.50	1.50	x x x x					36.15 36.45	0-24	9	4	4	5					
36				x x x x	Silty Clay	Grey	Stiff	Little sand. Trace of decomposed organic matter.	37.65 37.95	0-25	31	17	15	16					
37	-32.76	37.00	1.50	x x x x	Sand	Light Grey	Dense	Sand is fine grained. With seams of silt. Trace of decomposed organic matter.	38.15 38.45	0-26	38	12	18	20					
38	-34.76	38.50	1.50	x x x x	Set with Sand	Light Grey	Dense	Non plastic. Sand is fine grained. Trace of mica throughout.	40.65 40.95	0-27	31	8	13	18					
39				x x x x					42.15 42.45	0-28	30	9	14	16					
40				x x x x	Sand and Silt	Light Grey	Dense	Sand is fine grained. Trace of clay and mica throughout.	43.65 43.95	0-29	36	9	16	20					
41				x x x x					45.15 45.45	0-30	42	8	19	23					
42				x x x x					46.65 46.95	0-31	33	6	12	21					
43	-38.76	43.00	1.50	x x x x					48.15 48.45	0-32	35	7	12	23					
44				x x x x					49.65 49.95	0-33	41	12	18	23					
45				x x x x					51.15 51.45	0-34	43	11	19	24					
46	-47.76	52.00	9.00	x x x x	Sand	Light Grey	Very Dense	Sand is fine grained. With seams of silt. Trace of clay and mica.	52.65 52.95	0-35	59	12	24	35	59 B.C.VS/30cm				
47	-49.26	53.50	1.50	x x x x	Sand	Light Grey	Very Dense	Sand is fine grained. Little silt. Trace of mica throughout.	54.15 54.45	0-36	82	15	34	48	82 B.C.VS/30cm				
48				x x x x					55.65 55.95	0-37	85	23	40	45	85 B.C.VS/30cm				
49				x x x x					57.15 57.45	0-38	88	24	42	45	88 B.C.VS/30cm				
50				x x x x					58.65 58.95	0-39	88	24	28	40	88 B.C.VS/30cm				
51	-55.26	59.50	6.00	x x x x	Sand	Light Grey	Dense	With seams of silt. Little clay and trace of mica.	60.15 60.45	0-40	39	34	20	19					
52	-56.76	61.00	1.50	x x x x															

FIG DRILLING LOG

Project No. _____

Project The Study on Construction of Bridge over the River Rupsa in Khulna

Type of Drilling Rotary

Hole Number B1-1842 (PAGE 3 of 3)

Date 27/1/99 - 31/7/99

Water Table 0.170 m.

Elevation 700+4.245 (SIA 8+861) m.

Driller _____

Remarks
0 : Disturbed Soil Sample

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test								
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 15 cm			N - Value				
												15cm	15cm	15cm	10	20	30	40	50
61	-56.75	61.00	1.50		Sand	Light Grey	Dense	With seams of sil. little clay and trace of mica.	60.15 60.45	0-40	39	34	20	19					
62					Silt	Light Grey	Hard	With seams of fine sand. Little clay.	61.65 61.95	0-11	44	15	11	33					
63	-58.26	62.50	1.50		Silty Sand	Light Grey	Very Dense	Sand is fine grained. trace of mica.	63.15 63.45	0-42	52	27	25	27	52 BLOWS/30cm				
64									64.65 64.95	0-43	81	26	34	47	81 BLOWS/30cm				
65	-61.26	65.50	3.00		Sand	Light Grey	Very Dense	Sand is fine to medium grained up to 63m and fine grained below 63m. Little silt and trace of mica throughout of the layer.	66.15 66.45	0-44	81	31	36	45	81 BLOWS/30cm				
66									67.65 67.95	0-45	72	26	32	40	72 BLOWS/30cm				
67									69.15 69.45	0-46	132	38	58	74	132 BLOWS/30cm				
68									70.65 70.95	0-47	84/15	41	84		84 BLOWS/15cm				
69									72.15 72.30	0-48	99/15	45	99		99 BLOWS/15cm				
70									73.65 73.90	0-49	112/15	55	112		112 BLOWS/15cm				
71									75.15 75.30	0-50	105/15	57	105		105 BLOWS/15cm				
72									76.65 76.80	0-51	112/15	67	112		112 BLOWS/15cm				
73									78.15 78.30	0-52	115/15	67	115		115 BLOWS/15cm				
74									79.65 79.80	0-53	120/15	65	120		120 BLOWS/15cm				
75	-77.06	81.30	15.00						81.15 81.30	0-54	125/15	76	125		125 BLOWS/15cm				
76					-END OF DRILLING-														
77																			
78																			
79																			
80																			
81																			
82																			
83																			
84																			
85																			
86																			
87																			
88																			
89																			
90																			
91																			

FIG DRILLING LOG

Project No. BM-142 (PAGE 1 of 2)

Project The Study on Construction of Bridge over the River Pussa in Andhra Type of Drilling Rotary

Hole Number BM-142 (PAGE 1 of 2)

Date 3/6/99 - 4/6/99

Water Table 0.70 m.

Elevation PD+3217 (SLA 71062) m. Driller _____

Remarks
 D : Disturbed Soil Sample
 UD : Undisturbed Soil Sample taken by Shelby Tube

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test								
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 15 cm			N - Value				
												15cm	15cm	15cm	10	20	30	40	50
1				x x x x	Clayey Sil	Brownish Grey	Very Soft	Oxidized zone. Very clayey. High plastic.	1.65	D-1	1	1	0	1					
2				x x x x					1.95										
3				x x x x					3.15	D-2	2	1	1	1					
4	-1.18	4.10	4.40	x x x x					3.45										
5				v v v v	Silty Clay	Grey to Black	Soft	High plastic. With decomposed organic matter throughout. With decayed wood at D-4.	4.65	D-3	3	2	1	2					
6				x x x x					4.95										
7				x x x x					5.55	UD-1									
8				x x x x					6.00										
9				x x x x					6.15	D-4	4	2	2	2					
10				x x x x					6.45										
11				x x x x	Clayey Sil	Light Grey	Soft	Plastic. With slightly sand.	7.65	D-5	4	1	2	2					
12	-5.28	8.50	4.10	x x x x					7.95										
13				x x x x					9.15	D-6	4	1	2	2					
14				x x x x					9.45										
15				x x x x					10.85	D-7	4	2	2	2					
16	-8.28	11.50	3.00	x x x x	Silty Sand	Light Grey	Medium	Sand is fine grained. Non plastic and very silty. trace of mica throughout.	10.95										
17				x x x x					12.15	D-8	15	5	7	8					
18				x x x x					12.45										
19				x x x x					13.85	D-9	17	5	8	9					
20	-12.78	16.00	4.50	x x x x	Sandy Sil	Light Grey	Medium	Sand is fine grained. Slightly plastic. trace of mica.	13.95										
21				x x x x					15.15	D-10	11	4	5	6					
22				x x x x					15.45										
23				x x x x					16.85	D-11	12	4	6	6					
24	-15.78	18.00	3.00	x x x x	Clayey Sil	Grey	Stiff	Plastic.	16.95										
25				x x x x					18.15	D-12	12	4	6	6					
26				x x x x					18.45										
27				x x x x					19.65	D-13	9	3	4	5					
28	-20.68	23.90	4.90	x x x x	Silt	Light Grey	Very Stiff	Slightly plastic. With slightly clay and fine sand	19.95										
29				x x x x					21.15	D-14	10	3	4	6					
30				x x x x					21.45										
31				x x x x					22.65	D-15	10	2	4	6					
				x x x x					22.95										
				x x x x					23.55	UD-2									
				x x x x					24.00										
				x x x x					24.15	D-16	17	5	8	9					
				x x x x					24.45										
				x x x x					25.65	D-17	18	7	8	10					
				x x x x					25.95										
				x x x x					27.15	D-18	12	5	6	6					
	-24.78	28.00	4.10	x x x x	Clayey Sil	Light Grey	Stiff	Plastic. Homogeneous.	27.45										
				x x x x					28.65	D-19	13	5	6	7					
				x x x x					28.95										
				x x x x					30.15	D-20	14	6	6	8					
				x x x x					30.45										

FIG DRILLING LOG

Remarks
 O : Disturbed Soil Sample

Project No. _____
 Hole Number BH-1W2 (PAGE 2 of 2)
 Water Table Q. 0.70 m.

Project The Study on Construction of Bridge over the River Ruzsa in Khujna

Type of Drilling Rotary
 Date 3/8/99 - 4/8/99
 Driller _____

Elevation PWD:3217 (STA 7+062) m.

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test											
									Depth in m	Sample No.	N - Value Blows/30cm	Blows Per Each 15 cm			N - Value							
												15cm	15cm	15cm	10	20	30	40	50			
31					Silty Sand	Light Grey	Soft	Plastic Homogeneous.	30.15	0-20 S	14	6	6	8								
	30.45								31.65	0-20 S	14	6	6	8								
32									31.95				31.15	0-22 S	15	5	7	8				
33									31.45				31.45	0-23	15	6	7	8				
34								34.65			NO RECOVERY											
35	-32.28	35.50	7.50		Silty Sand	Light Grey	Dense	Non plastic.														
36				36.15					0-24 S	40	8	19	21									
37				36.45								37.65	0-25 S	45	13	21	24					
38				37.95								39.15	0-26 S	39	16	18	21					
39				39.45								40	-36.78	40.00	4.50							
40				40.65					0-27 S	40	12	17	23									
41				40.95							Sand is fine grained. Very silty and non plastic. Trace of mica throughout.	42.15	0-28 S	50	14	22	28		50 BLOWS/30cm			
42				42.45								43.65	0-29 S	71	25	34	37		71 BLOWS/30cm			
43				43.95								45.15	0-30 S	73	26	36	37		73 BLOWS/30cm			
44				45.45								46.65	0-32 S	69	22	31	36		69 BLOWS/30cm			
45				46.95				48.15	0-37 S	83	23	36	47		83 BLOWS/30cm							
46				48.45			Very Dense	49.65	0-33 S	83	25	38	45		83 BLOWS/30cm							
47	-16.73	19.95	3.95		-END OF DRILLING-			50	49.65	49.95												
48								51														
49								52														
50								53														
51								54														
52								55														
53								56														
54								57														
55								58														
56								59														
57								60														
58								61														

Page.....

FIG DRILLING LOG

Project No. B1-1EAI (PAGE 1 of 3)
 Hole Number B1-1EAI (PAGE 1 of 3)
 Water Table Q-080 m.

Project The Study on Construction of Bridge over the River Rupsa in Khudra
 Elevation PDG+3.312 (STA 7+240) m.

Type of Drilling Rotary
 Date 15/10/99 - 15/10/99
 Driller _____

Remarks
 0 : Disturbed Soil Sample
 U0 : Undisturbed Soil Sample taken by Shelby Tube

1/1

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Standard Penetration Test														
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 15 cm			N - Value								
15cm	15cm	15cm	10	20	30	40	50																
1				X	Clayey SIL	Brownish Grey	Medium	Oxidized zone. Low plastic. With little fine sand.	1.65	0-18	5	1	2	3									
2	0.81	2.50	2.50	X					1.95														
3				X	Clayey SIL	Grey	Very Soft	Low plastic. With little fine sand.	3.15	0-21	0	0	0	0									
4				X					3.45														
5	-1.19	4.50	2.00	X	Clayey SIL	Grey	Very Soft	Low plastic. trace of decomposed organic matter.	4.05	U0-1													
6				X					4.50														
7				X					4.65	0-32	2	0	0	2									
8				X					4.95														
9	-5.19	8.50	6.00	X	SIL	Light Grey	Soft To Medium	Seams of fine sand. With little clay and trace of mica.	6.15	0-45	0	0	0	0									
10	-6.69	10.00	1.50	X					6.45														
11				X	Sand	Light Grey	Medium	Sand is fine grained. Seams of SIL trace of clay and mica.	7.65	0-52	0	0	0	0									
12	-8.19	11.50	1.50	X					7.95														
13				X	Silty Sand	Light Grey	Medium	Sand is fine grained. Trace of mica.	9.15	0-63	4	1	1	3									
14	-9.69	13.00	1.50	X					9.45														
15				X	Sand	Light Grey	Loose	Sand is fine grained. With seams of SIL. Slightly clay. Trace of organic matter and mica.	10.65	0-74	11	3	3	6									
16	-11.19	14.50	1.50	X					10.95														
17				X	Clayey SIL	Light Grey	Medium	Low plastic. With seams of fine sand. Trace of mica.	12.15	0-85	16	3	6	10									
18	-12.69	16.00	1.50	X					12.45														
19				X	SIL	Light Grey	Stiff	With seams of fine sand and trace of mica throughout. Trace of clay at 0-11. Little clay below 10m. Trace of decomposed organic matter below 20.5m.	11.65	0-96	5	4	2	3									
20				X					11.95														
21				X					14.55	U0-2													
22				X					15.00														
23				X					15.15	0-101	7	1	3	4									
24	-20.19	21.50	7.50	X					15.45														
25				X	SIL	Light Grey	Very Stiff		16.65	0-112	11	4	4	7									
26				X					16.95														
27				X					18.15	0-123	12	4	5	7									
28				X					18.45														
29				X					19.65	0-134	12	4	5	7									
30				X					19.95														
31				X					21.15	0-145	18	7	9	9									
32				X					21.45														
33				X					22.65	0-156	17	6	8	9									
34				X					22.95														
35				X	Silty Clay	Light Grey	Stiff	Low plastic. Homogeneous. Trace of fine sand & mica and organic matter throughout.	24.15	0-167	12	6	6	6									
36				X					24.45														
37				X					25.05	U0-3													
38				X					25.50														
39				X					25.65	0-177	8	4	4	4									
40				X					25.95														
41				X					27.15	0-188	9	4	4	5									
42				X					27.45														
43				X					28.65	0-199	8	3	4	4									
44				X					28.95														
45				X					30.15	0-210	10	4	5	5									
46				X					30.45														

FIG DRILLING LOG

Project No. _____

Project The Study on Construction of Bridge over the River Rupsa in Kolkata

Type of Drilling Rotary

Hole Number BH-1EAI (PAGE 2 of 3)

Date 13/10/99 - 15/10/99

Water Table Q-0.80 m.

Elevation PM0+3.312 (STA 7+210) m.

Driller _____

Remarks
 0 : Disturbed Soil Sample
 UD : Undisturbed Soil Sample taken by Shelby Tube

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test								
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 15 cm			N - Value				
											15cm	15cm	15cm	10	20	30	40	50	
31				[Symbolic representation of soil layers]	Silty Clay	Light Grey	Stiff	Low plastic. Homogeneous. Trace of fine sand & mica and organic matter throughout.	30.15	0-20	10	4	5	5					
32			31.65		0-21	8	4		4	4									
33			33.15		0-22	9	4		4	5									
34			34.65		0-23	10	4		4	6									
35			36.15		0-24	11	4		5	6									
36			37.65		0-25	11	4		5	6									
37			38.55		NO RECOVERY														
38			39.00		UD-1														
39			39.15		0-26	13	7		6	7									
40	-36.69	40.00	16.50		[Symbolic representation of soil layers]	Silty Clay	Grey		Stiff	Low plastic. Little decomposed organic matter and trace of fine sand.	40.65	0-27	14	6	6	8			
41			42.15	0-28		16	6	7	9										
42			43.65	0-29		12	4	5	7										
43			44.15	0-30		32	13	16	16										
44	-41.39	44.50	4.50	[Symbolic representation of soil layers]	Silty Clay	Light Grey	Hard	Low plastic. Little fine sand. Trace of organic matter.	45.15	0-31	31	14	15	16					
45			46.65		0-32	34	12		13	21									
46			48.15		0-33	35	13		13	22									
47			49.65		0-34	11	4		5	6									
48			51.15		0-35	12	4		6	6									
49			52.65		0-36	8	3		4	4									
50	-47.39	50.50	6.00	[Symbolic representation of soil layers]	Silty Clay	Light Grey	Stiff	Low plastic. Little fine sand. Trace of organic matter.	54.15	0-37	76	17	33	43	76	BL0VS/30cm			
51			55.65		0-38	67	19		27	40	67	BL0VS/30cm							
52	-50.19	53.50	3.00	[Symbolic representation of soil layers]	Silty Clay	Light Grey	Stiff	With seams of fine sand and trace of organic matter.	57.15	0-39	67	20	29	38	67	BL0VS/30cm			
53			58.65		0-40	114	31		45	69	114	BL0VS/30cm							
54	-51.69	55.00	1.50	[Symbolic representation of soil layers]	Silty Sand	Light Grey	Very Dense	Sand is fine grained. Trace of mica throughout.	60.15	0-41	76	17	33	43	76	BL0VS/30cm			
55			61.65		0-42	67	19		27	40	67	BL0VS/30cm							
56			63.15	0-43	67	20	29	38	67	BL0VS/30cm									
57			64.65	0-44	114	31	45	69	114	BL0VS/30cm									
58			66.15	0-45	114	31	45	69	114	BL0VS/30cm									
59			67.65	0-46	114	31	45	69	114	BL0VS/30cm									
60			69.15	0-47	114	31	45	69	114	BL0VS/30cm									
61			70.65	0-48	114	31	45	69	114	BL0VS/30cm									

FIG DRILLING LOG

Project No. _____

Project The Study on Construction of Bridge over the River Rupsa in India Type of Drilling Rotary

Hole Number BS-1E41 (PAGE 3 of 3)

Date 13/10/99 - 15/10/99

Water Table 0.00 m.

Elevation PW+3312 (STA 7+210) m. Driller _____

Remarks
 0: Disturbed Soil Sample

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test								
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 15 cm			N - Value				
												15cm	15cm	15cm	10	20	30	40	50
61				x x x x x	Silty Sand	Light Grey	Very Dense	Sand is fine grained. Trace of mica throughout.	60.15	0-43	114	31	45	69		114	BLOWS/30cm		
62				x x x x x					61.65	0-01	65	21	29	36		65	BLOWS/30cm		
63				x x x x x					63.15	0-42	176	42	83	93		176	BLOWS/30cm		
64				x x x x x					64.65	0-63	144	35	63	81		144	BLOWS/30cm		
65				x x x x x					66.15	0-44	122	31	48	74		122	BLOWS/30cm		
66				x x x x x					67.65	0-45	84	28	38	46		84	BLOWS/30cm		
67				x x x x x					69.15	0-46	85	25	40	45		85	BLOWS/30cm		
68				x x x x x					70.65	0-47	90	28	38	52		90	BLOWS/30cm		
69				x x x x x															
70				x x x x x															
71	-67.64	70.95	13.95	x x x x x															
72								-END OF DRILLING-											
73																			
74																			
75																			
76																			
77																			
78																			
79																			
80																			
81																			
82																			
83																			
84																			
85																			
86																			
87																			
88																			
89																			
90																			
91																			

FIG DRILLING LOG

Project No. _____

Project The Study on Construction of Bridge over the River Rupsa in Khulna Type of Drilling Rotary

Hole Number BH-1VA2 (PAGE 1 of 3)

Date 1/8/98 - 5/8/99

Water Table Q-100 m.

Elevation FW+3.067 (SIA 7+345) m. Driller _____

Remarks
0: Disturbed Soil Sample

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test								
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 15 cm			N - Value				
												15cm	15cm	15cm	10	20	30	40	50
1					Clayey Silt	Light Brown To Grey	Soft	Trace of fine sand and brick chips. With roots.											
2	0.57	2.50	2.50						1.65	0-1	4	2	2	2					
3					Silt	Light Grey	Soft	Slightly plastic. Trace of clay and fine sand.	3.15	0-2	4	2	2	2					
4	-0.93	4.00	1.50						4.65	0-3	4	1	2	2					
5					Silty Clay	Dark Grey	Soft	Medium plastic. With decomposed organic matter.	4.95										
6	-2.43	5.50	1.50						6.15	0-4	1	0	0	1					
6					Sandy Silt	Grey	Very Soft	Sand is fine grained. Trace of silt at 0-4.	6.45										
7									7.65	0-5	1	0	0	1					
8									7.95										
9									9.15	0-6	0	0	0	0	SELF PENETRATION BY HAMMER				
10	-6.93	10.00	4.50						9.45										
11					Silty Sand	Light Grey	Loose	Sand is fine grained. Trace of mica throughout. Very silty and slightly plastic at bottom.	10.65	0-7	8	4	4	4					
12									10.95										
13									12.15	0-8	8	4	4	4					
14									12.45										
15	-11.43	14.50	4.50						13.65	0-9	7	2	3	4					
16					Silty Sand	Light Grey	Medium	Sand is fine grained. Trace of mica throughout. With seams of silty clay to clayey silt at 0-10 and 0-12. Very silty at 0-11 and 0-13. With decomposed organic matter at 0-15.	13.95										
17									15.15	0-10	12	4	5	7					
18									15.45										
19									18.65	0-11	14	4	6	8					
20									18.95										
21									18.15	0-12	15	4	6	9					
22									18.45										
23									19.65	0-13	17	6	7	10					
24	-20.43	23.50	9.00						19.95										
25					Silty Sand	Light Grey	Dense		21.15	0-14	29	9	13	15					
26									21.45										
27	-21.43	26.50	3.00						22.65	0-15	48	10	22	26					
28					Clayey Silt	Light Grey To Grey	Stiff	Medium plastic to plastic.	22.95										
29									24.15	0-16	9	6	4	5					
30									24.45										
31					Silty Sand	Light Grey	Medium	Sand is fine grained. With decomposed organic matter at 0-19 and 0-20.	25.65	0-17	10	6	5	5					
									25.95										
									27.15	0-18	16	6	8	8					
									27.45										
									28.65	0-19	16	8	8	8					
									28.95										
									30.15	0-20	13	8	8	10					
									30.45										

FIG DRILLING LOG

Project No. _____

Project The Study on Construction of Bridge over the River Russe in Kuala Type of Drilling Rotary

Hole Number BK-1VA2 (PAGE 2 of 3)

Date 1/8/99 - 3/8/99

Water Table Q-1.00 m.

Elevation P90+1.067 (Sta 7+345) m. Driller _____

Remarks

0 : Disturbed Soil Sample

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test									
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 15 cm			N - Value					
												15cm	15cm	15cm	10	20	30	40	50	
31				x x	Sandy Silt	Light Grey	Medium	Sand is fine grained. Trace of mica throughout. Material is changed to silt at 0-21 and 0-23. With decomposed organic matter below 36m.	30.15 30.45	0-20	18	8	8	10						
32										31.65 31.95	0-21	21	9	10	11					
33										33.15 33.45	0-22	22	10	10	12					
34										34.65 34.95	0-23	19	8	9	10					
35										36.15 36.45	0-24	21	9	9	12					
36										37.65 37.95	0-25	19	8	9	10					
37	-31.93	37.00	10.50			Clayey Silt	Light Grey		Very Stiff	Trace of organic matter at top. Low plastic at bottom.	39.15 39.45	0-26	13	8	6	7				
38											37.65 37.95	0-25	19	8	9	10				
39									Silt		39.15 39.45	0-26	13	8	6	7				
40	-36.93	40.00	3.00			Sandy Silt	Light Grey		Very Stiff	With organic matter.	40.65 40.95	0-27	16	10	7	9				
41	-38.43	41.50	1.50		Clayey Silt	Grey	Very Stiff	Trace of fine sand and organic matter.	42.15 42.45	0-28	18	11	8	10						
42	-39.93	43.00	1.50		Sandy Silt	Light Grey	Hard	With seams of silty clay and decomposed organic matter.	43.65 43.95	0-29	31	11	15	16						
43	-41.43	44.50	1.50		Clayey Silt	Grey To Black	Hard	Plastic and with decomposed organic matter and wood at 0-30. Low plastic and with trace of organic matter at 0-31. Plastic below 46m.	45.15 45.45	0-30	42	24	22	20						
44									45.15 45.45	0-30	42	24	22	20						
45								46.65 46.95	0-31	27	12	13	14							
46								48.15 48.45	0-32	28	14	14	14							
47								49.65 49.95	0-33	27	13	14	13							
48								51.15 51.45	0-34	28	15	14	14							
49	-46.93	52.00	7.50		Sandy Silt	Light Grey	Dense	Sand is fine grained. With little clay.	52.65 52.95	0-35	40	19	20	20						
50	-50.43	53.50	1.50		Silty Sand	Light Grey	Very Dense	Sand is fine grained. With seams of silty clay.	54.15 54.45	0-36	50	22	23	27				50 BLOWS/30cm		
51	-51.93	55.00	1.50		Sandy Silt	Light Grey	Very Dense	Slightly plastic. Slightly clayey. Sand is fine grained.	55.65 55.95	0-37	56	24	26	30				56 BLOWS/30cm		
52	-53.43	56.50	1.50		Silty Sand	Light Grey	Very Dense	Sand is fine grained. Non plastic. Trace of mica throughout.	57.15 57.38	0-38	121/23	41	71	50/8				121 BLOWS/23cm		
53								58.65 58.95	0-39	112	27	50	62					112 BLOWS/30cm		
54								60.15 60.45	0-40	117	30	52	65					117 BLOWS/30cm		
55																				
56																				
57																				
58																				
59																				
60																				
61																				

FIG DRILLING LOG

Project No. _____

Project The Study on Construction of Bridge over the River Rupsa in Khulna Type of Drilling Rotary

Hole Number B1-1VA2 (PAGE 3 of 3)

Date 1/8/99 - 5/8/99

Water Table Q2-1.00 m.

Elevation PMS+3.067 (STA 7+345) m. Driller _____

Remarks
0 : Disturbed Soil Sample

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test										
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 15 cm			N - Value						
												15cm	15cm	15cm	10	20	30	40	50		
61				x	Silty Sand	Light Grey	Very Dense	Sand is fine grained. Non plastic. trace of mica throughout.	60.15 60.45	0-40	117	30	52	65	117	BLOWS/30cm					
62				x					61.65 61.95	0-41	122	33	54	68	122	BLOWS/30cm					
63				x					63.15 63.45	0-42	127	36	61	66	127	BLOWS/30cm					
64				x					64.65 64.95	0-43	133	40	65	68	133	BLOWS/30cm					
65				x					66.15 66.45	0-44	139	40	64	75	139	BLOWS/30cm					
66				x					67.65 67.95	0-45	119	42	52	67	119	BLOWS/30cm					
67				x					69.15 69.45	0-46	125	44	61	64	125	BLOWS/30cm					
68				x					70.65 70.95	0-47	134	50	62	72	134	BLOWS/30cm					
69				x					72.15 72.45	0-48	146	55	70	76	146	BLOWS/30cm					
70				x					73.65 73.80	0-49	105/15	65	105		105	BLOWS/15cm					
71				x					75.15 75.30	0-50	110/15	72	110		110	BLOWS/15cm					
72				x					76.65 76.80	0-51	105/15	85	105		105	BLOWS/15cm					
73				x					78.15 78.30	0-52	114/15	79	114		114	BLOWS/15cm					
74				x					79.65 79.80	0-53	116/15	87	116		116	BLOWS/15cm					
75				x					81.15 81.30	0-54	122/15	94	122		122	BLOWS/15cm					
76				x																	
77				x																	
78				x																	
79				x																	
80				x																	
81				x																	
82				x																	
83				x																	
84				x																	
85				x																	
86				x																	
87				x																	
88				x																	
89				x																	
90				x																	
91				x																	

-78.73 81.30 21.80

-END OF DRILLING-

FIG DRILLING LOG

Project No. _____

Project The Study on Construction of Bridge over the River Rupsa in Kothna Type of Drilling Wash Boring

Hole Number BH-1685 (PAGE 1 of 1)

Date 30/7/93

Water Table 0.150 m.

Elevation PWD+3123 (SIA 8+510) m. Driller _____

Remarks
 O : Disturbed Soil Sample
 UO : Undisturbed Soil Sample taken by Shelby tube

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test								
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 15 cm			N - Value				
												15cm	15cm	15cm	10	20	30	40	50
1				X X X X	Clay Sil	Brown	Medium	Oxidized at top. Trace of sand and mica.											
2				X X X X	Clay Sil	Grey			1.65	0-18	5	0	2	3					
3				X X X X					1.95										
4	-9.88	1.00	1.00	X X X X	Clay	Grey	Very Soft to Soft	Medium Plastic. Trace of sand and mica.	2.55	UO-1									
5				X X X X	Clay	Grey			3.15	0-78	4	1	2	2					
6				X X X X					3.45										
7				X X X X	Sandy Sil	Grey	Very Loose	Mixed with clay. Trace of mica.	4.65	0-38	2	0	1	1					
8				X X X X					4.95										
9	-5.38	8.50	4.50	X X X X	Sandy Sil	Grey	Very Loose	Mixed with clay. Trace of mica.	6.15	0-48	1	0	0	1					
10				X X X X					6.45										
11				X X X X	Clay Sil	Grey	Medium	Trace of sand and mica.	7.65	0-58	2	0	1	1					
12				X X X X					7.95										
13	-9.88	11.00	1.00	X X X X	Silty Sand	Grey	Loose	Sand is fine grained. Mixed with clay. Trace of mica.	8.55	UO-2									
14				X X X X					8.90										
15				X X X X	Clay Sil	Grey	Medium	Trace of sand and mica.	9.15	0-68	3	0	1	2					
16				X X X X					9.45										
17				X X X X	Silty Sand	Grey	Medium	Sand is fine grained. Trace of mica.	10.55	0-78	4	0	2	2					
18				X X X X					10.95										
19				X X X X	Silty Sand	Grey	Medium	Sand is fine grained. Trace of mica.	12.15	0-88	5	1	2	3					
20				X X X X					12.45										
21	-12.38	18.00	1.00	X X X X	Silty Sand	Grey	Medium	Sand is fine grained. Trace of mica.	13.65	0-98	5	1	2	3					
22				X X X X					13.95										
23				X X X X	Silty Sand	Grey	Very Dense to Dense	Sand is fine grained. Very Silty. Trace of mica.	15.15	0-108	5	1	2	3					
24				X X X X					15.45										
25	-17.38	20.50	4.50	X X X X	Silty Sand	Grey	Very Dense to Dense	Sand is fine grained. Very Silty. Trace of mica.	16.65	0-118	10	1	4	5					
26				X X X X					16.95										
27				X X X X	Silty Sand	Grey	Very Dense to Dense	Sand is fine grained. Very Silty. Trace of mica.	18.15	0-128	13	4	6	7					
28				X X X X					18.45										
29				X X X X	Silty Sand	Grey	Very Dense to Dense	Sand is fine grained. Very Silty. Trace of mica.	19.65	0-138	20	8	10	10					
30				X X X X					19.95										
31	-21.33	24.45	1.55	X X X X	Silty Sand	Grey	Very Dense to Dense	Sand is fine grained. Very Silty. Trace of mica.	21.15	0-148	57	9	23	34					57 Blows/30cm
32				X X X X					21.45										
33				X X X X	Silty Sand	Grey	Very Dense to Dense	Sand is fine grained. Very Silty. Trace of mica.	22.65	0-158	42	9	19	23					
34				X X X X					22.95										
35	-21.33	24.45	1.55	X X X X	Silty Sand	Grey	Very Dense to Dense	Sand is fine grained. Very Silty. Trace of mica.	24.15	0-168	39	11	18	21					
36				X X X X					24.45										
37					-END OF DRILLING-														

FIG DRILLING LOG

 Project No.

 Project The Study on Construction of Bridge over the River Pugas in Zhukou

 Type of Drilling Rotary

Remarks

 0 : Disturbed Soil Sample
 10 : Undisturbed Soil Sample taken by Shelby Tube

 Hole Number BH-1087 (PAGE 1 of 2)

 Date 9/10/99 - 11/10/99

 Water Table 0.150 m.

 Elevation PM0+3.353 (STA 9+355) m.

 Driller

11X

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test										
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 15 cm			N - Value						
												15cm	15cm	15cm	10	20	30	40	50		
1					Clayey Silt	Light Green to Grey	Very Soft	Quartzed at top. Plastic at top. High plastic at bottom.													
2									1.65	0-1	1	0	0	1							
3									3.15	0-2	2	0	1	1							
4	-1.15	1.50	1.50						4.05	10-1	0	0	0	0							
5					Silt	Grey	Very Soft	With seams of fine sand. Trace of mica.	4.65	0-3	2	0	0	2							
6									6.15	0-4	0	0	0	0							
7	-3.65	7.00	2.50						6.45												
8					Sand	Light Grey	Very Loose	Sand is fine grained. With seams of sil. Trace of mica.	7.65	0-5	3	1	1	2							
9	-5.15	8.50	1.50						7.95												
10					Silty Sand	Light Grey	Loose	Sand is fine grained. Trace of mica.	9.15	0-6	6	2	2	4							
11									10.65	0-7	7	2	3	4							
12	-8.15	11.50	3.00						10.95												
13					Silt	Light Grey	Soft	With seams of fine sand. Trace of decomposed organic matter.	12.15	0-8	3	1	1	2							
14	-10.15	13.50	2.00						12.45	10-2											
15					Sand	Light Grey	Loose	Sand is fine grained. With seams of sil. Trace of mica.	12.55												
16	-12.65	16.00	2.50						13.00	0-9	5	1	2	3							
17									13.65	0-9											
18					Sand	Light Grey	Medium	Sand is fine grained. With little sil. Trace of mica throughout. With seams of silty clay at 0-12. With seams of sil at 0-16.	15.15	0-10	6	1	2	4							
19									15.45												
20									16.65	0-11	12	4	5	7							
21									16.95												
22									18.15	0-12	13	3	5	8							
23									18.45												
24									19.65	0-13	23	9	10	13							
25									19.95												
26	-22.15	25.50	3.50						21.15	0-14	21	7	10	11							
27									21.45												
28									22.65	0-15	22	10	11	11							
29									22.95												
30					Sand	Light Grey	Very Dense	Sand is fine grained. With little sil. Trace of mica.	24.15	0-16	14	5	6	8							
31	-27.15	31.00	1.50						24.45												
					Sand	Light Grey	Medium	Sand is fine grained. With seams of silty clay.	25.05	10-3											
									25.50												
									25.65	0-17	52	11	23	29							52 Blows/30cm
									25.95												
									27.15	0-18	51	18	24	27							51 Blows/30cm
									27.45												
									28.65	0-19	56	11	26	30							56 Blows/30cm
	-26.15	29.50	1.00						28.95												
									30.15	0-20	22	14	9	13							
									30.45												

Page.....

FIG DRILLING LOG

Project No. _____
 Hole Number 84-1087 (PAGE 2 of 2)
 Water Table 0.1-0.0 m.

Project The Study on Construction of Bridge over the River Rupse in Khulna
 Type of Drilling Rotary
 Date 9/10/99 - 11/10/99
 Elevation FWD+3.353 (STA 9+355) m. Driller _____

Remarks
 D : Disturbed Soil Sample
 UD : Undisturbed Soil Sample taken by Shelby Tube

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test								
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 15 cm			N - Value				
												15cm	15cm	15cm	10	20	30	40	50
31	-27.85	31.00	1.50	x	Sand	Light Grey	Medium	Sand is fine grained. With seams of silty clay.	30.15	D-20/S	22	14	9	13					
32				x	Silty Sand	Light Grey	Dense	Sand is fine grained. Less silt content at top. Trace of mica throughout. Trace of decomposed organic matter at D-22.	31.65	D-21/S	47	14	20	22					
33				x					33.15	D-22/S	48	19	24	24					
34				x					33.45										
35	-32.15	35.50	4.50	x			Very Dense		34.65	D-23/S	52	18	23	28	52 Blows/30cm				
36				x	Silty Clay	Light Grey	Very Stiff	Low plastic and with seams of fine sand at top. Trace of organic matter at top. Plastic and with some organic fragments at bottom.	35.15	D-24/S	15	6	7	8					
37				x					36.45										
38				x					37.65	D-25/S	29	7	12	17					
39	-35.65	39.00	3.50	x					37.95										
40				x	Sandy Silt	Light Grey	Hard	Homogeneous. Trace of decomposed organic matter and mica throughout of the layer.	38.55	UD-1									
41				x					39.00										
42				x					39.15	D-26/S	33	9	14	19					
43				x					39.45										
44				x					40.85	D-27/S	31	6	11	20					
45				x					40.95										
46	-42.65	46.00	7.00	x					42.15	D-28/S	30	8	11	19					
47				x	Sand	Light Grey	Very Dense	Sand is fine grained. Trace of mica throughout of the layer. With seams of silt at D-31 and D-32. With little silt at D-33 and D-34. With seams of silt at D-35 and D-36.	42.45										
48				x					43.65	D-29/S	33	8	12	21					
49				x					43.95										
50				x					45.15	D-30/S	30	9	10	20					
51				x					45.45										
52				x					46.65	D-31/S	68	18	30	38	65 Blows/30cm				
53				x					48.15	D-32/S	142/23	45	86	56/8	142 Blows/73cm				
54				x					48.38										
55	-51.65	55.00	9.00	x					49.65	D-33/S	92	27	37	55	92 Blows/30cm				
56				x	Silt	Light Grey	Hard	With seams of fine sand. Trace of organic matter and mica.	49.95										
57	-53.15	56.50	1.50	x	Silty Sand	Light Grey	Very Dense	Sand is fine grained. Trace of mica.	51.15	D-34/S	86	24	36	50	86 Blows/30cm				
58				x					51.45										
59				x					52.65	D-35/S	64	18	26	38	64 Blows/30cm				
60				x					52.95										
61	-57.10	60.45	3.95	x					54.15	D-36/S	73	19	31	42	73 Blows/30cm				
				x					54.45										
				x					55.65	D-37/S	53	10	19	31	53 Blows/30cm				
				x					55.95										
				x					57.15	D-38/S	72	22	32	40	72 Blows/30cm				
				x					57.45										
				x					58.65	D-39/S	65	18	29	36	65 Blows/30cm				
				x					58.95										
				x					60.15	D-40/S	80	21	34	46	80 Blows/30cm				
				x					60.45										

-END OF DRILLING-

FIG DRILLING LOG

Project No. _____

 Project The Study on Construction of Bridge over the River Rupsa in Khulna Type of Drilling Wash Boring

 Hole Number B1-1685 (PAGE 1 of 1)

 Date 29/7/91

 Water Table 0-065 m.

 Elevation FWO+1.726 (STA 10+078) m. Driller _____

Remarks

 O : Disturbed Soil Sample
 UO : Undisturbed Soil Sample taken by Shelby Tube

1/2

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test											
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 15 cm			N - Value							
1					Silty Sand	Brownish Grey	Loose	Oxidized zone. Sand is fine graded. Trace of mica.														
2	-0.77	2.50	2.50						1.65	0-18	8	3	4	4								
3					Silty Clay	Dark Grey	Very Soft	High plastic and with decomposed organic matter at top. Medium plastic and trace of sand at bottom.	3.15	0-2	2	0	1	1								
4									4.05													
5	-3.77	5.50	1.00						4.50	UO-1	1	0	0	1								
6					Clayey Sil	Grey	Very Soft	Low plastic. trace of fine sand and mica.	4.65	0-1	1	0	0	1								
7									6.15	0-1	1	0	0	1								
8	-6.77	8.50	1.00						6.45													
9					Silty Sand	Grey	Loose	Sand is fine graded. trace of mica.	7.85	0-5	1	0	0	1								
10									7.95													
11	-9.77	11.50	1.00						8.15	0-6	6	3	2	4								
12					Silty Sand	Grey	Very Dense	Sand is fine graded. trace of mica.	8.45													
13									10.65	0-7	6	2	2	4								
14	-12.77	14.50	1.00						10.95													
15					Silty Sand	Grey	Medium	Sand is fine graded. trace of mica throughout.	12.15	0-8	61	13	25	36								
16									12.45													
17									13.65	0-9	51	12	21	30								
18									13.95													
19									15.15	0-10	13	5	5	8								
20									15.45													
21									16.65	0-11	29	13	14	15								
22	-20.27	22.00	7.50						16.95													
23					Silty Sand	Grey	Dense	Sand is fine graded. trace of mica.	18.15	0-12	18	8	8	10								
24	-22.77	24.45	2.45						18.45													
25									19.65	0-13	11	4	4	7								
26									19.95													
27									21.15	0-14	20	6	8	12								
28									21.45													
29									22.65	0-15	37	11	16	21								
30									22.95													
31									24.15	0-16	39	10	17	22								
									24.45													

FIG DRILLING LOG

Project No. _____

Project The Study on Construction of Bridge over the River Rupsa in Khulna Type of Drilling Rotary

Hole Number BH-2081 (PAGE 1 of 1)

Date 26/7/99 - 27/7/99

Water Table 0.00 m.

Elevation #0+1.807 m.

Driller _____

Remarks
 D: Disturbed Soil Sample
 UD: Undisturbed Soil Sample taken by Shelby Tube

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test								
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 15 cm			N -- Value				
												15cm	15cm	15cm	10	20	30	40	50
1					Silty Clay	Brownish Grey	Very Soft	Slightly Plastic. trace of decomposed organic matter throughout.											
2									1.65	0-1R	2	0	0	2					
3									2.55	UD-1									
4									3.00	0-2R	1	0	0	1					
5	-1.69	5.50	5.50			Dark Grey			4.15	0-3R	2	0	1	1					
6					Grey Sil	Grey	Soft	Slightly Plastic. trace of sand and mica throughout.	4.65	0-4R	3	0	1	2					
7									6.15	0-4R	3	0	1	2					
8									6.45	0-5R	4	1	2	2					
9									7.85	0-5R	4	1	2	2					
10									7.95	0-6R	3	0	1	2					
11	-1.69	11.50	6.00						9.15	0-7R	3	0	1	2					
12					Grey Sil	Grey	Soft	Slightly plastic. trace of decomposed organic.	9.45	0-7R	3	0	1	2					
13									10.65	0-8R	3	0	1	2					
14	-11.69	14.50	3.00						10.95	0-9R	3	0	1	2					
15					Grey Sil	Grey	Very soft	Slightly Plastic. trace of decomposed organic matter.	12.15	0-10R	2	0	1	1					
16	-14.19	16.00	1.50						12.45	0-10R	2	0	1	1					
17					Silty Clay	Grey	Soft	Slightly Plastic. trace of decomposed organic matter throughout.	13.65	0-11R	4	0	2	2					
18									13.95	0-11R	4	0	2	2					
19									16.65	0-12R	4	1	2	2					
20	-18.69	20.50	4.50						18.15	0-12R	4	1	2	2					
21					Silty Clay	Grey	Medium	Slightly Plastic. trace of decomposed organic matter throughout.	18.45	0-13R	5	1	2	3					
22									19.65	0-13R	5	1	2	3					
23									21.15	0-14R	7	4	3	4					
24	-22.64	24.45	3.95						21.45	0-14R	7	4	3	4					
25					-END OF DRILLING-				22.65	0-15R	6	3	2	4					
26									22.95	0-15R	6	3	2	4					
27									24.15	0-16R	6	3	3	3					
28									24.45	0-16R	6	3	3	3					
29																			
30																			
31																			

FIG DRILLING LOG

Project No. _____

Project The Study on Construction of Bridge over the River Rupsa in Khung Type of Drilling Wash Boring

Hole Number BH-2682 (PAGE 1 of 1)

Date 1/8/99

Water Table Q-065 m.

Elevation PWS+2.253 m.

Driller _____

Remarks

0 : Disturbed Soil Sample
 10 : Undisturbed Soil Sample taken by Shelby Tube

10

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test								
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 15 cm			N - Value				
											15cm	15cm	15cm	10	20	30	40	50	
1					Silty Clay	Brown	Very Soft	Oxidized. Medium plastic. Trace of fine sand.											
2	-0.25	2.50	2.50		Silty Clay	Grey	Very Soft		1.85	0-1	2	0	1	1					
3					Silty Clay	Grey	Very Soft		2.55	10-1									
4					Silty Clay	Grey	Very Soft		3.15	0-2	1	0	0	1					
5					Silty Clay	Grey	Very Soft		4.85	0-3	1	0	0	1					
6					Silty Clay	Grey	Very Soft		5.55	10-2									
7	-4.75	7.00	4.50		Silty Clay	Grey	Soft	Plastic. With decomposed organic matter.	6.15	0-4	2	0	1	1					
8					Silty Clay	Grey	Soft		7.65	0-5	3	0	1	2					
9					Silty Clay	Grey	Soft		9.15	0-6	3	0	1	2					
10	-7.75	10.00	3.00		Silty Clay	Grey	Soft		9.45	0-6	3	0	1	2					
11					Silty Sand	Grey	Very Loose	Sand is fine grained. Mixed with clay. Trace of root and mica.	10.65	0-7	2	0	1	1					
12	-9.25	11.50	1.50		Silty Sand	Grey	Loose	Sand is fine grained. Trace of mica.	10.95	0-7	2	0	1	1					
13					Silty Sand	Grey	Loose		12.15	0-8	7	2	4	3					
14					Silty Sand	Grey	Loose		12.45	0-8	7	2	4	3					
15	-12.25	14.50	3.00		Silty Sand	Grey	Medium	Sand is fine grained. Mixed with clay. Trace of mica.	13.65	0-9	7	1	2	5					
16					Silty Sand	Grey	Medium		13.95	0-9	7	1	2	5					
17					Silty Sand	Grey	Medium		15.15	0-10	11	3	4	7					
18	-15.25	17.50	3.00		Silty Sand	Grey	Medium		15.45	0-10	11	3	4	7					
19					Clayey Silt	Grey	Medium	With seams of fine sand. Trace of mica.	16.65	0-11	10	3	4	6					
20					Clayey Silt	Grey	Medium		16.95	0-11	10	3	4	6					
21	-18.25	20.50	3.00		Silt	Grey	Loose	With seams of silt. Trace of mica.	18.15	0-12	5	0	2	3					
22					Silt	Grey	Loose		18.45	0-12	5	0	2	3					
23					Silt	Grey	Loose		19.65	0-13	5	0	2	3					
24	-22.20	24.45	3.95		Silt	Grey	Loose		19.95	0-13	5	0	2	3					
25					Silt	Grey	Loose		21.15	0-14	9	2	4	5					
26					Silt	Grey	Loose		21.45	0-14	9	2	4	5					
27					Silt	Grey	Loose		22.65	0-15	19	6	8	11					
28					Silt	Grey	Loose		22.95	0-15	19	6	8	11					
29					Silt	Grey	Loose		24.15	0-16	26	7	11	15					
30					Silt	Grey	Loose		24.45	0-16	26	7	11	15					
31					-END OF DRILLING-														

FIG DRILLING LOG

Project No. _____

Project The Study on Construction of Bridge over the River Rupsa in Khanna

Type of Drilling Rotary

Hole Number BH-2VII (PAGE 1 of 3)

Date 15/8/99 - 18/8/99

Water Table Q. -1.70 m.

Elevation FWD+2995 m.

Driller _____

Remarks
 0: Disturbed Soil Sample
 U0: Undisturbed Soil Sample by Shelby Tube

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test								
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 15 cm			N - Value				
												15cm	15cm	15cm	10	20	30	40	50
1					Clayey Sil	Light Brown to Grey	Very Soft	Slightly Plastic. trace of Sand											
2	0.50	2.50	2.50						1.65	0-1	2	0	0	2					
3					Silty Clay	Light Grey	Medium	Slightly Plastic. trace of Sand and decomposed organic matter.	3.15	0-2	5	1	2	3					
4	-1.00	4.00	1.50						3.45										
5					Silty Clay	Grey	Very Soft	Plastic. trace of decomposed organic matter.	4.65	0-3	2	0	0	2					
6	-2.50	5.50	1.50						4.95										
7					Clayey Sil	Grey	Soft	Slightly Plastic. trace of decomposed organic matter.	6.15	0-4	4	2	2	2					
8	-4.00	7.00	1.50						6.45										
9					Clayey Sil	Grey	Very Soft	Slightly Plastic. trace of decomposed organic matter.	7.65	0-5	0	0	0	0					
10	-7.00	10.00	3.00						7.95										
11					Clayey Sil	Light Grey	Very Soft	Slightly Plastic.	8.15	0-6	0	0	0	0					
12	-8.50	11.50	1.50						8.45										
13					Silty Sand	Light Grey	Very Loose	Non Plastic. Sand is fine grained. With seams of Clayey Sil.	10.00	U0-1									
14	-10.00	13.00	1.50						10.45	0-7	2	0	0	2					
15									10.65										
16	-11.00	16.00	3.00		Sandy Sil	Light Grey	Very Loose	Non plastic. Sand is fine grained. trace of clay and mica.	10.95										
17									12.15	0-8	4	1	2	2					
18									12.45										
19					Sandy Sil	Light Grey	Very Loose	Non plastic. Sand is fine grained. trace of clay and mica.	13.65	0-9	0	0	0	0					
20	-17.50	20.50	1.50						13.95										
21					Sand	Light Grey	Medium	Sand is fine grained. Slightly silty. trace of mica.	15.15	0-10	1	0	0	1					
22	-19.00	22.00	1.50						15.45										
23					Silty Sand	Light Grey	Dense	Sand is fine grained. Non plastic. trace of mica.	16.65	0-11	16	6	7	9					
24	-20.50	23.50	1.50						16.95										
25					Sand	Light Grey	Medium	Sand is fine grained. Slightly silty. trace of mica.	18.15	0-12	20	6	8	12					
26	-23.50	26.50	3.00						18.45										
27					Silty Sand	Light Grey	Medium	Sand is fine grained. Non plastic. trace of mica.	19.65	0-13	28	9	13	15					
28	-26.50	29.50	3.00						19.95										
29					Sand	Light Grey	Very Dense	Sand is fine grained. Slightly silty. trace of mica.	21.15	0-14	33	11	14	19					
30	-28.50	31.50	3.00						21.45										
31	-29.50	32.50	3.00		Silty Sand	Grey	Dense to Medium	Sand is fine grained. Non Plastic. trace of mica. trace of decomposed organic matter at 0-21	22.65	0-15	25	9	11	14					
									22.95										
									24.15	0-16	25	9	11	14					
									24.45										
									25.65	0-17	26	11	13	13					
									25.95										
									27.15	0-18	53	18	26	27					
									27.45										
									28.65	0-19	53	17	25	28					
									28.95										
									30.15	0-20	32	9	14	18					
									30.45										

FIG DRILLING LOG

Project No. _____

 Project The Study on Construction of Bridge over the River Papsa in Kuluks Type of Drilling Rotary

 Hole Number B1-2VA1 (PAGE 2 of 3)

 Date 15/8/99 - 18/8/99

 Water Table 0.170 m.

 Elevation FWD+2.995 m.

Driller _____

Remarks

 0: Disturbed Soil Sample
 100: Undisturbed Soil Sample taken by Shelby tube

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test									
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 15 cm			N - Value					
												15cm	15cm	15cm	10	20	30	40	50	
31					Silty Sand	Grey	Dense to Very Dense	Sand is fine grained. Non Plastic. trace of mica. Trace of decomposed organic matter at 0-21	30.15 30.45	0-20	32	9	14	18						
32	-29.50	32.50	1.00						31.85 31.95	0-21	27	11	11	16						
33					Sand	Light Grey	Dense	Sand is fine grained. Slightly silty. trace of mica throughout	33.15 33.45	0-22	34	11	14	20						
34									34.85 34.95	0-23	35	14	15	20						
35									36.15 36.45	0-24	36	15	16	20						
36									37.85 37.95	0-25	48	18	22	26						
37									39.15 39.45	0-26	57	18	27	30						
38	-35.50	38.50	6.00					Material is same as above layer.	40.85 40.95	0-27	45	16	22	23						
39					Sand	Light Grey	Very Dense	Material is same as above layer.	42.15 42.45	0-28	58	15	28	30						
40	-37.00	43.00	1.50		Silty Sand	Light Grey	Dense	Sand is fine grained. Non plastic. trace of mica.	43.55 43.85	0-29	88	22	36	52						
41	-38.50	41.50	1.50		Silty Sand	Light Grey	Very Dense	Material is same as the above layer.	45.15 45.45	0-30	102	26	42	60						
42									46.85 46.95	0-31	76	22	32	44						
43	-40.00	43.00	1.50		Sand	Light Grey	Very Dense	Sand is fine grained. Slightly silty. trace of mica throughout.	48.15 48.45	0-32	46	21	20	26						
44									49.85 49.95	0-33	32	10	16	16						
45									51.15 51.45	0-34	33	11	16	17						
46									52.65 52.95	0-35	31	9	15	16						
47	-44.50	47.50	1.50		Silty Sand	Light Grey	Dense	Sand is fine grained. Non plastic. trace of mica.	54.15 54.45	0-36	40	11	18	22						
48									55.85 55.95	0-37	48	14	20	28						
49	-46.00	49.00	1.50		Dense Silty	Light Grey	Hard	Plastic. With seams of silty fine sand and trace of mica throughout	57.15 57.45	0-38	57	18	23	34						
50									58.85 58.95	0-39	70	23	32	38						
51									60.15 60.45	0-40	87	35	40	47						
52																				
53																				
54																				
55	-52.00	55.00	6.00		Silty Sand	Light Grey	Dense	Sand is fine grained. Non Plastic. Trace of seams of clayey silt and mica throughout												
56																				
57																				
58																				
59																				
60																				
61	-54.00	61.00	6.00				Very Dense													

FIG DRILLING LOG

Project No. _____

Project The Study on Construction of Bridge over the River Rugsu in China Type of Drilling Rotary

Hole Number 8K-ZP1 (PAGE 1 of 2)

Date 8/8/99 - 10/3/99

Water Table Q-0.80 m.

Elevation FWQ+2.839 m.

Driller _____

Remarks

O : Disturbed Soil Sample
 UO : Undisturbed Soil Sample taken by Shelby Tube

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test									
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 15 cm			N - Value					
												15cm	15cm	15cm	10	20	30	40	50	
1					Silty Clay	Light Grey	Very Soft	Plastic												
2	0.39	2.50	2.50						1.65	0-1	1	1	0	1						
3	-0.71	1.60	1.10		Clayey Silt	Light Grey	Soft	Plastic trace of organic matter.	3.15	0-2	2	1	0	2						
4					Clayey Silt	Black	Medium	Plastic with organic matter and decomposed wood.	4.65	0-3	7	2	5	2						
5	-2.61	5.50	1.90						4.95											
6					Clayey Silt	Light to Dark Grey	Soft	Plastic and homogeneous trace of organic matter at 0-4.	6.15	0-4	3	1	1	2						
7									6.45											
8									7.05	UO-1										
9									7.50	0-5	3	1	1	2						
10									7.65											
11									7.95											
12									9.15	0-6	2	1	1	1						
13									9.45											
14	-11.61	11.50	9.00			Light Grey			10.65	0-7	3	1	1	2						
15	-12.61	15.50	1.00		Sandy Silt	Light Grey	Stiff	Plastic	10.95											
16									12.15	0-8	3	0	1	2						
17					Silty Sand	Light Grey	Medium	Non plastic and very silty. Sand is fine grained. trace of mica throughout.	12.45											
18									13.65	0-9	2	0	0	2						
19									13.95											
20									15.15	0-10	11	3	5	6						
21									15.45											
22									16.65	0-11	13	4	6	7						
23									16.95											
24									18.15	0-12	25	9	13	13						
25									18.45											
26									19.65	0-13	29	9	11	18						
27									19.95											
28	-25.11	28.00	12.50				Dense		21.15	0-14	29	9	10	19						
29					Clayey Silt	Grey	Stiff	Plastic	21.45											
30									22.65	0-15	26	12	13	13						
31									22.95											
									24.15	0-16	30	11	14	16						
									24.45											
									25.65	0-17	41	10	20	21						
									25.95											
									27.15	0-18	42	11	20	22						
									27.45											
									28.65	0-19	13	5	6	7						
									28.95											
									30.15	0-20	15	6	7	8						
									30.45											

FIG DRILLING LOG

Project No. _____
 Hole Number BT-2/P1 (PAGE 2 of 2)
 Water Table α-0.60 m.

Project The Study on Construction of Bridge over the River Rupsa in Kharia

Type of Drilling Rotary

Date 8/8/99 - 10/8/99

Elevation PWD+2.639 m.

Driller _____

Remarks
 0 : Disturbed Soil Sample

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test									
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 15 cm			N - Value					
												15cm	15cm	15cm	10	20	30	40	50	
31	-28.41	31.30	1.30	x x x x x	Ocrey Silt	Grey	Stiff	Plastic	30.15 30.45	0-20 S	15	6	7	8						
32				x x x x x	Sandy Silt	Light Grey	Dense	Non plastic	31.65 31.95	0-21 S	34	7	15	19						
33				x x x x x					33.15 33.45	0-22 S	35	8	17	18						
34	-31.11	34.00	2.70	x x x x x	Silty Sand	Light Grey	Dense	Non plastic. Very silty. Trace of mica throughout.	34.85 34.95	0-23 S	39	11	19	20						
35				x x x x x					36.15 36.45	0-24 S	42	10	19	23						
36				x x x x x					37.65 37.95	0-25 S	40	13	18	22						
37				x x x x x					39.15 39.45	0-26 S	43	13	19	24						
38				x x x x x					40.65 40.95	0-27 S	65	23	32	33						
39				x x x x x					42.15 42.45	0-28 S	66	26	35	31						
40				x x x x x					43.65 43.95	0-29 S	30	10	12	18						
41				x x x x x					45.15 45.45	0-30 S	33	11	14	19						
42				x x x x x			Very Dense		45.65 45.95	0-31 S	36	12	15	21						
43				x x x x x					48.15 48.45	0-32 S	40	14	18	22						
44				x x x x x					49.65 49.95	0-33 S	41	14	19	22						
45				x x x x x			Dense													
46	-47.06	43.95	15.95	x x x x x																
47				x x x x x																
48				x x x x x																
49				x x x x x																
50				x x x x x																
51				x x x x x				-END OF DRILLING-												
52				x x x x x																
53				x x x x x																
54				x x x x x																
55				x x x x x																
56				x x x x x																
57				x x x x x																
58				x x x x x																
59				x x x x x																
60				x x x x x																
61				x x x x x																

FIG DRILLING LOG

Remarks

0 : Disturbed Soil Sample
 UD : Undisturbed Soil Sample taken by Shelby Tube

Project No. _____

Project The Study on Construction of Bridge Type of Drilling Rotary
over the River Rappia in Khujia

Hole Number B1-28A1 (PAGE 1 of 2)

Date 6/1/33 - 8/1/33

Water Table 0. m. Elevation 740+2.850 m. Driller _____

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test									
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 15 cm			N - Value					
												15cm	15cm	15cm	10	20	30	40	50	
1					Silty Clay	Light Brownish Grey To Grey	Very Soft	Plastic. trace of organic matter and snails.												
2									1.65	0-18	2	0	0	2						
3									3.15	0-78	0	0	0	0	SELF PENETRATION BY HAMMER					
4	-1.12	4.00	4.00			Grey			4.65	0-3	2	0	0	2						
5					Silty Sand	Grey	Very Loose	Non plastic and very silty. trace of mica. Sand is fine grained. Interbedded with silty clay (S to 60mm) at 0-4.	6.15	0-4	2	0	1	1						
6									7.65	0-5	0	0	0	0	SELF PENETRATION BY HAMMER					
7	-4.12	7.00	1.00		Clayey Silt	Grey	Very Soft	Plastic. With seams of fine sand (1 to 5mm).	8.15	0-6	1	0	0	1						
8	-5.62	8.50	1.50		Clayey Silt	Grey	Very Soft	Interbedded with plastic clayey silt and non plastic silty fine sand.	10.65	0-7	2	0	1	1						
9									12.15	0-8	3	0	1	2						
10									13.65	UD-1										
11	-8.62	11.50	1.00		Clayey Silt	Grey	Soft To Medium	Trace of sand and mica. Plastic at top and less plastic at bottom.	13.65	0-9	8	3	4	4						
12									15.15	0-10	32	10	9	23						
13									16.65	0-11	25	5	9	15						
14	-11.62	14.50	1.00		Silty Sand	Grey	Dense	Sand is fine grained. Non plastic. trace of mica throughout.	18.15	0-12	32	10	16	16						
15									19.65	0-13	44	13	20	26						
16									21.15	0-14	41	16	17	24						
17							Medium		22.65	0-15	30	12	14	16						
18									24.15	0-16	15	6	7	8						
19									25.65	0-17	38	12	16	23						
20									27.15	0-18	11	4	4	7						
21	-19.12	22.00	7.50		Sandy Silt	Grey	Very Stiff	Slightly plastic. High sand content.	28.65	0-19	14	5	6	8						
22	-20.62	23.50	1.50		Peat	Black	Stiff	Trace of very silty fine sand.	30.15	0-20	10	3	4	6						
23	-22.12	25.00	1.50		Silty Sand	Light Grey	Dense	Sand is fine grained. Non plastic.												
24																				
25	-23.62	26.50	1.50		Clayey Silt	Light Grey	Stiff	Plastic. With decomposed plant root.												
26																				
27																				
28																				
29																				
30																				
31	-28.12	31.00	1.50																	

FIG DRILLING LOG

Project No. _____

Project The Study on Construction of Bridge over the River Rupsa in Khulna Type of Drilling Relay

Hole Number BH-20A1 (PAGE 2 of 2)

Date 6/1/99 - 8/1/99

Water Table α- m. Elevation PN0+2.830 m. Driller _____

Remarks
 0 : Disturbed Soil Sample
 U0 : Undisturbed Soil Sample taken by Shelby Tube

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test								
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 15 cm			N - Value				
											15cm	15cm	15cm	10	20	30	40	50	
31	-28.12	31.00	1.50	x	Clayey Sil	Light Grey	Stiff	Plastic. With decomposed plant root.	30.15	0-20	10	3	4	6					
32				x	Silty Clay	Light Grey	Stiff	Plastic. Trace of decomposed organic matter.	31.65	0-21	10	5	5	5					
33				x					31.15	0-22	10	1	5	5					
34				x					34.65	0-23	3	0	0	3					
35	-32.62	35.50	1.50	x			Soft		36.15	0-24	12	5	4	8					
36				x	Sandy Sil	Light Grey	Stiff	Slightly plastic. trace of decomposed organic matter.	37.65	0-25	12	2	6	6					
37	-34.12	37.00	1.50	x	Silty Clay	Light Grey	Stiff	Plastic. trace of decomposed organic matter. Higher organic content at 0-25.	39.15	0-26	9	0	3	6					
38				x					40.00	U0-3									
39				x					40.45	0-27	13	6	6	7					
40				x					42.15	0-28	26	11	11	15					
41	-38.62	41.50	1.50	x	Clayey Sil	Light Grey	Very Stiff	Slightly plastic. trace of decomposed organic matter throughout.	43.65	0-29	24	8	10	14					
42				x					45.15	0-30	19	8	10	9					
43				x					46.65	0-31	27	12	13	14					
44				x					48.15	0-32	16	7	8	10					
45				x					49.65	0-33	21	9	10	11					
46				x					51.15	0-34	21	11	10	11					
47				x					52.65	0-35	23	10	11	12					
48	-50.62	53.50	12.00	x	Silty Sand	Light Grey	Very Dense	Sand is fine grained. trace of mica throughout.	54.15	0-36	79	23	36	43					79 B.O.S/30cm
49				x					55.65	0-37	60	21	28	32					60 B.O.S/30cm
50				x					57.15	0-38	75	27	35	41					76 B.O.S/30cm
51				x					58.65	0-39	75	19	34	42					76 B.O.S/30cm
52				x					60.15	0-40	69	21	33	36					69 B.O.S/30cm
53				x					61										
54	-57.57	60.45	6.95	x															
55				x															
56				x															
57				x															
58				x															
59				x															
60				x															
61				x				-END OF DRILLING-											

FIG DRILLING LOG

Remarks
D - Disturbed Soil Sample

Project No. _____ Project The Study on Construction of Bridge over the River Rupsa in Khulna Type of Drilling Rotary
 Hole Number B1-28A2 (PAGE 1 of 3) Date 19/7/99 - 21/7/99
 Water Table Q-120 m. Elevation PW+1.855 m. Driller _____

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test									
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 15 cm			N - Value					
												15cm	15cm	15cm	10	20	30	40	50	
1					Clayey Silt	Light Brownish Grey	Very Soft	Overlized zone. Low plastic. Little fine sand.												
2	1.33	2.50	2.50		Clayey Silt	Grey	Soft	Medium plastic. Trace of snail at top. With decomposed matter at bottom.	1.85	D-1	2	0	0	2						
3					Clayey Silt	Grey	Soft	Medium plastic. Trace of snail at top. With decomposed matter at bottom.	3.15	D-2	4	0	2	2						
4					Clayey Silt	Grey	Soft	Medium plastic. Trace of snail at top. With decomposed matter at bottom.	3.45											
5					Clayey Silt	Grey	Soft	Medium plastic. Trace of snail at top. With decomposed matter at bottom.	4.65	D-3	4	0	2	2						
6	-1.63	5.50	3.00		Clayey Silt	Grey	Very Soft	Non plastic and with decomposed matter at 0-4. Low plastic and trace of organic matter and fine sand below 7m.	6.15	D-4	0	0	0	0	SELF PENETRATION BY HAMMER					
7					Clayey Silt	Grey	Very Soft	Non plastic and with decomposed matter at 0-4. Low plastic and trace of organic matter and fine sand below 7m.	6.45											
8					Clayey Silt	Grey	Very Soft	Non plastic and with decomposed matter at 0-4. Low plastic and trace of organic matter and fine sand below 7m.	7.85	D-5	0	0	0	0	SELF PENETRATION BY HAMMER					
9					Clayey Silt	Grey	Very Soft	Non plastic and with decomposed matter at 0-4. Low plastic and trace of organic matter and fine sand below 7m.	7.95											
10					Clayey Silt	Grey	Very Soft	Non plastic and with decomposed matter at 0-4. Low plastic and trace of organic matter and fine sand below 7m.	9.15	D-6	0	0	0	0	SELF PENETRATION BY HAMMER					
11					Clayey Silt	Grey	Very Soft	Non plastic and with decomposed matter at 0-4. Low plastic and trace of organic matter and fine sand below 7m.	9.45											
12	-7.64	11.50	6.00		Sand	Light Grey	Medium	Sand is fine grained. Little silt. With seams of clayey silt with fine sand.	10.65	D-7	0	0	0	0	SELF PENETRATION BY HAMMER					
13					Sand	Light Grey	Medium	Sand is fine grained. Little silt. With seams of clayey silt with fine sand.	10.95											
14					Sand	Light Grey	Medium	Sand is fine grained. Little silt. With seams of clayey silt with fine sand.	12.15	D-8	14	7	5	9						
15	-10.64	14.50	3.00		Sandy Silt	Grey	Medium	Slightly plastic. Sand is fine grained. Little clay.	12.45											
16					Sandy Silt	Grey	Medium	Slightly plastic. Sand is fine grained. Little clay.	13.65	D-9	12	6	7	5						
17	-12.14	16.00	1.50		Sand	Light Grey	Medium To Dense	Sand is fine grained. Laminated at D-11. With silt at D-11. Little clay throughout.	13.95											
18					Sand	Light Grey	Medium To Dense	Sand is fine grained. Laminated at D-11. With silt at D-11. Little clay throughout.	15.15	D-10	6	2	2	1						
19	-15.14	18.00	3.00		Sand	Light Grey	Medium To Dense	Sand is fine grained. Laminated at D-11. With silt at D-11. Little clay throughout.	15.45											
20					Silty Sand	Light Grey	Dense	Sand is fine grained. Laminated. Trace of mica.	16.65	D-11	15	3	7	8						
21					Silty Sand	Light Grey	Dense	Sand is fine grained. Laminated. Trace of mica.	16.95											
22					Silty Sand	Light Grey	Dense	Sand is fine grained. Laminated. Trace of mica.	18.15	D-12	30	7	12	18						
23					Silty Sand	Light Grey	Dense	Sand is fine grained. Laminated. Trace of mica.	18.45											
24					Silty Sand	Light Grey	Dense	Sand is fine grained. Laminated. Trace of mica.	19.65	D-13	43	12	21	22						
25	-21.14	25.00	6.00		Silty Sand	Light Grey	Dense	Sand is fine grained. Trace of mica.	19.95											
26					Silty Sand	Light Grey	Dense	Sand is fine grained. Trace of mica.	21.15	D-14	41	12	18	23						
27					Silty Sand	Light Grey	Dense	Sand is fine grained. Trace of mica.	21.45											
28	-24.14	28.00	3.00		Sand	Light Grey	Dense	With little silt. Seams of silty sand and sand with silt. Trace of organic matter and snail at D-21.	22.65	D-15	35	9	17	18						
29					Sand	Light Grey	Dense	With little silt. Seams of silty sand and sand with silt. Trace of organic matter and snail at D-21.	22.95											
30					Sand	Light Grey	Dense	With little silt. Seams of silty sand and sand with silt. Trace of organic matter and snail at D-21.	24.15	D-16	36	11	16	20						
31					Sand	Light Grey	Dense	With little silt. Seams of silty sand and sand with silt. Trace of organic matter and snail at D-21.	24.45											
					Sand	Light Grey	Dense	With little silt. Seams of silty sand and sand with silt. Trace of organic matter and snail at D-21.	25.65	D-17	37	14	15	22						
					Sand	Light Grey	Dense	With little silt. Seams of silty sand and sand with silt. Trace of organic matter and snail at D-21.	25.95											
					Sand	Light Grey	Dense	With little silt. Seams of silty sand and sand with silt. Trace of organic matter and snail at D-21.	27.15	D-18	39	12	16	23						
					Sand	Light Grey	Dense	With little silt. Seams of silty sand and sand with silt. Trace of organic matter and snail at D-21.	27.45											
					Sand	Light Grey	Dense	With little silt. Seams of silty sand and sand with silt. Trace of organic matter and snail at D-21.	28.65	D-19	47	20	24	23						
					Sand	Light Grey	Dense	With little silt. Seams of silty sand and sand with silt. Trace of organic matter and snail at D-21.	28.95											
					Sand	Light Grey	Dense	With little silt. Seams of silty sand and sand with silt. Trace of organic matter and snail at D-21.	30.15	D-20	40	16	20	20						
					Sand	Light Grey	Dense	With little silt. Seams of silty sand and sand with silt. Trace of organic matter and snail at D-21.	30.45											

FIG DRILLING LOG

Project No. _____

Project The Study on Construction of Bridge over the River Rugga in Khulna Type of Drilling Rotary

Hole Number BH-28A2 (PAGE 2 of 3)

Date 19/1/99 - 22/1/99

Water Table Q-120 m.

Elevation FW03.885 m.

Driller _____

Remarks
D : Disturbed Soil Sample

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test								
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 15 cm			N - Value				
												15cm	15cm	15cm	10	20	30	40	50
31					Sand	Light Grey	Dense	With little silt. Seams of silty sand and sand with silt. Trace of organic matter and snail at 0-21.	30.15 30.45	0-20	40	16	20	20					
32	-28.64	32.50	1.50		Silt	Light Grey	Very Stiff	With seams of sand. Trace of organic matter and mica.	31.65 31.95	0-21	32	15	15	17					
33					Silt	Light Grey	Very Stiff	With seams of sand. Trace of organic matter and mica.	33.15 33.45	0-22	21	10	9	12					
34					Silt	Light Grey	Very Stiff	With seams of sand. Trace of organic matter and mica.	34.65 34.95	0-23	20	8	10	10					
35	-31.64	35.50	1.00		Clayey Silt	Light Grey	Very soft	Plastic. Trace of organic matter and snail.	36.15 36.45	0-24	2	0	0	2					
36					Sandy Silt	Grey	Very Soft	Sand is fine grained. Little clay. Trace of organic matter.	37.65 37.95	0-25	2	0	0	2					
37	-33.14	37.00	1.50		Sandy Silt	Grey	Very Soft	Sand is fine grained. Little clay. Trace of organic matter.	38.15 38.45	0-26	2	0	0	2					
38					Sandy Silt	Grey	Stiff	Sand is fine grained. Little clay. Trace of organic matter.	40.85 40.95	0-27	10	6	5	5					
39					Clayey Silt	Grey	Stiff to Very Stiff	Low plastic. Trace of organic matter.	42.15 42.45	0-28	14	4	6	8					
40	-36.14	43.00	1.00		Sandy Silt	Grey	Stiff	Sand is fine grained. Little clay. Trace of organic matter.	43.65 43.95	0-29	15	6	7	8					
41	-37.64	41.50	1.50		Clayey Silt	Grey	Stiff to Medium	Low plastic. Trace of organic matter throughout. Little sand below 45m.	45.15 45.45	0-30	9	5	5	4					
42					Clayey Silt	Grey	Stiff to Medium	Low plastic. Trace of organic matter throughout. Little sand below 45m.	46.85 46.95	0-31	8	4	4	4					
43					Clayey Silt	Grey	Stiff to Medium	Low plastic. Trace of organic matter throughout. Little sand below 45m.	48.15 48.45	0-32	8	4	4	4					
44	-43.64	44.50	1.00		Clayey Silt	Grey	Stiff to Medium	Low plastic. Trace of organic matter throughout. Little sand below 45m.	49.65 49.95	0-33	7	2	4	3					
45					Clayey Silt	Grey	Stiff to Medium	Low plastic. Trace of organic matter throughout. Little sand below 45m.	51.15 51.45	0-34	7	2	3	4					
46					Clayey Silt	Grey	Stiff to Medium	Low plastic. Trace of organic matter throughout. Little sand below 45m.	52.65 52.95	0-35	8	3	4	4					
47					Sand	Grey	Very Dense	Sand is fine grained. With silt. Trace of organic matter.	54.15 54.45	0-36	123	43	43	60					123 BLOWS/30cm
48	-51.14	53.00	1.50		Silty Sand	Grey	Very Dense	Sand is fine grained. Trace of mica.	55.50 55.65	0-37	150/15	150							150 BLOWS/15cm
49					Silty Sand	Grey	Very Dense	Sand is fine grained. Trace of mica.	57.00 57.15	0-38	140/15	140							140 BLOWS/15cm
50					Silty Sand	Grey	Very Dense	Sand is fine grained. Trace of mica.	58.65 58.95	0-39	74	22	32	42					74 BLOWS/30cm
51					Silty Sand	Grey	Very Dense	Sand is fine grained. Trace of mica.	60.15 60.45	0-40	109	24	53	56					109 BLOWS/30cm

FIG DRILLING LOG

Project No. _____

Project The Study on Construction of Bridge over the River Rupsa in Kuba Type of Drilling Relay

Hole Number B1-2842 (PAGE 3 of 3)

Date 19/1/99 - 21/1/99

Water Table Q-120 m.

Elevation FM0+385 m.

Driller _____

Remarks

0 : Disturbed Soil Sample

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test										
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 15 cm			N - Value						
												15cm	15cm	15cm	10	20	30	40	50		
61	-57.13	61.00	8.00	x x x	Silty Sand	Grey	Very Dense	Sand is fine grained. trace of mica.	60.15 60.45	0-40	109	24	53	56	109 BLOWS/30cm						
62				x x x	Sand	Grey	Very Dense	Sand is fine grained. trace of mica. Seams of silt up to 6m. Little silt at bottom.	61.65 61.55	0-118	96	34	50	46	96 BLOWS/30cm						
63				x x x					63.15 63.45	0-42	106	40	52	54	106 BLOWS/30cm						
64				x x x					64.85 64.95	0-43	145	41	61	84	145 BLOWS/30cm						
65	-61.08	64.95	1.95		-END OF DRILLING-																
66																					
67																					
68																					
69																					
70																					
71																					
72																					
73																					
74																					
75																					
76																					
77																					
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79																					
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84																					
85																					
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88																					
89																					
90																					
91																					

FIG DRILLING LOG

Project No. _____

Project The Study on Construction of Bridge over the River Rappa in India

Type of Drilling Acty

Hole Number B1-2W2 (PAGE 1 of 2)

Date 31/7/99 - 1/8/99

Water Table 0- m.

Elevation FM11950 m.

Driller _____

Remarks

D : Disturbed Soil Sample
 UD : Undisturbed Soil Sample taken by Shelby Tube

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test									
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 15 cm			N - Value					
												15cm	15cm	15cm	10	20	30	40	50	
1					Silt	Brownish Grey	Soft	Oxidized zone. Slightly plastic. Slightly clay.												
2	-0.01	2.00	2.00		Clayey Silt	Grey	Very Soft	Plastic. Trace of organic matter between 5.5m and 8.5m.	1.65	0-1S	4	1	2	2						
3									3.15	0-2S	2	0	1	1						
4									4.05	UD-1S										
5									4.50											
6									4.65	0-3S	2	0	1	1						
7									4.95											
8									6.15	0-1S	2	0	1	1						
9									6.45											
10	-8.01	10.00	1.00						7.60	0-3S	1	1	1	0						
11					Sandy Silt	Light Grey	Loose	Non plastic. Trace of mica.	7.90											
12									8.55	UD-2S										
13	-11.04	13.00	3.00						9.00	0-8S	3	1	2	1						
14									9.15											
15									10.55	0-7S	8	2	4	4						
16	-14.04	16.00	1.00		Silty Sand	Light Grey	Medium	Non plastic. Very Silty.	10.95											
17									12.15	0-8S	7	1	3	4						
18									12.45											
19									13.65	0-9S	14	4	7	7						
20									13.95											
21									15.15	0-10S	15	5	7	8						
22									15.45											
23									16.65	0-11S	32	9	13	19						
24									16.95											
25									18.15	0-12S	33	10	13	20						
26									18.45											
27									19.65	0-13S	42	13	21	21						
28									19.95											
29									21.15	0-14S	38	11	17	21						
30									21.45											
31									22.65	0-15S	38	11	17	21						
									22.95											
									24.15	0-16S	39	12	17	22						
									24.45											
									25.65	0-17S	35	12	17	18						
									25.95											
									27.15	0-18S	34	11	16	13						
									27.45											
									28.65	0-19S	12	5	6	6						
									28.95											
									30.15	0-20S	12	3	6	6						
									30.45											

FIG DRILLING LOG

Project No. _____

Project The Study on Construction of Bridge over the River Rupsa in Khusha Type of Drilling Rotary

Hole Number B4-2W2 (PAGE 2 of 2)

Date 31/1/99 - 1/8/99

Water Table α- m.

Elevation P4011560 m.

Driller _____

Remarks
D: Disturbed Soil Sample

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test														
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 15 cm			N - Value										
												15cm	15cm	15cm	10	20	30	40	50						
31				[X pattern]	Clayey Silt	Light Grey	Stiff	Plastic and homogeneous.	30.15	0-20S	12	3	6	6											
32			31.65						0-21S	10	3	5	5												
33			33.15						0-22	11	3	5	6												
34			34.65						0-23S	17	5	8	9												
35			36.15						0-24S	17	9	8	9												
36			37.65						0-25	19	8	9	10												
37			39.15						0-26S	23	9	12	11												
38	-38.04	43.00	12.00									Very Stiff		39.15	0-26S	23	9	12	11						
39									[X pattern]	Silt	Light Grey	Medium	Non plastic. Slightly sand. trace of mica throughout.	40.65	0-27S	21	9	9	12						
40			42.15											0-28S	23	9	11	12							
41			43.65	0-29S	22	9	10	12																	
42			45.15	0-30S	24	9	10	14																	
43			46.65	0-31S	23	10	11	12																	
44	-45.54	47.50	7.50											48.15	0-32S	50	14	19	31						
45				[Dotted pattern]	Silty Sand	Light Grey	Very Dense	Very silty fine sand. Non plastic.						49.65	0-33S	57	17	25	32						
46			50.65											0-33S	57	17	25	32							
47														-END OF DRILLING-											
48																									
49																									
50	-47.99	49.95	2.45																						
51																									
52																									
53																									
54																									
55																									
56																									
57																									
58																									
59																									
60																									
61																									

FIG DRILLING LOG

Remarks
0 : Disturbed Soil Sample

Project No. _____

Project The Study on Construction of Bridge over the River Rupsa in Khulna

Type of Drilling Rotary

Hole Number 81-2442 (PAGE 1 of 2)

Date 7/8/99 - 9/8/99

Water Table Q-020 m.

Elevation FW011.897 m.

Driller _____

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test									
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 15 cm			N - Value					
												15cm	15cm	15cm	10	20	30	40	50	
1					Clayey Sil	Dark Grey to Light Brown to Grey	Very Soft	Low plastic at top. With roots. With decomposed organic matter at bottom.	1.55	0-1	1	0	0	1						
2									1.95											
3									3.15	0-2	0	0	0	0	SELF PENETRATION BY HAMMER					
4	-2.10	4.00	4.00		Silt	Light Grey	Soft	Non plastic. With little clay. trace of fine sand and roots.	3.45											
5									4.85	0-3	4	0	2	2						
6	-1.50	5.50	1.50		Sandy Sil	Light Grey	Soft to Very Soft	Sand is fine grained. With little clay. trace of organic matter and mica.	4.95											
7									6.15	0-4	4	1	2	2						
8									6.45											
9	-6.60	8.50	1.00		Silt	Light Grey	Medium	With seams of fine sand. trace of mica throughout. trace of organic matter at 0-6. trace of clay above 10m. Little clay below 10m.	7.85	0-5	2	0	0	2						
10									9.15	0-6	4	2	2	2						
11									9.45											
12									10.85	0-7	5	2	2	3						
13	-11.10	13.00	4.50						12.15	0-8	6	2	3	3						
14					Sandy Sil	Light Grey	Medium	Sand is fine grained. trace of organic matter and mica.	12.45											
15									13.65	0-9	6	2	3	3						
16									13.95											
17	-14.40	16.30	3.30		Sand	Light Grey	Medium	Sand is fine grained. Little silt throughout. trace of mica throughout.	15.15	0-10	7	2	3	4						
18									15.45											
19									16.65	0-11	29	9	13	15						
20									16.95											
21									18.15	0-12	33	12	16	17						
22									18.45											
23									19.65	0-13	35	11	16	19						
24									19.95											
25	-23.10	25.00	4.70						21.15	0-14	38	12	18	20						
26					Silty Clay	Grey	Soft	Plastic. Little organic matter at 0-17 and 0-20. With organic matter at 0-18 and 0-19. trace of fine sand up to 29m. With little fine sand at 0-20.	21.45											
27									22.65	0-15	38	10	16	22						
28									22.95											
29									24.15	0-16	34	11	16	18						
30							Dense		24.45											
31	-23.10	31.00	6.00						25.65	0-17	4	2	2	2						
									25.95											
									27.15	0-18	8	2	4	4						
									27.45											
									28.65	0-19	9	4	4	5						
									28.95											
									30.15	0-20	10	4	4	6						
									30.45											

FIG DRILLING LOG

Project No. _____

Project The Study on Construction of Bridge over the River Rupsa in Kuluva Type of Drilling Rotary

Hole Number BH-202 (PAGE 2 of 2)

Date 7/6/59 - 9/6/59

Water Table 0-20 m. Elevation FM+1.897 m. Driller _____

Remarks

D : Disturbed Soil Sample

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test									
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 15 cm			N - Value					
												15cm	15cm	15cm	10	20	30	40	50	
31	-29.10	31.00	6.00	[Symbol]	Silty Clay	Grey	Medium	Plastic. Little organic matter at 0-17 and 0-20. With organic matter at 0-18 and 0-19. Trace of fine sand up to 25m. With little fine sand at 0-20.	30.15	0-20	10	4	4	6	●	-	-	-	-	-
32	-30.43	32.30	1.30		Silt	Light Grey	Hard		31.65	0-21	38	7	18	20						
33				[Symbol]	Silty Sand	Light Grey	Dense	With seams of fine sand. Trace of organic matter. Sand is fine grained. Trace of mica.	31.15	0-22	49	11	21	28	●	-	-	-	-	-
34	-32.19	34.00	1.70		Silty Sand	Light Grey	Very Dense		34.65	0-23	82	18	36	46						
35				[Symbol]	Sand	Light Grey	Dense	With little silt and trace of mica throughout. Sand is fine to medium grained at 0-25 & 0-28 and 0-29. Sand is fine grained between 33m and 43m and below 46m.	36.00	0-24	99	22	39	60	●	-	-	-	-	-
36									37.00	0-24	99	22	39	60						
37	-35.10	37.00	1.00	[Symbol]	Sand	Light Grey	Dense		37.65	0-25	45	12	18	27	●	-	-	-	-	-
38									39.15	0-26	67	22	32	35						
39				[Symbol]	Sand	Light Grey	Dense		40.65	0-27	82	20	29	33	●	-	-	-	-	-
40									42.15	0-28	74	23	34	40						
41				[Symbol]	Sand	Light Grey	Dense		43.65	0-29	52	18	22	30	●	-	-	-	-	-
42									45.15	0-30	48	15	21	27						
43				[Symbol]	Sand	Light Grey	Dense		46.65	0-31	52	19	25	27	●	-	-	-	-	-
44									48.15	0-32	57	23	27	30						
45				[Symbol]	Sand	Light Grey	Very Dense		49.65	0-33	58	23	27	31	●	-	-	-	-	-
46									51.15	0-34	49	25	22	27						
47				[Symbol]	Sand	Light Grey	Dense		52.65	0-35	62	22	27	35	●	-	-	-	-	-
48									54.15	0-36	63	21	29	34						
49				[Symbol]	Sand	Light Grey	Very Dense		55.65	0-37	68	24	32	36	●	-	-	-	-	-
50									57.15	0-38	77	25	35	42						
51				[Symbol]	Sand	Light Grey	Very Dense		58.65	0-39	58	20	26	32	●	-	-	-	-	-
52									60.15	0-40	70	25	32	38						
53				[Symbol]	Sand	Light Grey	Very Dense		61.15	0-41	70	25	32	38	●	-	-	-	-	-
54									62.15	0-42	70	25	32	38						

FIG DRILLING LOG

Project No. _____

Project The Study on Construction of Bridge over the River Rupsal in Khujda

Type of Drilling Wash Boring

Hole Number BR-2883 (PAGE 1 of 1)

Date 30/7/99

Water Table 0.150 m.

Elevation PW013078 m.

Driller _____

Remarks
 0 : Disturbed Soil Sample
 U0 : Undisturbed Soil Sample taken by Shelby Tube

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test									
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 15 cm			N - Value					
												15cm	15cm	15cm	10	20	30	40	50	
1					Silty Clay	Brown	Soft	Oxidized. Right plastic												
2									1.65	0-1S	4	1	2	2						
3	0.08	1.00	1.00		Sandy Silt	Grey	Very Loose	Mixed with clay.	2.55	U0-1S										
4	-0.92	1.00	1.00		Clayey Silt	Grey	Very Soft	Mixed with fine sand. trace of mica.	3.15	0-2S	2	0	1	1						
5									4.65	0-3S	1	0	0	1						
6	-2.42	5.50	1.50		Silty Sand	Grey	Loose	Sand is fine grained. trace of mica.	6.15	0-4S	5	3	3	2						
7									6.45											
8					Silty Sand	Grey	Medium	Sand is fine grained. trace of mica throughout.	7.65	0-5S	13	3	5	8						
9									7.95											
10									9.15	0-6S	22	5	9	13						
11									10.65	0-7S	23	6	10	13						
12									12.15	0-8S	24	7	10	14						
13									12.45											
14									13.65	0-9S	27	8	11	16						
15									13.95											
16									15.15	0-10S	13	5	6	7						
17									15.45											
18									16.65	0-11S	21	7	9	12						
19									16.95											
20									18.15	0-12S	25	6	12	13						
21									18.45											
22							Dense		19.65	0-13S	28	7	13	15						
23									19.95											
24							Medium		21.15	0-14S	35	10	15	20						
25	-21.37	24.45	17.45						21.45											
26								-END OF DRILLING-	22.65	0-15S	36	10	16	20						
27									22.95											
28									24.15	0-16S	19	7	10	9						
29									24.45											
30																				
31																				

FIG DRILLING LOG

Project No. _____

Project The Study on Construction of Bridge over the River Rugga in Khulna

Type of Drilling Wash Boring

Remarks

0: Disturbed Soil Sample
10: Undisturbed Soil Sample taken by Shelby Tube

Hole Number B1-2681 (PAGE 1 of 1)

Date 29/1/99

Water Table 0.205 m.

Elevation PWD: 3.454 m.

Driller _____

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test								
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 15 cm			N - Value				
												15cm	15cm	15cm	10	20	30	40	50
1					Silty Clay	Brownish Grey	Soft	Plastic. trace of fine sand and mica.											
2	0.95	2.50	1.50		Clayey Silt	Reddish Brown	Soft	Trace of fine sand and mica.	1.85 1.95	0-1	4	2	2	2					
3									2.55 3.00	100-1									
4	-0.55	4.00	1.50		Silty Sand	Grey	Medium	Sand is fine grained. trace of mica.	3.15 3.45	0-2	4	1	2	2					
5									4.65 4.95	0-3	12	2	5	7					
6									6.15 6.45	0-4	15	4	7	8					
7									7.65 7.95	0-5	10	4	4	6					
8	-5.05	8.50	4.50		Silty Sand	Grey	Loose	Sand is fine grained. With clay. trace of mica.	9.15 9.45	0-6	4	2	2	2					
9									10.65 10.95	0-7	15	4	7	8					
10	-6.55	10.00	1.50		Sand	Grey	Medium	Sand is fine grained. With seams of sil. trace of mica.	12.15 12.45	0-8	10	3	5	5					
11	-8.05	11.50	1.50		Sandy Silt	Grey	Medium	Low plastic. With clay. trace of mica.	13.65 13.95	0-9	12	4	6	6					
12									15.15 15.45	0-10	21	8	8	13					
13	-9.55	13.00	1.50		Silty Sand	Grey	Medium	Sand is fine grained. With clay at 0-9. trace of mica throughout.	16.65 16.95	0-11	16	5	7	9					
14									18.15 18.45	0-12	20	6	8	12					
15									19.65 19.95	0-13	25	8	11	14					
16									21.15 21.45	0-14	37	12	17	20					
17									22.65 22.95	0-15	42	12	20	22					
18									24.15 24.45	0-15	43	14	19	24					
19	-17.05	20.50	7.50		Silty Sand	Grey	Dense	Sand is fine grained. trace of mica.											
20																			
21																			
22																			
23																			
24																			
25	-21.00	24.45	3.95																
26																			
27																			
28																			
29																			
30																			
31																			

FIG DRILLING LOG

Project No. _____

Project The Study on Construction of Bridge over the River Puppa in Kerala

Type of Drilling Rotary

Hole Number BH-3/11 (PAGE 1 of 2)

Date 18/8/99 - 20/8/99

Water Table 0.00 m.

Elevation PD+2257 m.

Driller _____

Remarks
0: Disturbed Soil Sample

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Standard Penetration Test											
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 15 cm			N - Value					
												15cm	15cm	15cm	10	20	30	40	50	
1					Silty Clay	Light Brownish Grey	Soft	Plastic												
2	-0.24	2.50	1.50							1.65	0-16	4	0	2	2					
3					Silty Clay	Light Brown To Dark Grey	Very Soft	Plastic. With decomposed organic matter throughout.		3.15	0-28	0	0	0	0					
4										3.45										
5										4.65	0-38	0	0	0	0					
6										4.95										
7	-0.74	7.00	4.50		Clayey Silt	Grey	Very Soft	Slightly plastic. trace of fine sand.		6.15	0-48	0	0	0	0					
8										6.45										
9					Sandy Silt	Grey	Soft	Slightly plastic. trace of clay.		7.65	0-58	1	0	0	1					
10										7.95										
11					Sand	Grey	Very Loose To Loose	Non plastic fine sand. With seams of clayey silt throughout.		8.15	0-68	3	0	1	2					
12										8.45										
13										10.65	0-78	4	2	2	2					
14										10.95										
15	-12.24	14.50	1.50		Sand	Grey	Loose	Material is same as above layer.		12.15	0-88	4	1	2	2					
16										12.45										
17	-13.74	16.00	1.50		Clayey Silt	Light Grey	Stiff	Slightly plastic. With seams of silty fine sand. trace of mica.		13.65	0-98	4	1	1	3					
18										13.95										
19	-15.24	17.50	1.50		Silty Sand	Light Grey	Medium	Non plastic silty fine sand. With seams of clayey silt.		15.15	0-108	6	3	2	4					
20										15.45										
21										16.65	0-118	9	2	4	5					
22										16.95										
23										18.15	0-128	19	9	11	8					
24										18.45										
25										19.65	0-138	23	7	11	12					
26										19.95										
27	-18.24	24.50	1.00		Silty Sand	Light Grey	Medium	Non plastic silty fine sand. With seams of clayey silt throughout. trace of mica and decomposed organic matter at 0-16.		21.15	0-148	26	9	13	13					
28										21.45										
29										22.65	0-158	27	7	11	16					
30										22.95										
31										24.15	0-168	29	10	12	17					
										24.45										
										25.65	0-178	23	12	10	13					
										25.95										
										27.15	0-188	47	14	19	28					
										27.45										
										28.65	0-198	48	14	19	29					
										28.95										
										30.15	0-208	48	13	19	29					
										30.45										

FIG DRILLING LOG

Remarks
 0 : Disturbed Soil Sample

Project No. _____

Project The Study on Construction of Bridge over the River Rupsa in Khulna Type of Drilling Rotary

Hole Number BH-JYAI (PAGE 2 of 2)

Date 18/8/59 - 20/8/59

Water Table 02-030 m.

Elevation FW12257 m.

Driller _____

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Standard Penetration Test											
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 15 cm			N - Value					
												15cm	15cm	15cm	10	20	30	40	50	
31				x	Silty Sand	Light Grey	Dense	Non plastic Sand is fine grained. trace of mica throughout.	30.15 30.45	0-20 S	48	13	19	29						
32				x	Silty Sand	Light Grey	Dense	Non plastic Sand is fine grained. trace of mica throughout.	31.65 31.95	0-21 S	48	16	22	26						
33				x	Silty Sand	Light Grey	Dense	Non plastic Sand is fine grained. trace of mica throughout.	33.15 33.45	0-22 S	50	15	22	28			50 BLOW/30cm			
34	-31.74	34.00	2.50	x	Silty Sand	Light Grey	Very Dense	Sand is fine grained. Non plastic. Trace of mica throughout. Less silt content below 37m.	34.65 34.95	0-23 S	54	14	26	28			54 BLOW/30cm			
35				x	Silty Sand	Light Grey	Dense	Non plastic Sand is fine grained. trace of mica throughout.	36.15 36.45	0-24 S	48	18	22	26						
36				x	Silty Sand	Light Grey	Dense	Non plastic Sand is fine grained. trace of mica throughout.	37.65 37.95	0-25 S	57	19	26	31			57 BLOW/30cm			
37				x	Silty Sand	Light Grey	Dense	Non plastic Sand is fine grained. trace of mica throughout.	39.15 39.45	0-26 S	56	20	24	32			56 BLOW/30cm			
38				x	Silty Sand	Light Grey	Very Dense	Non plastic Sand is fine grained. trace of mica throughout.	40.65 40.95	0-27 S	23	8	12	11						
39				x	Clayey Sil	Grey	Very Stiff	Slightly plastic. Trace of decomposed organic matter and mica.	42.15 42.45	0-28 S	21	7	10	11						
40	-37.74	40.00	6.00	x	Silty Clay	Grey	Very Stiff	Plastic. Trace of decomposed organic matter and sand.	43.65 43.95	0-29 S	25	7	14	11						
41	-39.74	41.50	1.50	x	Silty Clay	Grey	Very Stiff	Plastic. Trace of decomposed organic matter throughout.	45.15 45.45	0-30 S	24	6	13	11						
42	-43.74	43.00	1.50	x	Silty Clay	Grey	Very Stiff	Plastic. Trace of decomposed organic matter throughout.	46.65 46.95	0-31 S	14	7	6	8						
43				x	Sandy Sil	Light Grey	Stiff	Slightly plastic. Sand is fine grained. trace of clay and decomposed organic matter.	48.15 48.45	0-32 S	15	6	6	9						
44				x	Silty Clay	Light Grey	Stiff	Plastic. Trace of sand and decomposed organic matter throughout.	49.65 49.95	0-33 S	12	5	6	6						
45				x	Silty Clay	Light Grey	Stiff	Plastic. Trace of sand and decomposed organic matter throughout.	51.15 51.45	0-34 S	11	4	5	6						
46	-43.74	46.00	3.00	x	Silty Clay	Light Grey	Stiff	Plastic. Trace of sand and decomposed organic matter throughout.	52.65 52.95	0-35 S	14	5	6	8						
47				x	Silty Sand	Light Grey	Very Dense	Non plastic. Sand is fine grained. trace of mica and some of clayey sil.	54.15 54.45	0-36 S	92	32	40	52			92 BLOW/30cm			
48				x	Silty Sand	Light Grey	Very Dense	Non plastic. Sand is fine grained. trace of mica and some of clayey sil.	55.65 55.95	0-37 S	84	25	37	47			84 BLOW/30cm			
49	-54.71	56.50	1.00	x	Silty Sand	Light Grey	Very Dense	Non plastic. Sand is fine grained. trace of mica throughout. Less silt content below 58m.	57.15 57.45	0-38 S	86	29	43	43			86 BLOW/30cm			
50				x	Silty Sand	Light Grey	Very Dense	Non plastic. Sand is fine grained. trace of mica throughout.	58.65 58.95	0-39 S	88	27	42	46			88 BLOW/30cm			
51				x	Silty Sand	Light Grey	Very Dense	Non plastic. Sand is fine grained. trace of mica throughout.	60.15 60.45	0-40 S	89	28	42	47			89 BLOW/30cm			
52	-58.19	60.45	1.95	x	Silty Sand	Light Grey	Very Dense	Non plastic. Sand is fine grained. trace of mica throughout.												
53				x	Silty Sand	Light Grey	Very Dense	Non plastic. Sand is fine grained. trace of mica throughout.												
54				x	Silty Sand	Light Grey	Very Dense	Non plastic. Sand is fine grained. trace of mica throughout.												
55				x	Silty Sand	Light Grey	Very Dense	Non plastic. Sand is fine grained. trace of mica throughout.												
56				x	Silty Sand	Light Grey	Very Dense	Non plastic. Sand is fine grained. trace of mica throughout.												
57				x	Silty Sand	Light Grey	Very Dense	Non plastic. Sand is fine grained. trace of mica throughout.												
58				x	Silty Sand	Light Grey	Very Dense	Non plastic. Sand is fine grained. trace of mica throughout.												
59				x	Silty Sand	Light Grey	Very Dense	Non plastic. Sand is fine grained. trace of mica throughout.												
60				x	Silty Sand	Light Grey	Very Dense	Non plastic. Sand is fine grained. trace of mica throughout.												
61				x	-END OF DRILLING-															

FIG DRILLING LOG

Project No. _____

Project The Study on Construction of Bridge over the River Rupsa in Khulna Type of Drilling RotaryHole Number BK-JWP1 (PAGE 1 of 2)Date 10/8/59 - 12/8/59Water Table 0.2 m. Elevation FW-2079 m. Driller _____**Remarks**D : Disturbed Soil Sample
UD : Undisturbed Soil Sample taken by Shelby Tube

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Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test						
									Depth in m	Sample No.	N-Value Blows/30cm	Blows Per Each 15 cm			N - Value		
											10	20	30	40	50		
											15cm	15cm	15cm				
1				X	Grey Silt	Brownish Grey	Soft	Organic zone. Plastic.									
2	0.08	2.00	2.00	X	Grey Silt	Black	Soft	Plastic. With decomposed organic matter.	1.85	0-1S	2	1	1	1			
3				X	Grey Silt	Black	Soft	Plastic. With decomposed organic matter.									
4	-1.92	4.00	2.00	X	Grey Silt	Grey To Black	Soft To Very Soft	Plastic. Few organic matter.	3.15	0-2S	2	0	1	1			
5				X	Grey Silt	Grey To Black	Soft To Very Soft	Plastic. Few organic matter.	4.95	0-3S	4	2	2	2			
6				X					5.55		NO RECOVERY						
7	-4.92	7.00	1.00	X	Silt	Light Grey	Medium	Slightly plastic. Few clay and sand.	6.00	UD-1	0	1	0	0	SELF PENETRATION BY HAMMER		
8				X	Silt	Light Grey	Medium	Slightly plastic. Few clay and sand.	6.45	0-4S	0	1	0	0			
9				X	Silt	Light Grey	Medium	Slightly plastic. Few clay and sand.	7.65	0-5S	6	2	2	4			
10	-7.92	10.00	1.00	X	Silt	Light Grey	Medium	Slightly plastic. Few clay and sand.	9.15	0-6S	7	2	3	4			
11				X	Sandy Silt	Light Grey	Very Loose	Non plastic.	10.65	0-7S	3	1	1	2			
12				X	Sandy Silt	Light Grey	Very Loose	Non plastic.	10.95								
13				X	Sandy Silt	Light Grey	Very Loose	Non plastic.	12.15	0-8	4	1	1	3	NO RECOVERY		
14				X	Sandy Silt	Light Grey	Very Loose	Non plastic.	12.45								
15	-12.72	14.80	4.80	X	Silty Sand	Light Grey	Medium	Sand is fine grained. Very silty and non plastic. trace of mica throughout.	13.65	0-9S	4	1	1	3			
16				X	Silty Sand	Light Grey	Medium	Sand is fine grained. Very silty and non plastic. trace of mica throughout.	13.95								
17				X	Silty Sand	Light Grey	Medium	Sand is fine grained. Very silty and non plastic. trace of mica throughout.	15.15	0-10S	24	11	11	13			
18				X	Silty Sand	Light Grey	Medium	Sand is fine grained. Very silty and non plastic. trace of mica throughout.	15.45								
19				X	Silty Sand	Light Grey	Medium	Sand is fine grained. Very silty and non plastic. trace of mica throughout.	16.65	0-11S	27	10	12	15			
20				X	Silty Sand	Light Grey	Medium	Sand is fine grained. Very silty and non plastic. trace of mica throughout.	16.95								
21				X	Silty Sand	Light Grey	Medium	Sand is fine grained. Very silty and non plastic. trace of mica throughout.	18.15	0-12S	25	8	12	13			
22				X	Silty Sand	Light Grey	Medium	Sand is fine grained. Very silty and non plastic. trace of mica throughout.	18.45								
23				X	Silty Sand	Light Grey	Medium	Sand is fine grained. Very silty and non plastic. trace of mica throughout.	19.65	0-13S	27	9	12	15			
24				X	Silty Sand	Light Grey	Medium	Sand is fine grained. Very silty and non plastic. trace of mica throughout.	19.95								
25				X	Silty Sand	Light Grey	Medium	Sand is fine grained. Very silty and non plastic. trace of mica throughout.	21.15	0-14S	29	10	13	16			
26				X	Silty Sand	Light Grey	Medium	Sand is fine grained. Very silty and non plastic. trace of mica throughout.	21.45								
27				X	Silty Sand	Light Grey	Medium	Sand is fine grained. Very silty and non plastic. trace of mica throughout.	22.65	0-15S	30	10	14	16			
28				X	Silty Sand	Light Grey	Medium	Sand is fine grained. Very silty and non plastic. trace of mica throughout.	22.95								
29				X	Silty Sand	Light Grey	Medium	Sand is fine grained. Very silty and non plastic. trace of mica throughout.	24.15	0-16S	30	10	14	16			
30				X	Silty Sand	Light Grey	Medium	Sand is fine grained. Very silty and non plastic. trace of mica throughout.	24.45								
31				X	Silty Sand	Light Grey	Medium	Sand is fine grained. Very silty and non plastic. trace of mica throughout.	25.65	0-17S	32	12	15	17			
				X	Silty Sand	Light Grey	Medium	Sand is fine grained. Very silty and non plastic. trace of mica throughout.	25.95								
				X	Silty Sand	Light Grey	Medium	Sand is fine grained. Very silty and non plastic. trace of mica throughout.	27.15	0-18S	32	12	16	16			
				X	Silty Sand	Light Grey	Medium	Sand is fine grained. Very silty and non plastic. trace of mica throughout.	27.45								
				X	Silty Sand	Light Grey	Medium	Sand is fine grained. Very silty and non plastic. trace of mica throughout.	28.65	0-19S	44	15	20	24			
				X	Silty Sand	Light Grey	Medium	Sand is fine grained. Very silty and non plastic. trace of mica throughout.	28.95								
				X	Silty Sand	Light Grey	Dense	Sand is fine grained. Very silty and non plastic. trace of mica throughout.	30.15	0-20S	50	11	23	27	50 BLOWS/30cm		
				X	Silty Sand	Light Grey	Dense	Sand is fine grained. Very silty and non plastic. trace of mica throughout.	30.45								

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