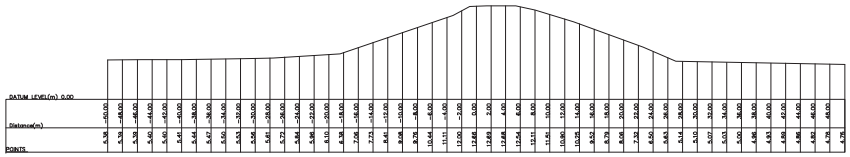
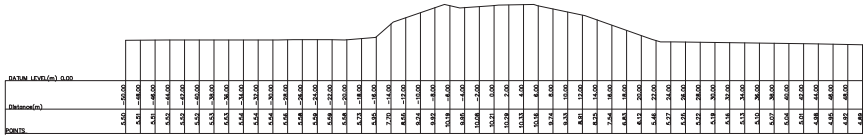
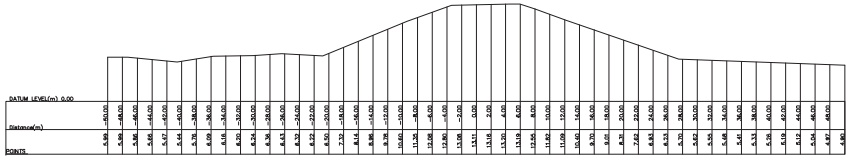


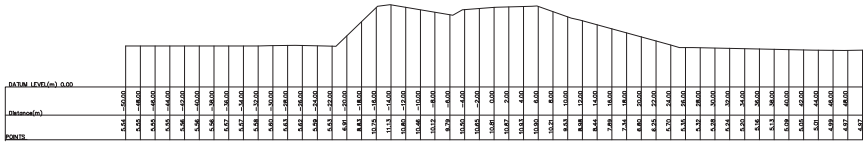
Chainage 60.000\MEG_lb



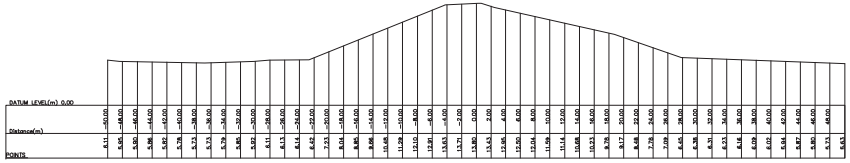
Chainage 140.000\MEG_lb



Chainage 40.000\MEG_lb



Chainage 120.000\MEG_lb



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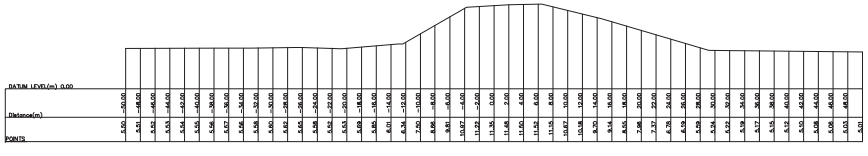

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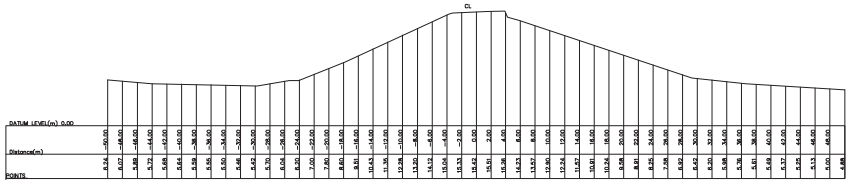
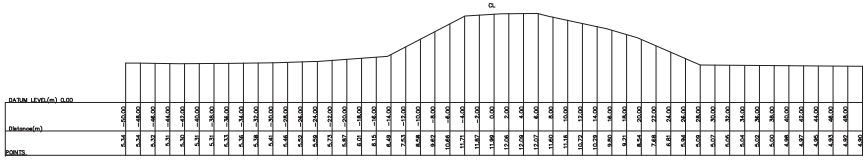


Chainage 0.000\MEG_lb



Chainage 80.000\MEG_lb

Client:
ROADS & HIGHWAY DEPARTMENT

Consultant:
ORIENTAL CONSULTANTS Co. Ltd

MEGHNA BRIDGE

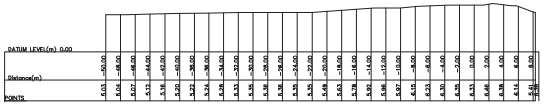
SECTIONS AT BRIDGE ALINGNMENT(LEFT BANK)

SURVEYOR	DRAWN	CHECKED	APPROVED	DATE
ROBI	ROBI	REZA	ARIF	08-02-2012

SURVEY 2000
Advance Engineering Survey & Technology Services
Road # 15, House # 54
Block # D, Banani, Dhaka
Phone : 8818386/8852497
Mobile : 01711 323266

SCALE : 1:1000	DRG. NO: MEGHNA_2012_03	SHEET NO: 1 of 2

Chainage 220.000\MEG_lb



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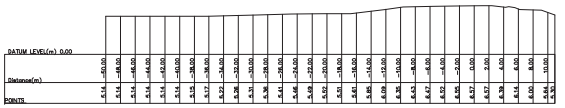
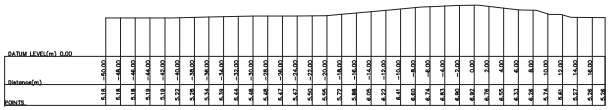
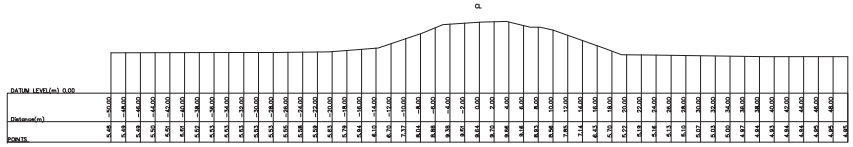


Chainage 280.000\MEG_lb

Chainage 180.000\MEG_lb



Chainage 260.000\MEG_lb



Chainage 160.000\MEG_lb

Chainage 240.000\MEG_lb

Client:
ROADS & HIGHWAY DEPARTMENT

Consultant:
ORIENTAL CONSULTANTS Co. Ltd

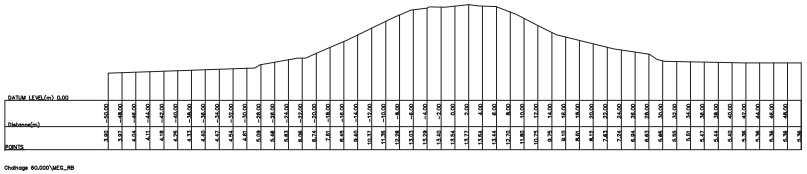
MEGHNA BRIDGE

SECTIONS AT BRIDGE ALINGNMENT(LEFT BANK)

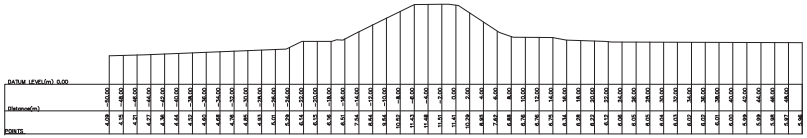
SURVEYOR	DRAWN	CHECKED	APPROVED	DATE
ROBI	ROBI	REZA	ARIF	08-02-2012

SURVEY 2000
Advance Engineering Survey & Technology Services
Road # 15, House # 54
Block # D, Banani, Dhaka
Phone : 8818386/8852497
Mobile : 01711 323266

SCALE : 1:1000	DRG. NO: MEGHNA_2012_03	SHEET NO: 2 of 2



Chainage 60.000\MEG_RB



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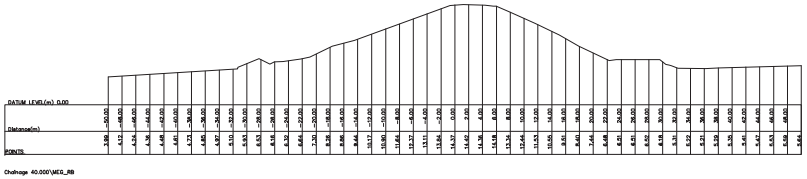
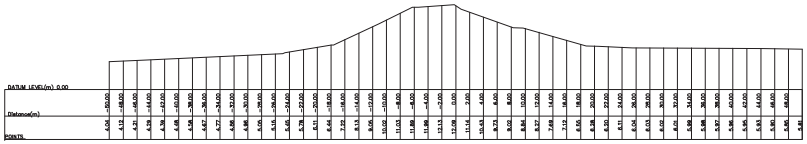


Chainage 40.000\MEG_RB



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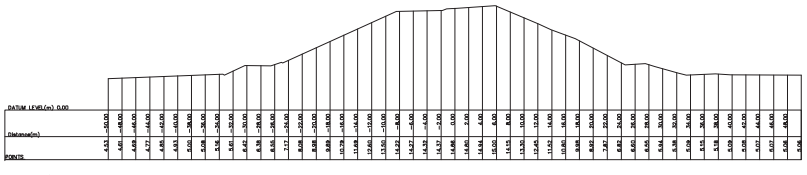

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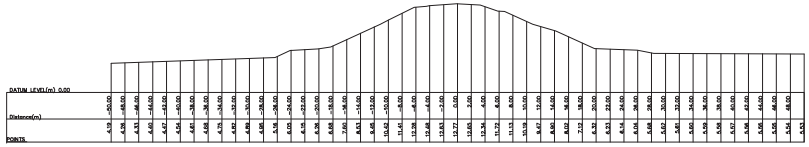

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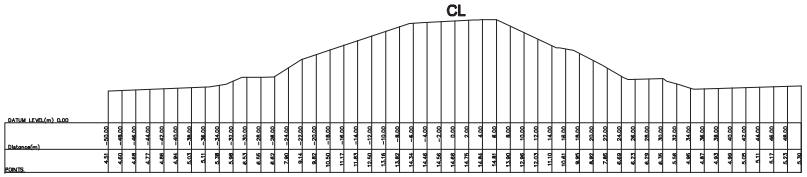


Chainage 0.000\MEG_RB

Chainage 80.000\MEG_RB

Client:
ROADS & HIGHWAY DEPARTMENT

Consultant:
ORIENTAL CONSULTANTS Co. Ltd

MEGHNA BRIDGE

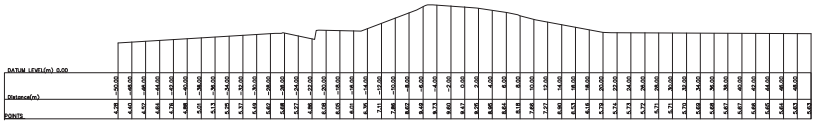
ROAD CROSS SECTION
EXISTING APPROCH ROAD(RIGHTBANK)

SURVEYOR	DRAWN	CHECKED	APPROVED	DATE
AZAD	AZAD	REZA	ARIF	**09-02-2012**

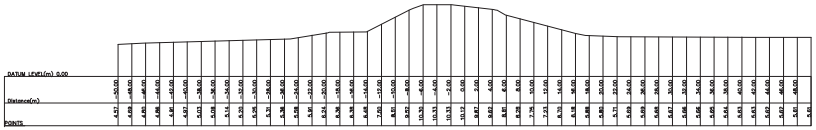
SURVEY 2000
Advance Engineering Survey & Technology Services
Road # 15, House # 54
Block # D, Banani, Dhaka
Phone : 8818386/8852497
Mobile : 01711 323266

SCALE : 1:1500	DRG. NO: MEGHNA_2012_04	SHEET NO: 1 of 2

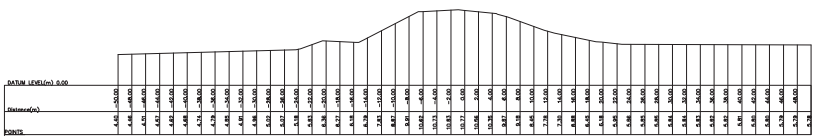
Chainage 220.000\MEG_RB



Chainage 200.000\MEG_RB



Chainage 180.000\MEG_RB



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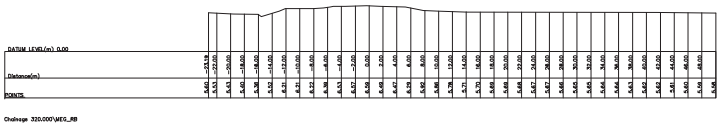

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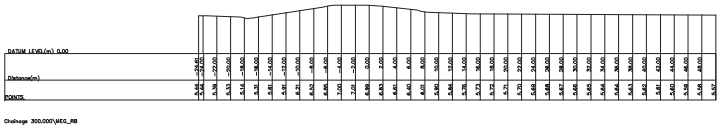

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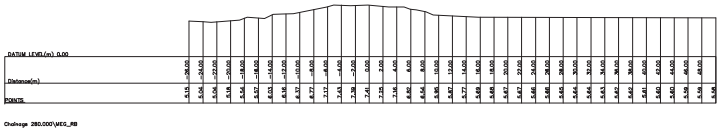

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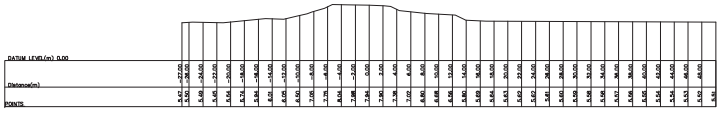

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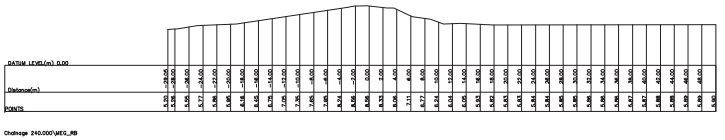


Chainage 240.000\MEG_RB

AP2-12

Client:
ROADS & HIGHWAY DEPARTMENT

Consultant:
ORIENTAL CONSULTANTS Co. Ltd

MEGHNA BRIDGE

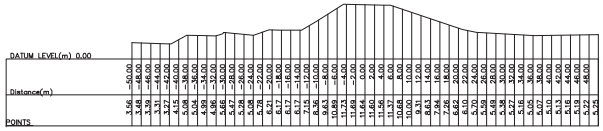
ROAD CROSS SECTION
EXISTING APPROCH ROAD(RIGHT BANK)

SURVEYOR	DRAWN	CHECKED	APPROVED	DATE
AZAD	AZAD	REZA	ARIF	09-02-2012

SURVEY 2000
Advance Engineering Survey & Technology Services
Road # 15, House # 54
Block # D, Banani, Dhaka
Phone : 8818386/8852497
Mobile : 01711 323266

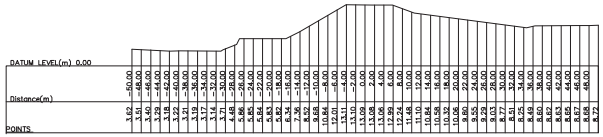
SCALE : 1:1500	DRG. NO: MEGHNA_2012_04	SHEET NO: 2 of 2

AP2-13



Chainage 60.000\MG_x_lb

Chainage 40.000\MG_x_lb



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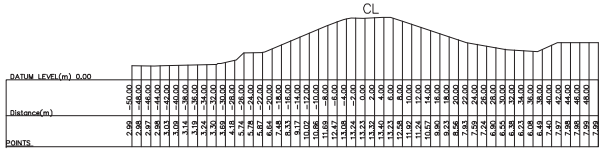

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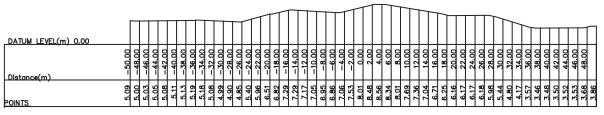
Chainage 160.000\MG_x_lb

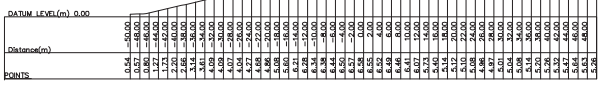


Chainage 140.000\MG_x_lb

Chainage 120.000\MG_x_lb

Chainage 100.000\MG_x_lb

Chainage 80.000\MG_x_lb



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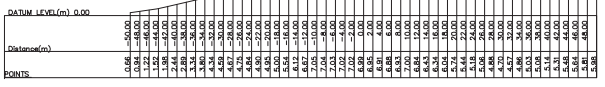
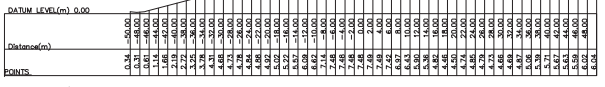
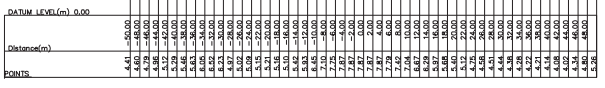


Chainage 240.000\MG_x_lb



Chainage 220.000\MG_x_lb



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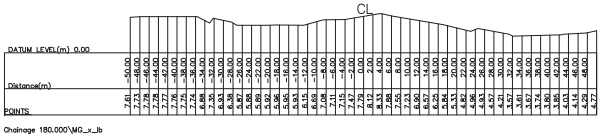


Chainage 180.000\MG_x_lb

Client:
ROADS & HIGHWAY DEPARTMENT

Consultant:
ORIENTAL CONSULTANTS Co. Ltd

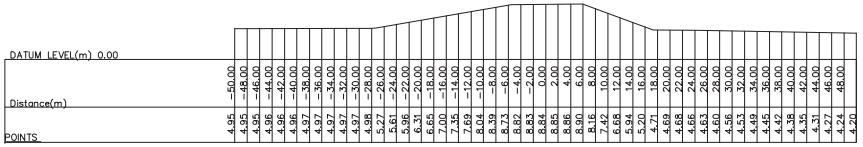
MEGHNA-GUMUTI BRIDGE

SECTIONS AT BRIDGE ALINGNMENT(LEFT BANK)

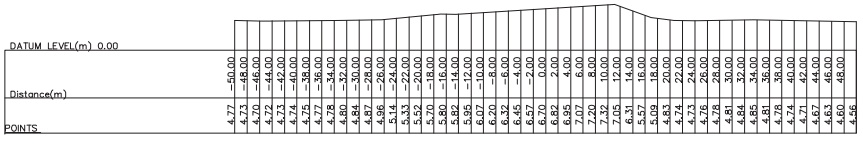
SURVEYOR	DRAWN	CHECKED	APPROVED	DATE
ROBI	ROBI	REZA	ARIF	08-02-2012

SURVEY 9000
Advance Engineering Survey & Technology Services
Road # 15, House # 54
Block # D, Banani, Dhaka
Phone : 8818386/8852497
Mobile : 01711 323266

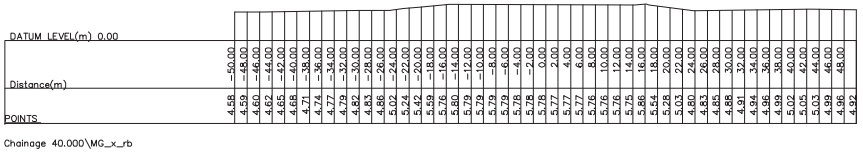
SCALE : 1:1000	DRG. NO:	SHEET NO: 1 of 1



Chainage 80.000\MG_x_rb



Chainage 60.000\MG_x_rb



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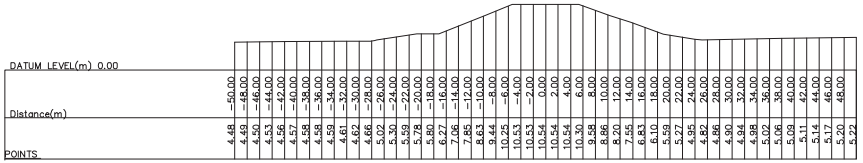

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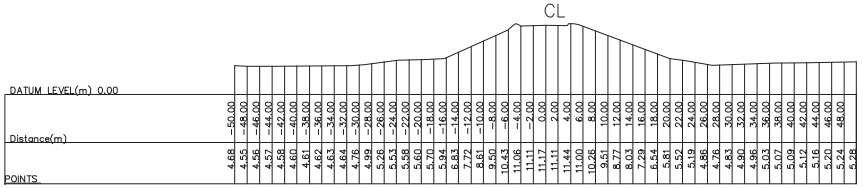
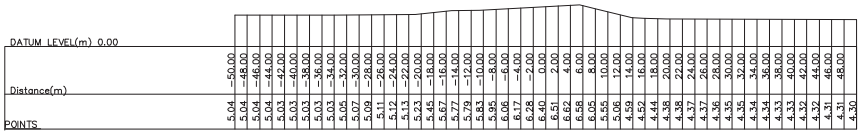


Chainage 0.000\MG_x_rb



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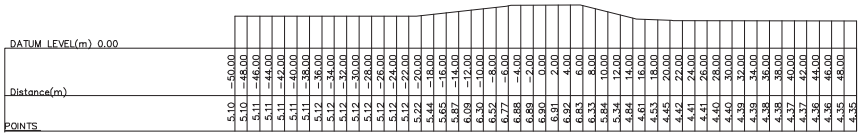

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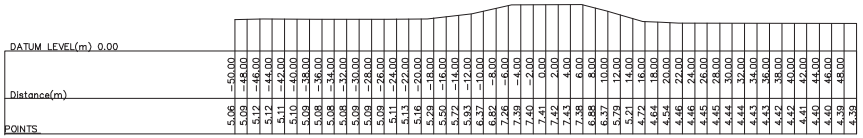

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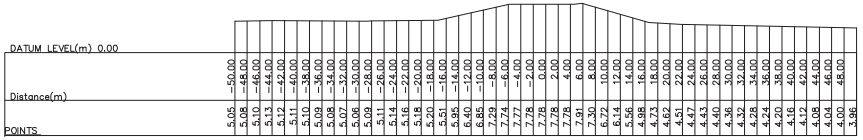

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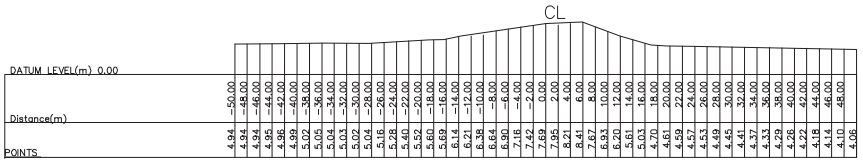


Chainage 100.000\MG_x_rb

Client:
ROADS & HIGHWAY DEPARTMENT

Consultant:
ORIENTAL CONSULTANTS Co. Ltd

MEGHNA-GUMUTI BRIDGE

SECTIONS AT BRIDGE ALINGNMENT(RIGHT BANK)

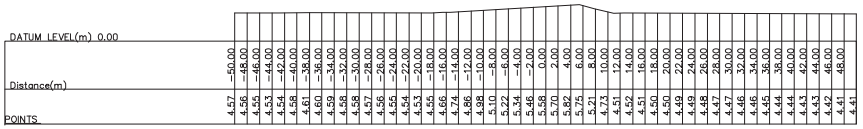
SURVEYOR	DRAWN	CHECKED	APPROVED	DATE
ROBI	ROBI	REZA	ARIF	08-02-2012

SURVEY 2000
Advance Engineering Survey & Technology Services
Road # 15, House # 54
Block # D, Banani, Dhaka
Phone : 8818366/8852497
Mobile : 01711 323266

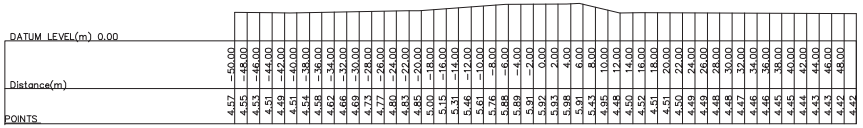
SCALE : 1:1000	DRG. NO:	SHEET NO: 1 of 2

AP2-14

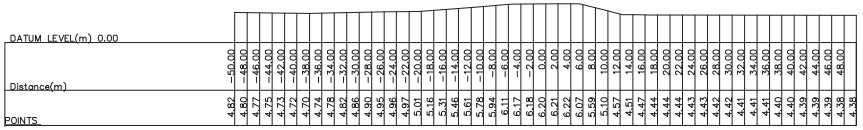
AP2-15



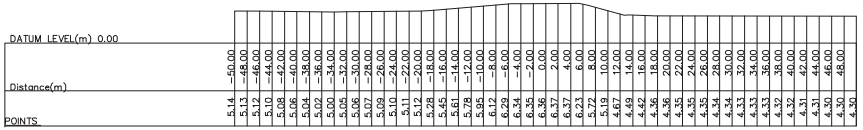
Chainage 280.000\MG_x_rb



Chainage 260.000\MG_x_rb



Chainage 240.000\MG_x_rb



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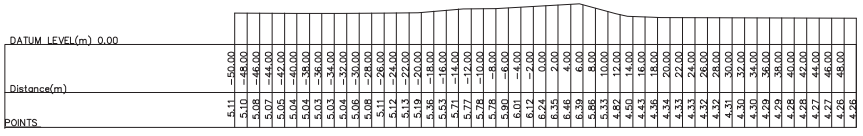

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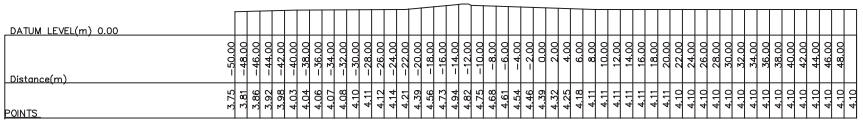

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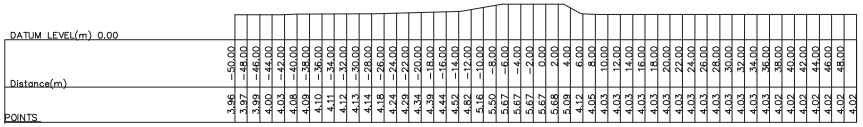

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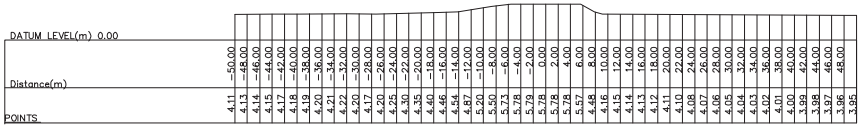

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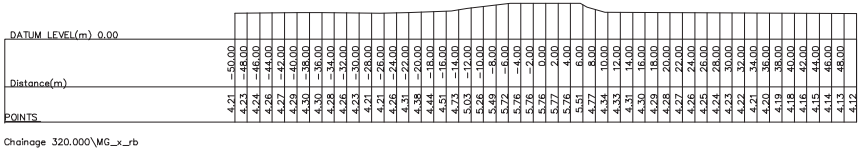

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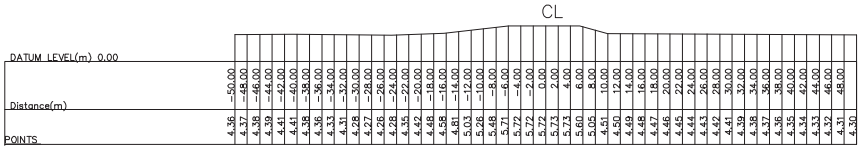


Chainage 300.000\MG_x_rb

Client:
ROADS & HIGHWAY DEPARTMENT

Consultant:
ORIENTAL CONSULTANTS Co. Ltd

MEGHNA-GUMUTI BRIDGE

SECTIONS AT BRIDGE ALINGNMENT(RIGHT BANK)

SURVEYOR	DRAWN	CHECKED	APPROVED	DATE
ROBI	ROBI	REZA	ARIF	08-02-2012

SURVEY 9000
Advance Engineering Survey & Technology Services
Road # 15, House # 54
Block # D, Banani, Dhaka
Phone : 8818386/8852497
Mobile : 01711 323266

SCALE : 1:1000	DRG. NO:	SHEET NO: 2 of 2

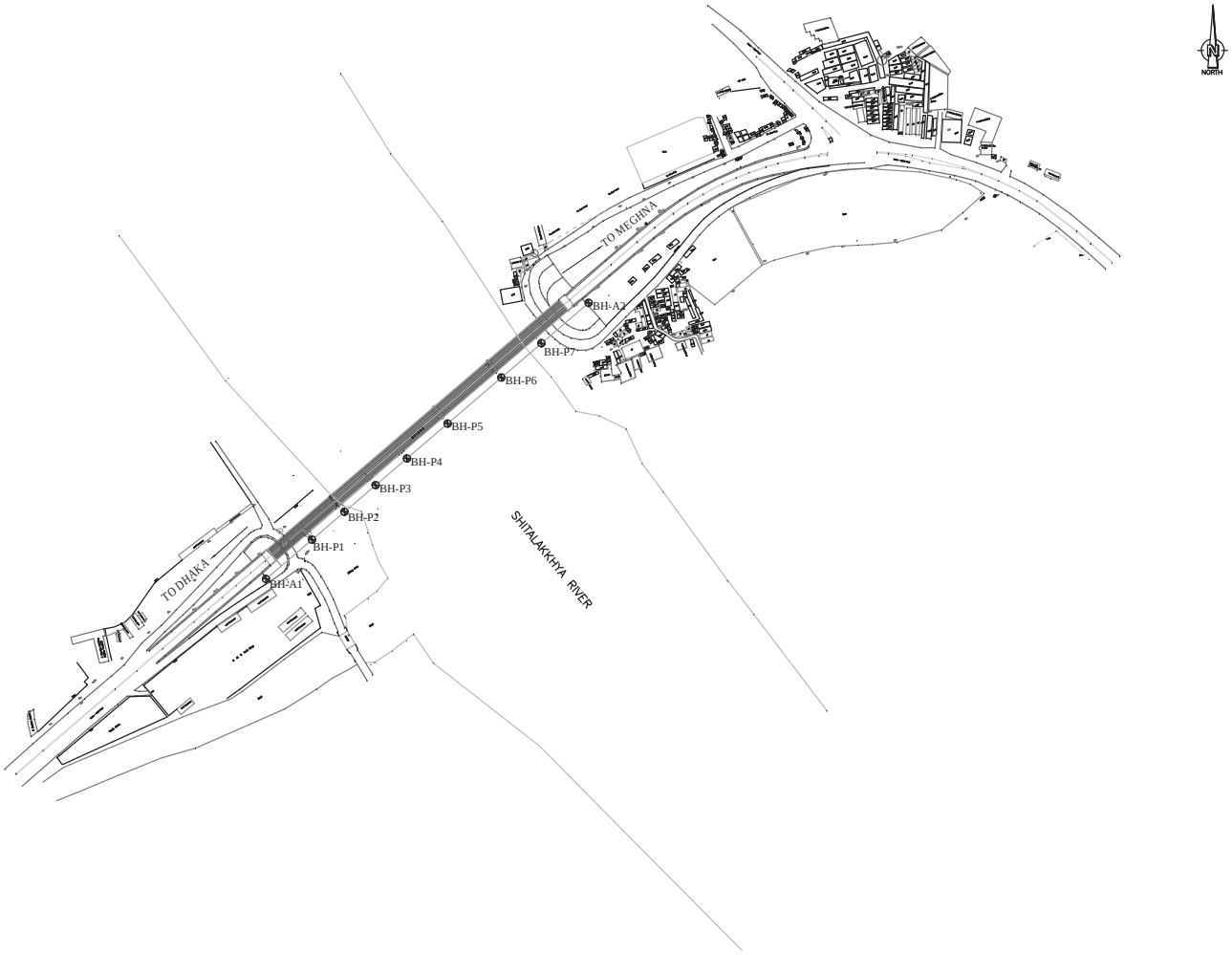
APPENDIX 3.

RECORDS OF GEOLOGICAL SURVEY

KANCHPUR BRIDGE

BORE HOLE LOCATION MAP

AP3-3



Client:
Oriental Consultants Co. Ltd.

TITLE :
BOREHOLE LAYOUT PLAN

SITE: **KANCHPUR BRIDGE**

SURVEYOR	DRAWN	CHECKED	APPROVED	SURVEY PERIOD
AZHAR	MAHABUB	REZA	ARIF	March 2012

SURVEYED BY:
SURVEY 2000
Road # 15, House # 54
Block # D, Banani, Dhaka
Phone : 8818386/8852497
Mobile : 01711 323266

PRINTING SCALE:	DRG. NO:	SHEET NO:
1: 4000	139	1

BORE LOGS

Project : Construction of Kanchpur Bridge	Client : Oriental Consultants Co. Ltd.
Bore Hole No. : A1 Method of Boring : Percussion Boring Dia. : 100mm Depth of Boring : 52.0m	Existing Ground Level : 10.0m Ground/ Water Level : -2.07m Date Started : 07-02-2012 Date Completed : 10-02-2012 Legend : SAND SILT CLAY Co-ordinates :

Location of Boring : Kanchpur

Depth below G.L (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	Blows on spoon: 15 cm penetration	15 cm penetration	15 cm penetration	N-Values
1.0		D1	7.0	Medium stiff to stiff Light brown medium plastic CLAY		1.0	2	3	3	6
2.0		D2				2.0	2	3	5	8
3.0		D3				3.0	2	3	6	9
4.0		D4				4.0	4	4	9	13
5.0		D5				5.0	4	4	7	11
6.0		D6				6.0	4	4	8	12
7.0		D7				7.0	4	4	6	10
8.0		D8	5.0	Medium stiff to Stiff Grey non plastic SILT with trace of mica		8.0	3	3	4	7
9.0		D9				9.0	2	3	1	4
10.0		D10				10.0	3	3	3	6
11.0		D11				11.0	2	2	3	5
12.0		D12				12.0	2	3	5	8
13.0		D13	9.0	Medium dense to dense Grey fine SAND with trace of mica		13.0	5	11	12	23
14.0		D14				14.0	9	7	18	25
15.0		D15				15.0	7	13	14	27
16.0		D16				16.0	6	5	12	17
17.0		D17				17.0	8	9	12	21
18.0		D18				18.0	10	13	15	28
19		D19				19.0	11	15	19	34
20.0		D20				20.0	8	9	13	22

Graphical Representation: 10 20 30 40 50 60

Note : Boring Terminated at 52.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....

Logged by : Azhar
Check by : Mahabub

Project : Construction of Kanchpur Bridge	Client : Oriental Consultants Co. Ltd.
Bore Hole No. : A1 Method of Boring : Percussion Boring Dia. : 100mm Depth of Boring : 52.0m	Existing Ground Level : 10.0m Ground/ Water Level : -2.07m Date Started : 07-02-2012 Date Completed : 10-02-2012 Legend : SAND SILT CLAY Co-ordinates :

Location of Boring : Kanchpur

Depth below G.L (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	Blows on spoon: 15 cm penetration	15 cm penetration	15 cm penetration	N-Values	Graphical Representation (10 20 30 40 50 60)
21.0		D21				21.0	5	10	14	24	
22.0		D22	5.0	Very stiff Yellowish brown medium plastic CLAY		22.0	6	7	9	16	
23.0		D23				23.0	9	12	14	26	
24.0		D24				24.0	7	10	13	23	
25.0		D25				25.0	7	10	13	23	
26.0		D26				26.0	8	10	14	24	
27.0		D27	12.0	Very stiff to hard Light grey to grey medium plastic CLAY		27.0	6	8	12	20	
28.0		D28				28.0	6	8	14	22	
29.0		D29				29.0	6	9	16	25	
30.0		D30				30.0	6	12	19	31	
31.0		D31				31.0	8	11	14	25	
32.0		D32				32.0	8	11	12	23	
33.0		D33				33.0	8	12	15	27	
34.0		D34				34.0	9	13	16	29	
35.0		D35				35.0	8	13	18	31	
36.0		D36				36.0	7	13	21	34	
37.0		D37				37.0	8	11	17	28	
38.0		D38				38.0	8	10	27	37	
39.0		D39	2.0	Very dense Grey silty fine SAND with trace of mica		39.0	15	50	-	50	for 150mm penetration
40.0		D40				40.0	20	50	-	50	for 200mm penetration

Note : Boring Terminated at 52.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....

Logged by : Azhar
Check by : Mahabub

Project : Construction of Kanchpur Bridge	Client : Oriental Consultants Co. Ltd.
Bore Hole No. : A1 Method of Boring : Percussion Boring Dia. : 100mm Depth of Boring : 52.0m	Existing Ground Level : 10.0m Ground/ Water Level : -2.07m Date Started : 07-02-2012 Date Completed : 10-02-2012 Legend : SAND SILT CLAY Co-ordinates :

Location of Boring : Kanchpur

Depth below G.L (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	Blows on spoon: 15 cm penetration	15 cm penetration	15 cm penetration	N-Values	Graphical Representation (10 20 30 40 50 60)
41.0		D41	4.0	Hard Grey medium plastic CLAY		41.0	21	50	-	50	for 125mm penetration
42.0		D42				42.0	20	50	-	50	for 125mm penetration
43.0		D43				43.0	10	16	18	34	
44.0		D44				44.0	10	16	20	36	
45.0		D45	3.0	Very stiff to hard Reddish brown medium plastic CLAY		45.0	8	14	15	29	
46.0		D46				46.0	7	13	13	26	
47.0		D47				47.0	8	15	18	33	
48.0		D48	5.0	Dense to very dense Grey to light grey fine SAND with trace of mica		48.0	12	18	22	40	
49.0		D49				49.0	18	50	-	50	for 125mm penetration
50.0		D50				50.0	22	50	-	50	for 125mm penetration
51.0		D51				51.0	25	50	-	50	for 100mm penetration
52.0		D52				52.0	30	50	-	50	for 50mm penetration
53.0		D53		End of Boring							
54.0		D54									
55.0		D55									
56.0		D56									
57.0		D57									
58.0		D58									
59.0		D59									
60.0		D60									

Note : Boring Terminated at 52.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Logged by : Azhar
Check by : Mahabub

Project : Construction of Kanchpur Bridge	Client : Oriental Consultants Co. Ltd.
Bore Hole No. : P1 Method of Boring : Percussion Boring Dia. : 100mm Depth of Boring : 45.0m	Existing Ground Level : 5.73m Ground/ Water Level : - 0.97m Date Started : 31-01-2012 Date Completed : 03-02-2012 Legend : SAND SILT CLAY Co-ordinates :

Location of Boring : Kanchpur

Depth below G.L (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	Blows on spoon: 15 cm penetration	15 cm penetration	15 cm penetration	N-Values	Graphical Representation (10 20 30 40 50 60)
1.0		D1	5.0	Stiff to very stiff Grey medium plastic CLAY		1.0	0	0	0	00	
2.0		D2				2.0	0	0	0	00	
3.0		D3				3.0	5	6	11	17	
4.0		D4				4.0	7	10	12	22	
5.0		D5				5.0	3	4	7	11	
6.0		D6	2.0	Loose Grey silty fine SAND		6.0	2	4	5	9	
7.0		D7				7.0	2	3	4	7	
8.0		D8	4.0	Medium stiff to stiff Grey non plastic SILT		8.0	2	3	5	8	
9.0		D9				9.0	2	3	3	6	
10.0		D10				10.0	2	3	4	7	
11.0		D11				11.0	2	4	5	9	
12.0		D12	10.0	Medium dense Grey silty fine SAND with trace of mica		12.0	3	6	7	13	
13.0		D13				13.0	3	5	7	12	
14.0		D14				14.0	4	6	7	13	
15.0		D15				15.0	6	6	7	13	
16.0		D16				16.0	5	6	7	13	
17.0		D17				17.0	6	6	7	13	
18.0		D18				18.0	6	7	13	20	
19		D19				19.0	4	8	9	17	
20.0		D20				20.0	6	10	9	19	

Note : Boring Terminated at 45.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....

Logged by : Azhar
Check by : Mahabub

Project : Construction of Kanchpur Bridge	Client : Oriental Consultants Co. Ltd.
Bore Hole No. : P1 Method of Boring : Percussion Boring Dia. : 100mm Depth of Boring : 45.0m	Existing Ground Level : 5.73m Ground/ Water Level : - 0.97m Date Started : 31-01-2012 Date Completed : 03-02-2012 Legend : SAND SILT CLAY Co-ordinates :

Location of Boring : Kanchpur

Depth below G.L (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	Blows on spoon: 15 cm penetration	15 cm penetration	15 cm penetration	N-Values	Graphical Representation (10 20 30 40 50 60)
21.0		D21				21.0	8	12	12	24	
22.0		D22	10.0	Stiff to very stiff Grey to light grey medium plastic CLAY		22.0	4	8	8	16	
23.0		D23				23.0	6	9	15	24	
24.0		D24				24.0	7	10	14	24	
25.0		D25				25.0	5	7	10	17	
26.0		D26				26.0	5	6	12	18	
27.0		D27				27.0	6	7	10	17	
28.0		D28				28.0	4	5	7	12	
29.0		D29				29.0	5	6	8	14	
30.0		D30				30.0	9	13	14	27	
31.0		D31				31.0	5	8	11	19	
32.0		D32	2.0	Very stiff Light grey non plastic SILT, few sand		32.0	5	7	12	19	
33.0		D33				33.0	5	7	13	20	
34.0		D34	1.0	Very dense Light grey silty very fine SAND		34.0	16	50	-	50	for 150mm penetration
35.0		D35	2.0	Hard Light grey non plastic SILT few sand		35.0	13	40	10	50	for 175mm penetration
36.0		D36				36.0	14	42	8	50	for 175mm penetration
37.0		D37	9.0	Very dense Grey to light grey silty fine SAND with trace of mica		37.0	26	50	-	50	for 125mm penetration
38.0		D38				38.0	42	50	-	50	for 50mm penetration
39.0		D39				39.0	80	-	-	80	for 150mm penetration
40.0		D40				40.0	77	-	-	77	for 150mm penetration

Note : Boring Terminated at 45.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....

Logged by : Azhar
Check by : Mahabub

Project : Construction of Kanchpur Bridge	Client : Oriental Consultants Co. Ltd.
Bore Hole No. : P1 Method of Boring : Percussion Boring Dia. : 100mm Depth of Boring : 45.0m	Existing Ground Level : 5.73m Ground/ Water Level : - 0.97m Date Started : 31-01-2012 Date Completed : 03-02-2012 Legend : SAND SILT CLAY Co-ordinates :

Location of Boring : Kanchpur

Depth below G.L (m)	Type of Sample	Sample No.		Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	Blows on spoon: 15 cm penetration	15 cm penetration	15 cm penetration	N-Values	Graphical Representation (10 20 30 40 50 60)
41.0		D41		9.0	Very dense Grey to light grey silty fine SAND with trace of mica		41.0	80	-	-	80	for 150mm penetration
42.0		D42					42.0	79	-	-	79	for 150mm penetration
43.0		D43					43.0	80	-	-	80	for 150mm penetration
44.0		D44					44.0	76	-	-	76	for 150mm penetration
45.0		D45					45.0	85	-	-	85	for 150mm penetration
					End of Boring							
46.0		D46										
47.0		D47										
48.0		D48										
49.0		D49										
50.0		D50										
51.0		D51										
52.0		D52										
53.0		D53										
54.0		D54										
55.0		D55										
56.0		D56										
57.0		D57										
58.0		D58										
59.0		D59										
60.0		D60										

Note : Boring Terminated at 45.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Logged by : Azhar
Check by : Mahabub

Project : Construction of Kanchpur Bridge	Client : Oriental Consultants Co. Ltd.
Bore Hole No. : P2 Method of Boring : Percussion Boring Dia. : 100mm Depth of Boring : 42.0m	Existing Ground Level : 3.76m Ground/ Water Level : +0.56m Date Started : 11-02-2012 Date Completed : 14-02-2012 Legend : SAND SILT CLAY Co-ordinates :

Location of Boring : Kanchpur

Depth below G.L (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	Blows on spoon: 15 cm penetration	15 cm penetration	15 cm penetration	N-Values
1.0		D1	2.0	Dense Grey coarse SAND with stonechips		1.0	7	22	22	44
2.0		D2				2.0	10	16	24	40
3.0		D3		Soft to very stiff Grey to dark grey non plastic SILT		3.0	2	2	2	4
4.0		D4				4.0	2	4	4	8
5.0		D5				5.0	1	2	2	4
6.0		D6	8.0			6.0	1	2	2	4
7.0		D7				7.0	1	2	2	4
8.0		D8				8.0	6	9	8	17
9.0		D9				9.0	2	3	4	7
10.0		D10				10.0	5	6	7	13
11.0		D11		Medium dense Grey to brown fine SAND with trace of mica		11.0	5	6	8	14
12.0		D12	7.0			12.0	6	9	8	17
13.0		D13				13.0	6	7	9	16
14.0		D14				14.0	6	8	10	18
15.0		D15				15.0	6	7	8	15
16.0		D16				16.0	6	8	9	17
17.0		D17				17.0	6	6	11	17
18.0		D18		Stiff to very stiff Grey to light brown medium plastic CLAY		18.0	5	7	10	17
19		D19	13.0			19.0	6	11	13	24
20.0		D20				20.0	4	5	7	12

Graphical Representation: 10 20 30 40 50 60

Note : Boring Terminated at 42.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....

Logged by : Azhar
Check by : Mahabub

Project : Construction of Kanchpur Bridge	Client : Oriental Consultants Co. Ltd.
Bore Hole No. : P2 Method of Boring : Percussion Boring Dia. : 100mm Depth of Boring : 42.0m	Existing Ground Level : 3.76m Ground/ Water Level : +0.56m Date Started : 11-02-2012 Date Completed : 14-02-2012 Legend : SAND SILT CLAY Co-ordinates :

Location of Boring : Kanchpur

Depth below G.L (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	Blows on spoon: 15 cm penetration	15 cm penetration	15 cm penetration	N-Values	Graphical Representation (10 20 30 40 50 60)
21.0		D21		Stiff to very stiff Grey to light brown medium plastic CLAY		21.0	5	7	7	14	
22.0		D22				22.0	5	7	10	17	
23.0		D23				23.0	7	7	11	18	
24.0		D24				24.0	5	8	9	17	
25.0		D25				25.0	6	10	12	22	
26.0		D26				26.0	7	9	13	22	
27.0		D27				27.0	6	14	24	38	
28.0		D28				28.0	4	8	12	20	
29.0		D29				29.0	5	6	9	15	
30.0		D30				30.0	7	9	12	21	
31.0		D31		Very stiff to hard Grey medium plastic CLAY		31.0	10	13	18	31	
32.0		D32	5.0			32.0	11	13	14	27	
33.0		D33				33.0	12	13	15	28	
34.0		D34				34.0	12	16	21	37	
35.0		D35				35.0	12	22	28	50	for 250mm penetration
36.0		D36		Hard Light grey to grey non plastic SILT with trace of mica		36.0	30	38	12	50	for 250mm penetration
37.0		D37	7.0			37.0	30	40	10	50	for 150mm penetration
38.0		D38				38.0	30	45	5	50	for 100mm penetration
39.0		D39				39.0	30	50	-	50	for 75mm penetration
40.0		D40				40.0	40	50	-	50	for 50mm penetration

Note : Boring Terminated at 42.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....

Logged by : Azhar
Check by : Mahabub

Project : Construction of Kanchpur Bridge	Client : Oriental Consultants Co. Ltd.
Bore Hole No. : P2 Method of Boring : Percussion Boring Dia. : 100mm Depth of Boring : 42.0m	Existing Ground Level : 3.76m Ground/ Water Level : +0.56m Date Started : 11-02-2012 Date Completed : 14-02-2012 Legend : SAND SILT CLAY Co-ordinates :

Location of Boring : Kanchpur

Depth below G.L (m)	Type of Sample	Sample No.		Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	Blows on spoon: 15 cm penetration	15 cm penetration	15 cm penetration	N-Values	Graphical Representation (10 20 30 40 50 60)
41.0		D41					41.0	50	-	-	50	for 150mm penetration
42.0		D42					42.0	60	-	-	60	for 150mm penetration
					End of Boring							
43.0		D43										
44.0		D44										
45.0		D45										
46.0		D46										
47.0		D47										
48.0		D48										
49.0		D49										
50.0		D50										
51.0		D51										
52.0		D52										
53.0		D53										
54.0		D54										
55.0		D55										
56.0		D56										
57.0		D57										
58.0		D58										
59.0		D59										
60.0		D60										

Note : Boring Terminated at 42.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

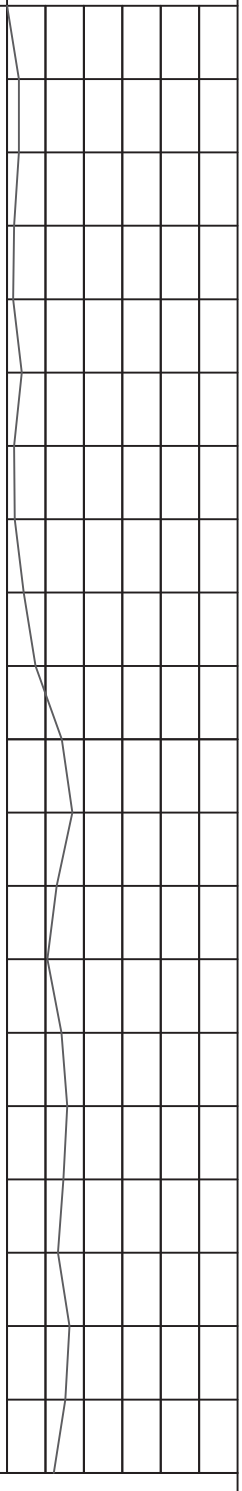
Logged by : Azhar
Check by : Mahabub

Project : Construction of Kanchpur Bridge	Client : Oriental Consultants Co. Ltd.
Bore Hole No. : P3 Method of Boring : Percussion Boring Dia. : 100mm Depth of Boring : 45.0m	Existing Ground Level : 1.47m Ground/ Water Level : -2.79m Date Started : 04-02-2012 Date Completed : 07-02-2012 Legend : SAND SILT CLAY Co-ordinates :

Location of Boring : Kanchpur

Depth below G.L (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	Blows on spoon: 15 cm penetration	15 cm penetration	15 cm penetration	N-Values
1.0		D1	8.0	Soft Grey to light grey non plastic SILT with trace of mica		1.0	1	1	2	3
2.0		D2				2.0	1	1	2	3
3.0		D3				3.0	1	1	1	2
4.0		D4				4.0	1	1	1	2
5.0		D5				5.0	1	2	2	4
6.0		D6				6.0	1	1	1	2
7.0		D7				7.0	1	1	1	2
8.0		D8				8.0	1	2	2	4
9.0		D9	12.0	Loose to medium dense Grey to light grey fine SAND with trace of mica		9.0	2	3	4	7
10.0		D10				10.0	4	6	8	14
11.0		D11				11.0	5	7	10	17
12.0		D12				12.0	5	7	7	14
13.0		D13				13.0	4	5	6	11
14.0		D14				14.0	4	6	7	13
15.0		D15				15.0	5	7	9	16
16.0		D16				16.0	5	6	8	14
17.0		D17				17.0	5	6	7	13
18.0		D18				18.0	5	8	8	16
19		D19				19.0	5	7	8	15
20.0		D20				20.0	5	6	7	13

Graphical Representation: 10 20 30 40 50 60



Note : Boring Terminated at 45.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....

Logged by : Azhar
Check by : Mahabub

Project : Construction of Kanchpur Bridge	Client : Oriental Consultants Co. Ltd.
Bore Hole No. : P3 Method of Boring : Percussion Boring Dia. : 100mm Depth of Boring : 45.0m	Existing Ground Level : 1.47m Ground/ Water Level : -2.79m Date Started : 04-02-2012 Date Completed : 07-02-2012 Legend : SAND SILT CLAY Co-ordinates :

Location of Boring : Kanchpur

Depth below G.L (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	Blows on spoon: 15 cm penetration	15 cm penetration	15 cm penetration	N-Values	Graphical Representation (10 20 30 40 50 60)
21.0		D21	5.0	Very stiff Grey mixed brown medium to high plastic CLAY		21.0	5	8	9	17	
22.0		D22				22.0	5	8	10	18	
23.0		D23				23.0	5	8	12	20	
24.0		D24				24.0	5	6	9	15	
25.0		D25				25.0	6	8	9	17	
26.0		D26	1.0	Very stiff Light grey non plastic SILT with few sand		26.0	7	9	12	21	
27.0		D27	1.0	Dense Grey silty fine SAND with trace of mica		27.0	12	20	26	46	
28.0		D28	7.0	Very stiff to hard Grey to light grey medium to high plastic CLAY		28.0	6	8	9	17	
29.0		D29				29.0	6	8	8	16	
30.0		D30				30.0	6	7	8	15	
31.0		D31				31.0	7	12	15	27	
32.0		D32				32.0	8	20	30	50	
33.0		D33				33.0	12	19	21	40	
34.0		D34				34.0	15	22	28	50	for 200mm penetration
35.0		D35	11.0	Hard Grey non plastic SILT, few sand, trace of mica		35.0	15	23	28	51	for 200mm penetration
36.0		D36				36.0	13	23	27	50	for 225mm penetration
37.0		D37				37.0	12	18	25	43	
38.0		D38				38.0	10	15	31	46	
39.0		D39				39.0	11	23	27	50	for 225mm penetration
40.0		D40				40.0	11	24	26	50	for 225mm penetration

Note : Boring Terminated at 45.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....

Logged by : Azhar
Check by : Mahabub

Project : Construction of Kanchpur Bridge	Client : Oriental Consultants Co. Ltd.
Bore Hole No. : P3 Method of Boring : Percussion Boring Dia. : 100mm Depth of Boring : 45.0m	Existing Ground Level : 1.47m Ground/ Water Level : -2.79m Date Started : 04-02-2012 Date Completed : 07-02-2012 Legend : SAND SILT CLAY Co-ordinates :

Location of Boring : Kanchpur

Depth below G.L (m)	Type of Sample	Sample No.		Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	Blows on spoon: 15 cm penetration	15 cm penetration	15 cm penetration	N-Values	Graphical Representation (10 20 30 40 50 60)
41.0		D41			Hard Grey non plastic SILT, few sand, trace of mica		41.0	50	-	-	50	for 150mm penetration
42.0		D42					42.0	20	50	-	50	for 100mm penetration
43.0		D43					43.0	30	50	-	50	for 100mm penetration
44.0		D44					44.0	50	-	-	50	for 150mm penetration
45.0		D45					45.0	55	-	-	55	for 150mm penetration
					End of Boring							
46.0		D46										
47.0		D47										
48.0		D48										
49.0		D49										
50.0		D50										
51.0		D51										
52.0		D52										
53.0		D53										
54.0		D54										
55.0		D55										
56.0		D56										
57.0		D57										
58.0		D58										
59.0		D59										
60.0		D60										

Note : Boring Terminated at 45.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

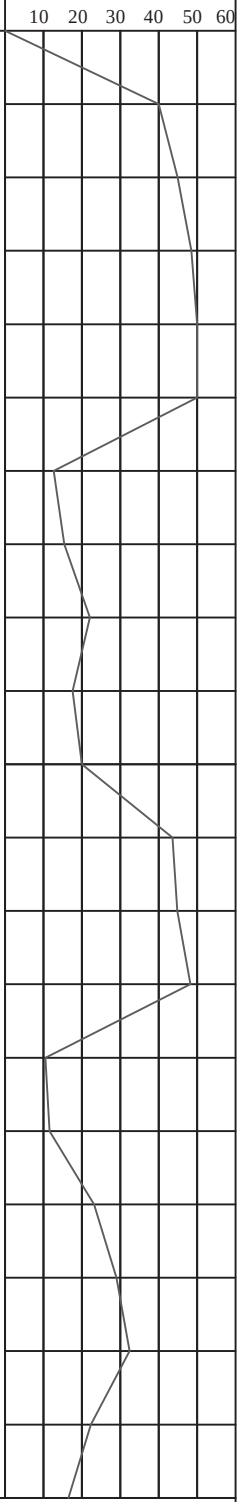
Logged by : Azhar
Check by : Mahabub

Project : Construction of Kanchpur Bridge	Client : Oriental Consultants Co. Ltd.
Bore Hole No. : P4 Method of Boring : Percussion Boring Dia. : 100mm Depth of Boring : 36.0m	Existing Ground Level : -8.0m Ground/ Water Level : +1.14m Date Started : 24-02-2012 Date Completed : 26-02-2012 Legend : SAND SILT CLAY Co-ordinates :

Location of Boring : Kanchpur

Depth below G.L (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	Blows on spoon: 15 cm penetration	15 cm penetration	15 cm penetration	N-Values
1.0		D1	9.0	Medium dense to dense Light grey to grey fine SAND with trace of mica		1.0	14	18	22	40
2.0		D2				2.0	15	20	24	44
3.0		D3				3.0	17	22	26	48
4.0		D4				4.0	17	23	27	50
5.0		D5				5.0	16	22	28	50
6.0		D6				6.0	4	5	8	13
7.0		D7				7.0	5	7	9	16
8.0		D8				8.0	8	10	12	22
9.0		D9				9.0	6	8	10	18
10.0		D10	4.0	Very stiff to hard Light grey mixed brown medium plastic CLAY		10.0	6	8	12	20
11.0		D11				11.0	9	20	13	43
12.0		D12				12.0	9	20	24	44
13.0		D13				13.0	10	22	26	48
14.0		D14				14.0	3	4	7	11
15.0		D15	8.0	Stiff to hard Grey medium plastic CLAY		15.0	3	4	8	12
16.0		D16				16.0	7	10	13	23
17.0		D17				17.0	9	13	16	29
18.0		D18				18.0	8	14	18	32
19		D19				19.0	7	10	12	22
20.0		D20				20.0	5	7	10	17

Graphical Representation



Note : Boring Terminated at 36.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....

Logged by : Azhar
Check by : Mahabub

Project : Construction of Kanchpur Bridge	Client : Oriental Consultants Co. Ltd.
Bore Hole No. : P4 Method of Boring : Percussion Boring Dia. : 100mm Depth of Boring : 36.0m	Existing Ground Level : -8.0m Ground/ Water Level : +1.14m Date Started : 24-02-2012 Date Completed : 26-02-2012 Legend : SAND SILT CLAY Co-ordinates :

Location of Boring : Kanchpur

Depth below G.L (m)	Type of Sample	Sample No.		Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	Blows on spoon: 15 cm penetration	15 cm penetration	15 cm penetration	N-Values	Graphical Representation (10 20 30 40 50 60)
21.0		D21					21.0	6	8	19	27	
22.0		D22					22.0	14	21	29	50	for 275mm penetration
23.0		D23					23.0	12	24	26	50	for 250mm penetration
24.0		D24		15.0	Very dense Light grey to grey silty very fine SAND with trace of mica		24.0	14	27	23	50	for 200mm penetration
25.0		D25					25.0	30	50	-	50	for 150mm penetration
26.0		D26					26.0	30	50	-	50	for 100mm penetration
27.0		D27					27.0	33	50	-	50	for 150mm penetration
28.0		D28					28.0	12	32	18	50	for 150mm penetration
29.0		D29					29.0	10	35	15	50	for 150mm penetration
30.0		D30					30.0	12	32	18	50	for 150mm penetration
31.0		D31					31.0	14	30	20	50	for 150mm penetration
32.0		D32					32.0	29	50	-	50	for 150mm penetration
33.0		D33					33.0	32	50	-	50	for 125mm penetration
34.0		D34					34.0	34	50	-	50	for 75mm penetration
35.0		D35					35.0	38	50	-	50	for 50mm penetration
36.0		D36					36.0	40	50	-	50	for 50mm penetration
37.0		D37			End of Boring							
38.0		D38										
39.0		D39										
40.0		D40										

Note : Boring Terminated at 36.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Logged by : Azhar
Check by : Mahabub

Project : Construction of Kanchpur Bridge	Client : Oriental Consultants Co. Ltd.
Bore Hole No. : P5 Method of Boring : Percussion Boring Dia. : 100mm Depth of Boring : 39.0m	Existing Ground Level : -10.0m Ground/ Water Level : +1.58m Date Started : 20-02-2012 Date Completed : 24-02-2012 Legend : SAND SILT CLAY Co-ordinates :

Location of Boring : Kanchpur

Depth below G.L (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	Blows on spoon: 15 cm penetration	15 cm penetration	15 cm penetration	N-Values	Graphical Representation (10 20 30 40 50 60)
1.0		D1	6.0	Medium dense Grey fine SAND with trace of mica		1.0	5	6	8	14	
2.0		D2				2.0	7	9	11	20	
3.0		D3				3.0	9	12	15	27	
4.0		D4				4.0	4	6	9	15	
5.0		D5				5.0	6	7	10	17	
6.0		D6				6.0	7	9	12	21	
7.0		D7	7.0	Stiff to very stiff Light brown medium plastic CLAY		7.0	7	11	14	25	
8.0		D8				8.0	8	12	15	27	
9.0		D9				9.0	6	7	12	19	
10.0		D10				10.0	6	9	14	23	
11.0		D11				11.0	7	11	15	26	
12.0		D12				12.0	7	10	14	24	
13.0		D13				13.0	6	5	5	10	
14.0		D14	8.0	Stiff to very stiff Grey medium plastic CLAY		14.0	6	5	6	11	
15.0		D15				15.0	5	5	6	11	
16.0		D16				16.0	5	5	5	10	
17.0		D17				17.0	7	13	15	28	
18.0		D18				18.0	6	12	15	27	
19		D19				19.0	5	10	11	21	
20.0		D20				20.0	8	13	17	30	

Note : Boring Terminated at 39.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....

Logged by : Azhar
Check by : Mahabub

Project : Construction of Kanchpur Bridge	Client : Oriental Consultants Co. Ltd.
Bore Hole No. : P5 Method of Boring : Percussion Boring Dia. : 100mm Depth of Boring : 39.0m	Existing Ground Level : -10.0m Ground/ Water Level : +1.58m Date Started : 20-02-2012 Date Completed : 24-02-2012 Legend : SAND SILT CLAY Co-ordinates :

Location of Boring : Kanchpur

Depth below G.L (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	Blows on spoon: 15 cm penetration	15 cm penetration	15 cm penetration	N-Values	Graphical Representation (10 20 30 40 50 60)
21.0		D21				21.0	10	24	26	50	for 300mm penetration
22.0		D22				22.0	16	37	13	50	for 200mm penetration
23.0		D23	8.0	Hard Grey to light Grey non plastic SILT with trace of mica		23.0	17	38	12	50	for 150mm penetration
24.0		D24				24.0	30	50	-	50	for 125mm penetration
25.0		D25				25.0	20	24	26	50	for 200mm penetration
26.0		D26				26.0	10	23	27	50	for 175mm penetration
27.0		D27				27.0	13	36	14	50	for 175mm penetration
28.0		D28				28.0	13	37	13	50	for 150mm penetration
29.0		D29				29.0	12	36	14	50	for 200mm penetration
30.0		D30		Very stiff to hard Grey medium plastic CLAY		30.0	9	30	20	50	
31.0		D31	5.0			31.0	4	7	9	16	
32.0		D32				32.0	6	9	11	20	
33.0		D33				33.0	11	15	20	35	
34.0		D34				34.0	17	22	30	52	
35.0		D35				35.0	20	50	-	50	for 75mm penetration
36.0		D36	5.0	Very dense Grey to light brown fine SAND with trace of mica		36.0	60	-	-	60	for 150mm penetration
37.0		D37				37.0	80	-	-	80	for 150mm penetration
38.0		D38				38.0	85	-	-	85	for 150mm penetration
39.0		D39				39.0	90	-	-	90	for 150mm penetration
40.0		D40		End of Boring							

Note : Boring Terminated at 39.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Logged by : Azhar
Check by : Mahabub

Project : Construction of Kanchpur Bridge	Client : Oriental Consultants Co. Ltd.
Bore Hole No. : P6 Method of Boring : Percussion Boring Dia. : 100mm Depth of Boring : 42.0m	Existing Ground Level : -7.0m Ground/ Water Level : +1.68m Date Started : 18-02-2012 Date Completed : 20-02-2012 Legend : SAND SILT CLAY Co-ordinates :

Location of Boring : Kanchpur

Depth below G.L (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	Blows on spoon: 15 cm penetration	15 cm penetration	15 cm penetration	N-Values	Graphical Representation (10 20 30 40 50 60)
1.0		D1	3.0	Medium stiff Brown grey spotted medium plastic CLAY		1.0	2	3	5	8	
2.0		D2				2.0	2	3	3	6	
3.0		D3				3.0	2	3	3	6	
4.0		D4	3.0	Medium dense Brown grey spotted silty fine SAND		4.0	8	10	16	26	
5.0		D5				5.0	7	8	12	20	
6.0		D6				6.0	7	10	14	24	
7.0		D7	1.0	Very stiff Grey medium plastic CLAY		7.0	9	12	17	29	
8.0		D8				8.0	8	15	22	37	
9.0		D9	5.0	Hard Brown to grey non plastic SILT		9.0	10	18	21	39	
10.0		D10				10.0	11	20	23	43	
11.0		D11				11.0	12	19	22	41	
12.0		D12				12.0	12	21	24	45	
13.0		D13	5.0	Very stiff to hard Grey medium plastic CLAY		13.0	11	17	18	35	
14.0		D14				14.0	12	16	21	37	
15.0		D15				15.0	10	15	19	34	
16.0		D16				16.0	12	12	13	25	
17.0		D17				17.0	11	12	13	25	
18.0		D18	3.0	Very stiff to hard Grey non plastic SILT with trace of mica		18.0	10	13	14	27	
19		D19				19.0	10	14	20	34	
20.0		D20				20.0	9	15	25	40	

Note : Boring Terminated at 42.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....

Logged by : Azhar
Check by : Mahabub

Project : Construction of Kanchpur Bridge	Client : Oriental Consultants Co. Ltd.
Bore Hole No. : P6 Method of Boring : Percussion Boring Dia. : 100mm Depth of Boring : 42.0m	Existing Ground Level : -7.0m Ground/ Water Level : +1.68m Date Started : 18-02-2012 Date Completed : 20-02-2012 Legend : SAND SILT CLAY Co-ordinates :

Location of Boring : Kanchpur

Depth below G.L (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	Blows on spoon: 15 cm penetration	15 cm penetration	15 cm penetration	N-Values	Graphical Representation (10 20 30 40 50 60)
21.0		D21	3.0	Very stiff Grey medium plastic CLAY		21.0	5	13	14	27	
22.0		D22				22.0	4	9	12	21	
23.0		D23				23.0	7	12	15	27	
24.0		D24	9.0	Hard Grey non plastic SILT with trace of mica		24.0	12	26	24	50	for 250mm penetration
25.0		D25				25.0	14	36	14	50	for 200mm penetration
26.0		D26				26.0	19	18	32	50	for 150mm penetration
27.0		D27				27.0	24	28	22	50	for 150mm penetration
28.0		D28				28.0	22	26	24	50	for 150mm penetration
29.0		D29				29.0	18	21	29	50	for 125mm penetration
30.0		D30				30.0	13	36	14	50	for 125mm penetration
31.0		D31				31.0	12	35	15	50	for 150mm penetration
32.0		D32				32.0	11	32	18	50	for 200mm penetration
33.0		D33	5.0	Stiff to very stiff Grey medium plastic CLAY		33.0	8	12	14	26	
34.0		D34				34.0	5	6	8	14	
35.0		D35				35.0	6	9	12	21	
36.0		D36				36.0	11	16	21	37	
37.0		D37				37.0	18	22	28	50	for 75mm penetration
38.0		D38	5.0	Very dense Grey silty fine SAND with trace of mica		38.0	22	50	-	50	for 150mm penetration
39.0		D39				39.0	62	-	-	62	for 150mm penetration
40.0		D40				40.0	75	-	-	75	for 150mm penetration

Note : Boring Terminated at 42.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....

Logged by : Azhar
Check by : Mahabub

Project : Construction of Kanchpur Bridge	Client : Oriental Consultants Co. Ltd.
Bore Hole No. : P6 Method of Boring : Percussion Boring Dia. : 100mm Depth of Boring : 42.0m	Existing Ground Level : -7.0m Ground/ Water Level : +1.68m Date Started : 18-02-2012 Date Completed : 20-02-2012 Legend : SAND SILT CLAY Co-ordinates :

Location of Boring : Kanchpur

Depth below G.L (m)	Type of Sample	Sample No.		Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	Blows on spoon: 15 cm penetration	15 cm penetration	15 cm penetration	N-Values	Graphical Representation (10 20 30 40 50 60)
41.0		D41			Very dense Grey silty fine SAND with trace of mica		41.0	82	-	-	82	for 150mm penetration
42.0		D42					42.0	90	-	-	90	for 150mm penetration
					End of Boring							
43.0		D43										
44.0		D44										
45.0		D45										
46.0		D46										
47.0		D47										
48.0		D48										
49.0		D49										
50.0		D50										
51.0		D51										
52.0		D52										
53.0		D53										
54.0		D54										
55.0		D55										
56.0		D56										
57.0		D57										
58.0		D58										
59.0		D59										
60.0		D60										

Note : Boring Terminated at 42.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Logged by : Azhar
Check by : Mahabub

Project : Construction of Kanchpur Bridge	Client : Oriental Consultants Co. Ltd.
Bore Hole No. : P7 Method of Boring : Percussion Boring Dia. : 100mm Depth of Boring : 45.0m	Existing Ground Level : 3.93m Ground/ Water Level : 1.34m Date Started : 14-02-2012 Date Completed : 17-02-2012 Legend : SAND SILT CLAY Co-ordinates :

Location of Boring : Kanchpur

Depth below G.L (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	Blows on spoon: 15 cm penetration	15 cm penetration	15 cm penetration	N-Values
1.0		D1		Soft Light brown medium plastic CLAY		1.0	1	2	2	4
2.0		D2		Soft to medium stiff Grey to brown non plastic SILT		2.0	1	2	3	5
3.0		D3				3.0	1	2	3	5
4.0		D4	10.0			4.0	1	3	4	7
5.0		D5		Soft to medium stiff Dark grey to brown medium plastic CLAY		5.0	1	2	2	4
6.0		D6				6.0	1	2	2	4
7.0		D7				7.0	1	1	1	2
8.0		D8				8.0	1	1	2	3
9.0		D9				9.0	2	2	3	5
10.0		D10				10.0	2	3	4	7
11.0		D11				11.0	3	4	6	10
12.0		D12				12.0	4	5	8	13
13.0		D13		Stiff to hard Light brown		13.0	5	6	9	15
14.0		D14	11.0	medium plastic CLAY		14.0	6	8	12	20
15.0		D15				15.0	7	10	15	25
16.0		D16				16.0	7	8	12	20
17.0		D17				17.0	7	7	13	20
18.0		D18				18.0	4	5	7	12
19		D19				19.0	5	7	8	15
20.0		D20				20.0	7	9	10	19

Graphical Representation: 10 20 30 40 50 60

Note : Boring Terminated at 45.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....

Logged by : Azhar
Check by : Mahabub

Project : Construction of Kanchpur Bridge	Client : Oriental Consultants Co. Ltd.
Bore Hole No. : P7 Method of Boring : Percussion Boring Dia. : 100mm Depth of Boring : 45.0m	Existing Ground Level : 3.93m Ground/ Water Level : 1.34m Date Started : 14-02-2012 Date Completed : 17-02-2012 Legend : SAND SILT CLAY Co-ordinates :

Location of Boring : Kanchpur

Depth below G.L (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	Blows on spoon: 15 cm penetration	15 cm penetration	15 cm penetration	N-Values	Graphical Representation (10 20 30 40 50 60)
21.0		D21				21.0	9	17	31	48	
22.0		D22				22.0	17	30	20	50	for 225mm penetration
23.0		D23		Hard Brown to Yellowish brown non plastic SILT with very fine SAND and trace of mica		23.0	17	32	18	50	for 225mm penetration
24.0		D24	8.0			24.0	18	33	17	50	for 200mm penetration
25.0		D25				25.0	18	36	14	50	for 175mm penetration
26.0		D26				26.0	18	34	16	50	for 175mm penetration
27.0		D27				27.0	18	36	14	50	for 175mm penetration
28.0		D28				28.0	10	15	21	36	
29.0		D29				29.0	11	18	24	42	
30.0		D30		Stiff to very stiff Grey to black medium plastic CLAY		30.0	4	5	9	14	
31.0		D31	3.0			31.0	5	7	10	17	
32.0		D32				32.0	7	9	18	27	
33.0		D33				33.0	8	10	20	30	
34.0		D34		Hard Grey non plastic SILT, few sand with trace of mica		34.0	10	41	9	50	for 175mm penetration
35.0		D35				35.0	12	42	8	50	for 150mm penetration
36.0		D36	13.0			36.0	22	30	20	50	for 200mm penetration
37.0		D37				37.0	25	32	18	50	for 125mm penetration
38.0		D38				38.0	16	40	10	50	for 100mm penetration
39.0		D39				39.0	17	50	-	50	for 100mm penetration
40.0		D40				40.0	19	50	-	50	for 125mm penetration

Note : Boring Terminated at 45.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....

Logged by : Azhar
Check by : Mahabub

Project : Construction of Kanchpur Bridge	Client : Oriental Consultants Co. Ltd.
Bore Hole No. : P7 Method of Boring : Percussion Boring Dia. : 100mm Depth of Boring : 45.0m	Existing Ground Level : 3.93m Ground/ Water Level : 1.34m Date Started : 14-02-2012 Date Completed : 17-02-2012 Legend : SAND SILT CLAY Co-ordinates :

Location of Boring : Kanchpur

Depth below G.L (m)	Type of Sample	Sample No.		Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	Blows on spoon: 15 cm penetration	15 cm penetration	15 cm penetration	N-Values	Graphical Representation (10 20 30 40 50 60)
41.0		D41			Hard Grey non plastic SILT, few sand with trace of mica		41.0	21	50	-	50	for 150mm penetration
42.0		D42					42.0	20	50	-	50	for 175mm penetration
43.0		D43					43.0	18	50	-	50	for 150mm penetration
44.0		D44					44.0	19	50	-	50	for 125mm penetration
45.0		D45					45.0	17	50	-	50	for 125mm penetration
46.0		D46			End of Boring							
47.0		D47										
48.0		D48										
49.0		D49										
50.0		D50										
51.0		D51										
52.0		D52										
53.0		D53										
54.0		D54										
55.0		D55										
56.0		D56										
57.0		D57										
58.0		D58										
59.0		D59										
60.0		D60										

Note : Boring Terminated at 45.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Logged by : Azhar
Check by : Mahabub

Project : Construction of Kanchpur Bridge	Client : Oriental Consultants Co. Ltd.
Bore Hole No. : A2 Method of Boring : Percussion Boring Dia. : 100mm Depth of Boring : 45.0m	Existing Ground Level : 13.05m Ground/ Water Level : 8.94m Date Started : 17-02-2012 Date Completed : 19-02-2012 Legend : SAND SILT CLAY Co-ordinates :

Location of Boring : Kanchpur

Depth below G.L (m)	Type of Sample	Sample No.		Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	Blows on spoon: 15 cm penetration	15 cm penetration	15 cm penetration	N-Values	Graphical Representation (10 20 30 40 50 60)
1.0		D1		28.0	Medium stiff to very stiff Grey to brown medium plastic CLAY		1.0	3	7	11	18	
2.0		D2					2.0	3	7	13	20	
3.0		D3					3.0	2	5	7	12	
4.0		D4					4.0	2	5	9	14	
5.0		D5					5.0	2	3	5	8	
6.0		D6					6.0	2	3	6	9	
7.0		D7					7.0	2	4	6	10	
8.0		D8					8.0	3	3	7	10	
9.0		D9					9.0	3	4	5	9	
10.0		D10					10.0	3	5	7	12	
11.0		D11					11.0	3	6	9	15	
12.0		D12					12.0	2	5	6	11	
13.0		D13					13.0	4	6	7	13	
14.0		D14					14.0	4	7	8	15	
15.0		D15					15.0	3	6	10	16	
16.0		D16					16.0	4	5	6	11	
17.0		D17					17.0	3	6	8	14	
18.0		D18					18.0	4	6	10	16	
19		D19					19.0	3	4	4	8	
20.0		D20					20.0	3	6	5	11	

Note : Boring Terminated at 45.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....

Logged by : Azhar
Check by : Mahabub

Project : Construction of Kanchpur Bridge	Client : Oriental Consultants Co. Ltd.
Bore Hole No. : A2 Method of Boring : Percussion Boring Dia. : 100mm Depth of Boring : 45.0m	Existing Ground Level : 13.05m Ground/ Water Level : 8.94m Date Started : 17-02-2012 Date Completed : 19-02-2012 Legend : SAND SILT CLAY Co-ordinates :

Location of Boring : Kanchpur

Depth below G.L (m)	Type of Sample	Sample No.		Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	Blows on spoon: 15 cm penetration	15 cm penetration	15 cm penetration	N-Values	Graphical Representation (10 20 30 40 50 60)
21.0		D21					21.0	4	5	6	11	
22.0		D22					22.0	3	4	6	10	
23.0		D23					23.0	4	5	7	12	
24.0		D24					24.0	4	6	8	14	
25.0		D25					25.0	5	7	9	16	
26.0		D26					26.0	6	10	13	23	
27.0		D27					27.0	6	8	16	24	
28.0		D28					28.0	6	12	18	30	
29.0		D29			Very stiff to hard Light brown medium plastic CLAY		29.0	7	13	21	34	
30.0		D30					30.0	7	9	15	24	
31.0		D31		7.0			31.0	7	11	18	29	
32.0		D32					32.0	8	12	20	32	
33.0		D33					33.0	8	13	22	35	
34.0		D34					34.0	10	15	24	39	
35.0		D35					35.0	10	16	25	41	
36.0		D36			Hard Brown to grey non plastic SILT with trace of mica		36.0	16	35	15	50	for 175mm penetration
37.0		D37		10.0			37.0	18	37	13	50	for 175mm penetration
38.0		D38					38.0	21	50	-	50	for 150mm penetration
39.0		D39					39.0	23	50	-	50	for 150mm penetration
40.0		D40					40.0	24	50	-	50	for 125mm penetration

Note : Boring Terminated at 45.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....

Logged by : Azhar
Check by : Mahabub

Project : Construction of Kanchpur Bridge	Client : Oriental Consultants Co. Ltd.
Bore Hole No. : A2 Method of Boring : Percussion Boring Dia. : 100mm Depth of Boring : 45.0m	Existing Ground Level : 13.05m Ground/ Water Level : 8.94m Date Started : 17-02-2012 Date Completed : 19-02-2012 Legend : SAND SILT CLAY Co-ordinates :

Location of Boring : Kanchpur

Depth below G.L (m)	Type of Sample	Sample No.		Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	Blows on spoon: 15 cm penetration	15 cm penetration	15 cm penetration	N-Values	Graphical Representation (10 20 30 40 50 60)
41.0		D41			Hard Brown to grey non plastic SILT with trace of mica		41.0	26	50	-	50	for 75mm penetration
42.0		D42					42.0	28	50	-	50	for 75mm penetration
43.0		D43					43.0	29	50	-	50	for100mm penetration
44.0		D44					44.0	32	50	-	50	for 100mm penetration
45.0		D45					45.0	35	50	-	50	for 100mm penetration
46.0		D46			End of Boring							
47.0		D47										
48.0		D48										
49.0		D49										
50.0		D50										
51.0		D51										
52.0		D52										
53.0		D53										
54.0		D54										
55.0		D55										
56.0		D56										
57.0		D57										
58.0		D58										
59.0		D59										
60.0		D60										

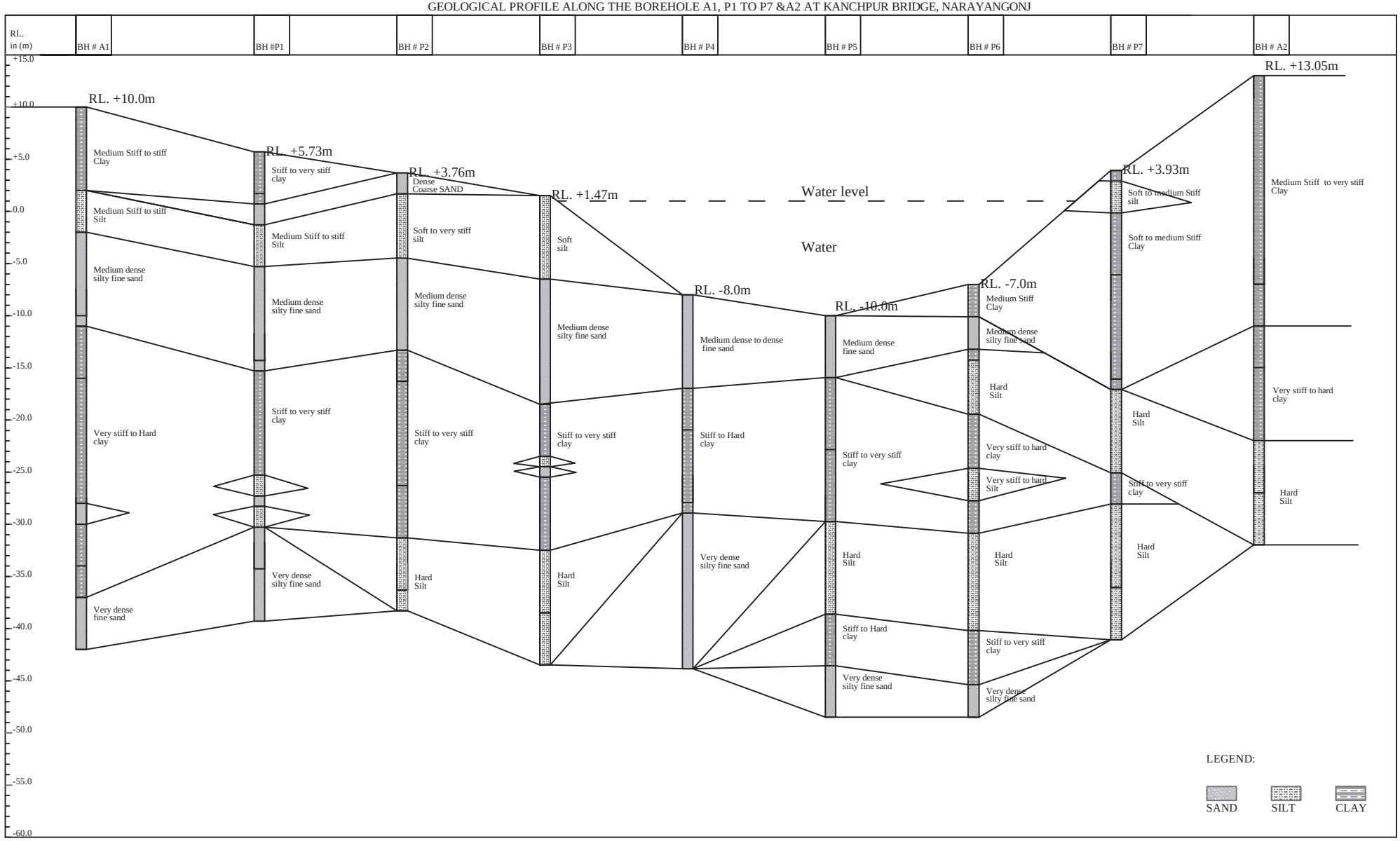
Note : Boring Terminated at 45.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Logged by : Azhar
Check by : Mahabub

GEOLOGICAL PROFILE

SURVEY 2000

GEOLOGICAL PROFILE ALONG THE BOREHOLE A1, P1 TO P7 &A2 AT KANCHPUR BRIDGE, NARAYANGONJ



AP3-31

PRESSURE METER TEST

PRESSUREMETER TEST DATA RESULTS

No.	(1) P kg/cm^2	(2) P' = P - RG kg/cm^2	(3) RG kg/cm^2	(4) Rn_0 mm	(5) Rn_{30} mm	(6) Rn_{60} mm	(7) Rn_{120} mm	(8) Creep Index, Ic mm	(9) Rs cm	(10) Ro cm
1	2.04	2.57	-0.53	-2.29	-2.28	-2.28	-2.28	0.00	2.12	3.51
2	2.34	2.75	-0.40	-1.86	-2.01	-2.01	-2.01	0.00	2.15	3.53
3	2.65	2.95	-0.30	-1.76	-1.79	-1.79	-1.79	0.00	2.17	3.54
4	2.96	2.95	0.00	-1.30	-1.13	-1.13	-1.08	0.05	2.24	3.59
5	3.26	2.99	0.27	-0.56	-0.44	-0.44	-0.41	0.03	2.31	3.63
6	3.57	3.03	0.54	0.23	0.24	0.24	0.31	0.07	2.38	3.68
7	4.08	3.12	0.96	1.27	1.43	1.55	1.61	0.18	2.51	3.76
8	4.59	3.42	1.17	2.16	2.24	2.26	2.32	0.08	2.58	3.81
9	5.10	3.86	1.24	2.45	2.46	2.53	2.58	0.12	2.61	3.83
10	5.61	4.31	1.30	2.68	2.70	2.75	2.80	0.10	2.63	3.84
11	6.12	4.76	1.35	2.88	2.91	2.94	3.01	0.10	2.65	3.86
12	6.63	5.22	1.41	3.10	3.14	3.19	3.24	0.10	2.67	3.87
13	7.14	5.65	1.49	3.38	3.43	3.46	3.56	0.13	2.71	3.89
14	7.65	6.11	1.54	3.65	3.70	3.73	3.79	0.09	2.73	3.91
15	8.15	6.56	1.60	3.90	3.93	3.97	4.05	0.12	2.76	3.93
16	8.66	7.01	1.66	4.16	4.18	4.24	4.31	0.13	2.78	3.95
17	9.17	7.47	1.70	4.12	4.44	4.48	4.53	0.09	2.80	3.96
18	10.19	8.43	1.76	4.65	4.70	4.79	4.82	0.12	2.83	3.98

REMARKS:

TIME TAKEN :

(2) … P' (kg/cm^2) effective pressure obtained by (1) - (3) : P' = P - RG

(3) … RG (kg/cm^2) obtained from Rn (120) using Rg Calibration Chart.

(8) … Creep Index, I_c Obtained by (7) - (5); I_c = Rn (120) - Rn (30) in mm.

(9) … R_s inside radius obtained by the following equations:

Medium Rubber

R_s(cm) = {Rn(120) + 23.5} / 10 for P < = 10

R_s(cm) = {Rn(120) + 23.5-[P-10]/666} /10 for P>10

Hard Rubber

R_s(cm) = {Rn(120) + 23.5} / 10 for P < = 20

R_s(cm) = {Rn(120) + 23.5 - [P-20] / 400} /10 for P>20

(10) … R_o outside radius, obtained by using $R_o = (R_s^2 + A/\pi)^{1/2}$, where A = 24.63cm^2.

TEST LOCATION: **P2 KANCHPUR**

TEST DEPTH: **23M**

TEST NO.: **1**

TEST DATE: **23.02.2012**

PAGE:

N - VALUE: **18**

RUBBER TYPE:	GROUND WATER LEVEL:	N VALUE:	SOIL TYPE:
MEDIUM		**18**	**MEDIUM PLASTIC CLAY**

PROJECT:

PREPERATORY SURVEY FOR DHAKA-CHITTAGONG NATIONAL HIGHWAY NO.1 BRIDGE CONSTRUCTION AND REHABILITION PROJECT.

CLIENT: **BANGLADESH ROADS & HIGHWAY Department**

CONSULTANT: **ORIENTAL CONSULTANTS CO. LTD**

SPECIALIST SUB-CONTRACTOR:

SURVEY2000
TEL: 8818386,01711323266
Email: survey2k@yahoo.com

PRESSUREMETER TEST DATA RESULTS

No.	(1) P Mpa	(2) Rn_0 mm	(3) Rn_{30} mm	(4) Rn_{60} mm	(5) Rn_{120} mm
1	0.2	-2.290	-2.280	-2.280	-2.280
2	0.23	-1.860	-2.010	-2.010	-2.010
3	0.26	-1.760	-1.790	-1.790	-1.790
4	0.29	-1.300	-1.130	-1.130	-1.080
5	0.32	-0.560	-0.440	-0.440	-0.410
6	0.35	0.230	0.240	0.240	0.310
7	0.4	1.270	1.430	1.550	1.610
8	0.45	2.160	2.240	2.260	2.320
9	0.5	2.450	2.460	2.530	2.580
10	0.55	2.680	2.700	2.750	2.800
11	0.6	2.880	2.910	2.940	3.010
12	0.65	3.100	3.140	3.190	3.240
13	0.7	3.380	3.430	3.460	3.560
14	0.75	3.650	3.700	3.730	3.790
15	0.8	3.900	3.930	3.970	4.050
16	0.85	4.160	4.180	4.240	4.310
17	0.9	4.120	4.440	4.480	4.530
18	1	4.650	4.700	4.790	4.820
19	1.1	4.970	5.060	5.130	5.200
20	1.3	5.830	5.970	6.100	6.200
21	1.5	7.310	7.550	7.750	8.020
22	1.7	10.680	11.060	11.350	11.590
23	1.8	13.300	13.600	14.000	14.500
24					
25					
26					

REMARKS:

TIME TAKEN :

(2) ... P' (kg/cm^2) effective pressure obtained by (1) - (3) : P' = P - RG

(3) ... RG (kg/cm^2) obtained from Rn (120) using Rg Calibration Chart.

(8) ... Creep Index, I_c Obtained by (7) - (5); I_c = Rn (120) - Rn (30) in mm.

(9) ... R_s inside radius obtained by the following equations:

Medium Rubber

$R_s(cm) = \{Rn(120) + 23.5\} / 10$ for P < = 10

$R_s(cm) = \{Rn(120) + 23.5-[P-10]/666\} /10$ for P>10

(10) ... R_o outside radius, obtained by using $R_o = (R_s^2 + A/\pi)^{1/2}$, where A = 24.63cm^2.

TEST LOCATION:	TEST DEPTH:
P2 KANCHPUR	**23M**
TEST NO.: **1**	TEST DATE: **23.02.2012**
PAGE:	N - VALUE: **18**

RUBBER TYPE: **M**

SOIL TYPE: **MEDIUM PLASTIC CLAY**

PROJECT:

PREPARATORY SURVEY FOR DHAKA-CHITTAGONG NATIONAL BRIDGE CONSTRUCTION AND REHABILITATION PROJECT

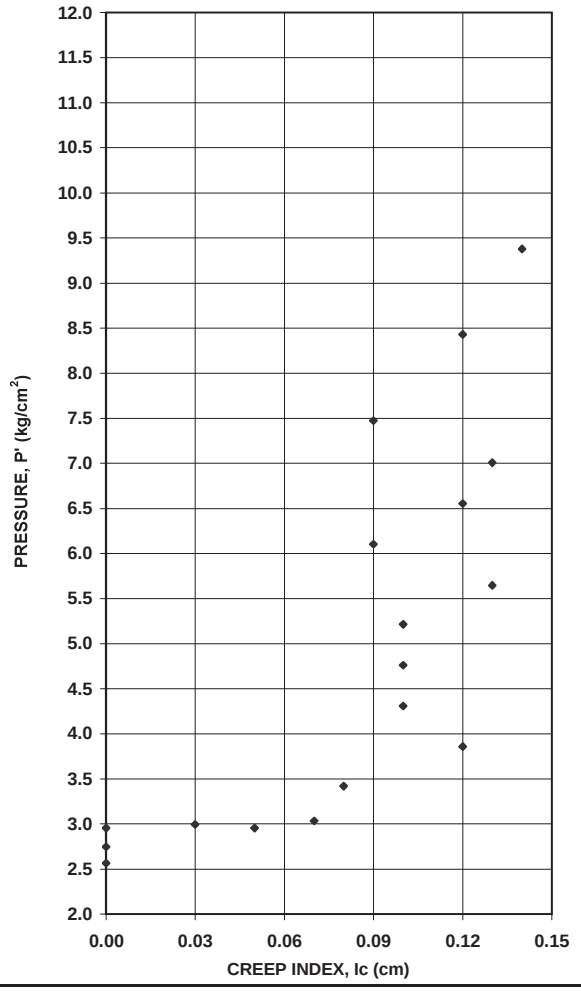
CLIENT: **ORIENTAL CONSUTANTS CO.LTD**

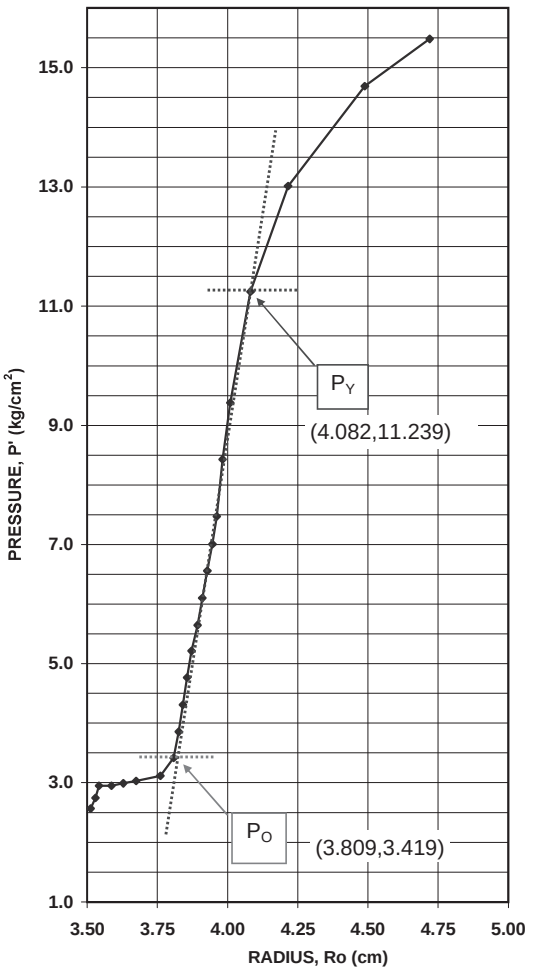
SPECIALIST SUB-CONTRACTOR:

SURVEY2000
TEL: 8818386,01711323266
Email: survey2k@yahoo.com

PRESSUREMETER TEST DATA RESULTS

NO. OF CYCLE	EARTH PRESSURE AT REST Po (kg/cm^2)	YIELD PRESSURE Py (kg/cm^2)	FAILURE PRESSURE Pf (kg/cm^2)	COEFFICIENT OF SOIL REACTION Km (kg/cm^3)	MODULUS OF ELASTICITY Em (kg/cm^2)	MEAN RADIUS OF K VALUE CALCULATION Rm (cm)
1st	3.419	11.239	-	28.645	146.923	3.946





REMARKS:

``

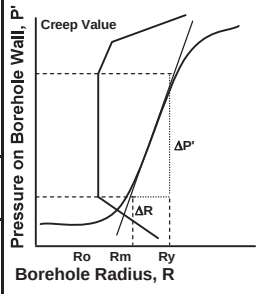
Po, Po' ..... Earth Pressure at Rest

Py ,Py' ..... Yield Pressure

E = (1 + ν) . Rm . Km ..... Modulus of Elasticity

ν = 0.3

DIAGRAM:



TEST LOCATION:	TEST DEPTH:
P2 KANCHPUR	23M
TEST NO.: 1	TEST DATE: 23.02.2012

RUBBER TYPE:	N VALUE:	SOIL TYPE:
MEDIUM	18	MEDIUM PLASTIC CLAY

SPECIALIST SUB-CONTRACTOR:

SURVEY2000

TEL: 8818386,01711323266

Email: survey2k@yahoo.com

PROJECT:

PREPARATORY SURVEY FOR DHAKA-CHITTAGONG NATIONAL HIGHWAY NO.1 BRIDGE CONSTRUCTION AND REHABILITATION PROJECT

CLIENT:	CONSULTANT:
BANGLADESH ROADS & HIGHWAY DEPARTMENT	ORIENTAL COSULTANTS CO. LTD

PRESSUREMETER TEST DATA RESULTS

No.	(1) P kg/cm^2	(2) P' = P - RG kg/cm^2	(3) RG kg/cm^2	(4) Rn_0 mm	(5) Rn_{30} mm	(6) Rn_{60} mm	(7) Rn_{120} mm	(8) Creep Index, Ic mm	(9) Rs cm	(10) Ro cm
1	3.67	4.02	-0.35	-1.89	-1.89	-1.89	-1.89	0.00	2.16	3.54
2	4.18	4.44	-0.26	-1.69	-1.68	-1.70	-1.70	-0.02	2.18	3.55
3	4.69	4.77	-0.08	-1.46	-1.42	-1.37	-1.27	0.15	2.22	3.58
4	5.20	5.17	0.03	-1.23	-1.15	-1.12	-1.01	0.14	2.25	3.59
5	5.71	5.57	0.14	-0.97	-0.91	-0.86	-0.74	0.17	2.28	3.61
6	6.22	5.99	0.23	-0.70	-0.65	-0.59	-0.51	0.14	2.30	3.62
7	7.24	6.85	0.38	-0.40	-0.31	-0.23	-0.11	0.20	2.34	3.65
8	8.26	7.74	0.52	-0.03	0.06	0.14	0.26	0.20	2.38	3.67
9	9.28	8.63	0.64	0.32	0.40	0.47	0.62	0.22	2.41	3.70
10	10.30	9.51	0.79	0.74	0.84	0.91	1.05	0.21	2.46	3.72
11	11.31	10.40	0.91	1.15	1.24	1.32	1.45	0.21	2.50	3.75
12	12.84	11.79	1.06	1.61	1.71	1.77	1.93	0.22	2.54	3.78
13	14.37	13.19	1.18	2.06	2.16	2.23	2.37	0.21	2.59	3.81
14	15.90	14.61	1.29	2.50	2.59	2.66	2.78	0.19	2.63	3.84
15	17.43	16.05	1.38	2.91	2.99	3.05	3.14	0.15	2.66	3.86
16	18.96	17.49	1.47	3.29	3.37	3.41	3.48	0.11	2.70	3.89
17	21.00	19.43	1.57	3.68	3.77	3.85	3.93	0.16	2.74	3.92
18	23.04	21.35	1.69	4.21	4.31	4.39	4.46	0.15	2.80	3.96
19	25.08	23.25	1.83	4.80	4.96	5.04	5.16	0.20	2.86	4.01
20	27.12	25.14	1.98	5.58	5.77	5.86	5.99	0.22	2.95	4.07
21	29.15	27.03	2.13	6.54	6.64	6.85	6.94	0.30	3.04	4.13
22	32.21	29.84	2.38	8.21	8.47	8.63	8.83	0.36	3.23	4.27
23	34.25	31.68	2.57	10.23	10.38	10.52	10.70	0.32	3.42	4.42
24	36.29	33.57	2.72	11.78	12.02	12.19	12.48	0.46	3.59	4.56
25	38.33	35.47	2.86	13.46	13.89	14.10	14.36	0.47	3.78	4.71
26	40.37	37.33	3.03	15.43	15.93	16.15	16.55	0.62	4.00	4.88
27	43.43	40.23	3.20	18.07	18.30	18.31	18.31	0.01	4.18	5.03

REMARKS:

TIME TAKEN :

(2) … P' (kg/cm^2) effective pressure obtained by (1) - (3) : P' = P - RG

(3) … RG (kg/cm^2) obtained from Rn (120) using Rg Calibration Chart.

(8) … Creep Index, I_c Obtained by (7) - (5); I_c = Rn (120) - Rn (30) in mm.

(9) … R_s inside radius obtained by the following equations:

Medium Rubber

R_s(cm) = {Rn(120) + 23.5} / 10 for P < = 10

R_s(cm) = {Rn(120) + 23.5-[P-10]/666} /10 for P>10

Hard Rubber

R_s(cm) = {Rn(120) + 23.5} / 10 for P < = 20

R_s(cm) = {Rn(120) + 23.5 - [P-20] / 400} /10 for P>20

(10) … R_o outside radius, obtained by using $R_o = (R_s^2 + A/\pi)^{1/2}$, where A = 24.63cm^2.

TEST LOCATION:	TEST DEPTH:
P2 KANCHPUR	**35M**
TEST NO.: **2**	TEST DATE: **25.02.2012**
PAGE:	N - VALUE: **50**

RUBBER TYPE:	GROUND WATER LEVEL:	N VALUE:	SOIL TYPE:
HARD		**50**	**HARD PLASTIC CLAY**

PROJECT:

PREPERATORY SURVEY FOR DHAKA-CHITTAGONG NATIONAL HIGHWAY NO.1 BRIDGE CONSTRUCTION AND REHABILITION PROJECT.

CLIENT: **BANGLADESH ROADS & HIGHWAY Department**

CONSULTANT: **ORIENTAL CONSULTANTS CO. LTD**

SPECIALIST SUB-CONTRACTOR:

SURVEY2000
TEL: 8818386
Email: survey2k@yahoo.com

PRESSUREMETER TEST DATA RESULTS

No.	(1) P Mpa	(2) Rn_0 mm	(3) Rn_{30} mm	(4) Rn_{60} mm	(5) Rn_{120} mm
1	0.36	-1.890	-1.890	-1.890	-1.890
2	0.41	-1.690	-1.680	-1.700	-1.700
3	0.46	-1.460	-1.420	-1.370	-1.270
4	0.51	-1.230	-1.150	-1.120	-1.010
5	0.56	-0.970	-0.910	-0.860	-0.740
6	0.61	-0.700	-0.650	-0.590	-0.510
7	0.71	-0.400	-0.310	-0.230	-0.110
8	0.81	-0.030	0.060	0.140	0.260
9	0.91	0.320	0.400	0.470	0.620
10	1.01	0.740	0.840	0.910	1.050
11	1.11	1.150	1.240	1.320	1.450
12	1.26	1.610	1.710	1.770	1.930
13	1.41	2.060	2.160	2.230	2.370
14	1.56	2.500	2.590	2.660	2.780
15	1.71	2.910	2.990	3.050	3.140
16	1.86	3.290	3.370	3.410	3.480
17	2.06	3.680	3.770	3.850	3.930
18	2.26	4.210	4.310	4.390	4.460
19	2.46	4.800	4.960	5.040	5.160
20	2.66	5.580	5.770	5.860	5.990
21	2.86	6.540	6.640	6.850	6.940
22	3.16	8.210	8.470	8.630	8.830
23	3.36	10.230	10.380	10.520	10.700
24	3.56	11.780	12.020	12.190	12.480
25	3.76	13.460	13.890	14.100	14.360
26	3.96	15.430	15.930	16.150	16.550
	4.26	18.070	18.300	18.310	18.310

REMARKS:

TIME TAKEN :

(2) ... P' (kg/cm^2) effective pressure obtained by (1) - (3) : P' = P - RG

(3) ... RG (kg/cm^2) obtained from Rn (120) using Rg Calibration Chart.

(8) ... Creep Index, I_c Obtained by (7) - (5); I_c = Rn (120) - Rn (30) in mm.

(9) ... R_s inside radius obtained by the following equations:

Medium Rubber

R_s(cm) = {Rn(120) + 23.5} / 10 for P < = 10

R_s(cm) = {Rn(120) + 23.5-[P-10]/666} /10 for P>10

(10) ... R_o outside radius, obtained by using $R_o = (R_s^2 + A/\pi)^{1/2}$, where A = 24.63cm^2.

TEST LOCATION:	TEST DEPTH:
P2 KANCHPUR	**35M**
TEST NO.: **2**	TEST DATE: **25.02.2012**
PAGE:	N - VALUE: **50**

RUBBER TYPE:	SOIL TYPE:
M	**HARD PLASTIC CLAY**

PROJECT:

PREPARATORY SURVEY FOR DHAKA-CHITTAGONG NATIONAL BRIDGE CONSTRUCTION AND REHABILITATION PROJECT

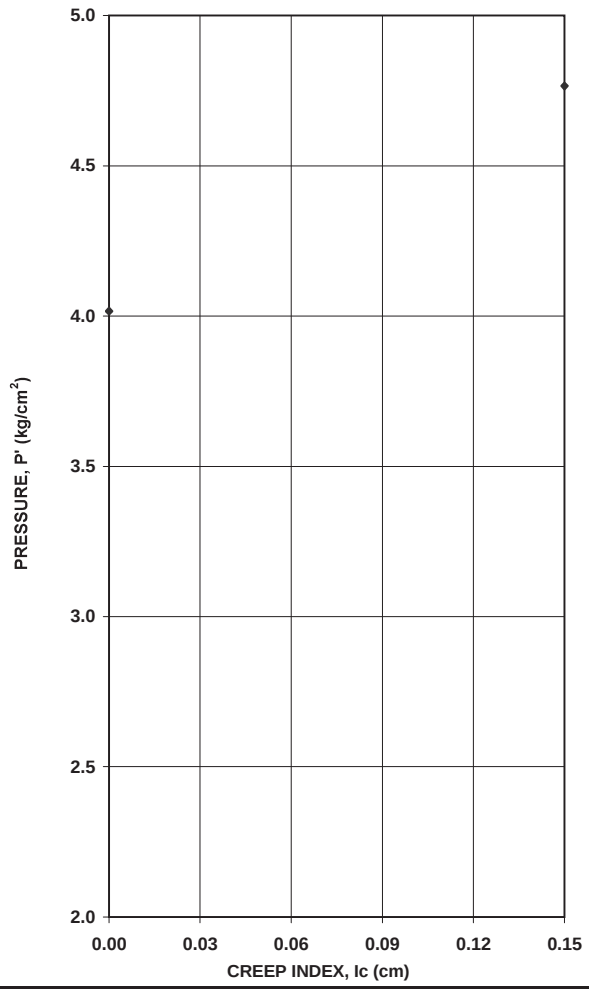
CLIENT: ORIENTAL CONSUTANTS CO.LTD

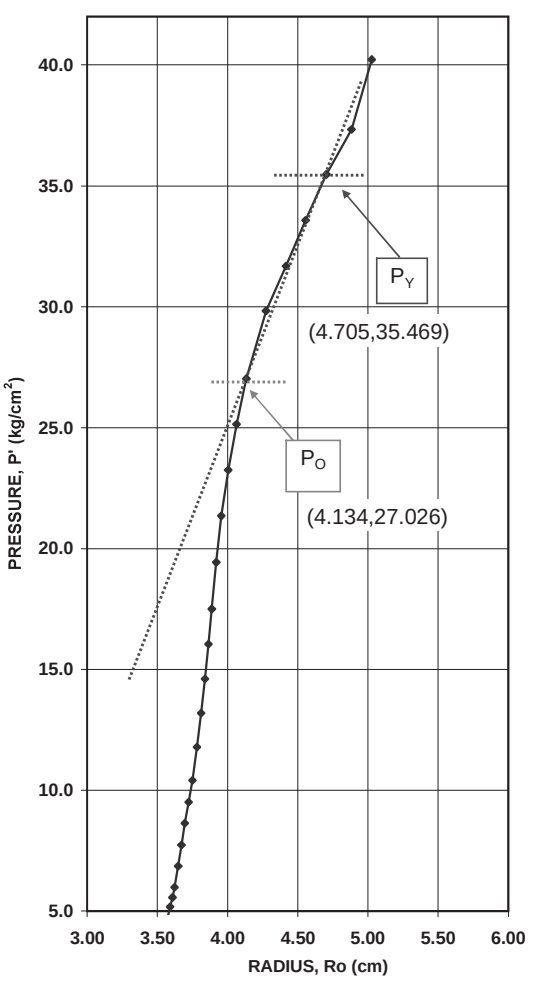
SPECIALIST SUB-CONTRACTOR:

SURVEY2000
TEL: 8818386,01711323266
Email: survey2k@yahoo.com

PRESSUREMETER TEST DATA RESULTS

NO. OF CYCLE	EARTH PRESSURE AT REST Po (kg/cm^2)	YIELD PRESSURE Py (kg/cm^2)	FAILURE PRESSURE Pf (kg/cm^2)	COEFFICIENT OF SOIL REACTION Km (kg/cm^3)	MODULUS OF ELASTICITY Em (kg/cm^2)	MEAN RADIUS OF K VALUE CALCULATION Rm (cm)
1st	27.026	35.469	-	14.786	84.953	4.420





REMARKS:

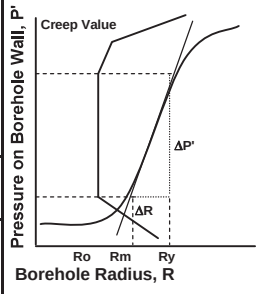
Po, Po' ..... Earth Pressure at Rest

Py ,Py' ..... Yield Pressure

E = (1 + ν) . Rm . Km ..... Modulus of Elasticity

ν = 0.3

DIAGRAM:



RUBBER TYPE:	N VALUE:	SOIL TYPE:
HARD	50	HARD PLASTIC CLAY

PROJECT:

PREPARATORY SURVEY FOR DHAKA-CHITTAGONG NATIONAL HIGHWAY NO.1 BRIDGE CONSTRUCTION AND REHABILITATION PROJECT

TEST LOCATION:	TEST DEPTH:
P2 KANCHPUR	35M
TEST NO.: 2	TEST DATE: 25.02.2012

SURVEY2000
TEL: 8818386,01711323266
Email: survey2k@yahoo.com

CLIENT:	CONSULTANT:
BANGLADESH ROADS & HIGHWAY DEPARTMENT	ORIENTAL COSULTANTS CO. LTD

PRESSUREMETER TEST DATA RESULTS

No.	(1) P kg/cm^2	(2) P' = P - RG kg/cm^2	(3) RG kg/cm^2	(4) Rn_0 mm	(5) Rn_{30} mm	(6) Rn_{60} mm	(7) Rn_{120} mm	(8) Creep Index, Ic mm	(9) Rs cm	(10) Ro cm
1	0.10	0.75	-0.65	-2.56	-2.55	-2.55	-2.54	0.01	2.10	3.50
2	0.61	1.20	-0.59	-2.43	-2.43	-2.43	-2.42	0.01	2.11	3.50
3	1.12	1.64	-0.52	-2.28	-2.27	-2.27	-2.26	0.01	2.12	3.51
4	1.63	1.88	-0.25	-1.86	-1.87	-1.72	-1.68	0.19	2.18	3.55
5	2.14	1.88	0.26	-0.93	-0.81	-0.68	-0.44	0.37	2.31	3.63
6	2.65	1.99	0.66	0.25	0.37	0.52	0.66	0.29	2.42	3.70
7	3.67	2.44	1.23	1.87	2.02	2.20	2.56	0.54	2.61	3.82
8	4.69	3.13	1.56	2.98	3.28	3.47	3.86	0.58	2.74	3.91
9	5.71	3.84	1.87	4.56	4.86	4.99	5.39	0.53	2.89	4.02
10	6.73	4.61	2.12	6.29	6.47	6.61	6.86	0.39	3.04	4.13
11	7.75	5.47	2.28	7.64	7.85	7.93	8.04	0.19	3.15	4.22
12	10.81	8.03	2.78	12.95	13.11	13.20	13.31	0.20	3.68	4.62
13	12.23	9.12	3.11	17.35	17.35	17.38	17.43	0.08	4.09	4.96
14										
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REMARKS:

TIME TAKEN :

(2) … P' (kg/cm^2) effective pressure obtained by (1) - (3) : P' = P - RG

(3) … RG (kg/cm^2) obtained from Rn (120) using Rg Calibration Chart.

(8) … Creep Index, I_c Obtained by (7) - (5); I_c = Rn (120) - Rn (30) in mm.

(9) … R_s inside radius obtained by the following equations:

Medium Rubber

R_s(cm) = {Rn(120) + 23.5} / 10 for P < = 10

R_s(cm) = {Rn(120) + 23.5-[P-10]/666} /10 for P>10

Hard Rubber

R_s(cm) = {Rn(120) + 23.5} / 10 for P < = 20

R_s(cm) = {Rn(120) + 23.5 - [P-20] / 400} /10 for P>20

(10) … R_o outside radius, obtained by using $R_o = (R_s^2 + A/\pi)^{1/2}$, where A = 24.63cm^2.

TEST LOCATION:	TEST DEPTH:
P2 KANCHPUR	**20M**
TEST NO.: **3**	TEST DATE: **21.02.2012**
PAGE:	N - VALUE: **12**

RUBBER TYPE:	GROUND WATER LEVEL:	N VALUE:	SOIL TYPE:
MEDIUM		**12**	**MEDIUM PLASTIC CLAY**

PROJECT:

PREPERATORY SURVEY FOR DHAKA-CHITTAGONG NATIONAL HIGHWAY NO.1 BRIDGE CONSTRUCTION AND REHABILITION PROJECT.

CLIENT: **BANGLADESH ROADS & HIGHWAY Department**

CONSULTANT: **ORIENTAL CONSULTANTS CO. LTD**

SPECIALIST SUB-CONTRACTOR:

SURVEY2000

TEL: 8818386

Email: survey2k@yahoo.com

PRESSUREMETER TEST DATA RESULTS

No.	(1) P Mpa	(2) Rn_0 mm	(3) Rn_{30} mm	(4) Rn_{60} mm	(5) Rn_{120} mm
1	0.01	-2.560	-2.550	-2.550	-2.540
2	0.06	-2.430	-2.430	-2.430	-2.420
3	0.11	-2.280	-2.270	-2.270	-2.260
4	0.16	-1.860	-1.870	-1.720	-1.680
5	0.21	-0.930	-0.810	-0.680	-0.440
6	0.26	0.250	0.370	0.520	0.660
7	0.36	1.870	2.020	2.200	2.560
8	0.46	2.980	3.280	3.470	3.860
9	0.56	4.560	4.860	4.990	5.390
10	0.66	6.290	6.470	6.610	6.860
11	0.76	7.640	7.850	7.930	8.040
12	1.06	12.950	13.110	13.200	13.310
13	1.2	17.350	17.350	17.380	17.430
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

REMARKS:

TIME TAKEN :

(2) ... P' (kg/cm^2) effective pressure obtained by (1) - (3) : P' = P - RG

(3) ... RG (kg/cm^2) obtained from Rn (120) using Rg Calibration Chart.

(8) ... Creep Index, I_c Obtained by (7) - (5); I_c = Rn (120) - Rn (30) in mm.

(9) ... R_s inside radius obtained by the following equations:

Medium Rubber

$R_s(cm) = \{Rn(120) + 23.5\} / 10$ for P < = 10

$R_s(cm) = \{Rn(120) + 23.5-[P-10]/666\} /10$ for P>10

(10) ... R_o outside radius, obtained by using $R_o = (R_s^2 + A/\pi)^{1/2}$, where A = $24.63cm^2$.

TEST LOCATION:	TEST DEPTH:
P2 KANCHPUR	**20M**
TEST NO.: **3**	TEST DATE: **21.02.2012**
PAGE:	N - VALUE: **12**

RUBBER TYPE:	SOIL TYPE:
M	**MEDIUM PLASTIC CLAY**

PROJECT:

PREPARATORY SURVEY FOR DHAKA-CHITTAGONG NATIONAL BRIDGE CONSTRUCTION AND REHABILITATION PROJECT

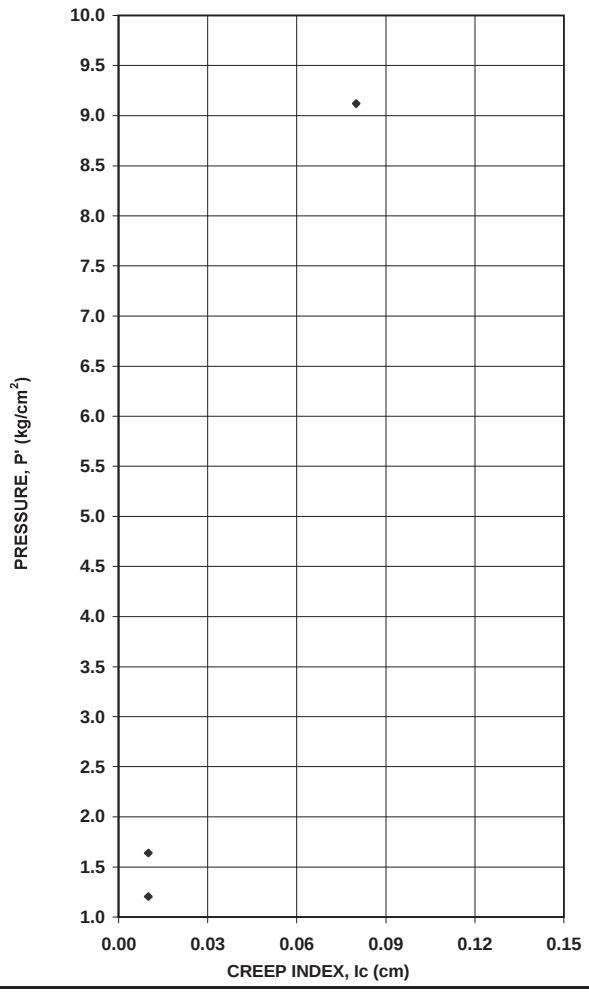
CLIENT: ORIENTAL CONSUTANTS CO.LTD

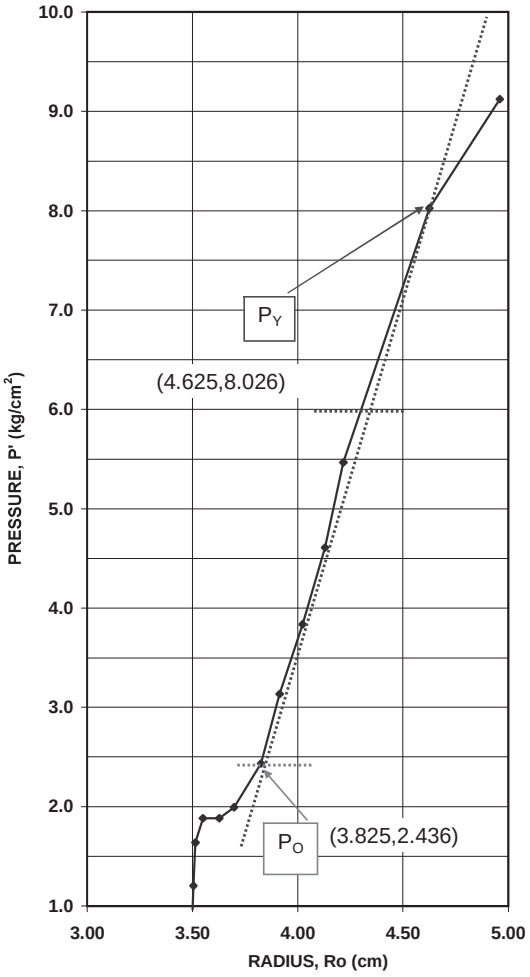
SPECIALIST SUB-CONTRACTOR:

SURVEY2000
TEL: 8818386,01711323266
Email: survey2k@yahoo.com

PRESSUREMETER TEST DATA RESULTS

NO. OF CYCLE	EARTH PRESSURE AT REST Po (kg/cm^2)	YIELD PRESSURE Py (kg/cm^2)	FAILURE PRESSURE Pf (kg/cm^2)	COEFFICIENT OF SOIL REACTION Km (kg/cm^3)	MODULUS OF ELASTICITY Em (kg/cm^2)	MEAN RADIUS OF K VALUE CALCULATION Rm (cm)
1st	2.436	8.026	-	6.988	38.379	4.225





REMARKS:

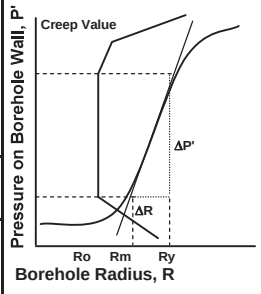
Po, Po' ..... Earth Pressure at Rest

Py ,Py' ..... Yield Pressure

E = (1 + ν) . Rm . Km ..... Modulus of Elasticity

ν = 0.3

DIAGRAM:



TEST LOCATION:	TEST DEPTH:
P2 KANCHPUR	20M
TEST NO.: 3	TEST DATE: 21.02.2012

RUBBER TYPE:	N VALUE:	SOIL TYPE:
MEDIUM	12	MEDIUM PLASTIC CLAY

PROJECT:

PREPARATORY SURVEY FOR DHAKA-CHITTAGONG NATIONAL HIGHWAY NO.1 BRIDGE CONSTRUCTION AND REHABILITATION PROJECT

SURVEY2000
TEL: 8818386,01711323266
Email: survey2k@yahoo.com

CLIENT:	CONSULTANT:
BANGLADESH ROADS & HIGHWAY DEPARTMENT	ORIENTAL COSULTANTS CO. LTD

PRESSUREMETER TEST DATA RESULTS

No.	(1) P kg/cm^2	(2) P' = P - RG kg/cm^2	(3) RG kg/cm^2	(4) Rn_0 mm	(5) Rn_{30} mm	(6) Rn_{60} mm	(7) Rn_{120} mm	(8) Creep Index, Ic mm	(9) Rs cm	(10) Ro cm
1	0.92	1.38	-0.47	-2.14	2.14	-2.14	-2.15	-4.29	2.14	3.52
2	1.43	1.79	-0.37	-2.04	-1.95	-1.94	-1.93	0.02	2.16	3.53
3	1.94	2.23	-0.30	-1.82	-1.80	-1.79	-1.78	0.02	2.17	3.54
4	2.45	2.60	-0.15	-1.60	-1.54	-1.50	-1.44	0.10	2.21	3.56
5	2.96	2.94	0.02	-1.20	-1.15	-1.08	-1.05	0.10	2.25	3.59
6	3.47	3.29	0.18	-0.85	-0.78	-0.72	-0.65	0.13	2.29	3.61
7	3.98	3.61	0.36	-0.47	-0.28	-0.22	-0.16	0.12	2.33	3.65
8	4.49	3.93	0.56	0.03	0.20	0.22	0.37	0.17	2.39	3.68
9	5.50	4.52	0.98	1.15	1.44	1.56	1.68	0.24	2.52	3.77
10	6.52	5.09	1.44	2.67	3.00	3.20	3.35	0.35	2.69	3.88
11	7.54	5.58	1.97	4.95	5.38	5.62	5.93	0.55	2.94	4.06
12	8.56	6.15	2.41	7.34	8.30	8.69	9.16	0.86	3.27	4.30
13	9.58	6.92	2.66	10.56	11.25	11.46	11.82	0.57	3.53	4.51
14	11.21	8.43	2.78	12.52	12.87	13.05	13.35	0.48	3.69	4.63
15	12.74	9.83	2.91	14.20	14.58	14.80	15.05	0.47	3.86	4.76
16	14.27	10.89	3.39	15.93	16.44	16.74	19.92	3.48	4.34	5.17
17	15.80	12.61	3.19	17.95	18.10	18.18	18.23	0.13	4.17	5.03
18	17.33	14.14	3.19	18.24	18.24	18.24	18.24	0.00	4.17	5.03

REMARKS:

TIME TAKEN :

(2) … P' (kg/cm^2) effective pressure obtained by (1) - (3) : P' = P - RG

(3) … RG (kg/cm^2) obtained from Rn (120) using Rg Calibration Chart.

(8) … Creep Index, I_c Obtained by (7) - (5); I_c = Rn (120) - Rn (30) in mm.

(9) … R_s inside radius obtained by the following equations:

Medium Rubber

R_s(cm) = {Rn(120) + 23.5} / 10 for P < = 10

R_s(cm) = {Rn(120) + 23.5-[P-10]/666} /10 for P>10

Hard Rubber

R_s(cm) = {Rn(120) + 23.5} / 10 for P < = 20

R_s(cm) = {Rn(120) + 23.5 - [P-20] / 400} /10 for P>20

(10) … R_o outside radius, obtained by using $R_o = (R_s^2 + A/\pi)^{1/2}$, where A = 24.63cm^2.

TEST LOCATION: **P6 KANCHPUR**

TEST DEPTH: **14M**

TEST NO.: **1**

TEST DATE: **28.02.2012**

PAGE:

N - VALUE: **37**

RUBBER TYPE:	GROUND WATER LEVEL:	N VALUE:	SOIL TYPE:
MIDIUM		**37**	**HARD PLASTIC CLAY**

PROJECT:

PREPERATORY SURVEY FOR DHAKA-CHITTAGONG NATIONAL HIGHWAY NO.1 BRIDGE CONSTRUCTION AND REHABILITION PROJECT.

CLIENT: **BANGLADESH ROADS & HIGHWAY Department**

CONSULTANT: **ORIENTAL CONSULTANTS CO. LTD**

SPECIALIST SUB-CONTRACTOR:

SURVEY2000
TEL: 8818386
Email: survey2k@yahoo.com

PRESSUREMETER TEST DATA RESULTS

No.	(1) P Mpa	(2) Rn_0 mm	(3) Rn_{30} mm	(4) Rn_{60} mm	(5) Rn_{120} mm
1	0.09	-2.14	2.14	-2.14	-2.15
2	0.14	-2.04	-1.95	-1.94	-1.93
3	0.19	-1.82	-1.80	-1.79	-1.78
4	0.24	-1.60	-1.54	-1.50	-1.44
5	0.29	-1.20	-1.15	-1.08	-1.05
6	0.34	-0.85	-0.78	-0.72	-0.65
7	0.39	-0.47	-0.28	-0.22	-0.16
8	0.44	0.03	0.20	0.22	0.37
9	0.54	1.15	1.44	1.56	1.68
10	0.64	2.67	3.00	3.20	3.35
11	0.74	4.95	5.38	5.62	5.93
12	0.84	7.34	8.30	8.69	9.16
13	0.94	10.56	11.25	11.46	11.82
14	1.1	12.52	12.87	13.05	13.35
15	1.25	14.20	14.58	14.80	15.05
16	1.4	15.93	16.44	16.74	19.92
17	1.55	17.95	18.10	18.18	18.23
18	1.7	18.24	18.24	18.24	18.24
19					
20					
21					
22					
23					
24					
25					
26					

REMARKS:

TIME TAKEN :

(2) ... P' (kg/cm^2) effective pressure obtained by (1) - (3) : P' = P - RG

(3) ... RG (kg/cm^2) obtained from Rn (120) using Rg Calibration Chart.

(8) ... Creep Index, I_c Obtained by (7) - (5); I_c = Rn (120) - Rn (30) in mm.

(9) ... R_s inside radius obtained by the following equations:

Medium Rubber

R_s(cm) = {Rn(120) + 23.5} / 10 for P < = 10

R_s(cm) = {Rn(120) + 23.5-[P-10]/666} /10 for P>10

(10) ... R_o outside radius, obtained by using $R_o = (R_s^2 + A/\pi)^{1/2}$, where A = 24.63cm^2.

TEST LOCATION:	TEST DEPTH:
P6 KANCHPUR	**14M**
TEST NO.: **1**	TEST DATE: **28.02.2012**
PAGE:	N - VALUE: **37**

RUBBER TYPE:	SOIL TYPE:
M	**HARD PLASTIC CLAY**

PROJECT:

PREPARATORY SURVEY FOR DHAKA-CHITTAGONG NATIONAL BRIDGE CONSTRUCTION AND REHABILITATION PROJECT

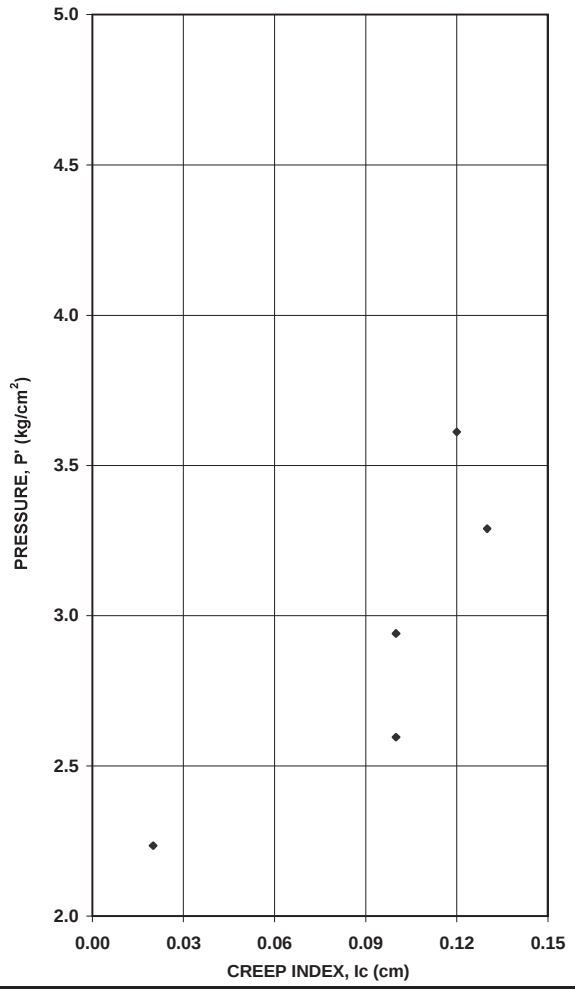
CLIENT: ORIENTAL CONSUTANTS CO.LTD

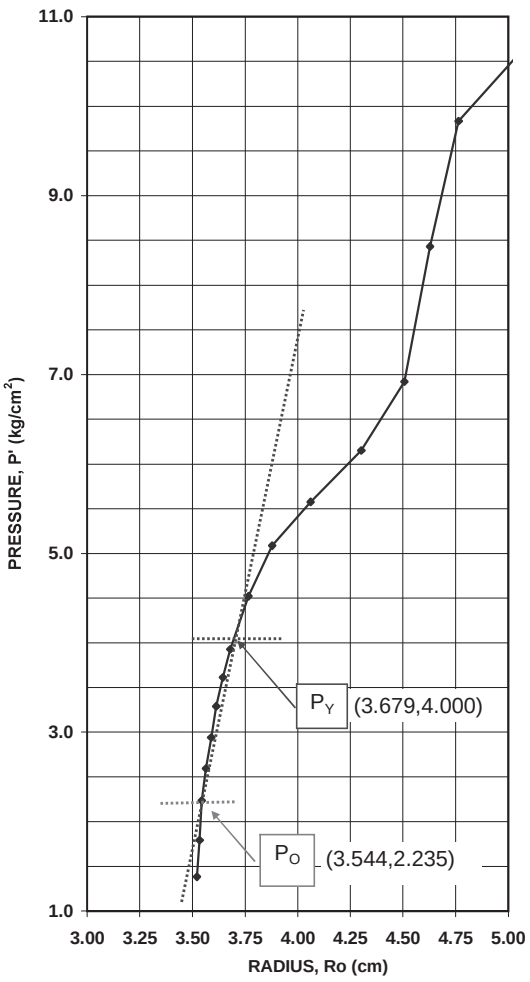
SPECIALIST SUB-CONTRACTOR:

SURVEY2000
TEL: 8818386,01711323266
Email: survey2k@yahoo.com

PRESSUREMETER TEST DATA RESULTS

NO. OF CYCLE	EARTH PRESSURE AT REST Po (kg/cm^2)	YIELD PRESSURE Py (kg/cm^2)	FAILURE PRESSURE Pf (kg/cm^2)	COEFFICIENT OF SOIL REACTION Km (kg/cm^3)	MODULUS OF ELASTICITY Em (kg/cm^2)	MEAN RADIUS OF K VALUE CALCULATION Rm (cm)
1st	2.235	4.000	-	13.074	61.382	3.612

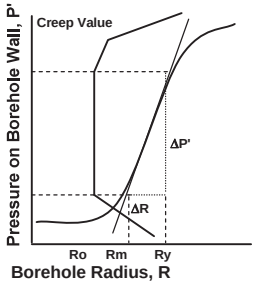




REMARKS:

Po, Po' ..... Earth Pressure at Rest
Py ,Py' ..... Yield Pressure
E = (1 + ν) . Rm . Km ..... Modulus of Elasticity
ν = 0.3

DIAGRAM:



TEST LOCATION:	TEST DEPTH:
P6 KANCHPUR	14M
TEST NO.: 1	TEST DATE: 28.02.2012

RUBBER TYPE:	N VALUE:	SOIL TYPE:
MEDIUM	37	HARD PLASTIC CLAY

SPECIALIST SUB-CONTRACTOR:
SURVEY2000
TEL: 8818386,01711323266
Email: survey2k@yahoo.com

PROJECT:
PREPARATORY SURVEY FOR DHAKA-CHITTAGONG NATIONAL HIGHWAY NO.1 BRIDGE CONSTRUCTION AND REHABILITATION PROJECT

CLIENT:	CONSULTANT:
BANGLADESH ROADS & HIGHWAY DEPARTMENT	ORIENTAL COSULTANTS CO. LTD

PRESSUREMETER TEST DATA RESULTS

No.	(1) P kg/cm^2	(2) P' = P - RG kg/cm^2	(3) RG kg/cm^2	(4) Rn_0 mm	(5) Rn_{30} mm	(6) Rn_{60} mm	(7) Rn_{120} mm	(8) Creep Index, Ic mm	(9) Rs cm	(10) Ro cm
1	2.24	2.41	-0.17	-1.49	-1.49	-1.49	-1.48	0.01	2.20	3.56
2	2.55	2.55	-0.01	-1.25	-1.16	-1.12	-1.10	0.06	2.24	3.59
3	2.85	2.62	0.23	-0.69	-0.59	-0.54	-0.51	0.08	2.30	3.62
4	3.16	2.68	0.48	0.08	0.05	0.09	0.15	0.10	2.37	3.66
5	3.67	2.75	0.92	1.19	1.35	1.40	1.46	0.11	2.50	3.75
6	4.18	2.86	1.32	2.60	2.68	2.78	2.88	0.20	2.64	3.85
7	4.69	3.20	1.49	3.30	3.40	3.48	3.58	0.18	2.71	3.90
8	5.30	3.72	1.58	3.37	3.77	3.84	3.96	0.19	2.75	3.92
9	5.91	4.25	1.66	4.09	4.18	4.23	4.32	0.14	2.78	3.95
10	6.52	4.81	1.72	4.45	4.50	4.56	4.60	0.10	2.81	3.97
11	7.14	5.36	1.78	4.73	4.80	4.84	4.90	0.10	2.84	3.99
12	8.15	6.30	1.85	5.11	5.17	5.22	5.30	0.13	2.88	4.02
13	9.17	7.24	1.94	5.59	5.64	5.68	5.77	0.13	2.93	4.05
14	10.19	8.15	2.04	6.15	6.25	6.30	6.38	0.13	2.99	4.09
15	12.23	10.06	2.17	6.90	7.10	7.20	7.25	0.15	3.08	4.16
16	13.25	10.81	2.44	7.28	7.44	9.32	9.45	2.01	3.30	4.32
17	14.27	11.62	2.65	11.10	11.26	11.50	11.65	0.39	3.52	4.49
18	15.29	12.52	2.77	12.50	12.80	12.96	13.21	0.41	3.67	4.62

REMARKS:

TIME TAKEN :

(2) … P' (kg/cm^2) effective pressure obtained by (1) - (3) : P' = P - RG

(3) … RG (kg/cm^2) obtained from Rn (120) using Rg Calibration Chart.

(8) … Creep Index, I_c Obtained by (7) - (5); I_c = Rn (120) - Rn (30) in mm.

(9) … R_s inside radius obtained by the following equations:

Medium Rubber

R_s(cm) = {Rn(120) + 23.5} / 10 for P < = 10

R_s(cm) = {Rn(120) + 23.5-[P-10]/666} /10 for P>10

Hard Rubber

R_s(cm) = {Rn(120) + 23.5} / 10 for P < = 20

R_s(cm) = {Rn(120) + 23.5 - [P-20] / 400} /10 for P>20

(10) … R_o outside radius, obtained by using $R_o = (R_s^2 + A/\pi)^{1/2}$, where A = 24.63cm^2.

TEST LOCATION:	TEST DEPTH:
P6 KANCHPUR	**21M**
TEST NO.: **2**	TEST DATE: **28.02.2012**
PAGE:	N - VALUE: **35**

RUBBER TYPE:	GROUND WATER LEVEL:	N VALUE:	SOIL TYPE:
MEDIUM		**35**	**HARD PLASTIC CLAY**

PROJECT:

PREPERATORY SURVEY FOR DHAKA-CHITTAGONG NATIONAL HIGHWAY NO.1 BRIDGE CONSTRUCTION AND REHABILITION PROJECT.

CLIENT: **BANGLADESH ROADS & HIGHWAY Department**

CONSULTANT: **ORIENTAL CONSULTANTS CO. LTD**

SPECIALIST SUB-CONTRACTOR:

SURVEY2000
TEL: 8818386
Email: survey2k@yahoo.com

PRESSUREMETER TEST DATA RESULTS

No.	(1) P Mpa	(2) Rn_0 mm	(3) Rn_{30} mm	(4) Rn_{60} mm	(5) Rn_{120} mm
1	0.22	-1.49	-1.49	-1.49	-1.48
2	0.25	-1.25	-1.16	-1.12	-1.10
3	0.28	-0.69	-0.59	-0.54	-0.51
4	0.31	0.08	0.05	0.09	0.15
5	0.36	1.19	1.35	1.40	1.46
6	0.41	2.60	2.68	2.78	2.88
7	0.46	3.30	3.40	3.48	3.58
8	0.52	3.37	3.77	3.84	3.96
9	0.58	4.09	4.18	4.23	4.32
10	0.64	4.45	4.50	4.56	4.60
11	0.7	4.73	4.80	4.84	4.90
12	0.8	5.11	5.17	5.22	5.30
13	0.9	5.59	5.64	5.68	5.77
14	1	6.15	6.25	6.30	6.38
15	1.2	6.90	7.10	7.20	7.25
16	1.3	7.28	7.44	9.32	9.45
17	1.4	11.10	11.26	11.50	11.65
18	1.5	12.50	12.80	12.96	13.21
19	1.6	14.58	14.73	14.82	14.93
20	1.75	15.97	16.08	16.14	16.30
21	1.85	17.75	17.84	17.90	18.03
22					
23					
24					
25					
26					

REMARKS:

TIME TAKEN :

(2) ... P' (kg/cm^2) effective pressure obtained by (1) - (3) : P' = P - RG

(3) ... RG (kg/cm^2) obtained from Rn (120) using Rg Calibration Chart.

(8) ... Creep Index, I_c Obtained by (7) - (5); I_c = Rn (120) - Rn (30) in mm.

(9) ... R_s inside radius obtained by the following equations:

Medium Rubber

$R_s(cm) = \{Rn(120) + 23.5\} / 10$ for P < = 10

$R_s(cm) = \{Rn(120) + 23.5-[P-10]/666\} /10$ for P>10

(10) ... R_o outside radius, obtained by using $R_o = (R_s^2 + A/\pi)^{1/2}$, where A = $24.63cm^2$.

TEST LOCATION: **P6 KANCHPUR**

TEST DEPTH: **21M**

TEST NO.: **2**

TEST DATE: **28.02.2012**

PAGE:

N - VALUE: **35**

RUBBER TYPE: **M**

SOIL TYPE: **HARD PLASTIC CLAY**

SPECIALIST SUB-CONTRACTOR:

SURVEY2000

TEL: 8818386

Email: survey2k@yahoo.com

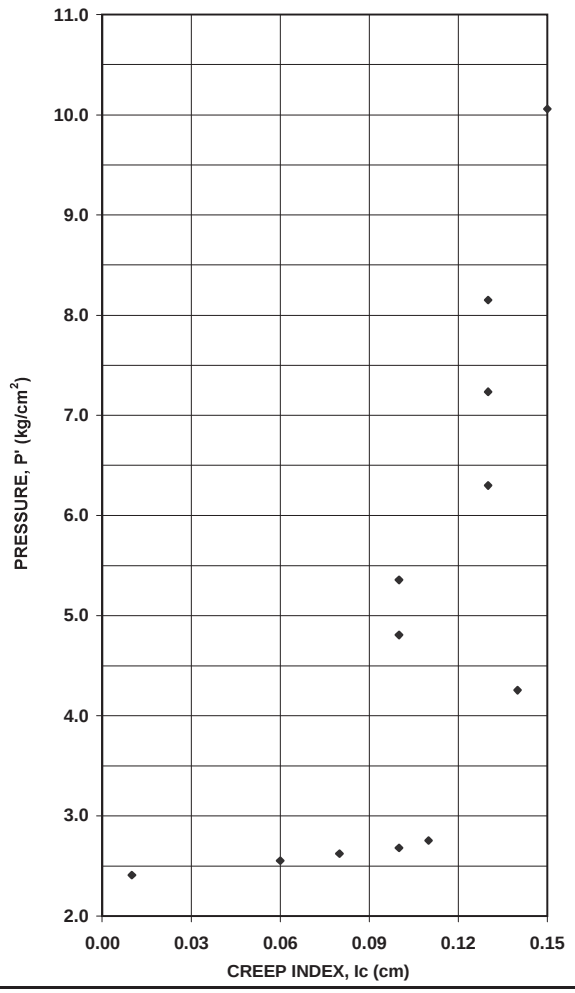
PROJECT:

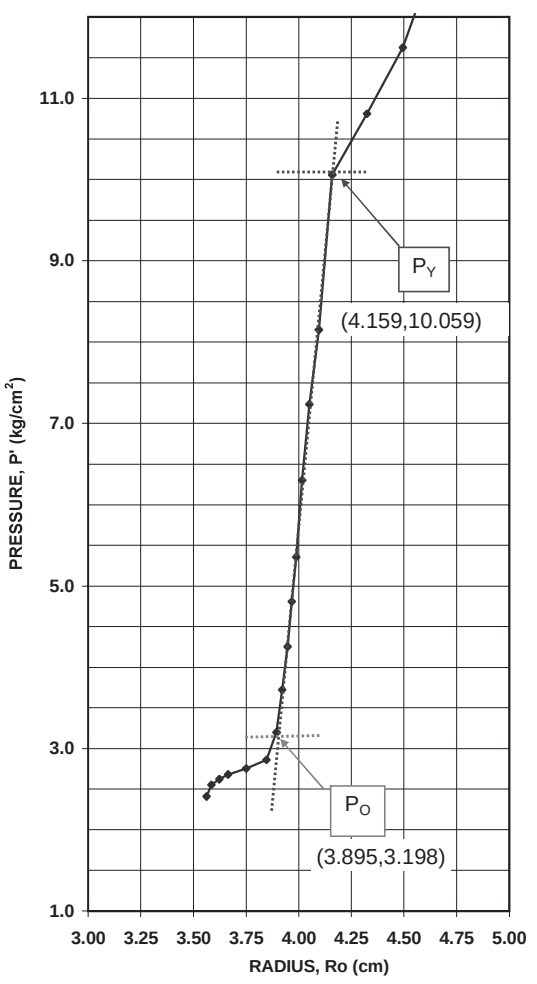
PREPARATORY SURVEY FOR DHAKA-CHITTAGONG NATIONAL BRIDGE CONSTRUCTION AND REHABILITATION PROJECT

CLIENT: ORIENTAL CONSUTANTS CO.LTD

PRESSUREMETER TEST DATA RESULTS

NO. OF CYCLE	EARTH PRESSURE AT REST Po (kg/cm^2)	YIELD PRESSURE Py (kg/cm^2)	FAILURE PRESSURE Pf (kg/cm^2)	COEFFICIENT OF SOIL REACTION Km (kg/cm^3)	MODULUS OF ELASTICITY Em (kg/cm^2)	MEAN RADIUS OF K VALUE CALCULATION Rm (cm)
1st	3.198	10.059	-	25.989	136.053	4.027

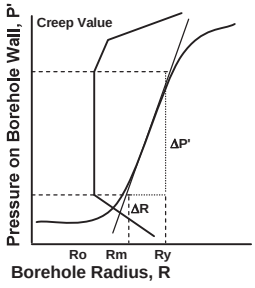




REMARKS:

Po, Po' ..... Earth Pressure at Rest
Py ,Py' ..... Yield Pressure
E = (1 + ν) . Rm . Km ..... Modulus of Elasticity
ν = 0.3

DIAGRAM:



TEST LOCATION:	TEST DEPTH:
P6 KANCHPUR	21M
TEST NO.: 2	TEST DATE: 28.02.2012

RUBBER TYPE:	N VALUE:	SOIL TYPE:
MEDIUM	35	HARD PLASTIC CLAY

SPECIALIST SUB-CONTRACTOR:
SURVEY2000
TEL: 8818386
Email: survey2k@yahoo.com

PROJECT:
PREPARATORY SURVEY FOR DHAKA-CHITTAGONG NATIONAL HIGHWAY NO.1 BRIDGE CONSTRUCTION AND REHABILITATION PROJECT

CLIENT:	CONSULTANT:
BANGLADESH ROADS & HIGHWAY DEPARTMENT	ORIENTAL COSULTANTS CO. LTD

PRESSUREMETER TEST DATA RESULTS

No.	(1) P kg/cm^2	(2) P' = P - RG kg/cm^2	(3) RG kg/cm^2	(4) Rn_0 mm	(5) Rn_{30} mm	(6) Rn_{60} mm	(7) Rn_{120} mm	(8) Creep Index, Ic mm	(9) Rs cm	(10) Ro cm
1	1.43	2.02	-0.59	-2.48	-2.46	-2.46	-2.42	0.04	2.11	3.50
2	1.73	2.22	-0.48	-2.28	-2.25	-2.25	-2.19	0.06	2.13	3.52
3	2.04	2.31	-0.27	-2.00	-1.86	-1.84	-1.72	0.14	2.18	3.55
4	2.34	2.44	-0.10	-1.63	-1.57	-1.41	-1.32	0.25	2.22	3.57
5	2.65	2.55	0.10	-1.18	-1.07	-0.99	-0.85	0.22	2.27	3.60
6	2.96	2.64	0.31	-0.62	-0.50	-0.40	-0.30	0.20	2.32	3.64
7	3.47	2.82	0.64	0.14	0.29	0.39	0.62	0.33	2.41	3.70
8	3.98	2.94	1.03	1.14	1.49	1.66	1.85	0.36	2.54	3.78
9	4.49	3.09	1.40	2.42	2.88	3.01	3.19	0.31	2.67	3.87
10	4.99	3.26	1.73	4.05	4.40	4.54	4.68	0.28	2.82	3.97
11	5.50	3.47	2.04	5.65	6.08	6.22	6.34	0.26	2.98	4.09
12	6.32	4.05	2.27	7.39	7.60	7.74	7.99	0.39	3.15	4.21
13	7.14	4.73	2.41	8.62	8.75	8.91	9.13	0.38	3.26	4.30
14	7.95	5.45	2.50	9.66	9.79	9.90	10.01	0.22	3.35	4.37
15	8.77	6.19	2.58	10.12	10.57	10.67	10.86	0.29	3.44	4.43

REMARKS:

TIME TAKEN :

(2) … P' (kg/cm^2) effective pressure obtained by (1) - (3) : P' = P - RG

(3) … RG (kg/cm^2) obtained from Rn (120) using Rg Calibration Chart.

(8) … Creep Index, I_c Obtained by (7) - (5); I_c = Rn (120) - Rn (30) in mm.

(9) … R_s inside radius obtained by the following equations:

Medium Rubber

R_s(cm) = {Rn(120) + 23.5} / 10 for P < = 10

R_s(cm) = {Rn(120) + 23.5-[P-10]/666} /10 for P>10

Hard Rubber

R_s(cm) = {Rn(120) + 23.5} / 10 for P < = 20

R_s(cm) = {Rn(120) + 23.5 - [P-20] / 400} /10 for P>20

(10) … R_o outside radius, obtained by using $R_o = (R_s^2 + A/\pi)^{1/2}$, where A = 24.63cm^2.

TEST LOCATION:	TEST DEPTH:
P7 KANCHPUR	**17m**
TEST NO.: **1**	TEST DATE: **27.02.2012**
PAGE:	N - VALUE: **20**

RUBBER TYPE:	GROUND WATER LEVEL:	N VALUE:	SOIL TYPE:
MEDIUM		**20**	**HARD PLASTIC CLAY**

SPECIALIST SUB-CONTRACTOR:

SURVEY2000

TEL: 8818386

Email: survey2k@yahoo.com

PROJECT:

PREPERATORY SURVEY FOR DHAKA-CHITTAGONG NATIONAL HIGHWAY NO.1 BRIDGE CONSTRUCTION AND REHABILITION PROJECT.

CLIENT:	CONSULTANT:
BANGLADESH ROADS & HIGHWAY Department	**ORIENTAL CONSULTANTS CO. LTD**

PRESSUREMETER TEST DATA RESULTS

No.	(1) P Mpa	(2) Rn_0 mm	(3) Rn_{30} mm	(4) Rn_{60} mm	(5) Rn_{120} mm
1	0.14	-2.480	-2.460	-2.460	-2.420
2	0.17	-2.280	-2.250	-2.250	-2.190
3	0.2	-2.000	-1.860	-1.840	-1.720
4	0.23	-1.630	-1.570	-1.410	-1.320
5	0.26	-1.180	-1.070	-0.990	-0.850
6	0.29	-0.620	-0.500	-0.400	-0.300
7	0.34	0.140	0.290	0.390	0.620
8	0.39	1.140	1.490	1.660	1.850
9	0.44	2.420	2.880	3.010	3.190
10	0.49	4.050	4.400	4.540	4.680
11	0.54	5.650	6.080	6.220	6.340
12	0.62	7.390	7.600	7.740	7.990
13	0.7	8.620	8.750	8.910	9.130
14	0.78	9.660	9.790	9.900	10.010
15	0.86	10.120	10.570	10.670	10.860
16					
17					
18					
19					
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23					
24					
25					
26					

REMARKS:

TIME TAKEN :

(2) ... P' (kg/cm^2) effective pressure obtained by (1) - (3) : P' = P - RG

(3) ... RG (kg/cm^2) obtained from Rn (120) using Rg Calibration Chart.

(8) ... Creep Index, I_c Obtained by (7) - (5); I_c = Rn (120) - Rn (30) in mm.

(9) ... R_s inside radius obtained by the following equations:

Medium Rubber

$R_s(cm) = \{Rn(120) + 23.5\} / 10$ for P < = 10

$R_s(cm) = \{Rn(120) + 23.5-[P-10]/666\} /10$ for P>10

(10) ... R_o outside radius, obtained by using $R_o = (R_s^2 + A/\pi)^{1/2}$, where $A = 24.63cm^2$.

TEST LOCATION:	TEST DEPTH:
P7 KANCHPUR	**17m**
TEST NO.: **1**	TEST DATE: **27.02.2012**
PAGE:	N - VALUE: **20**

RUBBER TYPE:	SOIL TYPE:
M	**HARD PLASTIC CLAY**

PROJECT:

PREPARATORY SURVEY FOR DHAKA-CHITTAGONG NATIONAL BRIDGE CONSTRUCTION AND REHABILITATION PROJECT

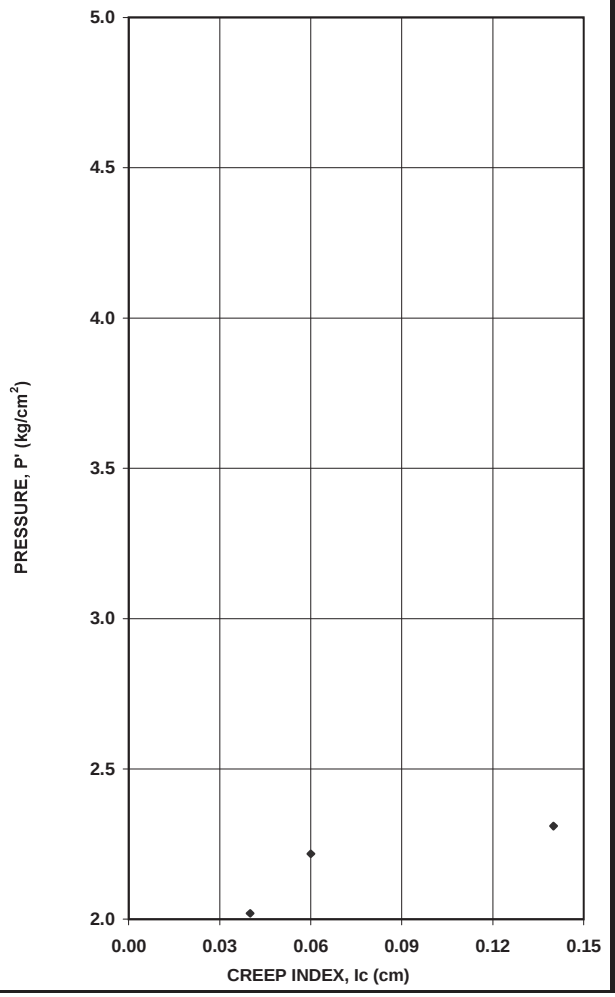
CLIENT: ORIENTAL CONSUTANTS CO.LTD

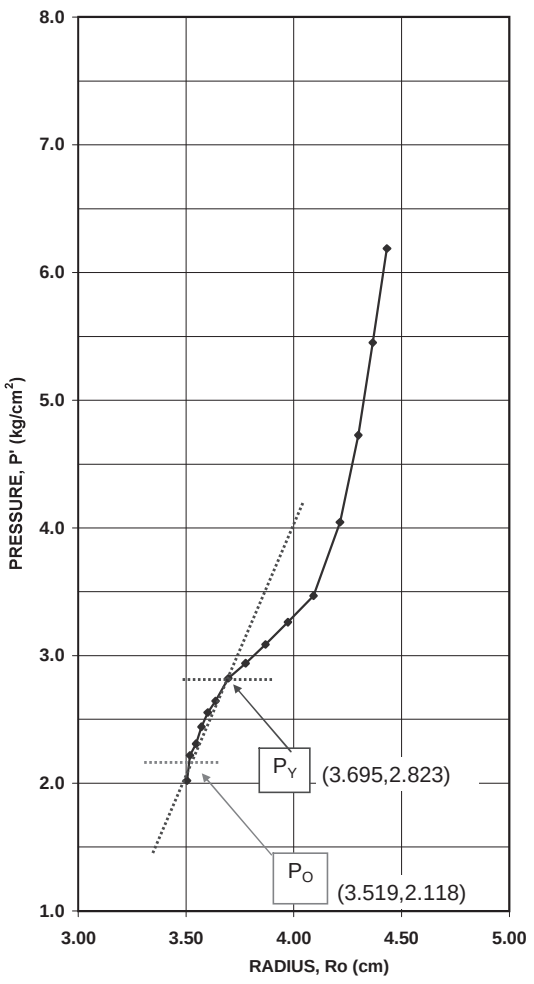
SPECIALIST SUB-CONTRACTOR:

SURVEY2000
TEL: 8818386
Email: survey2k@yahoo.com

PRESSUREMETER TEST DATA RESULTS

NO. OF CYCLE	EARTH PRESSURE AT REST Po (kg/cm^2)	YIELD PRESSURE Py (kg/cm^2)	FAILURE PRESSURE Pf (kg/cm^2)	COEFFICIENT OF SOIL REACTION Km (kg/cm^3)	MODULUS OF ELASTICITY Em (kg/cm^2)	MEAN RADIUS OF K VALUE CALCULATION Rm (cm)
1st	2.118	2.823	-	4.006	18.783	3.607





REMARKS:

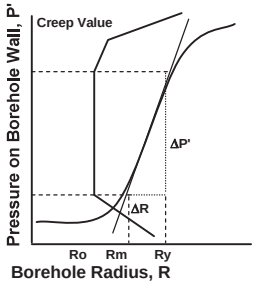
Po, Po' …… Earth Pressure at Rest

Py ,Py' …… Yield Pressure

E = (1 + ν) . Rm . Km …….. Modulus of Elasticity

ν = 0.3

DIAGRAM:



RUBBER TYPE:	N VALUE:	SOIL TYPE:
MEDIUM	20	HARD PLASTIC CLAY

TEST LOCATION:	TEST DEPTH:
P7 KANCHPUR	17m
TEST NO.: 1	TEST DATE: 27.02.2012

PROJECT:
PREPARATORY SURVEY FOR DHAKA-CHITTAGONG NATIONAL HIGHWAY NO.1 BRIDGE CONSTRUCTION AND REHABILITATION PROJECT

CLIENT:
BANGLADESH ROADS & HIGHWAY DEPARTMENT

CONSULTANT:
ORIENTAL COSULTANTS CO. LTD

SURVEY2000
TEL: 8818386
Email: survey2k@yahoo.com

PRESSUREMETER TEST DATA RESULTS

No.	(1) P kg/cm^2	(2) P' = P - RG kg/cm^2	(3) RG kg/cm^2	(4) Rn_0 mm	(5) Rn_{30} mm	(6) Rn_{60} mm	(7) Rn_{120} mm	(8) Creep Index, Ic mm	(9) Rs cm	(10) Ro cm
1	2.04	2.28	-0.24	-1.66	-1.65	-1.65	-1.65	0.00	2.19	3.55
2	2.55	2.70	-0.15	-1.46	-1.45	-1.45	-1.44	0.01	2.21	3.56
3	3.06	3.10	-0.04	-1.30	-1.23	-1.21	-1.19	0.04	2.23	3.58
4	3.57	3.49	0.08	-1.03	-0.96	-0.93	-0.89	0.07	2.26	3.60
5	4.08	3.84	0.24	-0.69	-0.60	-0.52	-0.49	0.11	2.30	3.62
6	4.59	4.20	0.39	-0.29	-0.18	-0.12	-0.09	0.09	2.34	3.65
7	5.10	4.53	0.57	0.22	0.29	0.38	0.40	0.11	2.39	3.68
8	5.61	4.84	0.76	0.68	0.87	0.93	0.98	0.11	2.45	3.72
9	6.12	5.13	0.98	1.38	1.54	1.60	1.68	0.14	2.52	3.77
10	6.93	5.59	1.34	2.49	2.80	2.84	2.98	0.18	2.65	3.85
11	7.75	6.02	1.73	3.99	4.32	4.46	4.67	0.35	2.82	3.97
12	8.36	6.30	2.06	5.78	6.09	6.33	6.50	0.41	3.00	4.10
13	9.17	6.70	2.47	8.55	9.06	9.47	9.75	0.69	3.33	4.35
14	10.19	7.35	2.85	12.93	13.47	13.79	14.20	0.73	3.77	4.70
15	11.21	8.20	3.01	15.50	16.10	16.22	16.30	0.20	3.98	4.87
16	11.72	8.71	3.02	16.32	16.34	16.34	16.35	0.01	3.99	4.87
17	12.23	9.19	3.04	16.55	16.58	16.63	16.64	0.06	4.01	4.89
18	12.74	9.66	3.09	16.82	16.89	16.99	17.15	0.26	4.07	4.94
19	13.25	10.13	3.12	17.33	17.40	17.45	17.50	0.10	4.10	4.96
20	14.27	11.12	3.15	17.76	17.81	17.84	17.86	0.05	4.14	4.99

REMARKS:

TIME TAKEN :

(2) … P' (kg/cm^2) effective pressure obtained by (1) - (3) : P' = P - RG

(3) … RG (kg/cm^2) obtained from Rn (120) using Rg Calibration Chart.

(8) … Creep Index, I_c Obtained by (7) - (5); I_c = Rn (120) - Rn (30) in mm.

(9) … R_s inside radius obtained by the following equations:

Medium Rubber

R_s(cm) = {Rn(120) + 23.5} / 10 for P < = 10

R_s(cm) = {Rn(120) + 23.5-[P-10]/666} /10 for P>10

Hard Rubber

R_s(cm) = {Rn(120) + 23.5} / 10 for P < = 20

R_s(cm) = {Rn(120) + 23.5 - [P-20] / 400} /10 for P>20

(10) … R_o outside radius, obtained by using $R_o = (R_s^2 + A/\pi)^{1/2}$, where A = 24.63cm^2.

TEST LOCATION:	TEST DEPTH:
P7 KANCHPUR	**24m**
TEST NO.: **2**	TEST DATE: **27.02.2012**
PAGE:	N - VALUE: **50**

RUBBER TYPE:	GROUND WATER LEVEL:	N VALUE:	SOIL TYPE:
MEDIUM		**50**	**HARD NON PLASTIC SILT**

SPECIALIST SUB-CONTRACTOR:

SURVEY2000

TEL: 8818386

Email: survey2k@yahoo.com

PROJECT:

PREPERATORY SURVEY FOR DHAKA-CHITTAGONG NATIONAL HIGHWAY NO.1 BRIDGE CONSTRUCTION AND REHABILITION PROJECT.

CLIENT:	CONSULTANT:
BANGLADESH ROADS & HIGHWAY Department	**ORIENTAL CONSULTANTS CO. LTD**

PRESSUREMETER TEST DATA RESULTS

No.	(1) P Mpa	(2) Rn_0 mm	(3) Rn_{30} mm	(4) Rn_{60} mm	(5) Rn_{120} mm
1	0.2	-1.66	-1.65	-1.65	-1.65
2	0.25	-1.46	-1.45	-1.45	-1.44
3	0.3	-1.30	-1.23	-1.21	-1.19
4	0.35	-1.03	-0.96	-0.93	-0.89
5	0.4	-0.69	-0.60	-0.52	-0.49
6	0.45	-0.29	-0.18	-0.12	-0.09
7	0.5	0.22	0.29	0.38	0.40
8	0.55	0.68	0.87	0.93	0.98
9	0.6	1.38	1.54	1.60	1.68
10	0.68	2.49	2.80	2.84	2.98
11	0.76	3.99	4.32	4.46	4.67
12	0.82	5.78	6.09	6.33	6.50
13	0.9	8.55	9.06	9.47	9.75
14	1	12.93	13.47	13.79	14.20
15	1.1	15.50	16.10	16.22	16.30
16	1.15	16.32	16.34	16.34	16.35
17	1.2	16.55	16.58	16.63	16.64
18	1.25	16.82	16.89	16.99	17.15
19	1.3	17.33	17.40	17.45	17.50
20	1.4	17.76	17.81	17.84	17.86
21					
22					
23					
24					
25					
26					

REMARKS:

TIME TAKEN :

(2) ... P' (kg/cm^2) effective pressure obtained by (1) - (3) : P' = P - RG

(3) ... RG (kg/cm^2) obtained from Rn (120) using Rg Calibration Chart.

(8) ... Creep Index, I_c Obtained by (7) - (5); I_c = Rn (120) - Rn (30) in mm.

(9) ... R_s inside radius obtained by the following equations:

Medium Rubber

$R_s(cm) = \{Rn(120) + 23.5\} / 10$ for P < = 10

$R_s(cm) = \{Rn(120) + 23.5-[P-10]/666\} /10$ for P>10

(10) ... R_o outside radius, obtained by using $R_o = (R_s^2 + A/\pi)^{1/2}$, where A = $24.63cm^2$.

TEST LOCATION:	TEST DEPTH:
P7 KANCHPUR	**24m**
TEST NO.: **2**	TEST DATE: **27.02.2012**
PAGE:	N - VALUE: **50**

RUBBER TYPE:	SOIL TYPE:
M	**HARD NON PLASTIC SILT**

PROJECT:

PREPARATORY SURVEY FOR DHAKA-CHITTAGONG NATIONAL BRIDGE CONSTRUCTION AND REHABILITATION PROJECT

CLIENT: ORIENTAL CONSUTANTS CO.LTD

SPECIALIST SUB-CONTRACTOR:

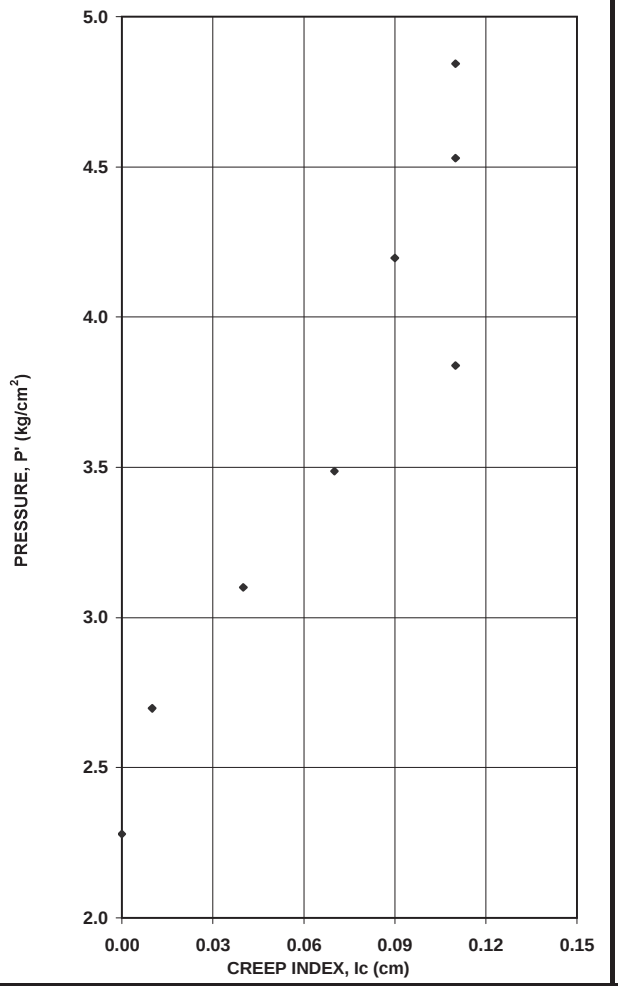
SURVEY2000

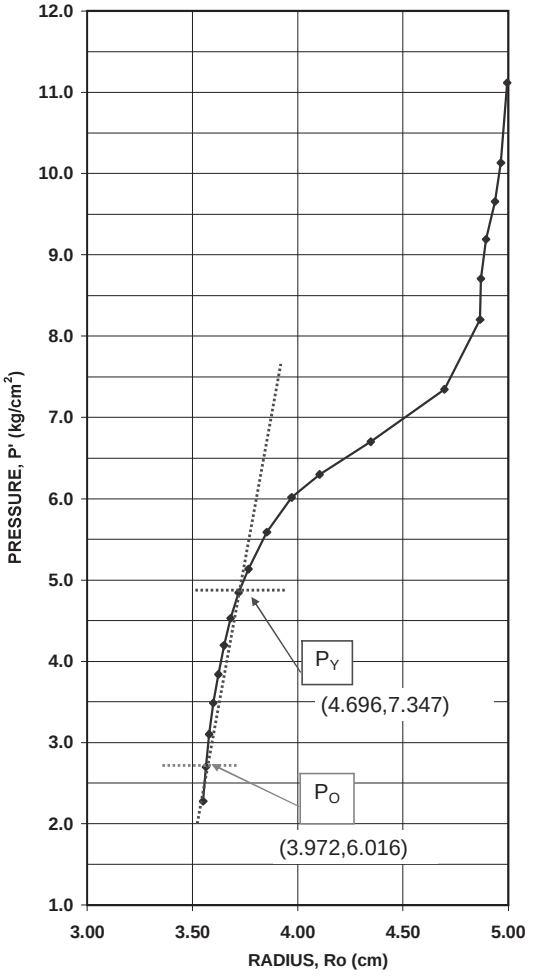
TEL: 8818386

Email: survey2k@yahoo.com

PRESSUREMETER TEST DATA RESULTS

NO. OF CYCLE	EARTH PRESSURE AT REST Po (kg/cm^2)	YIELD PRESSURE Py (kg/cm^2)	FAILURE PRESSURE Pf (kg/cm^2)	COEFFICIENT OF SOIL REACTION Km (kg/cm^3)	MODULUS OF ELASTICITY Em (kg/cm^2)	MEAN RADIUS OF K VALUE CALCULATION Rm (cm)
1st	2.692	4.843	-	13.877	65.695	3.642





REMARKS:

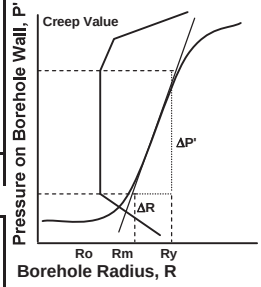
Po, Po' …… Earth Pressure at Rest

Py ,Py' …… Yield Pressure

E = (1 + ν) . Rm . Km …….. Modulus of Elasticity

ν = 0.3

DIAGRAM:



RUBBER TYPE:	N VALUE:	SOIL TYPE:
MEDIUM	50	HARD NON PLASTIC SILT

TEST LOCATION:	TEST DEPTH:
P7 KANCHPUR	24m
TEST NO.: 2	TEST DATE: 27.02.2012

PROJECT:
PREPARATORY SURVEY FOR DHAKA-CHITTAGONG NATIONAL HIGHWAY NO.1 BRIDGE CONSTRUCTION AND REHABILITATION PROJECT

CLIENT:
BANGLADESH ROADS & HIGHWAY DEPARTMENT

CONSULTANT:
ORIENTAL COSULTANTS CO. LTD

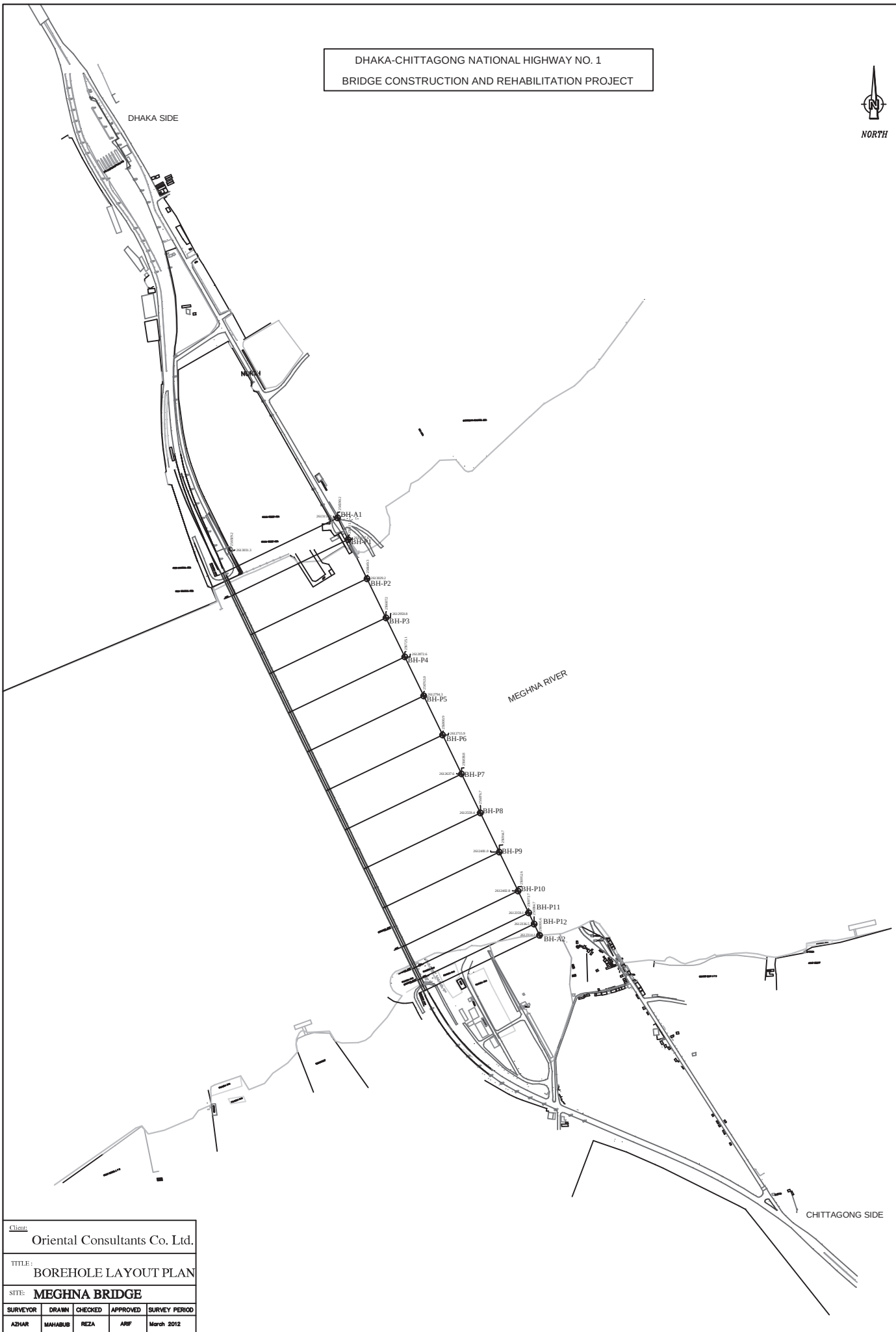
SURVEY2000
TEL: 8818386
Email: survey2k@yahoo.com

MEGHNA BRIDGE

BORE HOLE LOCATION MAP

DHAKA-CHITTAGONG NATIONAL HIGHWAY NO. 1

BRIDGE CONSTRUCTION AND REHABILITATION PROJECT



Client: Oriental Consultants Co. Ltd.				
TITLE : BOREHOLE LAYOUT PLAN				
SITE: MEGHNA BRIDGE				
SURVEYOR	DRAWN	CHECKED	APPROVED	SURVEY PERIOD
AZHAR	MAHABUB	REZA	ARIF	March 2012
SURVEYED BY: SURVEY 2000	Road # 15, House # 54 Block # D, Banani, Dhaka Phone : 8818386/8852497 Mobile : 01711 323266			
PRINTING SCALE: 1:10,000	DRG. NO: 142	SHEET NO: 1		

BORE LOGS

Project : Construction of Meghna Bridge	Client : Oriental Consultants Co. Ltd.
Bore Hole No. : A1 Method of Boring : Percussion Boring Dia. : 100mm Depth of Boring : 52.0m	Existing Ground Level : +4.86m Ground/ Water Level : -0.62m Date Started : 06-03-2012 Date Completed : 08-03-2012 Legend : SAND SILT CLAY Co-ordinates :

Location of Boring : Meghnaghat

Depth below G.L (m)	Type of Sample	Sample No.		Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	Blows on spoon: 15 cm penetration	15 cm penetration	15 cm penetration	N-Values	Graphical Representation (10 20 30 40 50 60)
1.0		D1		6.0	Very loose to medium dense Brown to light brown silty very fine SAND with trace of mica		1.0	1	0	1	1	
2.0		D2					2.0	4	5	6	11	
3.0		D3					3.0	5	6	7	13	
4.0		D4					4.0	2	3	5	8	
5.0		D5					5.0	2	4	6	10	
6.0		D6					6.0	2	4	7	11	
7.0		D7					7.0	2	3	6	9	
8.0		D8			Loose to medium dense Grey to brown silty very fine SAND with trace of mica		8.0	2	4	7	11	
9.0		D9		16.0			9.0	2	4	6	10	
10.0		D10					10.0	2	5	6	11	
11.0		D11					11.0	3	6	7	13	
12.0		D12					12.0	3	6	7	13	
13.0		D13					13.0	2	5	6	11	
14.0		D14					14.0	3	4	7	11	
15.0		D15					15.0	2	3	5	8	
16.0		D16					16.0	2	4	5	9	
17.0		D17					17.0	3	4	6	10	
18.0		D18					18.0	3	5	7	12	
19		D19					19.0	3	6	9	15	
20.0		D20					20.0	4	5	6	11	

Note : Boring Terminated at 52.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....

Logged by : Azhar
Check by : Mahabub

Project : Construction of Meghna Bridge	Client : Oriental Consultants Co. Ltd.
Bore Hole No. : A1 Method of Boring : Percussion Boring Dia. : 100mm Depth of Boring : 52.0m	Existing Ground Level : +4.86m Ground/ Water Level : -0.62m Date Started : 06-03-2012 Date Completed : 08-03-2012 Legend : SAND SILT CLAY Co-ordinates :

Location of Boring : Meghnaghat

Depth below G.L (m)	Type of Sample	Sample No.		Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	Blows on spoon: 15 cm penetration	15 cm penetration	15 cm penetration	N-Values	Graphical Representation (10 20 30 40 50 60)
21.0		D21			Loose to medium dense Grey to brown silty fine SAND with trace of mica		21.0	4	7	10	17	
22.0		D22					22.0	5	7	8	15	
23.0		D23					23.0	5	8	8	16	
24.0		D24					24.0	6	8	9	17	
25.0		D25		10.0	Medium dense to dense Light grey silty very fine SAND with trace of mica		25.0	6	10	12	22	
26.0		D26					26.0	7	11	15	26	
27.0		D27					27.0	8	14	21	35	
28.0		D28					28.0	8	14	23	47	
29.0		D29					29.0	9	15	28	43	
30.0		D30					30.0	10	16	32	48	
31.0		D31					31.0	10	15	27	42	
32.0		D32					32.0	9	15	20	35	
33.0		D33			Medium stiff Grey medium plastic CLAY		33.0	2	3	3	6	
34.0		D34		4.0			34.0	2	3	4	7	
35.0		D35					35.0	2	4	4	8	
36.0		D36					36.0	3	4	5	9	
37.0		D37		3.0	Medium stiff to stiff Black high plastic CLAY with organic		37.0	3	3	4	7	
38.0		D38					38.0	3	4	5	9	
39.0		D39					39.0	3	4	6	10	
40.0		D40					40.0	6	10	14	24	

Note : Boring Terminated at 52.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....

Logged by : Azhar
Check by : Mahabub

Project : Construction of Meghna Bridge	Client : Oriental Consultants Co. Ltd.
Bore Hole No. : A1 Method of Boring : Percussion Boring Dia. : 100mm Depth of Boring : 52.0m	Existing Ground Level : +4.86m Ground/ Water Level : -0.62m Date Started : 06-03-2012 Date Completed : 08-03-2012 Legend : SAND SILT CLAY Co-ordinates :

Location of Boring : Meghnaghat

Depth below G.L (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	Blows on spoon: 15 cm penetration	15 cm penetration	15 cm penetration	N-Values
41.0		D41	6.0	Very stiff Brown to reddish brown high plastic CLAY		41.0	7	11	16	27
42.0		D42				42.0	10	12	16	28
43.0		D43				43.0	11	14	18	32
44.0		D44				44.0	5	9	14	23
45.0		D45				45.0	6	10	16	26
46.0		D46				46.0	7	11	18	29
47.0		D47	6.0	Dense to very dense Reddish brown to yellowish brown silty very fine SAND with few clay and trace of mica		47.0	8	12	20	32
48.0		D48				48.0	20	27	23	50
49.0		D49				49.0	25	32	18	50
50.0		D50				50.0	30	35	15	50
51.0		D51				51.0	40	50	0	50
52.0		D52				52.0	45	50	0	50
53.0		D53		End of Boring						
54.0		D54								
55.0		D55								
56.0		D56								
57.0		D57								
58.0		D58								
59.0		D59								
60.0		D60								

Graphical Representation: 10 20 30 40 50 60

Note : Boring Terminated at 52.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Logged by : Azhar
Check by : Mahabub

Project : Construction of Meghna Bridge	Client : Oriental Consultants Co. Ltd.
Bore Hole No. : P1 Method of Boring : Percussion Boring Dia. : 100mm Depth of Boring : 53.0m	Existing Ground Level : +4.21m Ground/ Water Level : -0.81m Date Started : 05-03-2012 Date Completed : 09-03-2012 Legend : SAND SILT CLAY Co-ordinates :

Location of Boring : Meghnaghat

Depth below G.L (m)	Type of Sample	Sample No.		Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	Blows on spoon: 15 cm penetration	15 cm penetration	15 cm penetration	N-Values	Graphical Representation (10 20 30 40 50 60)
1.0		D1		4.0	Dense Light grey fine SAND with rubbish		1.0	10	16	20	36	
2.0		D2					2.0	0	0	0	00	
3.0		D3					3.0	0	0	0	00	
4.0		D4					4.0	0	0	0	00	
5.0		D5		21.0	Medium dense Grey to light grey fine SAND with trace of mica		5.0	4	5	6	11	
6.0		D6					6.0	4	5	8	13	
7.0		D7					7.0	5	6	10	16	
8.0		D8					8.0	3	6	6	12	
9.0		D9					9.0	3	6	6	12	
10.0		D10					10.0	4	4	3	7	
11.0		D11					11.0	4	7	9	16	
12.0		D12					12.0	4	5	7	12	
13.0		D13					13.0	5	6	7	13	
14.0		D14					14.0	4	5	9	14	
15.0		D15					15.0	4	5	6	11	
16.0		D16					16.0	5	6	8	14	
17.0		D17					17.0	6	7	9	16	
18.0		D18					18.0	5	5	6	11	
19		D19					19.0	5	6	7	13	
20.0		D20					20.0	5	7	7	14	

Note : Boring Terminated at 53.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....

Logged by : Azhar
Check by : Mahabub

Project : Construction of Meghna Bridge	Client : Oriental Consultants Co. Ltd.
Bore Hole No. : P1 Method of Boring : Percussion Boring Dia. : 100mm Depth of Boring : 53.0m	Existing Ground Level : +4.21m Ground/ Water Level : -0.81m Date Started : 05-03-2012 Date Completed : 09-03-2012 Legend : SAND SILT CLAY Co-ordinates :

Location of Boring : Meghnaghat

Depth below G.L (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	Blows on spoon: 15 cm penetration	15 cm penetration	15 cm penetration	N-Values
21.0		D21		Medium dense Grey to light grey fine SAND with trace of mica		21.0	5	7	8	15
22.0		D22				22.0	6	8	10	18
23.0		D23				23.0	6	9	10	19
24.0		D24				24.0	6	10	11	21
25.0		D25				25.0	6	8	10	18
26.0		D26	7.0	Dense to very dense Grey fine SAND with trace of mica		26.0	18	15	21	36
27.0		D27				27.0	12	20	30	50
28.0		D28				28.0	13	20	28	48
29.0		D29				29.0	17	24	25	49
30.0		D30				30.0	18	26	24	50
31.0		D31				31.0	18	25	25	50
32.0		D32				32.0	19	26	24	50
33.0		D33	7.0	Medium stiff Grey to dark grey medium to high plastic CLAY with organic matter		33.0	1	2	3	5
34.0		D34				34.0	1	2	3	5
35.0		D35				35.0	1	2	4	6
36.0		D36				36.0	1	2	3	5
37.0		D37				37.0	2	3	4	7
38.0		D38				38.0	3	4	5	9
39.0		D39				39.0	2	3	4	7
40.0		D40				40.0	6	10	15	25

Graphical Representation: 10 20 30 40 50 60

For 250mm penetratiom

Note : Boring Terminated at 53.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....

Logged by : Azhar
Check by : Mahabub

Project : Construction of Meghna Bridge	Client : Oriental Consultants Co. Ltd.
Bore Hole No. :P1 Method of Boring : Percussion Boring Dia. : 100mm Depth of Boring : 53.0m	Existing Ground Level :+4.21m Ground/ Water Level : -0.81m Date Started : 05-03-2012 Date Completed : 09-03-2012 Legend : SAND SILT CLAY Co-ordinates :

Location of Boring : Meghnaghat

Depth below G.L (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	Blows on spoon: 15 cm penetration	15 cm penetration	15 cm penetration	N-Values	Graphical Representation (10 20 30 40 50 60)
41.0		D41	5.0	Very Stiff Light grey high plastic CLAY		41.0	7	9	13	22	
42.0		D42				42.0	8	9	12	21	
43.0		D43				43.0	7	9	13	22	
44.0		D44				44.0	6	9	15	24	
45.0		D45	2.0	Very Stiff Yellowish brown high plastic CLAY		45.0	5	8	17	25	
46.0		D46				46.0	7	10	18	28	
47.0		D47	7.0	Dense to very dense Reddish to yellowish brown fine SAND with trace of mica		47.0	8	12	21	33	
48.0		D48				48.0	15	30	20	50	For 225mm penetration
49.0		D49				49.0	20	25	25	50	For 200mm penetration
50.0		D50				50.0	22	29	21	50	For 175mm penetration
51.0		D51				51.0	30	50	-	50	For 125mm penetration
52.0		D52				52.0	27	41	9	50	For 150mm penetration
53.0		D53				53.0	28	30	20	50	For 175mm penetration
54.0		D54		End of Boring							
55.0		D55									
56.0		D56									
57.0		D57									
58.0		D58									
59.0		D59									
60.0		D60									

Note : Boring Terminated at 53.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Logged by : Azhar
Check by : Mahabub

Project : Construction of Meghna Bridge	Client : Oriental Consultants Co. Ltd.
Bore Hole No. : P2 Method of Boring : Percussion Boring Dia. : 100mm Depth of Boring : 50.0m	Existing Ground Level : -7.17m Ground/ Water Level : -0.47m Date Started : 05-03-2012 Date Completed : 09-03-2012 Legend : SAND SILT CLAY Co-ordinates :

Location of Boring : Meghnaghat

Depth below G.L (m)	Type of Sample	Sample No.		Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	Blows on spoon: 15 cm penetration	15 cm penetration	15 cm penetration	N-Values	Graphical Representation (10 20 30 40 50 60)
1.0		D1		17.0	Loose to medium dense Grey fine SAND with trace of mica		1.0	2	2	3	5	
2.0		D2					2.0	2	3	4	7	
3.0		D3					3.0	1	2	3	5	
4.0		D4					4.0	2	3	3	6	
5.0		D5					5.0	3	4	5	9	
6.0		D6					6.0	2	4	6	10	
7.0		D7					7.0	3	3	5	8	
8.0		D8					8.0	3	3	4	7	
9.0		D9					9.0	4	5	6	11	
10.0		D10					10.0	6	7	8	15	
11.0		D11					11.0	6	7	8	15	
12.0		D12					12.0	3	7	10	17	
13.0		D13					13.0	3	7	12	19	
14.0		D14					14.0	6	10	12	22	
15.0		D15					15.0	5	7	11	18	
16.0		D16					16.0	5	8	12	20	
17.0		D17					17.0	5	9	14	23	
18.0		D18		4.0	Very dense Grey fine SAND with trace of mica		18.0	7	22	28	50	For 275mm penetration
19		D19					19.0	12	30	20	50	For 275mm penetration
20.0		D20					20.0	10	21	29	50	

Note : Boring Terminated at 50.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....

Logged by : Azhar
Check by : Mahabub

Project : Construction of Meghna Bridge	Client : Oriental Consultants Co. Ltd.
Bore Hole No. : P2 Method of Boring : Percussion Boring Dia. : 100mm Depth of Boring : 50.0m	Existing Ground Level : -7.17m Ground/ Water Level : -0.47m Date Started : 05-03-2012 Date Completed : 09-03-2012 Legend : SAND SILT CLAY Co-ordinates :

Location of Boring : Meghnaghat

Depth below G.L (m)	Type of Sample	Sample No.		Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	Blows on spoon: 15 cm penetration	15 cm penetration	15 cm penetration	N-Values	Graphical Representation (10 20 30 40 50 60)
21.0		D21					21.0	13	26	24	50	For 275mm penetration
22.0		D22			Soft to medium stiff Grey medium plastic CLAY		22.0	1	2	3	5	
23.0		D23		9.0			23.0	1	3	3	6	
24.0		D24					24.0	1	2	2	4	
25.0		D25					25.0	1	1	2	3	
26.0		D26					26.0	1	2	3	5	
27.0		D27					27.0	2	3	4	7	
28.0		D28					28.0	2	3	5	8	
29.0		D29					29.0	2	3	3	6	
30.0		D30					30.0	2	2	3	5	
31.0		D31			Stiff to very stiff Light grey to brown medium plastic CLAY		31.0	4	5	6	11	
32.0		D32		12.0			32.0	4	5	7	12	
33.0		D33					33.0	4	6	8	14	
34.0		D34					34.0	4	6	10	16	
35.0		D35					35.0	5	7	10	17	
36.0		D36					36.0	4	8	11	19	
37.0		D37					37.0	5	9	12	21	
38.0		D38					38.0	5	7	8	15	
39.0		D39					39.0	5	8	8	16	
40.0		D40					40.0	6	9	11	20	

Note : Boring Terminated at 50.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....

Logged by : Azhar
Check by : Mahabub

Project : Construction of Meghna Bridge	Client : Oriental Consultants Co. Ltd.
Bore Hole No. : P2 Method of Boring : Percussion Boring Dia. : 100mm Depth of Boring : 50.0m	Existing Ground Level : -7.17m Ground/ Water Level : -0.47m Date Started : 05-03-2012 Date Completed : 09-03-2012 Legend : SAND SILT CLAY Co-ordinates :

Location of Boring : Meghnaghat

Depth below G.L (m)	Type of Sample	Sample No.		Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	Blows on spoon: 15 cm penetration	15 cm penetration	15 cm penetration	N-Values	Graphical Representation (10 20 30 40 50 60)
41.0		D41					41.0	6	9	13	22	
42.0		D42					42.0	7	10	14	24	
43.0		D43		8.0	Very dense Brown to yellowish brown fine SAND with trace of mica		43.0	11	18	32	50	
44.0		D44					44.0	18	30	20	50	For 275mm penetration
45.0		D45					45.0	20	32	18	50	For 225mm penetration
46.0		D46					46.0	21	50	-	50	For 150mm penetration
47.0		D47					47.0	23	50	-	50	For 150mm penetration
48.0		D48					48.0	26	50	-	50	For 125mm penetration
49.0		D49					49.0	27	50	-	50	For 125mm penetration
50.0		D50					50.0	28	50	-	50	For 100mm penetration
51.0		D51			End of Boring							
52.0		D52										
53.0		D53										
54.0		D54										
55.0		D55										
56.0		D56										
57.0		D57										
58.0		D58										
59.0		D59										
60.0		D60										

Note : Boring Terminated at 50.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Logged by : Azhar
Check by : Mahabub

Project : Construction of Meghna Bridge	Client : Oriental Consultants Co. Ltd.
Bore Hole No. : P3 Method of Boring : Percussion Boring Dia. : 100mm Depth of Boring : 40.0m	Existing Ground Level : -9.36m Ground/ Water Level : -0.22m Date Started : 05- 03 -2012 Date Completed : 07- 03 -2012 Legend : SAND SILT CLAY Co-ordinates :

Location of Boring : Meghnaghat

Depth below G.L (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	Blows on spoon: 15 cm penetration	15 cm penetration	15 cm penetration	N-Values	Graphical Representation (10 20 30 40 50 60)
1.0		D1	7.0	Loose Grey to brown fine SAND with trace of mica		1.0	3	4	6	10	
2.0		D2				2.0	1	3	3	6	
3.0		D3				3.0	2	2	2	4	
4.0		D4				4.0	2	3	5	8	
5.0		D5				5.0	2	5	5	10	
6.0		D6				6.0	1	2	2	4	
7.0		D7				7.0	2	3	5	8	
8.0		D8	10.0	Medium dense Grey silty very fine SAND with trace of mica		8.0	4	6	8	14	
9.0		D9				9.0	6	8	10	18	
10.0		D10				10.0	5	10	14	24	
11.0		D11				11.0	6	10	16	26	
12.0		D12				12.0	6	11	18	29	
13.0		D13				13.0	7	12	19	31	
14.0		D14				14.0	8	13	14	27	
15.0		D15				15.0	9	11	12	23	
16.0		D16				16.0	6	7	10	17	
17.0		D17				17.0	8	10	13	23	
18.0		D18	4.0	Medium dense to dense Grey to brown silty fine to very fine SAND with trace of mica		18.0	8	12	15	27	
19		D19				19.0	8	13	17	30	
20.0		D20				20.0	6	14	19	33	

Note : Boring Terminated at 40.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....

Logged by : Azhar
Check by : Mahabub

Project : Construction of Meghna Bridge	Client : Oriental Consultants Co. Ltd.
Bore Hole No. : P3 Method of Boring : Percussion Boring Dia. : 100mm Depth of Boring : 40.0m	Existing Ground Level : -9.36m Ground/ Water Level : -0.22m Date Started : 05 - 03 - 2012 Date Completed : 07 - 03 - 2012 Legend : SAND SILT CLAY Co-ordinates :

Location of Boring : Meghnaghat

Depth below G.L (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	Blows on spoon: 15 cm penetration	15 cm penetration	15 cm penetration	N-Values	Graphical Representation (10 20 30 40 50 60)
21.0		D21				21.0	7	15	20	35	
22.0		D22	6.0	Medium stiff to stiff Grey to dark grey medium plastic CLAY		22.0	2	4	5	9	
23.0		D23				23.0	1	3	3	6	
24.0		D24				24.0	2	2	3	5	
25.0		D25				25.0	2	3	5	8	
26.0		D26				26.0	3	4	6	10	
27.0		D27				27.0	3	6	8	14	
28.0		D28	6.0	Medium dense to dense Light grey silty very fine SAND with trace of mica		28.0	5	10	15	25	
29.0		D29				29.0	4	9	12	21	
30.0		D30				30.0	5	10	15	25	
31.0		D31				31.0	6	12	17	29	
32.0		D32				32.0	10	13	20	33	
33.0		D33				33.0	10	12	23	35	
34.0		D34	7.0	Very dense Brown to reddish brown silty fine SAND with trace of mica		34.0	11	30	50	50	
35.0		D35				35.0	12	32	28	50	
36.0		D36				36.0	17	50	0	50	
37.0		D37				37.0	20	50	0	50	
38.0		D38				38.0	18	50	0	50	
39.0		D39				39.0	19	50	0	50	
40.0		D40		End of Boring		40.0	22	50	0	50	

Note : Boring Terminated at 40.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Logged by : Azhar
Check by : Mahabub