
CBR TEST

**GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH
LOCAL GOVERNMENT ENGINEERING DEPARTMENT**

CENTRAL QUALITY CONTROL UNIT

Agargaon, Sher-e-Bangla Nagar, Dhaka-1207

PROCTOR DENSITY TEST FOR MDD & OMC DETERMINATION

Client : Md. Mahabubul Islam, Geologist, SURVEY 2000	Ref. No.&Date:Survey/Soil-142-2012, 03.04.2012
Scheme Const.of New Meghna Bridge	Location : Meghnaghat(TP-A1)
Quantity Collected from Field : 40 Kg	Quantity represented : Not Informed
Sample No : D1	Sampled By : Mahbubul Islam, Geologist.
Description of Sample : Soil	Sampled Date : 20.03.2012
Lab. Registration No. : LGED/C-Lab/07/04-05/17	Date of Test 21.05.2012
Type of Test : MDD	Method of Test : Standard
Mold Dia : 101.4 mm	No. of Layer : 3
Wt. of rammer : 5.5 lbs	Blow/Layer :25

Determination no.	01	02	03	04	05
Assumed Moisture Content (%)	6	8	10	12	14

Moisture Content Determination

Moisture Can No.	10	11	23	25	2
Wt. of Can + Wet of specimen (A), gm	185.3	166.7	167.8	177.0	182.4
Wt. of Can + dry of specimen (B), gm	152.0	135.5	133.9	143.5	141.3
Wt. of Water (A-B), gm	33.3	31.2	33.9	33.5	41.1
Wt. of Can (C) gm	26.4	27.1	26.3	42.2	27.3
Wt. of dry Specimen (B-C), gm	125.6	108.4	107.6	101.3	114.0
Moisture Content $m = (A-B)/(B-C)$, %	26.5	28.8	31.5	33.1	36.1
Average Moisture Content %	27	29	32	33	36

Density Determination

Wt. of Wet Material + Mold (X), Kg	3.575	3.645	3.652	3.660	3.635
Wt. of Mold (Y), Kg	2.036	2.036	2.036	2.036	2.036
Wt. of Material in Mould (W=X-Y), Kg	1.54	1.61	1.62	1.62	1.6
Volume of Mould (V), m ³	0.000934	0.000934	0.000934	0.000934	0.000934
Wet Density ($\gamma_{WET} = W/V$) Kg/m ³	1648.82	1723.77	1734.48	1734.48	1713.06
Dry Density ($\gamma_{DRY} = (\gamma_{WET})/(1+m/100)$, Kg/m ³	1303.3	1338.5	1318.9	1303.4	1259.1

NOTE : 1 kg/m³ = 0.06243 lb/cft, 1 Kg = 2.2046 lb, 1m³ = 35.3147 cft.



ZERO-AIR-VOID LINE' calculation (optional) to check the accuracy of Testing :-

Specific Gravity (G_s) =

(Note: For normal soil, Sp.Gr. May be assumed 2.68, for short-cut check. For soil containing aggregates, use combined Sp. Gr.)

Assumed Moisture Content (Starting from OMC) in %, w							
Corresponding Dry Density at 'Zero-Air-Void' in $\text{kg/m}^3 = G_s \times 100 / (1 + w \times G_s / 100)$							

Maximum-Dry-Density (MDD) : 1337.7 \approx 1338 kg/m^3 Optimum-Moisture-Content (OMC) : 29 %

(NOTE ; it is recommended to express MDD (kg/m^3) and OMC (%) by rounding to the nearest whole number)

Tested by : Mr. Rabiul Haque, SAE(QC)

Supervised by : Mr. Md.Tarikuzzaman, Sr. AE(QC)

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LOCAL GOVERNMENT ENGINEERING DEPARTMENT
CENTRAL QUALITY CONTROL UNIT
 Agargaon, Sher-e-Bangla Nagar, Dhaka-1207
CALIFORNIA BEARING RATIO (CBR) TEST

Client : Md. Mahabubul Islam, Geologist, SURVEY 2000 Ref. No. & Date : Survey/Soil-142-2012, 03.04.2012
 Scheme : Const. of New Meghna Bridge Location : **Meghnaghat(TP-A1)**
 Sample No : D 1 Sampled by & Date : Mahabubul Islam, Geologist, 20.3.12
 Quantity Collected from Field : 40 kg Quantity Represented : Not Mentioned
 Quantity Represented : Not Mentioned Test Date : 27.05.2012
 Lab. Reg. No. : LGED/C-Lab/07/04-05/17 Description of Test Specimen : Soil
 Type of Test : **Three point CBR Test** (Specimen Compacted at different density)
 Designation of CBR Test : Soaking Condition : **Soaked (4 days) / Unsoaked / At Field Moisture**

Moisture Content Determination

Moisture Can No.			4		5		17	
Wt. of Can + Wet Specimen	(A)	gm	264.8	264.8'	211.1	211.1	251.2	251.2
Wt. of Can + Dry Specimen	(B)	gm	211.3	211.2	169.3	169.3	200.0	200.0
Wt. of Water	(A-B)	gm	53.5	53.6	41.8	41.8	51.2	51.2
Wt. of Can	(C)	gm	27.7	27.7	26.8	26.8	24.2	24.2
Wt. of dry Specimen	(B-C)	gm	183.6	183.5	142.5	142.5	175.8	175.8
Moisture Content	(%)		29.1	29.2	29.3	29.3	29.1	29.1
Average Moisture Content	m	(%)	29.2		29.3		29.1	
Optimum Moisture Content (OMC) =			29 %					

DENSITY DETERMINATION

Mould No.		Mold No. - 02	Mold No. - 07	Mold No. -06
Compacting Effort	Undisturbed Specimen	----	----	----
	In-Situ Test (Truck-Mounted Machine)	----	----	----
	Blows Applied (in each of_3_ Layer)	18	36	56
Specimen	Av. Diameter of CBR Mold (D), mm	152.4	152.4	152.4
Volume	Av. Height Excluding Spacer (H), mm (Spacer Disc #2 Av. Height 61.48mm)	116.5 (= 178-61.5)	117.5 (= 179.-61.5)	116.5 (= 178-61.5)
	Volume V= .785 X D ² X H / (1000) ³ m ³	0.002124	0.002142	0.002124
Wt. of Wet Material + Mold	(X) Kg	7.500	7.750	7.900
Wt. of Mold	(Y) Kg	4.199	4.198	4.202
Wt. of Material in Mold	(W = X-Y) Kg	3.301	3.552	3.698
Wet-Density	= W / V (kg/m ³)	1554	1658	1741
Dry density	(kg/m ³)	1203	1282	1348
Compaction % (MDD and Type of Proctor Density test)		90 (MDD = 1338	96 Method -A of AASHTO T-99 (Standard Proctor)	101

NOTE : 1 Kg/m³ = 0.06243 lb / cft, 1 m³ = 35.3147 cft, 1 lb / cft = 1 Kg/m³, 1 KN / m² = 0.145038psi.

SWELL DATA

Time	Date	(Elapsed Time)	Mold-	H= mm	Mold-	H= mm	Mold-	H= mm
			Reading	Swell	Reading	Swell	Reading	Swell
Submerged At--								
Final Reading--								

Load Cell No : **CM-9-1624**

Maximum Capacity : **10 KN**

Load Determination :

Area of penetration Plunger : A 0.001935 m²

Date of Penetration : 27.05.2012

CBR 'LOAD-PENETRATION' DATA

Penetration Reading	Proving Ring Reading and Stress								
	Mold No. - 02			Mold No. - 07			Mold No. -06		
	Load, P	Stress, P/A		Load, P	Stress, P/A		Load, P	Stress, P/A	
in (mm)	(KN)	(Kpa)	(KN)	(Kpa)	(KN)	(Kpa)	(KN)	(Kpa)	(Kpa)
0.000	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.025	0.64	0.15	77.52	0.16	82.69	0.31	160.21	0.31	160.21
0.050	1.27	0.28	144.70	0.31	160.21	0.64	330.75	0.64	330.75
0.075	1.91	0.41	211.89	0.53	273.90	0.95	490.96	0.95	490.96
0.100	2.54	0.52	268.73	0.78	403.10	1.26	651.16	1.26	651.16
0.125	3.18	0.61	315.25	1.01	521.96	1.53	790.70	1.53	790.70
0.150	3.81	0.70	361.76	1.22	630.49	1.78	919.90	1.78	919.90
0.175	4.45	0.78	403.10	1.41	728.68	2.01	1038.76	2.01	1038.76
0.200	5.08	0.86	444.44	1.58	816.54	2.22	1147.29	2.22	1147.29
0.225	5.72	0.94	485.79	1.75	904.39	2.44	1260.98	2.44	1260.98
0.250	6.35	1.00	516.80	1.91	987.08	2.64	1364.34	2.64	1364.34
0.275	6.99	1.07	552.97	2.06	1064.60	2.82	1457.36	2.82	1457.36
0.300	7.62	1.14	589.15	2.21	1142.12	3.01	1555.56	3.01	1555.56
0.325	8.25								
0.350	8.89								
0.400	10.16								

CBR CALCULATION (From the graph of above data, as shown in next page)

CBR	Calculation	a) Stress at 2.54 mm = 268.73 Kpa	a) Stress at 2.54mm = 403.10 Kpa	a) Stress at 2.54mm = 651.16 Kpa
	Ratio (in %) =	4	8	9
	b) Stress at 5.08 mm = 444.44 Kpa		b) Stress at 5.08 mm = 816.54 Kpa	b) Stress at 5.08 mm = 11147.29 Kpa
	Ratio (in %) =	4	7.9	11
	CBR =	4 %	8 %	11 %
	At Dry-Density	1203	1282	1348
	(% Compaction)	90	98	101
Remark (if any)				

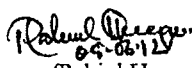
NOTE : --- When stress is in KPa, use standard load (stress) 8900 KPa & 10300 Kpa for 0.100 in. and 0.200 in. penetration respectively.
 --- When stress is in Psi, use standard load (stress) 1000 Psi & 1500 Psi for 0.100 in. and 0.200 in. penetration respectively.

CBR AT PARTICULAR COMPCITION FROM ' Dry-Density versus CBR' GRAPH (APLICABLE FOR 3-POINT CBR TEST ONLY)

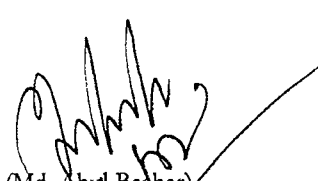
CBR at particular Degree of Compaction	At 100 % Copaction (or 1338 kg/m ³ Dry-Density) ; the soaked CBR = 10.5 % (MDD =1338 Kg/m ³ , Standard Proctor Test)
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Supervised by : Mr. Md.Tarikuzzaman, Sr. AE(QC)

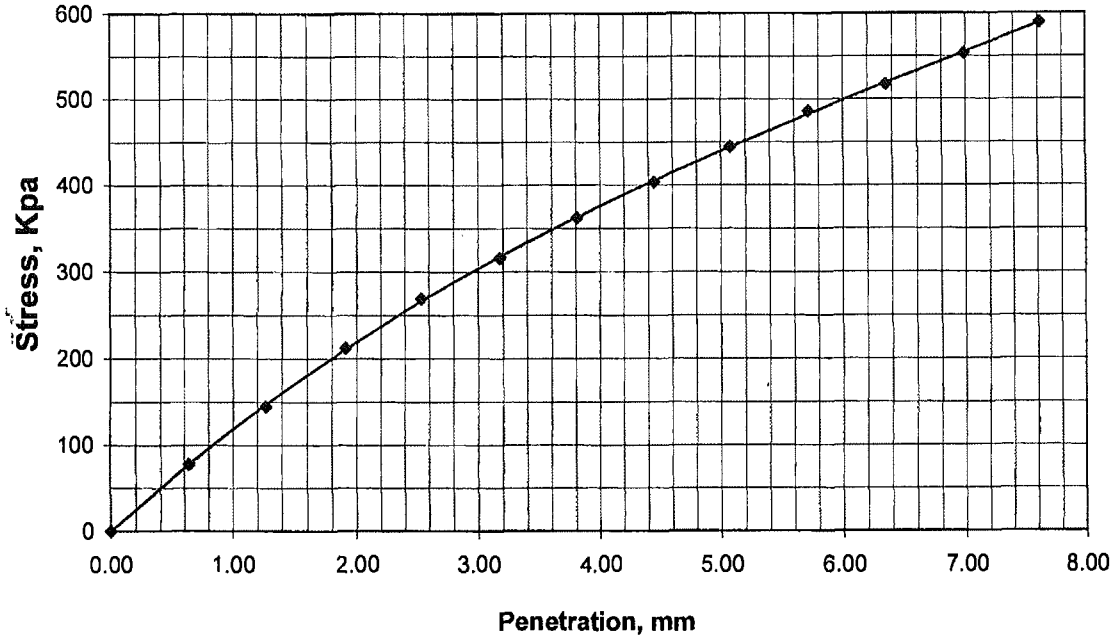

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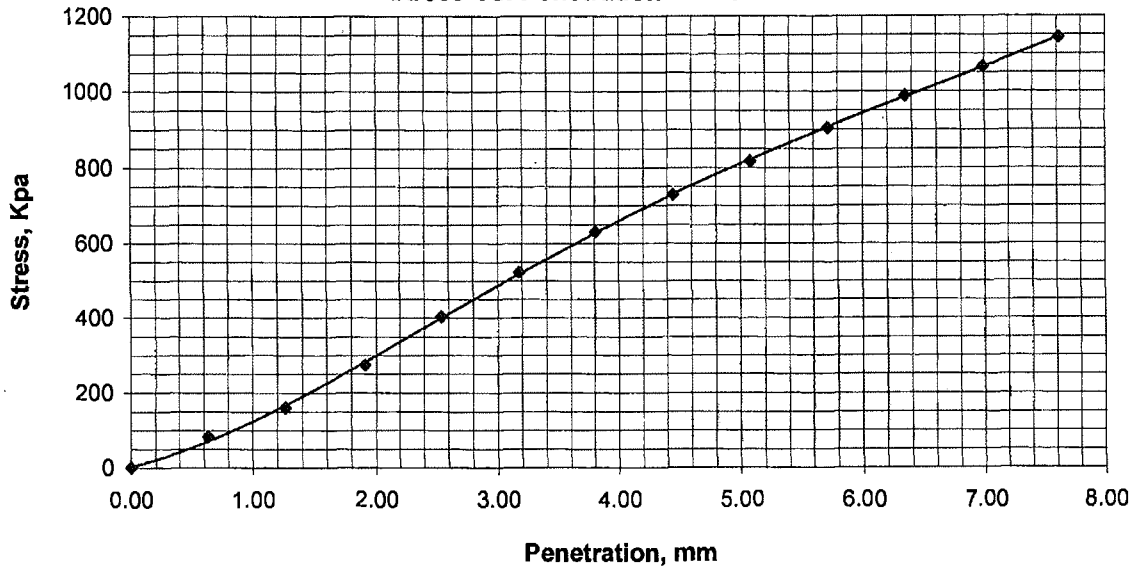
CBR LOAD-PENETRATION CURVE (Mold No. -02)
Dry-Density 1203 kg/m³ or 90 % Compaction

Stress Vs Penetration Curve



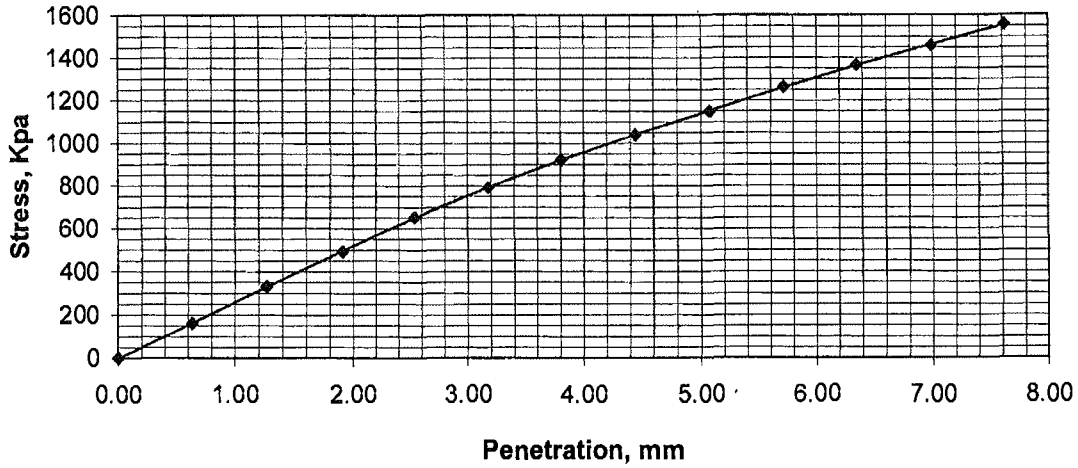
CBR LOAD-PENETRATION CURVE (Mold No. -07)
Dry-Density 1282 kg/m³ or 96 % Compaction

Stress Vs. Penetration Curve

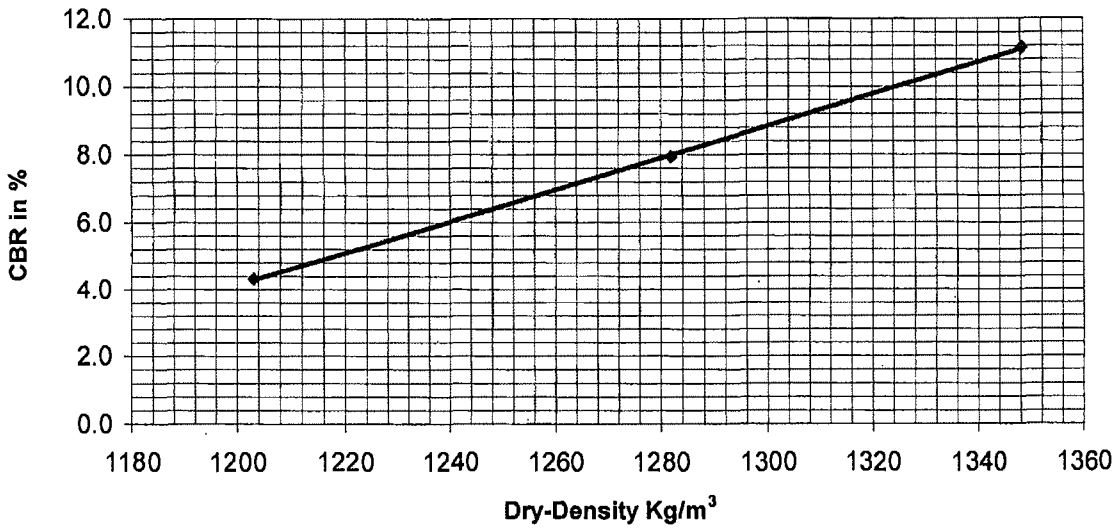


CBR LOAD-PENETRATION CURVE (Mold No. 06)
 Dry-Density 1348 kg/m³ or 101 % Compaction

Stress Vs. Penetration Curve



Dry Density Versus CBR Curve



CBR (Soaked) = 10.5 % at 100 % Compaction (Standard Proctor) or at 1338 Kg/m³ Dry-Density

Signed By :

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PROCTOR DENSITY TEST FOR MDD & OMC DETERMINATION

Client : Md. Mahabubul Islam, Geologist, SURVEY 2000

Ref.No. & Date : Survey/Soil-142-2012, 03.04.2012

Scheme Const. of New Meghna Bridge

Location : **Meghnaghat(TP-A2)**

Quantity Collected from Field : 40 Kg

Quantity represented : Not Informed

Sample No : **D1**

Sampled By : Mahabubul Islam, Geologist.

Description of Sample : Fine Sand

Sampled Date : 20.03.2012

Lab. Registration No. : LGED/C-Lab/07/04-05/17

Date of Test : 21.05.2012

Type of Test : MDD

Method of Test : Standard

Mold Dia : 101.4 mm

Wt. of rammer : 5.5 lbs

No. of Layer : 3

Blow/Layer : 25

Determination no.	01	02	03	04	05
Assumed Moisture Content (%)	12	14	16	18	20

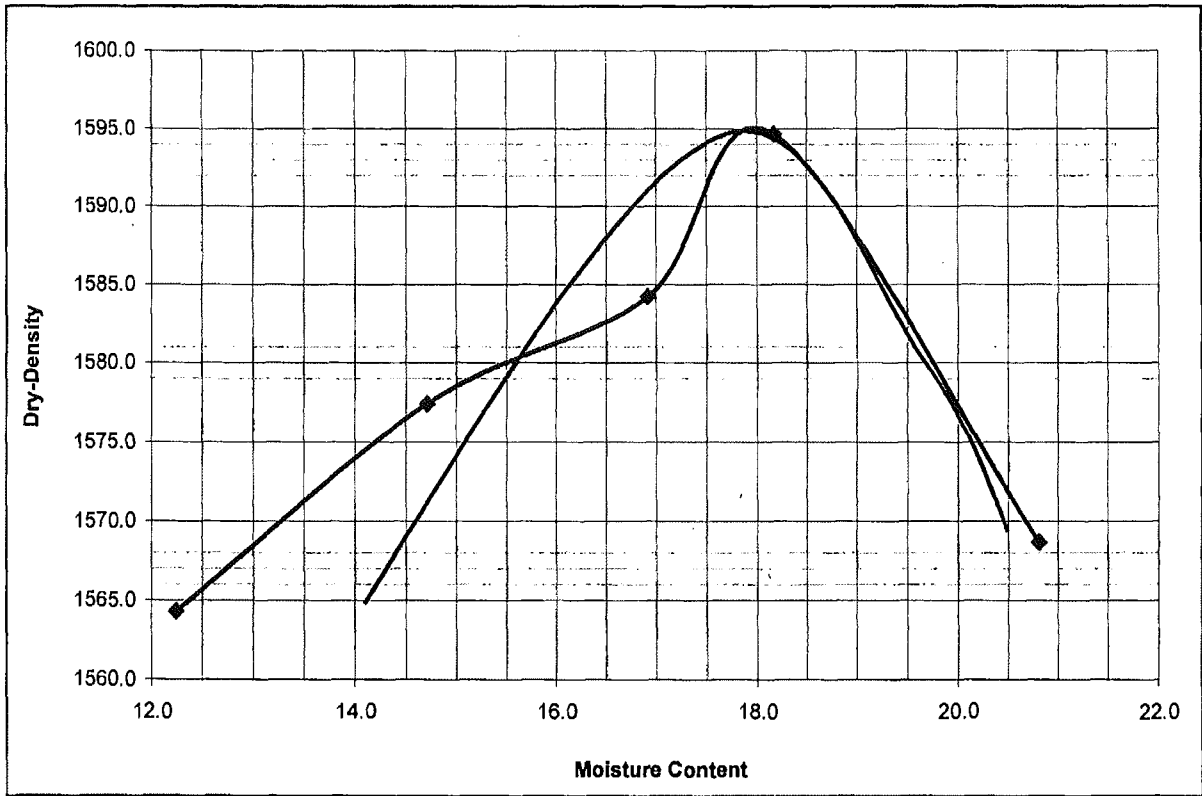
Moisture Content Determination

Moisture Can No.	13	16	39	24	9
Wt. of Can + Wet of specimen (A), gm	190.0	192.8	215.3	254.8	210.1
Wt. of Can + dry of specimen (B), gm	172.3	170.8	187.5	220.0	179.1
Wt. of Water (A-B), gm	17.7	22.0	27.8	34.8	31.0
Wt. of Can (C) gm	27.8	21.2	23.2	28.5	30.1
Wt. of dry Specimen (B-C), gm	144.5	149.6	164.3	191.5	149.0
Moisture Content $m = (A-B)/(B-C)$, %	12.3	14.7	16.9	18.2	20.8
Average Moisture Content %	12	15	17	18	21

Density Determination

Wt. of Wet Material + Mold (X), Kg	3.665	3.714	3.755	3.783	3.796
Wt. of Mold (Y), Kg	2.025	2.025	2.025	2.025	2.025
Wt. of Material in Mould (W=X-Y), Kg	1.64	1.69	1.73	1.76	1.77
Volume of Mould (V), m ³	0.000934	0.000934	0.000934	0.000934	0.000934
Wet Density ($\gamma_{WET} = W/V$) Kg/m ³	1755.89	1809.42	1852.25	1884.37	1895.07
Dry Density $\gamma_{DRY} = (\gamma_{WET})/(1+m/100)$	1564.3	1577.4	1584.2	1594.6	1568.6

NOTE : 1 kg/m³ = 0.06243 lb/cft, 1 Kg = 2.2046 lb, 1m³ = 35.3147 cft.



ZERO-AIR-VOID LINE' calculation (optional) to check the accuracy of Testing :-
 Specific Gravity (G_s) =

(Note: For normal soil, Sp.Gr. May be assumed 2.68, for short-cut check. For soil containing aggregates, use combined Sp. Gr.)

Assumed Moisture Content (Starting from OMC) in %, w									
Corresponding Dry Density at 'Zero-Air-Void' in $kg/m^3 = G_s \times 100 / (1 + w \times G_s / 100)$									

Maximum-Dry-Density (MDD) : 1594.6 \approx 1595 kg/m^3 Optimum-Moisture-Content (OMC) : 18 %

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CALIFORNIA BEARING RATIO (CBR) TEST

Client : Md. Mahabubul Islam, Geologist, SURVEY 2000 Ref. No. & Date : Survey/Soil-142-2012, 03.04.2012
 Scheme : Const. New Meghna Bridge Location : **Meghnaghat(TP-A2)**
 Sample No D 1 Sampled by & Date :Mahbubul Islam,Geologist, 20.3.12
 Quantity Collected from Field : 40 kg Quantity Represented : Not Mentioned
 Quantity Represented : Not Mentioned Test Date : 27.05.2012
 Lab. Reg. No. : LGED/C-Lab/07/04-05/17 Description of Test Specimen : Fine Sand
 Type of Test : **Three point CBR Test** (Specimen Compacted at different density)
 Designation of CBR Test : Soaking Condition : **Soaked (4 days) / Unsoaked / At Field Moisture**

Moisture Content Determination

Moisture Can No.		11		13		25	
Wt. of Can + Wet Specimen	(A) gm	229.8	229.8	219.7	219.7	213.9	213.9
Wt. of Can + Dry Specimen	(B) gm	199.0	199.0	191.3	191.3	184.7	184.7
Wt. of Water	(A-B) gm	30.8	30.8	28.4	28.4	29.2	29.2
Wt. of Can	(C) gm	27.1	27.1	27.9	27.9	24.2	24.2
Wt. of dry Specimen	(B-C) gm	171.9	171.9	163.4	163.4	160.5	160.5
Moisture Content	(%)	17.9	17.9	17.4	17.4	18.2	18.2
Average Moisture Content	m (%)	17.9		17.4		18.2	
Optimum Moisture Content (OMC) = 18 %							

DENSITY DETERMINATION

Mould No.		Mold No. - 09	Mold No. -11	Mold No. -08
Compacting	Undisturbed Specimen	----	----	----
Effort	In-Situ Test (Truck-Mounted Machine)	----	----	----
	Blows Applied (in each of 3 Layer)	18	36	56
Specimen	Av. Diameter of CBR Mold (D), mm	152.4	152.4	152.4
Volume	Av. Height Excluding Spacer (H), mm	116.5	117.5	116.5
	(Spacer Disc #2 Av. Height 61.48mm)	(= 178-61.5)	(= 179-61.5)	(= 178-61.5)
	Volume $V = .785 \times D^2 \times H / (1000)^3$ m ³	0.002124	0.002142	0.002124
Wt. of Wet Material + Mold	(X) Kg	10.895	11.030	11.250
Wt. of Mold	(Y) Kg	7.244	7.235	7.240
Wt. of Material in Mold	(W = X-Y) Kg	3.651	3.795	4.010
Wet-Density	= W / V (kg/m ³)	1719	1771	1888
Dry density	(kg/m ³)	1458	1509	1597
Compaction %		91	95	100
(MDD and Type of Proctor Density test)	(MDD = 1595 Method -A of AASHTO T-99 (Standard Proctor)			

NOTE: 1 Kg/m³ = 0.08243 lb / cft, 1 m³ = 35.3147 cft, 1 lb / cft = 1 Kg/m³, 1 KN / m² = 0.145038psi.

SWELL DATA

Time	Date (Elapsed Time)	Mold-	H= mm	Mold-	H= mm	Mold-	H= mm
		Reading	Swell	Reading	Swell	Reading	Swell
Submerged At--							
Final Reading--							

Load Cell No : **CM-9-1624**

Maximum Capacity : **10 KN**

Load Determination :

Area of penetration Plunger : A 0.001935 m²

Date of Penetration : 27.05.2012

CBR 'LOAD-PENETRATION' DATA

Penetration Reading	Proving Ring Reading and Stress								
	Mold No. - 09			Mold No. -11			Mold No. -08		
	Load, P	Stress, P/A		Load, P	Stress, P/A		Load, P	Stress, P/A	
in (mm)	(KN)	(Kpa)	(KN)	(Kpa)	(KN)	(Kpa)	(KN)	(Kpa)	(Kpa)
0.000	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.025	0.64	0.27	139.53	0.31	160.21	0.45	232.56	0.45	232.56
0.050	1.27	0.60	310.08	0.77	397.93	1.15	594.32	1.15	594.32
0.075	1.91	0.98	506.46	1.21	625.32	1.87	966.41	1.87	966.41
0.100	2.54	1.42	733.85	1.97	1018.09	2.64	1364.34	2.64	1364.34
0.125	3.18	1.78	919.90	2.17	1121.45	3.26	1684.75	3.26	1684.75
0.150	3.81	2.12	1095.61	2.96	1529.72	3.79	1958.66	3.79	1958.66
0.175	4.45	2.43	1255.81	3.07	1586.56	4.30	2222.22	4.30	2222.22
0.200	5.08	2.71	1400.52	3.54	1829.46	4.77	2465.12	4.77	2465.12
0.225	5.72	2.97	1534.88	3.63	1875.97	5.12	2645.99	5.12	2645.99
0.250	6.35	3.21	1658.91	3.99	2062.02	5.33	2754.52	5.33	2754.52
0.275	6.99	3.43	1772.61	4.21	2175.71	5.56	2873.39	5.56	2873.39
0.300	7.62	3.65	1886.30	4.76	2459.95	5.76	2976.74	5.76	2976.74
0.325	8.25								
0.350	8.89								
0.400	10.16								

CBR CALCULATION (From the graph of above data, as shown in next page)

CBR Calculation	a) Stress at 2.54 mm = 733.85 Kpa	a) Stress at 2.54mm = 1018.09 Kpa	a) Stress at 2.54mm = 1364.34 Kpa
Ratio (in %) =	11	15	20
b) Stress at 5.08 mm = 1400.52 Kpa		b) Stress at 5.08 mm = 1829.46 Kpa	b) Stress at 5.08 mm = 2465.1 Kpa
Ratio (in %) =	14	17.8	24
CBR =	14 %	18 %	24 %
At Dry-Density	1458	1509	1597
(% Compaction)	91	95	100
Remark (if any)			

NOTE : -- When stress is in KPa, use standard load (stress) 6900 KPa & 10300 Kpa for 0.100 in. and 0.200 in. penetration respectively.
 -- When stress is in Psi, use standard load (stress) 1000 Psi & 1500 Psi for 0.100 in. and 0.200 in. penetration respectively.

CBR AT PARTICULAR COMPCITION FROM ' Dry-Density versus CBR' GRAPH (APLICABLE FOR 3-POINT CBR TEST ONLY)

CBR at particular Degree of Compaction	At 100 % Copaction (or 1595 kg/m ³ Dry-Density) ; the soaked CBR = 23.5 %
	(MDD =1595 Kg/m ³ , Standard Proctor Test)

Tested by : Mr. Rabiul Haque, SAE(QC)

Supervised by : Mr. Md.Tarikuzzaman, Sr. AE(QC)

Rabiul Haque
05.05.12
(Rabiul Haque)

Sub-Assistant Engineer (QC)
Central Quality Control Unit, LGED.

Md. Tarikuzzaman
(Md. Tarikuzzaman)

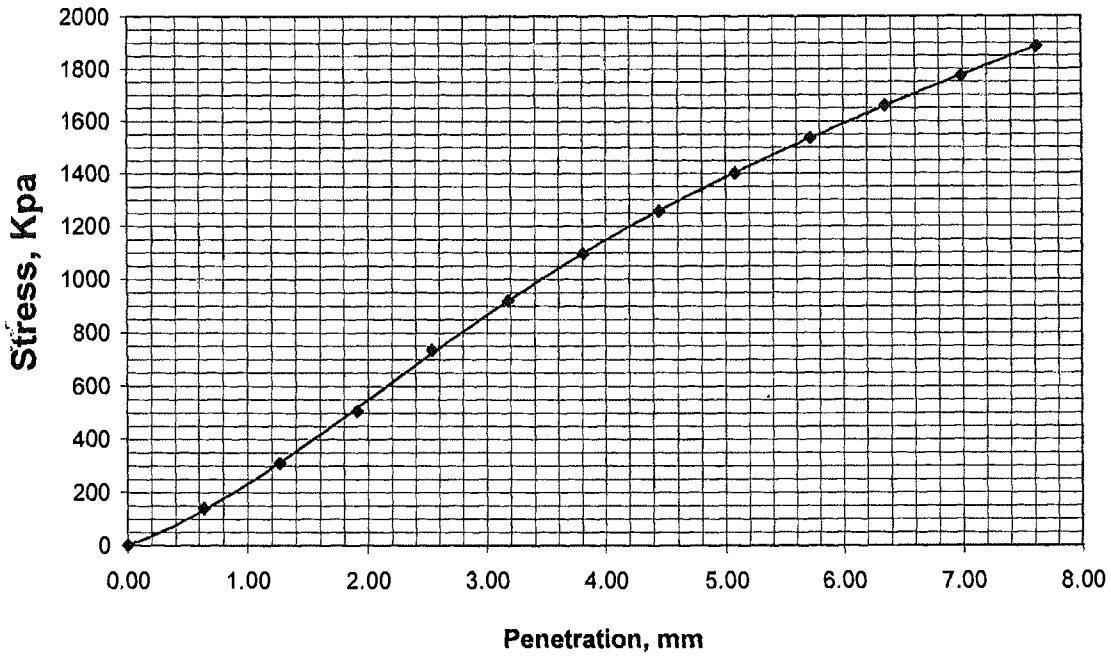
Sr. Assistant Engineer (QC)
Central Quality Control Unit, LGED.

Abul Bashar
(Md. Abul Bashar)

Executive Engineer (QC)
Central Quality Control Unit, LGED.

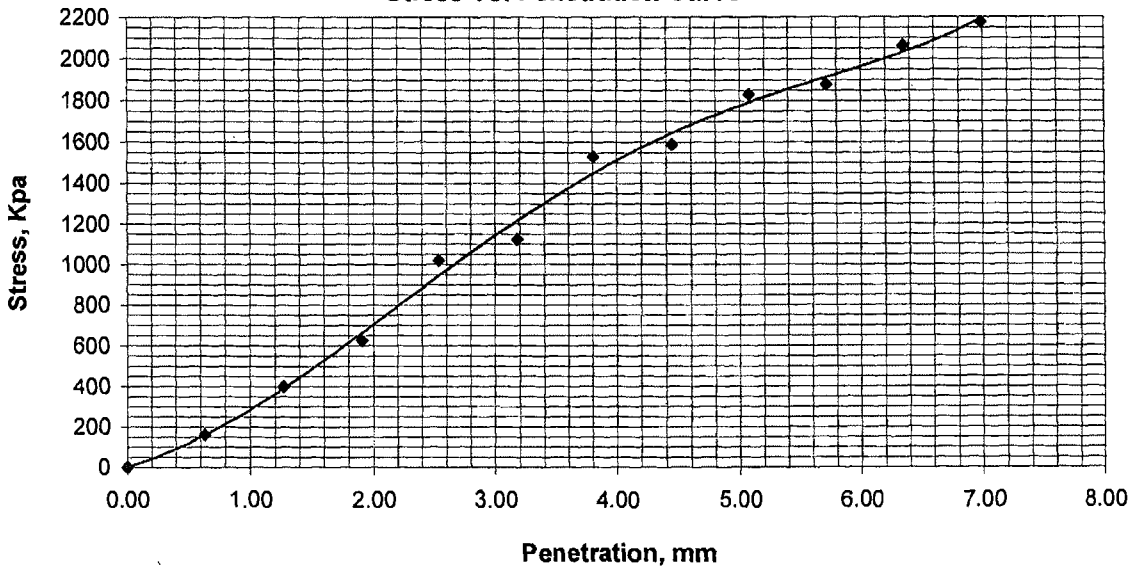
CBR LOAD-PENETRATION CURVE (Mold No. - 09)
Dry-Density 1458 kg/m³ or 91 % Compaction

Stress Vs Penetration Curve



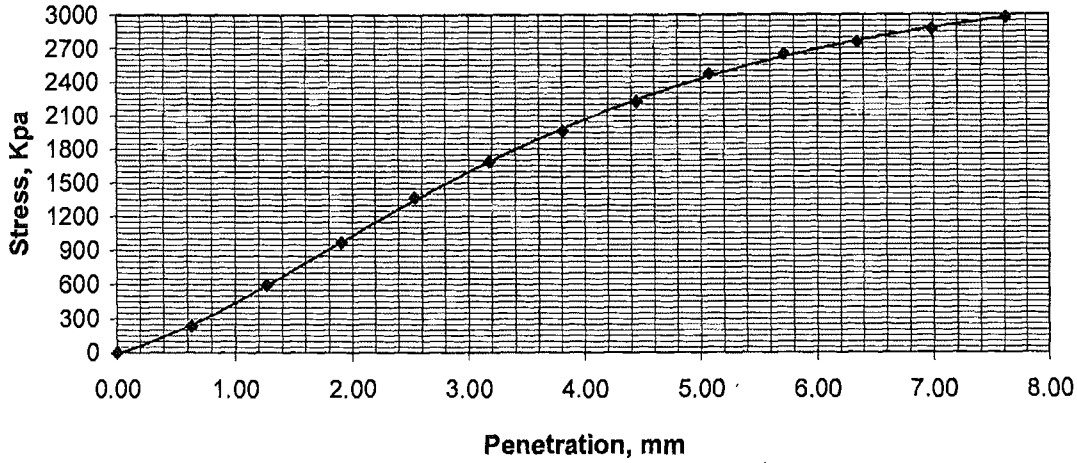
CBR LOAD-PENETRATION CURVE (Mold No. - 11)
Dry-Density 1509 kg/m³ or 95 % Compaction

Stress Vs. Penetration Curve

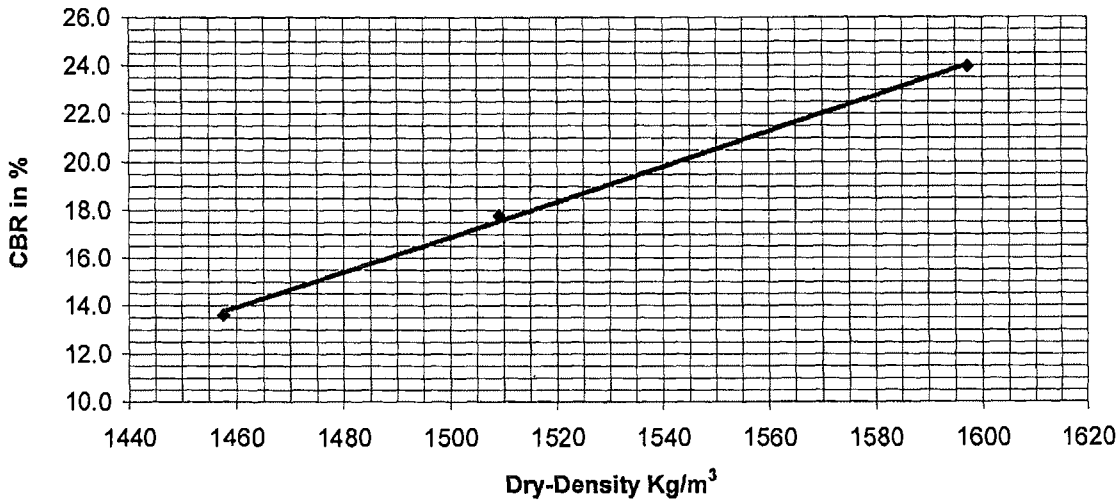


CBR LOAD-PENETRATION CURVE (Mold No. -08)
 Dry-Density 1597 kg/m³ or 100 % Compaction

Stress Vs. Penetration Curve



Dry Density Versus CBR Curve



CBR (Soaked) = 23.5 % at 100 % Compaction (Standard Proctor) or at 1595 Kg/m³ Dry-Density

Tested by : Mr. Rabiul Haque, SAE(QC)

Supervised by : Mr. Md. Tarikuzzaman, Sr. AE(QC)

Rabiul Haque
 (Rabiul Haque)
 Sub-Assistant Engineer (QC)
 Central Quality Control Unit, LGED.






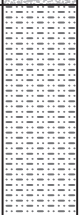

Md. Tarikuzzaman
 (Md. Tarikuzzaman)
 Sr. Assistant Engineer (QC)
 Central Quality Control Unit, LGED.

Md. Abul Bashar
 (Md. Abul Bashar)
 Executive Engineer (QC)
 Central Quality Control Unit, LGED.

MEGHNA-GUMTI BRIDGE

BORE HOLE LOCATION MAP





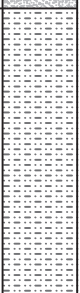
BORE LOGS

Project : Construction of Meghna-Gumti Bridge					Client : Oriental Consultants Co. Ltd.						
Bore Hole No. : A1					Existing Ground Level : +5.8m						
Method of Boring : Percussion					Ground/ Water Level : +0.17m						
Boring Dia. : 100mm					Date Started : 05-02-2012						
Depth of Boring : 81.0m					Date Completed : 06-02-2012						
Legend :					 SAND  SILT  CLAY						
Co-ordinates :											
Location of Boring : Daudkandi						Blows on spoon				Graphical Representation	
Depth below G.L. (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	15 cm penetration	15 cm penetration	15 cm penetration	N-Values	
1.0	D1		1.0	Very dense Light brown very fine SAND		1.0	12	26	24	50	
2.0	D2		5.0	Medium dense Light brown to grey fine SAND with trace of mica		2.0	8	9	11	20	
3.0	D3					3.0	7	9	10	19	
4.0	D4					4.0	7	8	11	19	
5.0	D5					5.0	8	10	12	22	
6.0	D6					6.0	7	9	12	21	
7.0	D7					3.0	Soft Grey non plastic SILT with trace of mica		7.0	1	1
8.0	D8		8.0	1	1				2	3	
9.0	D9		9.0	1	2				1	3	
10.0	D10		27.0	Medium dense to dense Grey fine SAND with trace of mica		10.0	1	4	3	7	
11.0	D11					11.0	4	6	6	12	
12.0	D12					12.0	5	6	8	14	
13.0	D13					13.0	6	7	7	14	
14.0	D14					14.0	4	6	7	13	
15.0	D15					15.0	6	8	10	18	
16.0	D16					16.0	5	8	11	29	
17.0	D17					17.0	8	10	11	21	
18.0	D18					18.0	6	7	10	17	
19.0	D19					19.0	6	8	10	18	
20.0	D20		20.0	7	9	10	19				

Note : Boring Terminated at 81.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....




Logged by : Azhar
Check by : Mahabub

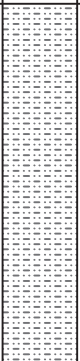

Project : Construction of Meghna-Gumti Bridge					Client : Oriental Consultants Co. Ltd.												
Bore Hole No. : A1					Existing Ground Level : +5.8m												
Method of Boring : Percussion					Ground/ Water Level : +0.17m												
Boring Dia. : 100mm					Date Started : 05-02-2012												
Depth of Boring : 81.0m					Date Completed : 06-02-2012												
Legend :					 SAND	 SILT	 CLAY										
Co-ordinates :																	
Location of Boring : Daudkandi						Blows on spoon				Graphical Representation							
Depth below G.L. (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	15 cm penetration	15 cm penetration	15 cm penetration	N-Values	10	20	30	40	50	60	
21.0		D21		Medium dense to dense Grey fine SAND with trace of mica		21.0	6	8	9	17							
22.0		D22				22.0	5	7	8	15							
23.0		D23				23.0	6	8	10	18							
24.0		D24				24.0	7	9	10	19							
25.0		D25				25.0	6	8	9	17							
26.0		D26	27.0			26.0	7	9	10	19							
27.0		D27				27.0	9	10	11	21							
28.0		D28				28.0	8	9	11	20							
29.0		D29				29.0	7	9	10	19							
30.0		D30				30.0	8	10	12	22							
31.0		D31				31.0	9	11	13	24							
32.0		D32				32.0	8	10	11	21							
33.0		D33				33.0	9	11	14	25							
34.0		D34				34.0	10	13	15	28							
35.0		D35				35.0	12	15	17	32							
36.0		D36				36.0	11	17	19	36							
37.0		D37	4.0	Stiff Grey non plastic SILT with trace of mica		37.0	2	4	5	9							
38.0		D38		38.0		3	5	5	10								
39.0		D39		39.0		3	4	5	9								
40.0		D40		40.0		3	5	6	11								

Note : Boring Terminated at 81.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....

Logged by : Azhar
Check by : Mahabub




Project : Construction of Meghna-Gumti Bridge		Client : Oriental Consultants Co. Ltd.	
Bore Hole No.	: A1	Existing Ground Level	: +5.8m
Method of Boring	: Percussion	Ground/ Water Level	: +0.17m
Boring Dia.	: 100mm	Date Started	: 05-02-2012
Depth of Boring	: 81.0m	Date Completed	: 06-02-2012
Legend :			
		SAND	SILT
			CLAY
Co-ordinates :			

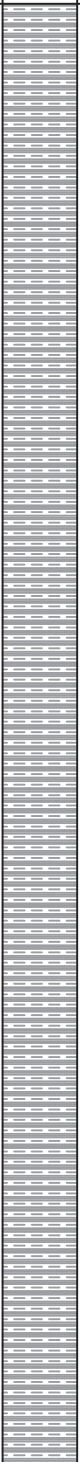
Location of Boring : Daudkandi						Blows on spoon				Graphical Representation								
Depth below G.L. (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	15 cm penetration	15 cm penetration	15 cm penetration	N-Values	10	20	30	40	50	60		
41.0		D41	5.0	Stiff Grey very fine sandy SILT with trace of mica		41.0	4	5	7	12								
42.0		D42				42.0	3	6	8	14								
43.0		D43				43.0	3	5	6	11								
44.0		D44				44.0	2	4	5	9								
45.0		D45				45.0	4	5	7	12								
46.0		D46	35.0	Stiff to very stiff Grey low to medium plastic CLAY		46.0	5	6	7	13								
47.0		D47				47.0	6	6	8	14								
48.0		D48				48.0	5	5	7	12								
49.0		D49				49.0	5	6	7	13								
50.0		D50				50.0	5	7	8	15								
51.0		D51				51.0	6	7	8	15								
52.0		D52				52.0	3	5	7	12								
53.0		D53				53.0	5	6	7	13								
54.0		D54				54.0	5	6	6	12								
55.0		D55				55.0	5	6	8	14								
56.0		D56				56.0	6	6	7	13								
57.0		D57				57.0	5	6	6	12								
58.0		D58				58.0	5	6	7	13								
59.0		D59				59.0	5	7	8	15								
60.0		D60				60.0	6	7	9	16								

Note : Boring Terminated at 81.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....

Logged by : Azhar
Check by : Mahabub

Project : Construction of Meghna-Gumti Bridge		Client : Oriental Consultants Co. Ltd.	
Bore Hole No. : A1	Method of Boring : Percussion	Existing Ground Level : +5.8m	Ground/ Water Level : +0.17m
Boring Dia. : 100mm	Depth of Boring : 81.0m	Date Started : 05-02-2012	Date Completed : 06-02-2012
Legend :		 SAND	 SILT
		 CLAY	
Co-ordinates :			

Location of Boring : Daudkandi						Blows on spoon				Graphical Representation								
Depth below G.L. (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	15 cm penetration	15 cm penetration	15 cm penetration	N-Values	10	20	30	40	50	60		
61.0		D61		Stiff to very stiff Grey low to medium plastic CLAY		61.0	5	6	8	14								
62.0		D62				62.0	5	7	9	16								
63.0		D63				63.0	5	8	9	17								
64.0		D64				64.0	6	7	9	16								
65.0		D65	35.0			65.0	6	8	10	18								
66.0		D66				66.0	5	8	9	17								
67.0		D67				67.0	6	7	8	15								
68.0		D68				68.0	5	7	8	15								
69.0		D69				69.0	5	8	7	15								
70.0		D70				70.0	6	7	8	15								
71.0		D71				71.0	7	6	8	14								
72.0		D72				72.0	6	8	9	17								
73.0		D73				73.0	5	8	10	18								
74.0		D74				74.0	6	7	9	16								
75.0		D75				75.0	5	6	7	13								
76.0		D76				76.0	7	8	9	17								
77.0		D77				77.0	6	7	9	16								
78.0		D78				78.0	7	9	11	20								
79.0		D79				79.0	8	10	9	19								
80.0		D80		80.0	14	8	5	13										

Note : Boring Terminated at 81.0m from EGL
D for Disturbed sample
UD for Undisturbed sample





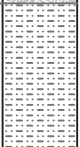

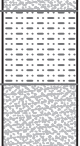

Cont'd.....

Logged by : Azhar
Check by : Mahabub

Project : Construction of Meghna-Gumti Bridge					Client : Oriental Consultants Co. Ltd.											
Bore Hole No. : A1					Existing Ground Level : +5.8m											
Method of Boring : Percussion					Ground/ Water Level : +0.17m											
Boring Dia. : 100mm					Date Started : 05-02-2012											
Depth of Boring : 81.0m					Date Completed : 06-02-2012											
Legend :					SAND	SILT	CLAY									
Co-ordinates :																
Location of Boring : Daudkandi					Blows on spoon			Graphical Representation								
Depth below G.L. (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	15 cm penetration	15 cm penetration	15 cm penetration	N-Values	10	20	30	40	50	60
81.0		D81	1.0	Hard Grey medium plastic CLAY		81.0	19	26	24	50	For 225mm penetration					
				End of Boring												
82.0		D82														
83.0		D83														
84.0		D84														
85.0		D85														
86.0		D86														
87.0		D87														
88.0		D88														
89.0		D89														
90.0		D90														
91.0		D91														
92.0		D92														
93.0		D93														
94.0		D94														
95.0		D95														
96.0		D96														
97.0		D97														
98.0		D98														
99.0		D99														
100.0		D100														

Note : Boring Terminated at 81.0m from EGL
D for Disturbed sample
UD for Undisturbed sample





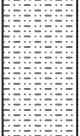
Logged by : Azhar
Check by : Mahabub

Project : Construction of Meghna-Gumti Bridge					Client : Oriental Consultants Co. Ltd.													
Bore Hole No. : P1					Existing Ground Level : +4.69m													
Method of Boring : Percussion					Ground/ Water Level : +0.58m													
Boring Dia. : 100mm					Date Started : 02-02-2012													
Depth of Boring : 80.0m					Date Completed : 05-02-2012													
Legend :					 SAND  SILT  CLAY													
Co-ordinates :																		
Location of Boring : Daudkandi						Blows on spoon				Graphical Representation								
Depth below G.L. (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	15 cm penetration	15 cm penetration	15 cm penetration	N-Values	10	20	30	40	50	60		
1.0	D1		3.0	Loose Brown to grey silty very fine SAND with trace of mica		1.0	1	2	3	5								
2.0	D2		1.0	Soft Grey non plastic SILT with trace of mica		2.0	2	4	6	10								
3.0	D3					3.0	2	3	4	7								
4.0	D4		5.0	Loose to medium dense Light grey fine SAND with trace of mica		4.0	1	1	1	2								
5.0	D5					5.0	3	4	5	9								
6.0	D6					6.0	2	3	5	8								
7.0	D7					7.0	2	2	3	5								
8.0	D8					8.0	3	4	6	10								
9.0	D9					9.0	3	5	7	12								
10.0	D10		1.0	Medium stiff Grey non plastic SILT with few sand trace mica		10.0	1	2	3	5								
11.0	D11		28.0	Loose to medium dense Grey to light grey silty fine SAND with trace of mica		11.0	2	2	3	5								
12.0	D12					12.0	3	2	2	4								
13.0	D13					13.0	2	3	4	7								
14.0	D14					14.0	4	6	9	15								
15.0	D15					15.0	7	11	14	25								
16.0	D16					16.0	8	10	14	24								
17.0	D17					17.0	6	10	12	22								
18.0	D18					18.0	5	8	11	19								
19.0	D19					19.0	5	7	10	17								
20.0	D20					20.0	6	8	12	20								

Note : Boring Terminated at 80.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....




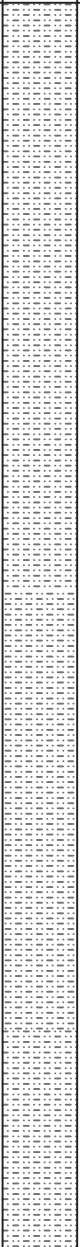
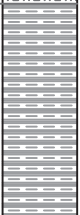
Logged by : Azhar
Check by : Mahabub

Project : Construction of Meghna-Gumti Bridge					Client : Oriental Consultants Co. Ltd.													
Bore Hole No. : P1					Existing Ground Level : +4.69m													
Method of Boring : Percussion					Ground/ Water Level : +0.58m													
Boring Dia. : 100mm					Date Started : 02-02-2012													
Depth of Boring : 80m					Date Completed : 05-02-2012													
Legend :					 SAND	 SILT	 CLAY											
Co-ordinates :																		
Location of Boring : Daudkandi						Blows on spoon			Graphical Representation									
Depth below G.L. (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	15 cm penetration	15 cm penetration	15 cm penetration	N-Values	10	20	30	40	50	60		
21.0		D21	28.0	Medium dense Grey to light grey silty fine SAND with trace of mica		21.0	8	9	12	21								
22.0		D22				22.0	5	7	11	18								
23.0		D23				23.0	6	7	12	19								
24.0		D24				24.0	5	8	10	18								
25.0		D25				25.0	5	7	9	16								
26.0		D26				26.0	6	6	7	13								
27.0		D27				27.0	4	6	6	12								
28.0		D28				28.0	5	5	6	11								
29.0		D29				29.0	6	7	8	15								
30.0		D30				30.0	10	9	12	21								
31.0		D31				31.0	6	7	10	17								
32.0		D32				32.0	5	7	8	15								
33.0		D33				33.0	6	8	9	17								
34.0		D34				34.0	5	7	9	16								
35.0		D35				35.0	4	7	8	15								
36.0		D36				36.0	4	7	7	14								
37.0		D37				37.0	3	5	7	12								
38.0		D38	38.0	3	5	6	11											
39.0		D39		Stiff to very stiff Grey non plastic SILT with trace of mica		39.0	5	6	7	13								
40.0		D40				40.0	4	6	8	14								

Note : Boring Terminated at 80.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....




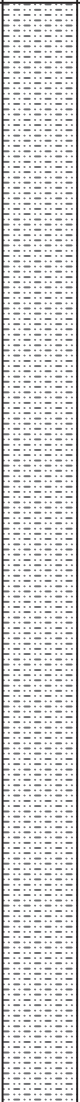
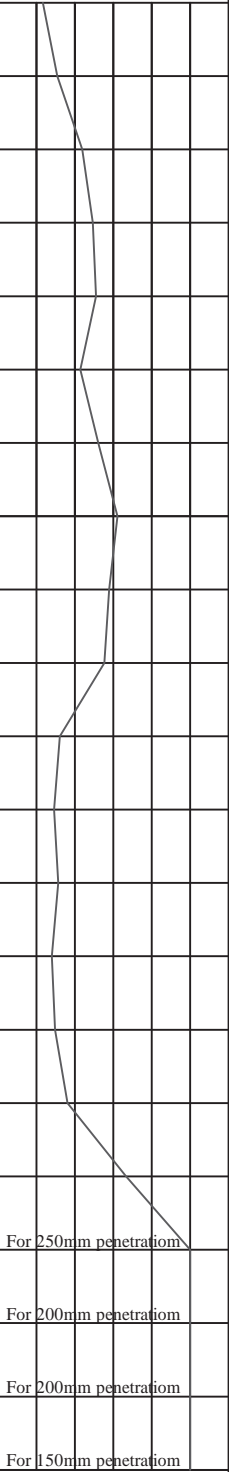

Logged by : Azhar
Check by : Mahabub

Project : Construction of Meghna-Gumti Bridge					Client : Oriental Consultants Co. Ltd.														
Bore Hole No. : P1					Existing Ground Level : +4.69m														
Method of Boring : Percussion					Ground/ Water Level : +0.58m														
Boring Dia. : 100mm					Date Started : 02-02-2012														
Depth of Boring : 80.0m					Date Completed : 05-02-2012														
Legend :					 SAND  SILT  CLAY														
Co-ordinates :																			
Location of Boring : Daudkandi						Blows on spoon				Graphical Representation									
Depth below G.L. (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	15 cm penetration	15 cm penetration	15 cm penetration	N-Values	10	20	30	40	50	60			
41.0		D41	19.0	Stiff to very stiff Grey non plastic SILT with trace of mica		41.0	6	7	8	15									
42.0		D42				42.0	7	7	9	16									
43.0		D43				43.0	5	6	7	13									
44.0		D44				44.0	6	7	7	14									
45.0		D45				45.0	4	5	7	12									
46.0		D46				46.0	5	6	7	13									
47.0		D47				47.0	6	7	8	15									
48.0		D48				48.0	10	8	7	15									
49.0		D49				49.0	8	9	10	19									
50.0		D50				50.0	7	8	10	18									
51.0		D51				51.0	6	7	7	14									
52.0		D52				52.0	7	8	9	17									
53.0		D53				53.0	6	7	8	15									
54.0		D54				54.0	5	6	7	13									
55.0		D55				55.0	5	6	6	12									
56.0		D56				56.0	4	6	7	13									
57.0		D57				57.0	5	7	8	15									
58.0		D58				18.0	Stiff to very stiff Grey medium plastic CLAY		58.0	8	7	8	15						
59.0		D59							59.0	6	7	7	14						
60.0		D60	60.0	5	6				6	12									

Note : Boring Terminated at 80.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....






Logged by : Azhar
Check by : Mahabub

Project : Construction of Meghna-Gumti Bridge					Client : Oriental Consultants Co. Ltd.										
Bore Hole No. : P1					Existing Ground Level : +4.69m										
Method of Boring : Percussion					Ground/ Water Level : +0.58m										
Boring Dia. : 100mm					Date Started : 02-02-2012										
Depth of Boring : 80.0m					Date Completed : 05-02-2012										
Legend :					 SAND  SILT  CLAY										
Co-ordinates :															
Location of Boring : Daudkandi						Blows on spoon				Graphical Representation					
Depth below G.L. (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	15 cm penetration	15 cm penetration	15 cm penetration	N-Values	10 20 30 40 50 60				
61.0		D61	18.0	Stiff to very stiff Grey non plastic SILT with trace of mica		61.0	6	7	9	16					
62.0		D62				62.0	8	12	10	22					
63.0		D63				63.0	10	16	9	25					
64.0		D64				64.0	9	12	14	26					
65.0		D65				65.0	7	11	10	21					
66.0		D66				66.0	8	12	15	27					
67.0		D67				67.0	10	14	17	31					
68.0		D68				68.0	9	13	16	29					
69.0		D69				69.0	8	12	16	28					
70.0		D70				70.0	5	8	9	17					
71.0		D71				71.0	6	7	8	15					
72.0		D72				72.0	6	7	9	16					
73.0		D73				73.0	5	6	8	14					
74.0		D74				74.0	6	7	8	15					
75.0		D75				5.0	Dense to very dense Grey silty fine SAND with trace of mica		75.0	7		8	10	18	For 250mm penetration
76.0		D76							76.0	10		14	19	33	
77.0		D77							77.0	18		22	28	50	For 200mm penetration
78.0		D78							78.0	16		23	27	50	For 200mm penetration
79.0		D79	79.0	20	24				26	50	For 200mm penetration				
80.0		D80	80.0	22	28	22	50	For 150mm penetration							

Note : Boring Terminated at 80.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

End of Boring

Logged by : Azhar
Check by : Mahabub

Project : Construction of Meghna-Gumti Bridge					Client : Oriental Consultants Co. Ltd.						
Bore Hole No. : P2					Existing Ground Level : -7.10m						
Method of Boring : Percussion					Ground/ Water Level : -4.48m						
Boring Dia. : 100mm					Date Started : 29-02-2012						
Depth of Boring : 69.0m					Date Completed : 02-03-2012						
Legend :					 SAND  SILT  CLAY						
Co-ordinates :											
Location of Boring : Daudkandi						Blows on spoon				Graphical Representation	
Depth below G.L. (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	15 cm penetration	15 cm penetration	15 cm penetration	N-Values	
1.0	D1		4.0	Dense Grey to brown fine SAND with trace of mica		1.0	11	14	18	32	
2.0	D2					2.0	18	28	22	50	
3.0	D3					3.0	14	18	20	38	
4.0	D4					4.0	12	14	18	32	
5.0	D5		19.0	Medium dense to dense Grey silty fine SAND with trace of mica		5.0	7	10	12	22	
6.0	D6					6.0	6	8	10	18	
7.0	D7					7.0	4	6	8	14	
8.0	D8					8.0	5	7	8	15	
9.0	D9					9.0	6	8	9	17	
10.0	D10					10.0	6	8	10	18	
11.0	D11					11.0	6	9	12	21	
12.0	D12					12.0	5	8	10	18	
13.0	D13					13.0	5	9	18	27	
14.0	D14					14.0	6	10	18	28	
15.0	D15					15.0	6	10	17	27	
16.0	D16					16.0	8	11	15	26	
17.0	D17					17.0	8	12	16	28	
18.0	D18					18.0	9	12	17	29	
19.0	D19					19.0	10	14	18	32	
20.0	D20					20.0	7	18	26	44	

Note : Boring Terminated at 69.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....




Logged by : Azhar
Check by : Mahabub

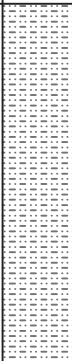

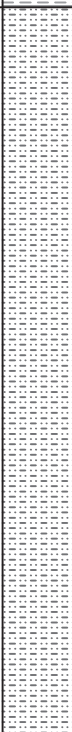
Project : Construction of Meghna-Gumti Bridge						Client : Oriental Consultants Co. Ltd.														
Bore Hole No. : P2						Existing Ground Level : -7.10m														
Method of Boring : Percussion						Ground/ Water Level : -4.48m														
Boring Dia. : 100mm						Date Started : 29-02-2012														
Depth of Boring : 69.0m						Date Completed : 02-03-2012														
Legend :						SAND		SILT		CLAY										
Co-ordinates :																				
Location of Boring : Daudkandi						Blows on spoon				Graphical Representation										
Depth below G.L. (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	15 cm penetration	15 cm penetration	15 cm penetration	N-Values	10	20	30	40	50	60				
21.0		D21	9.0	Medium dense to dense Grey silty fine SAND with trace of mica		21.0	6	12	15	27										
22.0		D22				22.0	5	11	14	25										
23.0		D23				23.0	5	5	8	13										
24.0		D24				24.0	5	7	7	14										
25.0		D25				25.0	Stiff to very stiff Grey non plastic SILT with trace of mica		25.0	4	4	5	9							
26.0		D26				26.0			4	5	6	11								
27.0		D27				27.0			5	5	8	13								
28.0		D28				28.0			4	5	7	12								
29.0		D29				29.0			4	4	5	9								
30.0		D30	30.0	4	6	7			13											
31.0		D31	31.0	8	8	9			17											
32.0		D32	32.0	5	7	8			15											
33.0		D33	7.0	Medium dense Grey silty very fine SAND with trace of mica		33.0			5	6	10	16								
34.0		D34				34.0	6	7	8	15										
35.0		D35				35.0	6	8	9	17										
36.0		D36				36.0	7	7	9	16										
37.0		D37				37.0	6	9	10	19										
38.0		D38				38.0	7	8	9	17										
39.0		D39				39.0	7	6	8	14										
40.0		D40				40.0	6	8	9	17										

Note : Boring Terminated at 69.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....

Logged by : Azhar
Check by : Mahabub






Project : Construction of Meghna-Gumti Bridge		Client : Oriental Consultants Co. Ltd.	
Bore Hole No.	: P2	Existing Ground Level	: -7.10m
Method of Boring	: Percussion	Ground/ Water Level	: -4.48m
Boring Dia.	: 100mm	Date Started	: 29-02-2012
Depth of Boring	: 69.0m	Date Completed	: 02-03-2012
Legend :			
		SAND	SILT
			
		CLAY	
Co-ordinates :			

Location of Boring : Daudkandi						Blows on spoon				Graphical Representation								
Depth below G.L. (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	15 cm penetration	15 cm penetration	15 cm penetration	N-Values	10	20	30	40	50	60		
41.0		D41	6.0	Very stiff Grey non plastic SILT with trace mica		41.0	6	7	9	16								
42.0		D42				42.0	5	7	8	15								
43.0		D43				43.0	6	8	9	17								
44.0		D44				44.0	5	7	8	15								
45.0		D45				45.0	5	6	7	13								
46.0		D46	5.0	Very stiff Grey medium plastic CLAY		46.0	5	6	6	12								
47.0		D47				47.0	6	7	8	15								
48.0		D48				48.0	6	8	9	17								
49.0		D49				49.0	7	8	10	18								
50.0		D50				50.0	7	7	11	18								
51.0		D51	10.0	Very stiff Grey non plastic SILT with trace of mica		51.0	6	7	10	17								
52.0		D52				52.0	6	8	11	19								
53.0		D53				53.0	7	8	9	17								
54.0		D54				54.0	7	7	12	19								
55.0		D55				55.0	8	9	12	21								
56.0		D56				56.0	8	8	12	20								
57.0		D57				57.0	6	8	9	17								
58.0		D58				58.0	6	8	10	18								
59.0		D59				59.0	7	9	10	19								
60.0		D60				60.0	10	11	13	24								

Note : Boring Terminated at 69.0m from EGL
D for Disturbed sample
UD for Undisturbed sample






Cont'd.....

Logged by : Azhar
Check by : Mahabub

Project : Construction of Meghna-Gumti Bridge						Client : Oriental Consultants Co. Ltd.						
Bore Hole No. : P2						Existing Ground Level : -7.10m						
Method of Boring : Percussion						Ground/ Water Level : -4.48m						
Boring Dia. : 100mm						Date Started : 29-02-2012						
Depth of Boring : 69.0m						Date Completed : 02-03-2012						
Legend :						 SAND		 SILT		 CLAY		
Co-ordinates :												
Location of Boring : Daudkandi						Blows on spoon				Graphical Representation		
Depth below G.L. (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	15 cm penetration	15 cm penetration	15 cm penetration	N-Values	10 20 30 40 50 60	
61.0		D61	5.0	Medium dense to very dense Grey silty very fine SAND with trace of mica		61.0	10	13	37	50	For 250mm penetration	
62.0		D62				62.0	7	8	10	18		
63.0		D63				63.0	8	10	12	22		
64.0		D64				64.0	7	9	11	20		
65.0		D65				65.0	8	10	13	23		
66.0		D66	4.0	Very dense Grey fine SAND with trace of mica		66.0	50	-	-	50	For 150mm penetration	
67.0		D67				67.0	50	-	-	50	For 150mm penetration	
68.0		D68				68.0	50	-	-	50	For 150mm penetration	
69.0		D69				69.0	50	-	-	50	For 150mm penetration	
70.0		D70				End of Boring						
71.0		D71										
72.0		D72										
73.0		D73										
74.0		D74										
75.0		D75										
76.0		D76										
77.0		D77										
78.0		D78										
79.0		D79										
80.0		D80										

Note : Boring Terminated at 69.0m from EGL
 D for Disturbed sample
 UD for Undisturbed sample




Logged by : Azhar
 Check by : Mahabub

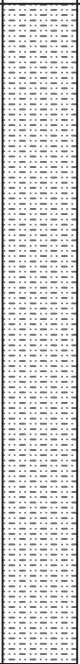
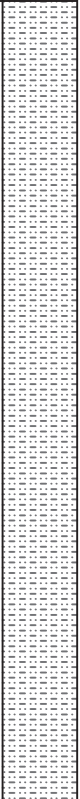
Project : Construction of Meghna-Gumti Bridge					Client : Oriental Consultants Co. Ltd.						
Bore Hole No. : P3					Existing Ground Level : -9.9m						
Method of Boring : Percussion					Ground/ Water Level : -3.51m						
Boring Dia. : 100mm					Date Started : 27-02-2012						
Depth of Boring : 65.0m					Date Completed : 29-02-2012						
Legend :					 SAND  SILT  CLAY						
Co-ordinates :											
Location of Boring : Daudkandi						Blows on spoon				Graphical Representation	
Depth below G.L. (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	15 cm penetration	15 cm penetration	15 cm penetration	N-Values	
1.0		D1	3.0	Dense to very dense Grey fine SAND with trace of mica		1.0	12	18	20	38	
2.0		D2				2.0	16	20	22	42	
3.0		D3				3.0	18	38	12	50	
4.0		D4	17.0	Medium dense Grey silty fine SAND with trace of mica		4.0	7	11	14	25	
5.0		D5				5.0	3	5	6	11	
6.0		D6				6.0	4	4	8	12	
7.0		D7				7.0	4	7	12	19	
8.0		D8				8.0	5	8	13	21	
9.0		D9				9.0	5	10	20	30	
10.0		D10				10.0	5	6	8	14	
11.0		D11				11.0	6	7	9	16	
12.0		D12				12.0	5	6	7	13	
13.0		D13				13.0	5	7	8	15	
14.0		D14				14.0	4	6	8	14	
15.0		D15				15.0	5	8	9	17	
16.0		D16				16.0	7	10	12	22	
17.0		D17				17.0	12	14	15	29	
18.0		D18				18.0	9	10	11	21	
19.0		D19				19.0	6	9	10	19	
20.0		D20				20.0	4	7	8	15	

Note : Boring Terminated at 65.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....

Logged by : Azhar
Check by : Mahabub





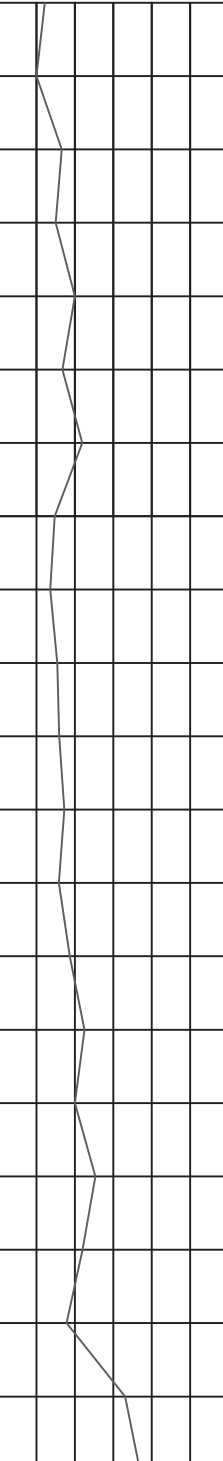



Project : Construction of Meghna-Gumti Bridge		Client : Oriental Consultants Co. Ltd.	
Bore Hole No. : P3	Method of Boring : Percussion	Existing Ground Level : -9.9m	Ground/ Water Level : -3.51m
Boring Dia. : 100mm	Depth of Boring : 65.0m	Date Started : 27-02-2012	Date Completed : 29-02-2012
Legend :		 SAND	 SILT
		 CLAY	
Co-ordinates :			

Location of Boring : Daudkandi						Blows on spoon				Graphical Representation								
Depth below G.L. (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	15 cm penetration	15 cm penetration	15 cm penetration	N-Values	10	20	30	40	50	60		
21.0		D21	9.0	Medium stiff to stiff Grey to light grey low plastic SILT		21.0	4	6	7	13								
22.0		D22				22.0	3	4	6	10								
23.0		D23				23.0	3	2	3	5								
24.0		D24				24.0	2	3	4	7								
25.0		D25				25.0	3	4	3	7								
26.0		D26				26.0	3	3	3	6								
27.0		D27				27.0	3	3	4	7								
28.0		D28				28.0	3	4	4	8								
29.0		D29				29.0	4	4	5	9								
30.0		D30	11.0	Medium stiff to stiff Grey to light grey non plastic SILT with few sand		30.0	3	3	4	7								
31.0		D31				31.0	3	3	4	7								
32.0		D32				32.0	3	3	5	8								
33.0		D33				33.0	3	4	4	8								
34.0		D34				34.0	4	4	5	9								
35.0		D35				35.0	5	5	6	11								
36.0		D36				36.0	4	5	4	9								
37.0		D37				37.0	5	4	6	10								
38.0		D38				38.0	4	4	5	9								
39.0		D39				39.0	5	5	6	11								
40.0		D40				40.0	5	6	6	12								

Note : Boring Terminated at 65.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....





Logged by : Azhar
Check by : Mahabub

Project : Construction of Meghna-Gumti Bridge					Client : Oriental Consultants Co. Ltd.											
Bore Hole No. : P3					Existing Ground Level : -9.9m											
Method of Boring : Percussion					Ground/ Water Level : -3.51m											
Boring Dia. : 100mm					Date Started : 27-02-2012											
Depth of Boring : 65.0m					Date Completed : 29-02-2012											
Legend :					 SAND  SILT  CLAY											
Co-ordinates :																
Location of Boring : Daudkandi						Blows on spoon				Graphical Representation						
Depth below G.L. (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	15 cm penetration	15 cm penetration	15 cm penetration	N-Values						
41.0		D41	8.0	Stiff to very stiff Grey low to medium plastic CLAY with organic		41.0	4	4	6	10						
42.0		D42				42.0	4	8	9	17						
43.0		D43				43.0	5	7	8	15						
44.0		D44				44.0	5	8	12	20						
45.0		D45				45.0	6	7	10	17						
46.0		D46				46.0	5	8	14	22						
47.0		D47				47.0	7	6	8	14						
48.0		D48				48.0	6	5	8	13						
49.0		D49	5.0	Stiff to very stiff Grey low to medium plastic CLAY		49.0	5	7	9	16						
50.0		D50				50.0	6	7	10	17						
51.0		D51				51.0	7	8	10	18						
52.0		D52				52.0	6	7	9	16						
53.0		D53	2.0	Medium dense Grey silty very fine SAND		53.0	7	9	10	19						
54.0		D54				54.0	5	10	13	23						
55.0		D55				55.0	8	10	10	20						
56.0		D56				56.0	17	14	12	26						
57.0		D57	4.0	Very stiff to hard Grey medium plastic CLAY, few sand with mica		57.0	7	10	12	22						
58.0		D58				58.0	5	8	10	18						
59.0		D59				59.0	6	8	25	33						
60.0		D60				60.0	10	13	24	37						

Note : Boring Terminated at 65.0m from EGL
D for Disturbed sample
UD for Undisturbed sample




Cont'd.....


Logged by : Azhar
Check by : Mahabub

Project : Construction of Meghna-Gumti Bridge					Client : Oriental Consultants Co. Ltd.											
Bore Hole No. : P3					Existing Ground Level : -9.9m											
Method of Boring : Percussion					Ground/ Water Level : -3.51m											
Boring Dia. : 100mm					Date Started : 27-02-2012											
Depth of Boring : 65.0m					Date Completed : 29-02-2012											
Legend :					 SAND	 SILT	 CLAY									
Co-ordinates :																
Location of Boring : Daudkandi						Blows on spoon			Graphical Representation							
Depth below G.L. (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	15 cm penetration	15 cm penetration	15 cm penetration	N-Values	10	20	30	40	50	60
61.0		D61	6.0	Dense to very dense Light grey fine SAND with trace of mica		61.0	50	-	-	50	For 150mm penetration					
62.0		D62				62.0	50	-	-	50	For 150mm penetration					
63.0		D63				63.0	50	-	-	50	For 150mm penetration					
64.0		D64				64.0	50	-	-	50	For 150mm penetration					
65.0		D65				65.0	50	-	-	50	For 150mm penetration					
				End of Boring												
66.0		D66														
67.0		D67														
68.0		D68														
69.0		D69														
70.0		D70														
71.0		D71														
72.0		D72														
73.0		D73														
74.0		D74														
75.0		D75														
76.0		D76														
77.0		D77														
78.0		D78														
79.0		D79														
80.0		D80														

Note : Boring Terminated at 65.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Logged by : Azhar
Check by : Mahabub





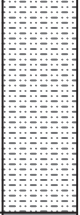

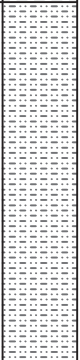
Project : Construction of Meghna-Gumti Bridge		Client : Oriental Consultants Co. Ltd.	
Bore Hole No. : P4	Method of Boring : Percussion	Existing Ground Level : -8.4m	Ground/ Water Level : -1.96m
Boring Dia. : 100mm	Depth of Boring : 66.0m	Date Started : 24-02-2012	Date Completed : 26-02-2012
Legend :		 SAND	 SILT
		 CLAY	
Co-ordinates :			

Location of Boring : Daudkandi						Blows on spoon				Graphical Representation	
Depth below G.L. (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	15 cm penetration	15 cm penetration	15 cm penetration	N-Values	
1.0	D1		19.0	Medium dense Light grey to grey silty very fine SAND with trace of mica		1.0	8	10	13	23	
2.0	D2	2.0				10	12	14	26		
3.0	D3	3.0				3	11	13	24		
4.0	D4	4.0				12	15	18	33		
5.0	D5	5.0				14	18	22	40		
6.0	D6	6.0				8	10	14	24		
7.0	D7	7.0				6	8	9	17		
8.0	D8	8.0				3	5	7	12		
9.0	D9	9.0				6	11	13	24		
10.0	D10	10.0				7	9	10	19		
11.0	D11	11.0				5	6	8	14		
12.0	D12	12.0				4	5	9	14		
13.0	D13	13.0				6	6	7	13		
14.0	D14	14.0				6	7	9	16		
15.0	D15	15.0				5	6	10	16		
16.0	D16	16.0				6	8	10	18		
17.0	D17	17.0				9	6	6	12		
18.0	D18	18.0				6	7	9	16		
19.0	D19	19.0				5	7	8	15		
20.0	D20	20.0				11	38	12	50	For 200mm penetration	

Note : Boring Terminated at 66.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....





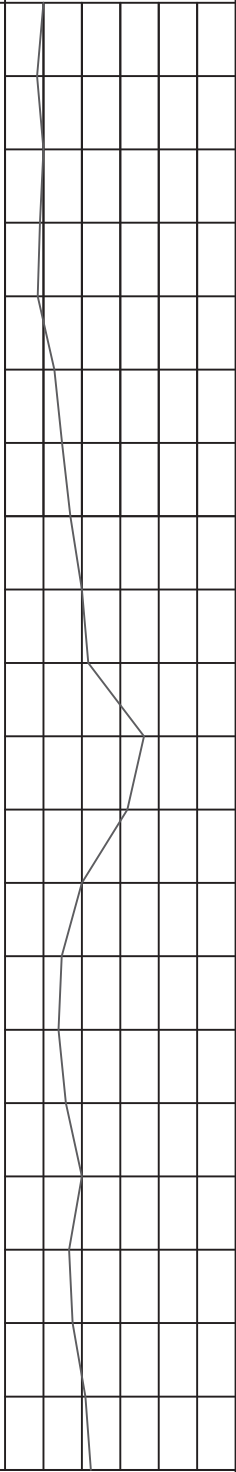
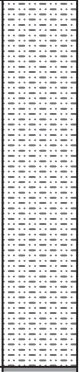
Logged by : Azhar
Check by : Mahabub

Project : Construction of Meghna-Gumti Bridge						Client : Oriental Consultants Co. Ltd.										
Bore Hole No. : P4						Existing Ground Level : -8.4m										
Method of Boring : Percussion						Ground/ Water Level : -1.96m										
Boring Dia. : 100mm						Date Started : 24-02-2012										
Depth of Boring : 66.0m						Date Completed : 26-02-2012										
Legend :						 SAND		 SILT		 CLAY						
Co-ordinates :																
Location of Boring : Daudkandi						Blows on spoon				Graphical Representation						
Depth below G.L. (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	15 cm penetration	15 cm penetration	15 cm penetration	N-Values	10	20	30	40	50	60
21.0		D21	3.0	Very dense Grey silty fine SAND with trace of mica		21.0	20	22	28	50	For 250mm penetration					
22.0		D22				22.0	20	23	27	50	For 250mm penetration					
23.0		D23	3.0	Stiff to very stiff Grey non plastic SILT with trace of mica		23.0	7	8	10	18						
24.0		D24				24.0	5	6	7	13						
25.0		D25				25.0	5	5	7	12						
26.0		D26	10.0	Stiff to very stiff Grey low plastic CLAY		26.0	5	6	8	14						
27.0		D27				27.0	6	7	8	15						
28.0		D28				28.0	6	8	9	17						
29.0		D29				29.0	7	10	8	18						
30.0		D30				30.0	6	7	9	16						
31.0		D31				31.0	5	6	8	14						
32.0		D32				32.0	4	5	6	11						
33.0		D33				33.0	5	6	6	12						
34.0		D34				34.0	5	6	8	14						
35.0		D35				35.0	4	6	7	13						
36.0		D36	14.0	Stiff to very stiff Light grey non plastic SILT with trace of mica		36.0	4	5	6	11						
37.0		D37				37.0	5	5	7	12						
38.0		D38				38.0	5	6	6	12						
39.0		D39				39.0	4	5	6	11						
40.0		D40				40.0	4	5	5	10						

Note : Boring Terminated at 66.0m from EGL
 D for Disturbed sample
 UD for Undisturbed sample

Cont'd.....





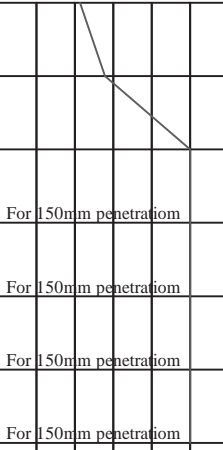
Logged by : Azhar
 Check by : Mahabub

Project : Construction of Meghna-Gumti Bridge					Client : Oriental Consultants Co. Ltd.										
Bore Hole No. : P4					Existing Ground Level : -8.4m										
Method of Boring : Percussion					Ground/ Water Level : -1.96m										
Boring Dia. : 100mm					Date Started : 24-02-2012										
Depth of Boring : 66.0m					Date Completed : 26-02-2012										
Legend :					 SAND  SILT  CLAY										
Co-ordinates :															
Location of Boring : Daudkandi						Blows on spoon				Graphical Representation					
Depth below G.L. (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	15 cm penetration	15 cm penetration	15 cm penetration	N-Values					
41.0		D41	2.0	Stiff to very stiff Grey low plastic CLAY		41.0	5	4	4	8					
42.0		D42				42.0	4	5	5	10					
43.0		D43				43.0	5	4	5	9					
44.0		D44				44.0	3	4	4	8					
45.0		D45				45.0	5	6	7	13					
46.0		D46				46.0	5	7	8	15					
47.0		D47				47.0	6	8	9	17					
48.0		D48				48.0	6	9	11	20					
49.0		D49				49.0	8	10	12	22					
50.0		D50				10.0	Very stiff to hard Grey non plastic SILT with trace of mica		50.0	9		12	25	37	
51.0		D51	51.0	12	14				18	32					
52.0		D52	52.0	8	9				11	20					
53.0		D53	53.0	6	7				8	15					
54.0		D54	54.0	5	6				8	14					
55.0		D55	55.0	6	7				9	16					
56.0		D56	56.0	6	8				12	20					
57.0		D57	57.0	5	8				9	17					
58.0		D58	58.0	6	8				10	18					
59.0		D59	59.0	7	9				12	21					
60.0		D60	60.0	8	10	12	22								

Note : Boring Terminated at 66.0m from EGL
D for Disturbed sample
UD for Undisturbed sample





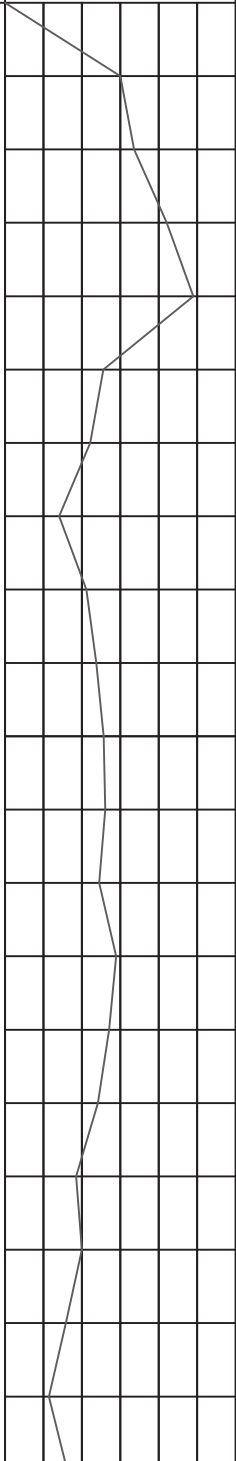

Cont'd.....

Logged by : Azhar
Check by : Mahabub

Project : Construction of Meghna-Gumti Bridge					Client : Oriental Consultants Co. Ltd.							
Bore Hole No. : P4					Existing Ground Level : -8.4m							
Method of Boring : Percussion					Ground/ Water Level : -1.96m							
Boring Dia. : 100mm					Date Started : 24-02-2012							
Depth of Boring : 66.0m					Date Completed : 26-02-2012							
Legend :					 SAND  SILT  CLAY							
Co-ordinates :												
Location of Boring : Daudkandi					Blows on spoon				Graphical Representation			
Depth below G.L. (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	15 cm penetration	15 cm penetration	15 cm penetration	N-Values	10 20 30 40 50 60	
61.0		D61	5.0	Very dense Grey silty fine SAND with trace of mica		61.0	10	11	17	28		
62.0		D62			62.0	19	15	35	50			
63.0		D63			63.0	-	-	50	For 150mm penetration			
64.0		D64			64.0	-	-	50	For 150mm penetration			
65.0		D65			65.0	-	-	50	For 150mm penetration			
66.0		D66			66.0	-	-	50	For 150mm penetration			
67.0		D67		End of Boring								
68.0		D68										
69.0		D69										
70.0		D70										
71.0		D71										
72.0		D72										
73.0		D73										
74.0		D74										
75.0		D75										
76.0		D76										
77.0		D77										
78.0		D78										
79.0		D79										
80.0		D80										

Note : Boring Terminated at 66.0m from EGL
D for Disturbed sample
UD for Undisturbed sample





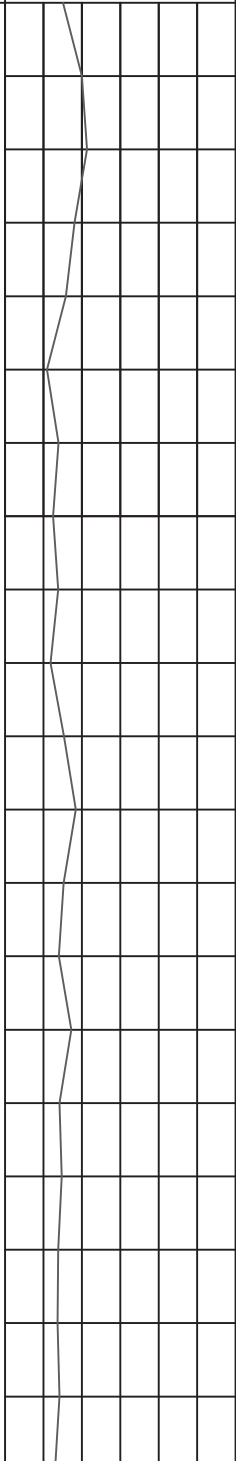




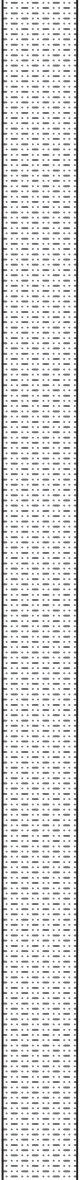














Logged by : Azhar
Check by : Mahabub

Project : Construction of Meghna-Gumti Bridge					Client : Oriental Consultants Co. Ltd.						
Bore Hole No. : P5					Existing Ground Level : -6.7m						
Method of Boring : Percussion					Ground/ Water Level : -1.83m						
Boring Dia. : 100mm					Date Started : 22-02-2012						
Depth of Boring : 67.0m					Date Completed : 24-02-2012						
Legend :					 SAND  SILT  CLAY						
Co-ordinates :											
Location of Boring : Daudkandi						Blows on spoon				Graphical Representation	
Depth below G.L. (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	15 cm penetration	15 cm penetration	15 cm penetration	N-Values	
1.0		D1	5.0	Dense Light grey to grey silty fine SAND with trace of mica		1.0	5	12	18	30	
2.0		D2				2.0	8	15	18	33	
3.0		D3				3.0	12	18	24	42	
4.0		D4				4.0	14	21	28	49	
5.0		D5				5.0	8	12	14	26	
6.0		D6	17.0	Medium dense Light grey to grey silty fine SAND with trace of mica		6.0	7	10	12	22	
7.0		D7				7.0	5	7	7	14	
8.0		D8				8.0	7	9	12	21	
9.0		D9				9.0	8	10	13	23	
10.0		D10				10.0	6	12	15	27	
11.0		D11				11.0	5	13	14	27	
12.0		D12				12.0	6	12	13	25	
13.0		D13				13.0	6	14	15	29	
14.0		D14				14.0	7	13	14	27	
15.0		D15				15.0	8	11	13	24	
16.0		D16				16.0	10	12	7	19	
17.0		D17				17.0	7	10	10	20	
18.0		D18				18.0	6	8	9	17	
19.0		D19				19.0	5	6	5	11	
20.0		D20				20.0	6	7	9	16	

Note : Boring Terminated at 67.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....




Logged by : Azhar
Check by : Mahabub


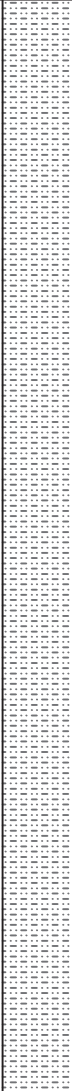
Project : Construction of Meghna-Gumti Bridge					Client : Oriental Consultants Co. Ltd.										
Bore Hole No. : P5					Existing Ground Level : -6.7m										
Method of Boring : Percussion					Ground/ Water Level : -1.83m										
Boring Dia. : 100mm					Date Started : 22-02-2012										
Depth of Boring : 67.0m					Date Completed : 24-02-2012										
Legend :					 SAND  SILT  CLAY										
Co-ordinates :															
Location of Boring : Daudkandi					Blows on spoon				Graphical Representation						
Depth below G.L. (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	15 cm penetration	15 cm penetration	15 cm penetration	N-Values	10 20 30 40 50 60				
21.0		D21				21.0	7	9	11	20					
22.0		D22				22.0	8	10	11	21					
23.0		D23				23.0	7	8	10	18					
24.0		D24				24.0	6	7	9	16					
25.0		D25				25.0	3	5	6	11					
26.0		D26	19.0	Stiff to very stiff Light grey to grey non plastic SILT with trace of mica		26.0	4	6	7	13					
27.0		D27				27.0	4	5	7	12					
28.0		D28				28.0	5	6	8	14					
29.0		D29				29.0	4	5	7	12					
30.0		D30				30.0	6	7	9	16					
31.0		D31				31.0	6	8	10	18					
32.0		D32				32.0	5	7	8	15					
33.0		D33				33.0	5	6	8	14					
34.0		D34				34.0	6	8	9	17					
35.0		D35				35.0	5	6	8	14					
36.0		D36				36.0	6	7	8	15					
37.0		D37				37.0	4	6	7	13					
38.0		D38				38.0	5	7	6	13					
39.0		D39				39.0	5	6	8	14					
40.0		D40				40.0	6	6	7	13					

Note : Boring Terminated at 67.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....

Logged by : Azhar
Check by : Mahabub





Project : Construction of Meghna-Gumti Bridge		Client : Oriental Consultants Co. Ltd.	
Bore Hole No.	: P5	Existing Ground Level	: -6.7m
Method of Boring	: Percussion	Ground/ Water Level	: -1.83m
Boring Dia.	: 100mm	Date Started	: 22-02-2012
Depth of Boring	: 67.0m	Date Completed	: 24-02-2012
Legend :			
		SAND	SILT
			CLAY
Co-ordinates :			

Location of Boring : Daudkandi						Blows on spoon				Graphical Representation								
Depth below G.L. (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	15 cm penetration	15 cm penetration	15 cm penetration	N-Values	10	20	30	40	50	60		
41.0		D41	4.0	Stiff Dark grey low to medium plastic CLAY with organic		41.0	5	7	7	14								
42.0		D42				42.0	4	4	6	10								
43.0		D43				43.0	5	6	6	12								
44.0		D44				44.0	5	6	7	13								
45.0		D45				45.0	6	8	7	15								
46.0		D46	4.0	Stiff to Very stiff Grey non plastic SILT with trace of mica		46.0	4	5	6	11								
47.0		D47				47.0	6	6	7	13								
48.0		D48				48.0	5	6	5	11								
49.0		D49				49.0	5	7	6	13								
50.0		D50				50.0	7	8	9	17								
51.0		D51				51.0	6	8	8	16								
52.0		D52				52.0	5	7	8	15								
53.0		D53				53.0	5	6	8	14								
54.0		D54				54.0	5	7	8	15								
55.0		D55				55.0	5	6	7	13								
56.0		D56	10.0			56.0	6	6	8	14								
57.0		D57				57.0	5	6	6	12								
58.0		D58				58.0	7	8	7	15								
59.0		D59				59.0	6	9	7	16								
60.0		D60				60.0	5	7	7	14								

Note : Boring Terminated at 67.0m from EGL
D for Disturbed sample
UD for Undisturbed sample






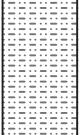

Cont'd.....

Logged by : Azhar
Check by : Mahabub

Project : Construction of Meghna-Gumti Bridge					Client : Oriental Consultants Co. Ltd.														
Bore Hole No. : P5					Existing Ground Level : -6.7m														
Method of Boring : Percussion					Ground/ Water Level : -1.83m														
Boring Dia. : 100mm					Date Started : 22-02-2012														
Depth of Boring : 67.0m					Date Completed : 24-02-2012														
Legend :					 SAND	 SILT	 CLAY												
Co-ordinates :																			
Location of Boring : Daudkandi						Blows on spoon			Graphical Representation										
Depth below G.L. (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	15 cm penetration	15 cm penetration	15 cm penetration	N-Values	10	20	30	40	50	60			
61.0		D61	5.0	Very dense Grey silty fine SAND with trace of mica		61.0	8	9	10	19									
62.0		D62				62.0	7	10	11	21									
63.0		D63				63.0	22	50	-	50	For 150mm penetration								
64.0		D64				64.0	50	-	-	50	For 150mm penetration								
65.0		D65				65.0	50	-	-	50	For 150mm penetration								
66.0		D66				66.0	50	-	-	50	For 150mm penetration								
67.0		D67				67.0	50	-	-	50	For 150mm penetration								
68.0		D68				End of Boring													
69.0		D69																	
70.0		D70																	
71.0		D71																	
72.0		D72																	
73.0		D73																	
74.0		D74																	
75.0		D75																	
76.0		D76																	
77.0		D77																	
78.0		D78																	
79.0		D79																	
80.0		D80																	

Note : Boring Terminated at 67.0m from EGL
D for Disturbed sample
UD for Undisturbed sample




Logged by : Azhar
Check by : Mahabub


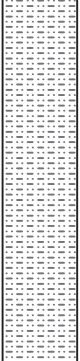

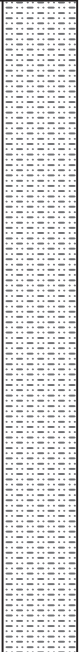
Project : Construction of Meghna-Gumti Bridge					Client : Oriental Consultants Co. Ltd.						
Bore Hole No. : P6					Existing Ground Level : -6.1m						
Method of Boring : Percussion					Ground/ Water Level : -3.8m						
Boring Dia. : 100mm					Date Started : 20-02-2012						
Depth of Boring : 66.0m					Date Completed : 22-02-2012						
Legend :					 SAND  SILT  CLAY						
Co-ordinates :											
Location of Boring : Daudkandi						Blows on spoon				Graphical Representation	
Depth below G.L. (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	15 cm penetration	15 cm penetration	15 cm penetration	N-Values	
1.0	D1		3.0	Vrey dense to dense Light grey fine SAND with trace of mica		1.0	9	24	31	55	
2.0	D2					2.0	8	10	27	37	
3.0	D3					3.0	9	11	22	33	
4.0	D4		11.0	Medium dense Light grey to grey fine SAND with trace of mica		4.0	8	10	12	22	
5.0	D5					5.0	6	8	10	18	
6.0	D6					6.0	5	7	8	15	
7.0	D7					7.0	6	7	9	16	
8.0	D8					8.0	5	6	8	14	
9.0	D9					9.0	7	8	10	18	
10.0	D10					10.0	6	7	8	15	
11.0	D11					11.0	6	7	9	16	
12.0	D12					12.0	8	9	10	19	
13.0	D13					13.0	7	8	10	18	
14.0	D14					14.0	6	7	8	15	
15.0	D15		2.0	Stiff Grey non plastic SILT		15.0	3	4	5	9	
16.0	D16					16.0	4	6	7	13	
17.0	D17					17.0	4	7	8	15	
18.0	D18		9.0	Medium dense Grey silty fine SAND with trace of mica		18.0	5	8	10	18	
19.0	D19					19.0	6	10	12	22	
20.0	D20					20.0	5	11	12	23	

Note : Boring Terminated at 66.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....

Logged by : Azhar
Check by : Mahabub




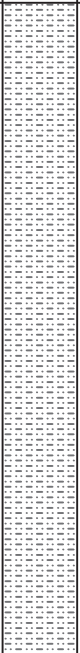

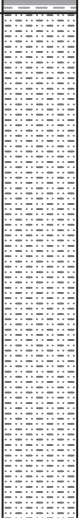
Project : Construction of Meghna-Gumti Bridge		Client : Oriental Consultants Co. Ltd.	
Bore Hole No.	: P6	Existing Ground Level	: -6.1m
Method of Boring	: Percussion	Ground/ Water Level	: -3.8m
Boring Dia.	: 100mm	Date Started	: 20-02-2012
Depth of Boring	: 66.0m	Date Completed	: 22-02-2012
Legend :			
		SAND	SILT
			CLAY
Co-ordinates :			

Location of Boring : Daudkandi						Blows on spoon				Graphical Representation							
Depth below G.L. (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	15 cm penetration	15 cm penetration	15 cm penetration	N-Values	10	20	30	40	50	60	
21.0		D21	5.0	Medium dense Grey silty fine SAND with trace of mica		21.0	7	12	14	26							
22.0		D22				22.0	7	11	12	23							
23.0		D23				23.0	6	8	10	18							
24.0		D24	3.0	Stiff Grey non plastic SILT with trace of mica		24.0	6	6	8	14							
25.0		D25				25.0	4	6	6	12							
26.0		D26				26.0	5	7	6	13							
27.0		D27				27.0	5	6	7	13							
28.0		D28				28.0	5	7	7	14							
29.0		D29	3.0	Stiff Grey medium plastic CLAY		29.0	4	8	8	16							
30.0		D30				30.0	6	7	8	15							
31.0		D31				31.0	5	6	7	13							
32.0		D32	18.0	Stiff to very stiff Grey non plastic SILT with trace of mica		32.0	6	7	7	14							
33.0		D33				33.0	5	6	6	12							
34.0		D34				34.0	4	5	5	10							
35.0		D35				35.0	4	5	7	12							
36.0		D36				36.0	3	5	6	11							
37.0		D37				37.0	4	6	4	10							
38.0		D38				38.0	5	5	6	11							
39.0		D39				39.0	5	4	5	9							
40.0		D40	40.0	4	5	5	10										

Note : Boring Terminated at 66.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....





Logged by : Azhar
Check by : Mahabub

Project : Construction of Meghna-Gumti Bridge					Client : Oriental Consultants Co. Ltd.													
Bore Hole No. : P6					Existing Ground Level : -6.1m													
Method of Boring : Percussion					Ground/ Water Level : -3.8m													
Boring Dia. : 100mm					Date Started : 20-02-2012													
Depth of Boring : 66.0m					Date Completed : 22-02-2012													
Legend :					 SAND  SILT  CLAY													
Co-ordinates :																		
Location of Boring : Daudkandi						Blows on spoon			Graphical Representation									
Depth below G.L. (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	15 cm penetration	15 cm penetration	15 cm penetration	N-Values	10	20	30	40	50	60		
41.0		D41	4.0	Stiff to very stiff Grey non plastic SILT with trace of mica		41.0	5	5	6	11								
42.0		D42				42.0	4	4	6	10								
43.0		D43				43.0	5	4	5	9								
44.0		D44				44.0	4	5	5	10								
45.0		D45				45.0	5	5	6	11								
46.0		D46				46.0	6	7	10	17								
47.0		D47				47.0	6	8	13	21								
48.0		D48				48.0	7	10	17	27								
49.0		D49				49.0	6	9	12	21								
50.0		D50	7.0	Stiff to very stiff Dark grey medium plastic CLAY with organic matter		50.0	5	8	10	18								
51.0		D51				51.0	6	7	9	16								
52.0		D52				52.0	5	6	8	14								
53.0		D53				53.0	6	6	7	13								
54.0		D54				54.0	6	7	8	15								
55.0		D55				55.0	5	7	7	14								
56.0		D56	7.0	Stiff to very stiff Grey non plastic SILT with trace of mica		56.0	4	5	6	11								
57.0		D57				57.0	5	5	7	12								
58.0		D58				58.0	6	7	7	14								
59.0		D59				59.0	8	8	10	18								
60.0		D60				60.0	7	8	9	17								

Note : Boring Terminated at 66.0m from EGL
D for Disturbed sample
UD for Undisturbed sample






Cont'd.....

Logged by : Azhar
Check by : Mahabub

Project : Construction of Meghna-Gumti Bridge					Client : Oriental Consultants Co. Ltd.											
Bore Hole No. : P6					Existing Ground Level : -6.1m											
Method of Boring : Percussion					Ground/ Water Level : -3.8m											
Boring Dia. : 100mm					Date Started : 20-02-2012											
Depth of Boring : 66.0m					Date Completed : 22-02-2012											
Legend :					 SAND	 SILT	 CLAY									
Co-ordinates :																
Location of Boring : Daudkandi						Blows on spoon			Graphical Representation							
Depth below G.L. (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	15 cm penetration	15 cm penetration	15 cm penetration	N-Values	10	20	30	40	50	60
61.0		D61	6.0	Very dense Grey silty fine SAND with trace of mica		61.0	23	50	-	50	For 150mm penetration					
62.0		D62				62.0	50	-	-	50	For 150mm penetration					
63.0		D63				63.0	50	-	-	50	For 150mm penetration					
64.0		D64				64.0	50	-	-	50	For 150mm penetration					
65.0		D65				65.0	50	-	-	50	For 150mm penetration					
66.0		D66				66.0	57	-	-	57	For 150mm penetration					
67.0		D67		End of Boring												
68.0		D68														
69.0		D69														
70.0		D70														
71.0		D71														
72.0		D72														
73.0		D73														
74.0		D74														
75.0		D75														
76.0		D76														
77.0		D77														
78.0		D78														
79.0		D79														
80.0		D80														

Note : Boring Terminated at 66.0m from EGL
D for Disturbed sample
UD for Undisturbed sample






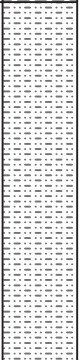
Logged by : Azhar
Check by : Mahabub

Project : Construction of Meghna-Gumti Bridge						Client : Oriental Consultants Co. Ltd.												
Bore Hole No. : P7						Existing Ground Level : -3.9m												
Method of Boring : Percussion						Ground/ Water Level : -3.11m												
Boring Dia. : 100mm						Date Started : 18-02-2012												
Depth of Boring : 68.0m						Date Completed : 20-02-2012												
Legend :						 SAND		 SILT		 CLAY								
Co-ordinates :																		
Location of Boring : Daudkandi						Blows on spoon				Graphical Representation								
Depth below G.L. (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	15 cm penetration	15 cm penetration	15 cm penetration	N-Values	10	20	30	40	50	60		
1.0	D1		7.0	Very loose to loose Grey silty very fine SAND with trace of mica		1.0	1	0	1	1								
2.0	D2					2.0	3	3	4	7								
3.0	D3					3.0	3	4	4	8								
4.0	D4					4.0	2	4	3	7								
5.0	D5					5.0	4	5	4	9								
6.0	D6					6.0	4	4	4	8								
7.0	D7					7.0	4	3	5	8								
8.0	D8		21.0	Medium dense Grey silty fine SAND with trace of mica		8.0	5	7	8	15								
9.0	D9					9.0	5	8	8	16								
10.0	D10					10.0	5	6	8	14								
11.0	D11					11.0	6	7	8	15								
12.0	D12					12.0	3	4	6	10								
13.0	D13					13.0	6	7	9	16								
14.0	D14					14.0	5	6	9	15								
15.0	D15					15.0	6	7	10	17								
16.0	D16					16.0	8	10	12	22								
17.0	D17					17.0	9	11	12	23								
18.0	D18					18.0	7	9	10	19								
19.0	D19					19.0	6	8	10	18								
20.0	D20					20.0	8	10	11	21								

Note : Boring Terminated at 68.0m from EGL
 D for Disturbed sample
 UD for Undisturbed sample

Cont'd.....




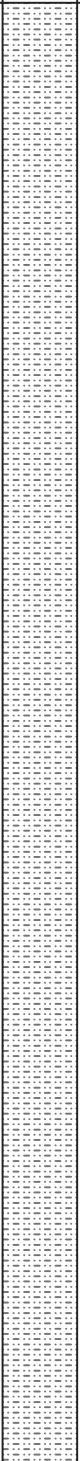
Logged by : Azhar
 Check by : Mahabub

Project : Construction of Meghna-Gumti Bridge					Client : Oriental Consultants Co. Ltd.													
Bore Hole No. : P7					Existing Ground Level : -3.9m													
Method of Boring : Percussion					Ground/ Water Level : -3.11m													
Boring Dia. : 100mm					Date Started : 18-02-2012													
Depth of Boring : 68.0m					Date Completed : 20-02-2012													
Legend :					 SAND  SILT  CLAY													
Co-ordinates :																		
Location of Boring : Daudkandi						Blows on spoon				Graphical Representation								
Depth below G.L. (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	15 cm penetration	15 cm penetration	15 cm penetration	N-Values	10	20	30	40	50	60		
21.0		D21	7.0	Medium dense Grey silty fine SAND with trace of mica		21.0	7	9	12	21								
22.0		D22				22.0	8	10	13	23								
23.0		D23				23.0	6	9	10	19								
24.0		D24				24.0	5	8	11	19								
25.0		D25				25.0	7	9	12	21								
26.0		D26				26.0	6	8	10	18								
27.0		D27				27.0	7	9	10	19								
28.0		D28				28.0	4	5	6	11								
29.0		D29	7.0	Stiff Grey medium plastic CLAY		29.0	6	5	4	9								
30.0		D30				30.0	5	6	6	12								
31.0		D31				31.0	5	5	6	11								
32.0		D32				32.0	6	6	7	13								
33.0		D33				33.0	7	5	7	12								
34.0		D34				34.0	5	4	6	10								
35.0		D35				35.0	4	4	5	9								
36.0		D36	7.0	Stiff to very stiff Grey non plastic SILT with trace of mica		36.0	6	5	6	11								
37.0		D37				37.0	5	7	7	14								
38.0		D38				38.0	6	6	7	13								
39.0		D39				39.0	5	6	8	14								
40.0		D40				40.0	6	7	7	14								

Note : Boring Terminated at 68.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....




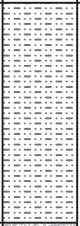
Logged by : Azhar
Check by : Mahabub

Project : Construction of Meghna-Gumti Bridge					Client : Oriental Consultants Co. Ltd.													
Bore Hole No. : P7					Existing Ground Level : -3.9m													
Method of Boring : Percussion					Ground/ Water Level : -3.11m													
Boring Dia. : 100mm					Date Started : 18-02-2012													
Depth of Boring : 68.0m					Date Completed : 20-02-2012													
Legend :					 SAND		 SILT		 CLAY									
Co-ordinates :																		
Location of Boring : Daudkandi						Blows on spoon			Graphical Representation									
Depth below G.L. (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	15 cm penetration	15 cm penetration	15 cm penetration	N-Values	10	20	30	40	50	60		
41.0		D41	28.0	Stiff to very stiff Grey non plastic SILT with trace of mica		41.0	5	5	6	11								
42.0		D42				42.0	5	6	7	13								
43.0		D43				43.0	6	6	5	11								
44.0		D44				44.0	5	6	6	12								
45.0		D45				45.0	4	5	6	11								
46.0		D46				46.0	6	8	5	13								
47.0		D47				47.0	5	4	6	10								
48.0		D48				48.0	7	6	6	12								
49.0		D49				49.0	6	7	5	12								
50.0		D50				50.0	5	6	7	13								
51.0		D51				51.0	4	7	5	12								
52.0		D52				52.0	4	5	6	11								
53.0		D53				53.0	6	7	7	14								
54.0		D54				54.0	7	7	6	13								
55.0		D55				55.0	5	7	8	15								
56.0		D56				56.0	8	6	7	13								
57.0		D57				57.0	6	8	6	14								
58.0		D58				58.0	5	9	6	15								
59.0		D59				59.0	7	6	7	13								
60.0		D60				60.0	8	7	9	16								

Note : Boring Terminated at 68.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Cont'd.....

Logged by : Azhar
Check by : Mahabub

Project : Construction of Meghna-Gumti Bridge					Client : Oriental Consultants Co. Ltd.													
Bore Hole No. : P7					Existing Ground Level : -3.9m													
Method of Boring : Percussion					Ground/ Water Level : -3.11m													
Boring Dia. : 100mm					Date Started : 18-02-2012													
Depth of Boring : 68.0m					Date Completed : 20-02-2012													
Legend :					 SAND  SILT  CLAY													
Co-ordinates :																		
Location of Boring : Daudkandi						Blows on spoon			Graphical Representation									
Depth below G.L. (m)	Type of Sample	Sample No.	Thickness in (m)	DESCRIPTION OF SOIL STRATA	Symbol	SPT intervals (m)	15 cm penetration	15 cm penetration	15 cm penetration	N-Values	10	20	30	40	50	60		
61.0		D61	5.0	Very dense Grey to light brown fine SAND with trace of mica		61.0	9	8	7	15								
62.0		D62				62.0	7	9	10	19								
63.0		D63				63.0	10	10	12	22								
64.0		D64				64.0	63	-	-	63	For 150mm penetration							
65.0		D65				65.0	50	-	-	50	For 150mm penetration							
66.0		D66				66.0	50	-	-	50	For 150mm penetration							
67.0		D67				67.0	50	-	-	50	For 150mm penetration							
68.0		D68				68.0	50	-	-	50	For 150mm penetration							
69.0		D69		End of Boring														
70.0		D70																
71.0		D71																
72.0		D72																
73.0		D73																
74.0		D74																
75.0		D75																
76.0		D76																
77.0		D77																
78.0		D78																
79.0		D79																
80.0		D80																

Note : Boring Terminated at 68.0m from EGL
D for Disturbed sample
UD for Undisturbed sample

Logged by : Azhar
Check by : Mahabub