

7. Result of Soil Investigation

[7.Result of Soil Investigation]

FIELD BORING LOG

PROJECT NAME : School Cum Cyclone Shelter Project

LOCATION : Mi Kyaung Ai Village , Labutta Township

BORING METHOD : Rotary

BORING EQUIPMENT : TOHO - D1

BOREHOLE NO. : BH-Mi Kyaung Ai (Labutta)

DATE : from 21.3.09 to 22.3.09

ORIENTATION : Vertical

ELEVATION : EL-

WATER LEVEL : GL - 1.11m

| SCALE (m) | ELEVATION (m) | DEPTH (m) | THICKNESS (m) | DIAGRAM | COLOUR | SOIL NAME | DESCRIPTION | DATE & DEPTH (m) | CASING DEPTH (m) | WATER DEPTH (m) | STANDARD PENETRATION TEST | | | | | | SAMPLE / TEST | | SCALE (m) | | |
|-----------|---------------|-----------|---------------|---------|-----------------------------|-----------------|---|------------------|------------------|-----------------|---------------------------|------------|-----------------|----|----|----|---------------|-----|-----------|--------|----------------|
| | | | | | | | | | | | DEPTH (m) | BLOWS / cm | CURVE OF BLOW ● | | | | | | | METHOD | DEPTH CL - (m) |
| | | | | | | | | | | | | | 0 | 10 | 20 | 30 | 40 | 50 | | | |
| 1 | | 1.30 | 1.30 | | yellowish gray | SILT/CLAY | Very soft, yellowish gray, low plastic SILT / CLAY with a trace of roots. | | 1.00 112mm | 1.11 22.3.09 | 1.00 | 3/30 | | | | | | P1 | | 1 | |
| 2 | | | | | | | | | | | 2.00 | 7/30 | | | | | | P2 | | 2 | |
| 3 | | | | | | | | | | | 3.00 | 10/30 | | | | | | P3 | | 3 | |
| 4 | | | | | | | | | | | 4.00 | 5/30 | | | | | | P4 | | 4 | |
| 5 | | | | | | | | | | | 5.00 | 11/30 | | | | | | P5 | | 5 | |
| 6 | | | | | | | | | | | 6.00 | 7/30 | | | | | | P6 | | 6 | |
| 7 | | | | | | | | | | | 7.00 | 4/30 | | | | | | P7 | | 7 | |
| 8 | | | | | | | | | | | 8.00 | 8/30 | | | | | | P8 | | 8 | |
| 9 | | | | | | | | | | | 9.00 | 12/30 | | | | | | P9 | | 9 | |
| 10 | | | | | | | | | 10.00 90mm | | 10.00 | 5/30 | | | | | | P10 | | 10 | |
| 11 | | | | | greenish gray & bluish gray | Silty SAND | Very loose to medium dense, greenish gray to bluish gray, fine to medium grained, slightly Silty to Silty SAND with occasional clay patches. Mica flakes and decay wood contain abundantly. Shell fragments contain occasionally. Silt content increase downward. | | | | 11.00 | 7/30 | | | | | | P11 | | 11 | |
| 12 | | | | | | | | | | | 12.00 | 6/30 | | | | | | P12 | | 12 | |
| 13 | | | | | | | | | | | 13.00 | 9/30 | | | | | | P13 | | 13 | |
| 14 | | | | | | | | | | | 14.00 | 5/30 | | | | | | P14 | | 14 | |
| 15 | | | | | | | | 15.00 21.3.09 | | | 15.00 | 5/30 | | | | | | P15 | | 15 | |
| 16 | | | | | | | | | | | 16.00 | 9/30 | | | | | | P16 | | 16 | |
| 17 | | | | | | | | | | | 17.00 | 15/30 | | | | | | P17 | | 17 | |
| 18 | | | | | | | | | | | 18.00 | 15/30 | | | | | | P18 | | 18 | |
| 19 | | | | | | | | | | | 19.00 | 25/30 | | | | | | P19 | | 19 | |
| 20 | | | | | | | | | | | 20.00 | 19/30 | | | | | | P20 | | 20 | |
| 21 | | | | | | | | | | | 21.00 | 29/30 | | | | | | P21 | | 21 | |
| 22 | | 22.00 | 20.70 | | | | | | | | 22.00 | 11/30 | | | | | | P22 | | 22 | |
| 23 | | | | | bluish gray | Sandy SILT/CLAY | Soft to firm, bluish gray, low to medium plastic, slightly to very Sandy SILT / CLAY with a trace of mica flakes and occasional shell fragments. Sand content decreased downward. | | | | 23.00 | 6/30 | | | | | | P23 | | 23 | |
| 24 | | | | | | | | | | | 24.00 | 7/30 | | | | | | P24 | | 24 | |
| 25 | | | | | | | | | | | 25.00 | 8/30 | | | | | | P25 | | 25 | |
| 26 | | | | | | | | | | | 26.00 | 6/30 | | | | | | P26 | | 26 | |
| 27 | | | | | | | | | | | 27.00 | 12/30 | | | | | | P27 | | 27 | |
| 28 | | | | | | | | | | | 28.00 | 11/30 | | | | | | P28 | | 28 | |
| 29 | | | | | | | | | | | 29.00 | 5/30 | | | | | | P29 | | 29 | |
| 30 | | 30.50 | 8.50 | | | | | 30.50 22.3.09 | | | 30.00 | 6/30 | | | | | | P30 | | 30 | |
| 31 | | | | | | | | | | | 31.00 | | | | | | | | | 31 | |

Rock Classification

Weathered Rock : Weathered rock with abundant fragments and soil

Soft rock 1 : Rock with slightly abundant fragments

Soft rock 2 : Rock in considerable fresh condition

Semi hard rock

Hard rock : Rock in almost fresh condition

Hard rock

Hard rock

NOTES



RELATIVE DENSITY

VL Very Loose
L Loose
M Medium
D Dense
VD Very Dense

CONSISTENCY

VS Very Soft
S Soft
M Medium
St Stiff
VSt Very Stiff
H Hard

SAMPLE METHOD

Undisturbed : (T: Thin wall sampler, D: Denison sampler)

SPT :

DOUBLE CORE :

Water Sampling :

(T: Thin wall sampler, D: Denison sampler)
SINGLE CORE :
w

DEPTH

UPPER
RECOVERY
cm / cm
LOWER

FIELD BORING LOG

PROJECT NAME : School Cum Cyclone Shelter Project
 LOCATION : Chan Thar Gone Village, Labutta Township
 BORING METHOD : Rotary
 BORING EQUIPMENT : TOHO - D2

BOREHOLE NO. : BH-Chan Thar Gone (Labutta)
 DATE : from 15.3.09 to 16.3.09
 ORIENTATION : Vertical
 ELEVATION : EL
 WATER LEVEL : GL - 1.30 m

| SCALE (m) | ELEVATION (m) | DEPTH (m) | THICKNESS (m) | DIAGRAM | COLOUR | SOIL NAME | DESCRIPTION | DATE & DEPTH (m) | CASING DEPTH (m) | WATER DEPTH (m) | STANDARD PENETRATION TEST | | | | | | SAMPLE / TEST | | SCALE (m) | |
|-----------|---------------|-----------|---------------|---------|------------------------------|------------|---|------------------|------------------|-----------------|---------------------------|------------|-----------------|----|----|----|---------------|--------|-----------|----------------|
| | | | | | | | | | | | DEPTH (m) | BLOWS / cm | CURVE OF BLOW ● | | | | | METHOD | | DEPTH CL - (m) |
| | | | | | | | | | | | | | 0 | 10 | 20 | 30 | 40 | | | |
| 1 | | | | | yellowish brown & dark brown | CLAY | Very loose to loose, yellowish brown and dark brown, fine to medium grained SAND with organic matters | | | 1.30 | 1.00 | 3/30 | | | | | | P1 | | 1 |
| 2 | | 2.00 | 2.00 | | bluish gray to dark gray | Silty SAND | Very loose to loose, bluish gray to drak gray, fine grained silty SAND with abundant mica. | | | 16.3.09 | 2.00 | 8/30 | | | | | | P2 | | 2 |
| 3 | | | | | | | | | | 15.3.09 | 3.00 | 2/30 | | | | | | P3 | | 3 |
| 4 | | 4.00 | 2.00 | | | | | | | | 4.00 | 9/30 | | | | | | P4 | | 4 |
| 5 | | | | | | | | | | | 5.00 | 5/30 | | | | | | P5 | | 5 |
| 6 | | | | | | | | | | | 6.00 | 8/30 | | | | | | P6 | | 6 |
| 7 | | | | | | | | | | | 7.00 | 6/30 | | | | | | P7 | | 7 |
| 8 | | | | | | | | | | | 8.00 | 7/30 | | | | | | P8 | | 8 |
| 9 | | | | | | | | | | | 9.00 | 3/30 | | | | | | P9 | | 9 |
| 10 | | | | | | | | | | 10.0 | 10.00 | 8/30 | | | | | | P10 | | 10 |
| 11 | | | | | | | | | | 112mm | 11.00 | 3/30 | | | | | | P11 | | 11 |
| 12 | | | | | | | | | | | 12.00 | 11/30 | | | | | | P12 | | 12 |
| 13 | | 13.00 | 9.00 | | | | | | | | 13.00 | 12/30 | | | | | | P13 | | 13 |
| 14 | | | | | | | | | | | 14.00 | 12/30 | | | | | | P14 | | 14 |
| 15 | | | | | | | | | | | 15.00 | 10/30 | | | | | | P15 | | 15 |
| 16 | | | | | | | | | | 16.00 | 16.00 | 10/30 | | | | | | P16 | | 16 |
| 17 | | | | | | | | | | 15.3.09 | 17.00 | 14/30 | | | | | | P17 | | 17 |
| 18 | | | | | | | | | | | 18.00 | 16/30 | | | | | | P18 | | 18 |
| 19 | | | | | | | | | | | 19.00 | 12/30 | | | | | | P19 | | 19 |
| 20 | | 20.00 | 7.00 | | | | | | | | 20.00 | 4/30 | | | | | | P20 | | 20 |
| 21 | | | | | | | | | | | 21.00 | 4/30 | | | | | | P21 | | 21 |
| 22 | | | | | | | | | | | 22.00 | 3/30 | | | | | | P22 | | 22 |
| 23 | | | | | | | | | | | 23.00 | 6/30 | | | | | | P23 | | 23 |
| 24 | | | | | | | | | | | 24.00 | 4/30 | | | | | | P24 | | 24 |
| 25 | | | | | | | | | | | 25.00 | 6/30 | | | | | | P25 | | 25 |
| 26 | | | | | | | | | | | 26.00 | 5/30 | | | | | | P26 | | 26 |
| 27 | | | | | | | | | | | 27.00 | 8/30 | | | | | | P27 | | 27 |
| 28 | | | | | | | | | | | 28.00 | 6/30 | | | | | | P28 | | 28 |
| 29 | | | | | | | | | | | 29.00 | 5/30 | | | | | | P29 | | 29 |
| 30 | | 30.50 | 10.50 | | | | | | | | 30.00 | 5/30 | | | | | | P30 | | 30 |
| 31 | | | | | | | | | | 30.50 | 31.00 | | | | | | | | | 31 |

Rock Classification
 Weathered Rock : Weathered rock with abundant fragments and soil
 Soft rock 1 : Rock with slightly abundant fragments
 Soft rock 2 : Rock in considerable fresh condition

Semi hard rock : Rock in almost fresh condition
 Hard rock : Rock in fresh condition



RELATIVE DENSITY
 VL Very Loose
 L Loose
 M Medium
 D Dense
 VD Very Dense

CONSISTENCY
 VS Very Soft
 S Soft
 M Medium
 St Stiff
 VSt Very Stiff
 H Hard

SAMPLE METHOD

Undisturbed : ☐ (T: Thin wall sampler, D: Denison sampler)
 SPT : ☒
 DOUBLE CORE : ☒
 Water Sampling : ☒

DEPTH

UPPER
 RECOVERY
 LOWER

FIELD BORING LOG

PROJECT NAME : School Cum Cyclone Shelter Project

LOCATION : Hlwa Zar Village, Labutta Township, Ayeyawaddy Division

BORING METHOD : Rotary

BORING EQUIPMENT : TONE

BOREHOLE NO. : BH - Hlwa Zar (Labutta)

DATE : from 23.3.09 to 24.3.09

ORIENTATION : Vertical

ELEVATION : EL-

WATER LEVEL : GL - 2.0 m

| SCALE (m) | ELEVATION (m) | DEPTH (m) | THICKNESS (m) | DIAGRAM | COLOUR | SOIL NAME | DESCRIPTION | DATE & DEPTH (m) | CASING DEPTH (m) | WATER DEPTH (m) | STANDARD PENETRATION TEST | | | | | | | SAMPLE / TEST | | SCALE (m) | |
|-----------|---------------|-----------|---------------|---------|--------------------------|-------------------|--|------------------|------------------|-----------------|---------------------------|------------|-----------------|----|----|----|----|---------------|----------------|----------------|----|
| | | | | | | | | | | | DEPTH (m) | BLOWS / cm | CURVE OF BLOW ● | | | | | SPT-NO | DEPTH CL - (m) | | |
| | | | | | | | | | | | | | 0 | 10 | 20 | 30 | 40 | | | | 50 |
| 1 | | | | | bluish gray | Sandy CLAY | Very soft to soft, bluish gray, medium to high plastic, Sandy CLAY with roots complex, organic fragments and mica flakes. The upper most portion shows its weather color, mottled yellowish brown and dark gray. Sand content increased downwards. | | | 1.80 | 1.00 | 4/30 | | | | | | | P1 | 1 | |
| 2 | | | | | bluish gray | Sandy CLAY | | | 2.00 | 2.00 | 2/30 | | | | | | | | P2 | 2 | |
| 3 | | | | | bluish gray | Sandy CLAY | | | 127mm | 24.3.09 | 3.00 | 2/30 | | | | | | | P3 | 3 | |
| 4 | | | | | bluish gray | Sandy CLAY | | | | | 4.00 | | | | | | | | UD1 | 4.00m | 4 |
| 5 | | 5.00 | 5.00 | | bluish gray | Very Silty SAND | Very loose, bluish gray, fine grained, Very Silty SAND with clay patches. Decay wood fragments and mica flakes contain abundantly. | | | | 5.00 | 3/30 | | | | | | | P4 | 4.80m 80/80 | 5 |
| 6 | | | | | bluish gray | Very Silty SAND | | | | | 6.00 | 3/30 | | | | | | | P5 | | 6 |
| 7 | | | | | bluish gray | Very Silty SAND | | | | | 7.00 | 2/30 | | | | | | | P6 | | 7 |
| 8 | | 8.00 | 3.00 | | bluish gray | Very Silty SAND | | | | | 8.00 | 2/30 | | | | | | | P7 | | 8 |
| 9 | | | | | bluish gray | Sandy SILT / CLAY | Very soft, bluish gray, low plastic, Sandy SILT / CLAY with decomposed wood fragments and mica mineral. Sand content increase downward. | | | | 9.00 | | | | | | | | UD2 | 9.00m | 9 |
| 10 | | | | | bluish gray | Sandy SILT / CLAY | | | | | 10.00 | 2/30 | | | | | | | P8 | 9.80m 40/80 | 10 |
| 11 | | | | | bluish gray | Sandy SILT / CLAY | | | | | 11.00 | 2/30 | | | | | | | P9 | | 11 |
| 12 | | | | | bluish gray | Sandy SILT / CLAY | | 11.50 | 23.3.09 | | 12.00 | 3/30 | | | | | | | P10 | | 12 |
| 13 | | | | | bluish gray | Sandy SILT / CLAY | | | | | 13.00 | 3/30 | | | | | | | P11 | | 13 |
| 14 | | 14.20 | 6.20 | | bluish gray | Sandy SILT / CLAY | | | | | 14.00 | 4/30 | | | | | | | P12 | | 14 |
| 15 | | | | | bluish gray | Silty SAND | Loose bluish gray, fine grained, slightly to very Silty SAND with mica flakes, organic decay and shell fragments. Silt content increase downward. | | | | 15.00 | 5/30 | | | | | | | P13 | | 15 |
| 16 | | | | | bluish gray | Silty SAND | | | | | 16.00 | 7/30 | | | | | | | P14 | | 16 |
| 17 | | | | | bluish gray | Silty SAND | | | | | 17.00 | 10/30 | | | | | | | P15 | | 17 |
| 18 | | | | | bluish gray | Silty SAND | | | | | 18.00 | 8/30 | | | | | | | P16 | | 18 |
| 19 | | | | | bluish gray | Silty SAND | | | | | 19.00 | 6/30 | | | | | | | P17 | | 19 |
| 20 | | 20.30 | 6.10 | | bluish gray | Silty SAND | | | | | 20.00 | 7/30 | | | | | | | P18 | | 20 |
| 21 | | | | | bluish gray to dark gray | Very Sandy SILT | Firm to shiff, dark gray to bluish gray, medium plastic, very Sandy SILT intercalated with sandy clay layers. Sandy Clay layers are observed in 22.0 to 22.5m, 24.0 to 24.8m and 30.0 to 30.5m respectively. Shell fragments are abundant and mica flakes and organic matter contain occasionally. | | | | 21.00 | 6/30 | | | | | | | P19 | | 21 |
| 22 | | | | | bluish gray to dark gray | Very Sandy SILT | | | | | 22.00 | 5/30 | | | | | | | P20 | | 22 |
| 23 | | | | | bluish gray to dark gray | Very Sandy SILT | | | | | 23.00 | 5/30 | | | | | | | P21 | | 23 |
| 24 | | | | | bluish gray to dark gray | Very Sandy SILT | | | | | 24.00 | 7/30 | | | | | | | P22 | | 24 |
| 25 | | | | | bluish gray to dark gray | Very Sandy SILT | | | | | 25.00 | 14/30 | | | | | | | P23 | | 25 |
| 26 | | | | | bluish gray to dark gray | Very Sandy SILT | | | | | 26.00 | 5/30 | | | | | | | P24 | | 26 |
| 27 | | | | | bluish gray to dark gray | Very Sandy SILT | | | | | 27.00 | 4/30 | | | | | | | P25 | | 27 |
| 28 | | | | | bluish gray to dark gray | Very Sandy SILT | | | | | 28.00 | 5/30 | | | | | | | P26 | | 28 |
| 29 | | | | | bluish gray to dark gray | Very Sandy SILT | | | | | 29.00 | 5/30 | | | | | | | P27 | | 29 |
| 30 | | 30.50 | 10.20 | | bluish gray to dark gray | Very Sandy SILT | | 30.50 | 24.3.09 | | 30.00 | 6/30 | | | | | | | P28 | | 30 |
| 31 | | | | | bluish gray to dark gray | Very Sandy SILT | | | | | 31.00 | | | | | | | | | | 31 |

Rock Classification

Weathered Rock : Weathered rock with abundant fragments and soil

Soft rock 1 : Rock with slightly abundant fragments

Soft rock 2 : Rock in considerable fresh condition

NOTES



RELATIVE DENSITY

VL Very Loose
L Loose
M Medium
D Dense
VD Very Dense

CONSISTENCY

VS Very Soft
S Soft
M Medium
St Stiff
VSt Very Stiff
H Hard

Semi hard rock : Rock in almost fresh condition

Hard rock : Rock in fresh condition

SAMPLE METHOD

Undisturbed : (T: Thin wall sampler, D: Denison sampler)

SPT :

DOUBLE CORE :

Water Sampling :

SINGLE CORE :

DEPTH

UPPER

RECOVERY cm / cm

LOWER

FIELD BORING LOG

PROJECT NAME : School Cum Cyclone Shelter Project

LOCATION : Tha Pyu Gone Village, Labutta Township

BORING METHOD : Rotary

BORING EQUIPMENT : A II B

BOREHOLE NO. : BH-Tha Pyu Gone (Labutta)

DATE : from 24.3.09 to 25.3.09

ORIENTATION : Vertical

ELEVATION : EL-

WATER LEVEL : GL - 2.70 m

| SCALE (m) | ELEVATION (m) | DEPTH (m) | THICKNESS (m) | DIAGRAM | COLOUR | SOIL NAME | DESCRIPTION | DATE & DEPTH (m) | CASING DEPTH (m) | WATER DEPTH (m) | STANDARD PENETRATION TEST | | | | | | SAMPLE / TEST | | SCALE (m) | | | | | | | | | | | | |
|-----------|---------------|-----------|---------------|---------|---------------|---------------------|---|------------------|------------------|-----------------|--|------------|---------------|----|---|-------|---------------|--------|---|----------------|----|-----|-------|------|--|-----|-----|----|--|-----|-----|
| | | | | | | | | | | | DEPTH (m) | BLOWS / cm | CURVE OF BLOW | | | | | METHOD | | DEPTH CL - (m) | | | | | | | | | | | |
| | | | | | | | | | | | | | 0 | 10 | 20 | 30 | 40 | | | | 50 | | | | | | | | | | |
| 1 | | | | | greenish gray | Silty SAND | Very loose to medium dense, greenish gray, upper portion shows mottled yellowish brown and greenish gray, fine grained, slightly Silty to Silty SAND with occasional clay patches. Root fragments, and decomposed organic matter are observed. Mica flakes contain abundently | | 10.0 112mm | | 1.00 | 3/30 | | | | | | | P1 | 1 | | | | | | | | | | | |
| 2 | | | | | | | | | | | 2.00 | 7/30 | | | | | | | | | | P2 | 2 | | | | | | | | |
| 3 | | | | | | | | | | | 3.00 | 2/30 | | | | | | | | | | P3 | 3 | | | | | | | | |
| 4 | | | | | | | | | | | 4.00 | 18/30 | | | | | | | | | | P4 | 4 | | | | | | | | |
| 5 | | | | | | | | | | | 5.00 | 15/30 | | | | | | | | | | P5 | 5 | | | | | | | | |
| 6 | | | | | | | | | | | 6.00 | 10/30 | | | | | | | | | | P6 | 6 | | | | | | | | |
| 7 | | | | | | | | | | | 7.00 | 10/30 | | | | | | | | | | P7 | 7 | | | | | | | | |
| 8 | | | | | | | | | | | 8.00 | 7/30 | | | | | | | | | | P8 | 8 | | | | | | | | |
| 9 | | | | | | | | | | | 9.00 | 4/30 | | | | | | | | | | P9 | 9 | | | | | | | | |
| 10 | | 10.00 | 10.00 | | | | | | | | 10.00 | 2/30 | | | | | | | | | | P10 | 10 | | | | | | | | |
| 11 | | | | | dark gray | Sandy CLAY | Very soft, dark gray, low to medium plastic, Slightly to Very Sandy CLAY with organic matters and shell fragments. Sand content increased downward. | | | | 11.00 | 4/30 | | | | | | | P11 | 11 | | | | | | | | | | | |
| 12 | | | | | | | | | | | 12.00 | 3/30 | | | | | | | | | | P12 | 12 | | | | | | | | |
| 13 | | | | | | | | | | | 13.00 | 3/30 | | | | | | | | | | P13 | 13 | | | | | | | | |
| 14 | | | | | | | | | | | 14.00 | 4/30 | | | | | | | | | | P14 | 14 | | | | | | | | |
| 15 | | | | | | | | | | | 15.00 | 11/30 | | | | | | | | | | P15 | 15 | | | | | | | | |
| 16 | | 16.00 | 6.00 | | | | | | | | 16.00 | 50/27 | | | | | | | | | | P16 | 16 | | | | | | | | |
| 17 | | | | | greenish gray | Gravelly SAND | | | | | Dense to very dense, greenish gray, medium to coarse grained, slightly gravelly SAND with shell fragments. The gravel is characterized by fine to medium grained, angular to sub angular in shape. | | | | 17.00 | 30/30 | | | | | | | P17 | 17 | | | | | | | |
| 18 | | 18.00 | 2.00 | | | | | | | | | | | | 18.00 | 13/30 | | | | | | | | | | P18 | 18 | | | | |
| 19 | | | | | dark gray | Very Clayey SAND | | | | | | | | | Very soft, dark gray, low plastic, Very Clayey SAND with organic matters and shell fragments. | | | | 19.00 | 3/30 | | | | | | | P19 | 19 | | | |
| 20 | | 20.00 | 2.00 | | | | | | | | | | | | | | | | 20.00 | 3/30 | | | | | | | | | | P20 | 20 |
| 21 | | | | | dark gray | Slightly Sandy CLAY | Very soft to soft, dark gray, low plastic, Slightly Sandy CLAY with shell fragments, decomposed wood fragments and mica. | | | | | | | | | | | | 21.00 | 4/30 | | | | | | | P21 | 21 | | | |
| 22 | | | | | | | | | | | | | | | | | | | 22.00 | 5/30 | | | | | | | | | | P22 | 22 |
| 23 | | | | | | | | | | | | | | | | | | | 23.00 | 6/30 | | | | | | | | | | P23 | 23 |
| 24 | | | | | | | | | | | | | | | | | | | 24.00 | 7/30 | | | | | | | | | | P24 | 24 |
| 25 | | 25.00 | 5.00 | | | | | | | | | | | | | | | | 25.00 | 5/30 | | | | | | | | | | P25 | 25 |
| 26 | | | | | light gray | Sandy CLAY | | | | | | | | | | | | | Soft to firm, light gray with spotted yellow, low plastic, Very Sandy CLAY with abundant mica fragments and iron oxide nodules. (Residual Soil of bed rock) | | | | 26.00 | 5/30 | | | | | | | P26 |
| 27 | | | | | | | | | | | 27.00 | 8/30 | | | | | | | | | | | | | | | | | | P27 | 27 |
| 28 | | | | | | | | | | | 28.00 | 7/30 | | | | | | | | | | | | | | | | | | P28 | 28 |
| 29 | | | | | | | | | | | 29.00 | 15/30 | | | | | | | | | | | | | | P29 | 29 | | | | |
| 30 | | 30.00 | 5.00 | | dark gray | Sandy SHALE | | | | | Stiff, dark gray, laminated, completely to highly weathered, sandy SHALE. | | | | 30.00 | 33/30 | | | | | | | | | | | P30 | 30 | | | |
| 31 | | 31.50 | 0.50 | | | | 31.50 | | | | | | | | 31.00 | | | | | | | | | | | | | 31 | | | |

Rock Classification

Weathered Rock : Weathered rock with abundant fragments and soil
Soft rock 1 : Rock with slightly abundant fragments
Soft rock 2 : Rock in considerable fresh condition

Semi hard rock : Rock in almost fresh condition
Hard rock : Rock in fresh condition

NOTES



RELATIVE DENSITY

VL Very Loose
L Loose
M Medium
D Dense
VD Very Dense

CONSISTENCY

VS Very Soft
S Soft
M Medium
St Stiff
VSt Very Stiff
H Hard

SAMPLE METHOD

Undisturbed : ☐ (T: Thin wall sampler, D: Denison sampler)
SPT : ☒
DOUBLE CORE : ☒
Water Sampling : ☒

DEPTH

UPPER
RECOVERY cm / cm
LOWER

FIELD BORING LOG

PROJECT NAME : School Cum Cyclone Shelter Project

LOCATION : Thin Gan Lay Village, Labutta Township, Ayeyawaddy Division

BORING METHOD : Rotary

BORING EQUIPMENT : TONE

BOREHOLE NO. : BH - Thin Gan Lay (Labutta)

DATE : from 26.3.09 to 27.3.09

ORIENTATION : Vertical

ELEVATION : EL-

WATER LEVEL : GL - 1.80 m

| SCALE (m) | ELEVATION (m) | DEPTH (m) | THICKNESS (m) | DIAGRAM | COLOUR | SOIL NAME | DESCRIPTION | DATE & DEPTH (m) | CASING DEPTH (m) | WATER DEPTH (m) | STANDARD PENETRATION TEST | | | | | | | SAMPLE / TEST | | SCALE (m) | | |
|-----------|---------------|-----------|---------------|---------|--------------------------|---------------------|---|------------------|------------------|-----------------|---------------------------|------------|-----------------|----|----|----|----|---------------|-----|-----------|--------|----------------|
| | | | | | | | | | | | DEPTH (m) | BLOWS / cm | CURVE OF BLOW ● | | | | | | | | SPT-NO | DEPTH CL - (m) |
| | | | | | | | | | | | | | 0 | 10 | 20 | 30 | 40 | 50 | | | | |
| 1 | | | | | bluish gray | Silty SAND | Very loose, mottled yellowish brown and bluish gray in upper portion and bluish gray in lower portion, fine grained, Silty SAND with root fragments and abundant mica flakes. | | 1.00 127mm | 1.70 27.3.09 | 1.00 | 2/30 | | | | | | | P1 | 1 | | |
| 2 | | | 2.00 | | | | | | | | 4/30 | P2 | | | | | | | 2 | | | |
| 3 | | | 3.00 | | | | | | | | 4/30 | P3 | | | | | | | 3 | | | |
| 4 | | 5.30 | 5.30 | | | | | | | | 4.00 | 2/30 | | | | | | | P4 | 4 | | |
| 5 | | | | | | | | | | | 5.00 | 2/30 | | | | | | | P5 | 5 | | |
| 6 | | 6.65 | 1.35 | | bluish gray | Very Sandy CLAY | Very soft, bluish gray, low plastic, Very Sandy CLAY with organic matters and shell fragments. | | 14.50 26.3.09 | | 6.00 | 2/30 | | | | | | | P6 | 6 | | |
| 7 | | | 7.00 | | | | | | | | 5/30 | P7 | 7 | | | | | | | | | |
| 8 | | | 8.00 | | | | | | | | 5/30 | P8 | 8 | | | | | | | | | |
| 9 | | | 9.00 | | | | | | | | 7/30 | P9 | 9 | | | | | | | | | |
| 10 | | | 10.00 | | | | | | | | 3/30 | P10 | 10 | | | | | | | | | |
| 11 | | | 11.00 | | | | | | | | 6/30 | P11 | 11 | | | | | | | | | |
| 12 | | | 12.00 | | | | | | | | 5/30 | P12 | 12 | | | | | | | | | |
| 13 | | 13.20 | 6.55 | | | | | | | | 13.00 | 5/30 | P13 | 13 | | | | | | | | |
| 14 | | | | | | | | | | | 14.00 | 4/30 | P14 | 14 | | | | | | | | |
| 15 | | | | | | | | | | | 15.00 | 5/30 | P15 | 15 | | | | | | | | |
| 16 | | | | 16.00 | 4/30 | P16 | 16 | | | | | | | | | | | | | | | |
| 17 | | | | 17.00 | 6/30 | P17 | 17 | | | | | | | | | | | | | | | |
| 18 | | | | 18.00 | 4/30 | P18 | 18 | | | | | | | | | | | | | | | |
| 19 | | 19.00 | 5.80 | | bluish gray | Gravelly SAND | Loose to medium dense, bluish gray, fine to coarse grained, Gravelly sand with trace of silt. Shell fragments and mica contained abundantly. Gravels is characterized by rounded to sub rounded and fine to medium grained. | | | | 19.00 | 8/30 | | | | | | | P19 | 19 | | |
| 20 | | | 20.00 | | | | | | | | 16/30 | P20 | 20 | | | | | | | | | |
| 21 | | 21.60 | 2.60 | | | | | | | | 21.00 | 10/30 | P21 | 21 | | | | | | | | |
| 22 | | | | | | | | | | | 22.00 | 5/30 | P22 | 22 | | | | | | | | |
| 23 | | | | | | | | | | | 23.00 | 5/30 | P23 | 23 | | | | | | | | |
| 24 | | | | | bluish gray to dark gray | Slightly Sandy CLAY | Soft, dark gray to bluish gray, low to medium plastic, slightly Sandy CLAY with abundant decomposed wood fragments and mica flakes. | | | | 24.00 | 6/30 | | | | | | | P24 | 24 | | |
| 25 | | | | | | | | | | | 25.00 | 5/30 | P25 | 25 | | | | | | | | |
| 26 | | 26.30 | 4.70 | | | | | | | | 26.00 | 5/30 | P26 | 26 | | | | | | | | |
| 27 | | | | | | | | | | | 27.00 | 9/30 | P27 | 27 | | | | | | | | |
| 28 | | | | | | | | | | | 28.00 | 13/30 | P28 | 28 | | | | | | | | |
| 29 | | | | 29.00 | 23/30 | P29 | 29 | | | | | | | | | | | | | | | |
| 30 | | 30.50 | 4.20 | 30.00 | 28/30 | P30 | 30 | | | | | | | | | | | | | | | |
| 31 | | | | 31.00 | | | | | | | | | | | | | | | | | | |

Rock Classification

Weathered Rock : Weathered rock with abundant fragments and soil
Soft rock 1 : Rock with slightly abundant fragments
Soft rock 2 : Rock in considerable fresh condition

Semi hard rock : Rock in almost fresh condition
Hard rock : Rock in fresh condition

NOTES



RELATIVE DENSITY
VL Very Loose
L Loose
M Medium
D Dense
VD Very Dense

CONSISTENCY
VS Very Soft
S Soft
M Medium
St Stiff
VSt Very Stiff
H Hard

SAMPLE METHOD

Undisturbed : ☐ (T: Thin wall sampler, D: Denison sampler)
SPT : ☒
DOUBLE CORE : ☒
Water Sampling : ☒

DEPTH

UPPER
RECOVERY
cm / cm
LOWER

FIELD BORING LOG

PROJECT NAME : School Cum Cyclone Shelter Project

LOCATION : Zin Pynn Gone Village, Labutta Township, Ayeyawaddy Division

BORING METHOD : Rotary

BORING EQUIPMENT : TONE

BOREHOLE NO. : BH - Zin Pynn Gone (Labutta)

DATE : from 20.3.09 to 22.3.09

ORIENTATION : Vertical

ELEVATION : EL-

WATER LEVEL : GL - 2.20 m

| SCALE (m) | ELEVATION (m) | DEPTH (m) | THICKNESS (m) | DIAGRAM | COLOUR | SOIL NAME | DESCRIPTION | DATE & DEPTH (m) | CASING DEPTH (m) | WATER DEPTH (m) | STANDARD PENETRATION TEST | | | | | | | | | | SAMPLE / TEST | | SCALE (m) |
|-----------|---------------|-----------|---------------|---------|---------------------------------|-----------------------------|---|------------------|------------------|-----------------|---------------------------|------------|-----------------|------|----|----|----|--------|----------------|-----|---------------|----|-----------|
| | | | | | | | | | | | DEPTH (m) | BLOWS / cm | CURVE OF BLOW ● | | | | | SPT-NO | DEPTH CL - (m) | | | | |
| | | | | | | | | | | | | | 0 | 10 | 20 | 30 | 40 | | | 50 | | | |
| 1 | | | | | mottled yellowish brown to gray | Slightly Silty SAND | Very loose to loose, mottled yellowish brown to gray, slightly Silty SAND with minor amount of clay and abundant organic fragments with mica | | | 1.90 | 1.00 | 8/30 | | | | | | | | P1 | 1 | | |
| 2 | | | | | | | | | | 20.3.09 | 2.00 | 2.00 | | 8/30 | | | | P2 | 2 | | | | |
| 3 | | | | | | | | | | 127mm | 22.3.09 | 2.40 | | 2/30 | | | | P3 | 3 | | | | |
| 4 | 4.00 | 4.00 | | | | | | | | 21.3.09 | 3.00 | 2/30 | | | | | P4 | 4 | | | | | |
| 5 | | | | | | | Very soft to soft, bluish gray, laminated, medium to high plastic, slightly Sandy CLAY with minor amount of silt and mica flakes. Sand content increase downward. | 10.50 | 20.3.09 | 4.00 | 2/30 | | | | | | | | | UD1 | 5 | | |
| 6 | | | | | | | | | | 5.00 | | | | | | | | | | | P5 | 6 | |
| 7 | | | | | bluish gray | Slightly Sandy CLAY | | | | 6.00 | 2/30 | | | | | | | | | | P6 | 7 | |
| 8 | | | | | | | | | | 7.00 | 2/30 | | | | | | | | | | P7 | 8 | |
| 9 | | | | | | | | | | 8.00 | 2/30 | | | | | | | | | | P8 | 9 | |
| 10 | | 10.60 | 6.60 | | | | | | | 9.00 | 2/30 | | | | | | | | | | P9 | 10 | |
| 11 | | | | | | | | | | 10.00 | 5/30 | | | | | | | | | | P10 | 11 | |
| 12 | | | | | | | | | | 11.00 | 5/30 | | | | | | | | | | P11 | 12 | |
| 13 | | | | | | | | | | 12.00 | 4/30 | | | | | | | | | | P12 | 13 | |
| 14 | | | | | | | | | | 13.00 | 4/30 | | | | | | | | | | P13 | 14 | |
| 15 | | | | | | | 14.00 | 7/30 | | | | | | | | | | P14 | 15 | | | | |
| 16 | | | | | bluish gray | Very Silty SAND | 15.00 | 9/30 | | | | | | | | | | P15 | 16 | | | | |
| 17 | | | | | | | 16.00 | 6/30 | | | | | | | | | | P16 | 17 | | | | |
| 18 | | | | | | | 17.00 | 5/30 | | | | | | | | | | P17 | 18 | | | | |
| 19 | | | | | | | 18.00 | 4/30 | | | | | | | | | | P18 | 19 | | | | |
| 20 | | | | | | | 19.00 | 5/30 | | | | | | | | | | P19 | 20 | | | | |
| 21 | | 21.30 | 10.70 | | | | 20.00 | 7/30 | | | | | | | | | | P20 | 21 | | | | |
| 22 | | | | | | | 21.00 | 5/30 | | | | | | | | | | P21 | 22 | | | | |
| 23 | | | | | bluish gray | Slightly to Very Sandy CLAY | 22.00 | 5/30 | | | | | | | | | | P22 | 23 | | | | |
| 24 | | | | | | | 23.00 | 6/30 | | | | | | | | | | P23 | 24 | | | | |
| 25 | | | | | | | 24.00 | 7/30 | | | | | | | | | | P24 | 25 | | | | |
| 26 | 26.80 | 4.50 | | | dark / bluish gray | Silty SAND | 25.00 | 7/30 | | | | | | | | | | P25 | 26 | | | | |
| 27 | | 27.00 | 1.20 | | | | 26.00 | 8/30 | 26.50 | | | | | | | | | P26 | 27 | | | | |
| 28 | | | | | | | 27.00 | 6/30 | 21.3.09 | | | | | | | | | P27 | 28 | | | | |
| 29 | | | | | bluish gray | Slightly Sandy CLAY | 28.00 | 4/30 | | | | | | | | | | P28 | 29 | | | | |
| 30 | | 30.50 | 3.50 | | | | 29.00 | 4/30 | | | | | | | | | | P29 | 30 | | | | |
| 31 | | | | | | | 30.00 | 5/30 | 30.50 | | | | | | | | | P30 | 31 | | | | |
| | | | | | | | 31.00 | | 22.3.09 | | | | | | | | | | | | | | |

Rock Classification

Weathered Rock : Weathered rock with abundant fragments and soil
Soft rock 1 : Rock with slightly abundant fragments
Soft rock 2 : Rock in considerable fresh condition

Semi hard rock : Rock in almost fresh condition
Hard rock : Rock in fresh condition

NOTES



RELATIVE DENSITY

VL Very Loose
L Loose
M Medium
D Dense
VD Very Dense

CONSISTENCY

VS Very Soft
S Soft
M Medium
St Stiff
VSt Very Stiff
H Hard

SAMPLE METHOD

Undisturbed : ☐ (T: Thin wall sampler, D: Denison sampler)
SPT : ☒
DOUBLE CORE : ☐
Water Sampling : ☐

DEPTH

UPPER
RECOVERY
cm / cm
LOWER

FIELD BORING LOG

PROJECT NAME : School Cum Cyclone Shelter Project

LOCATION : Thar Yar Gone (Ma Khan Pon) Village, Labutta Township

BORING METHOD : Rotary

BORING EQUIPMENT : TOHO - D2

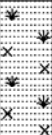


BOREHOLE NO. : BH-Thar Yar Gone (Labutta)

DATE : from 18.3.09 to 20.3.09

ORIENTATION : Vertical

ELEVATION : EL-

WATER LEVEL : GL - 1.20m

| SCALE (m) | ELEVATION (m) | DEPTH (m) | THICKNESS (m) | DIAGRAM | COLOUR | SOIL NAME | DESCRIPTION | DATE & DEPTH (m) | CASING DEPTH (m) | WATER DEPTH (m) | STANDARD PENETRATION TEST | | | | | | SAMPLE / TEST | | SCALE (m) | | | | | |
|-----------|---------------|-----------|---------------|---|-------------------------------|--------------------------------|---|------------------|------------------|-----------------|---------------------------|------------|-----------------|----|----|----|---------------|--------|-----------|----------------|----|----|-----|----|
| | | | | | | | | | | | DEPTH (m) | BLOWS / cm | CURVE OF BLOW ● | | | | | METHOD | | DEPTH CL - (m) | | | | |
| | | | | | | | | | | | | | 0 | 10 | 20 | 30 | 40 | | | | 50 | | | |
| 1 | | | |  | yellowish brown & bluish gray | Silty SAND to SAND | Loose, yellowish brown and bluish gray, fine to medium grained Silty SAND to SAND with organic matters and abundant mica fragments. | | | 1.10 | 1.00 | 9/30 | | | | | | P1 | 1 | | | | | |
| 2 | | | | | | | | | | 19.3.09 | | | | | | | | | | | | | P2 | 2 |
| 3 | | 3.00 | 3.00 | | | | | | | | 1.30 | 2.00 | 10/30 | | | | | | | | | | P3 | 3 |
| 4 | | | |  | bluish gray | Sity SAND with CLAY lamination | Very loose to loose, bluish gray, fine grained, Silty SAND laminated with thin band of low to non plastic CLAY layers. Mica and organic matters contain abundently | | 6.00 112mm | 20.3.09 | 3.00 | 1/30 | | | | | | P4 | 4 | | | | | |
| 5 | | | | | | | | | | 4.00 | 10/30 | | | | | | | | | | | P5 | 5 | |
| 6 | | | | | | | | | | 5.00 | 11/30 | | | | | | | | | | | P6 | 6 | |
| 7 | | | | | | | | | | 6.00 | 8/30 | | | | | | | | | | | P7 | 7 | |
| 8 | | | | | | | | | | 7.00 | 7/30 | | | | | | | | | | | | P8 | 8 |
| 9 | | | | | | | | | | 8.00 | 1/30 | | | | | | | | | | | | P9 | 9 |
| 10 | | | | | | | | | | 9.00 | 4/30 | | | | | | | | | | | | P10 | 10 |
| 11 | | | | | | | | | | 10.00 | 3/30 | | | | | | | | | | | | P11 | 11 |
| 12 | | | | | | | | | | 11.00 | 5/30 | | | | | | | | | | | | P12 | 12 |
| 13 | | 13.00 | 10.00 | | | | | | | 12.00 | 3/30 | | | | | | | | | | | | P13 | 13 |
| 14 | | | |  | greenish gray | Silty SAND to SAND | Loose to medium dense, greenish gray, fine grained, silty SAND to SAND with mica fragments and abundant organic matters especially shell fragments. Moderate water content. | | | 13.00 | 7/30 | | | | | | | P14 | 14 | | | | | |
| 15 | | | | | | | | | | 14.00 | 5/30 | | | | | | | | | | | | P15 | 15 |
| 16 | | | | | | | | | | 15.00 | 10/30 | | | | | | | | | | | | P16 | 16 |
| 17 | | | | | | | | | | 16.00 | 17/30 | | | | | | | | | | | | P17 | 17 |
| 18 | | | | | | | | | | 17.00 | 30/30 | | | | | | | | | | | | P18 | 18 |
| 19 | | | | | | | | | | 18.00 | 18/30 | | | | | | | | | | | | P19 | 19 |
| 20 | | 20.00 | 7.00 | | | | | | | 19.00 | 4/30 | | | | | | | | | | | | P20 | 20 |
| 21 | | | | | | | | | | 20.00 | 4/30 | | | | | | | | | | | | P21 | 21 |
| 22 | | | | | | | | | | 21.00 | 3/30 | | | | | | | | | | | | P22 | 22 |
| 23 | | | | | | | | | | 22.00 | 4/30 | | | | | | | | | | | | P23 | 23 |
| 24 | | | | 23.00 | 3/30 | | | | | | | | | | | | P24 | 24 | | | | | | |
| 25 | | | | 24.00 | 4/30 | | | | | | | | | | | | P25 | 25 | | | | | | |
| 26 | | | | 25.00 | 4/30 | | | | | | | | | | | | P26 | 26 | | | | | | |
| 27 | | | | 26.00 | 5/30 | | | | | | | | | | | | P27 | 27 | | | | | | |
| 28 | | | | 27.00 | 4/30 | | | | | | | | | | | | P28 | 28 | | | | | | |
| 29 | | 29.00 | 9.00 | 28.00 | 5/30 | | | | | | | | | | | | P29 | 29 | | | | | | |
| 30 | | 30.50 | 2.50 | 29.00 | 5/30 | | | | | | | | | | | | P30 | 30 | | | | | | |
| 31 | | | | 30.00 | 6/30 | | | | | | | | | | | | | | 31 | | | | | |
| | | | | 31.00 | | | | | | | | | | | | | | | | | | | | |

Rock Classification

Weathered Rock : Weathered rock with abundant fragments and soil

Soft rock 1 : Rock with slightly abundant fragments

Soft rock 2 : Rock in considerable fresh condition

Semi hard rock

Hard rock : Rock in fresh condition

NOTES



RELATIVE DENSITY

VL Very Loose
L Loose
M Medium
D Dense
VD Very Dense

CONSISTENCY

VS Very Soft
S Soft
M Medium
St Stiff
VSt Very Stiff
H Hard

SAMPLE METHOD

Undisturbed : (T: Thin wall sampler, D: Denison sampler)

SPT :

DOUBLE CORE :

Water Sampling :

SINGLE CORE :

DEPTH

UPPER
RECOVERY
LOWER

FIELD BORING LOG

PROJECT NAME : School Cum Cyclone Shelter Project

LOCATION : Shwe Gone Village, Labutta Township, Ayeyawaddy Division

BORING METHOD : Rotary

BORING EQUIPMENT : TONE

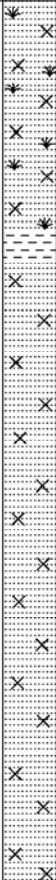


















BOREHOLE NO. : BH - Shwe Gone (Labutta)

DATE : from 17.3.09 to 18.3.09

ORIENTATION : Vertical

ELEVATION : EL-

WATER LEVEL : GL - 2.0 m

| SCALE (m) | ELEVATION (m) | DEPTH (m) | THICKNESS (m) | DIAGRAM | COLOUR | SOIL NAME | DESCRIPTION | DATE & DEPTH (m) | CASING DEPTH (m) | WATER DEPTH (m) | STANDARD PENETRATION TEST | | | | | | SAMPLE / TEST | | SCALE (m) | |
|-----------|---------------|-----------|---------------|---|--------|-----------|--|------------------|------------------|-----------------|---------------------------|------------|-----------------|----|----|----|---------------|--------|-----------|----------------|
| | | | | | | | | | | | DEPTH (m) | BLOWS / cm | CURVE OF BLOW ● | | | | | SPT-NO | | DEPTH CL - (m) |
| | | | | | | | | | | | | | 0 | 10 | 20 | 30 | 40 | | | |
| 1 | | | |  | | | Very loose to medium dense, yellowish brown, bluish gray and dark gray, fine grained, slightly silty SAND to SAND with abundant mica fragments. Organic matters contain at upper portion up to 5.0m. 0.5m in thickness of soft clay layer is intercalated at 5.00m to 5.50m. | | | 1.20 | 1.00 | 3/30 | | | | | | P1 | 1 | |
| 2 | | | |  | | | | | | 17.3.09 | | | | | | | | | P2 | 2 |
| 3 | | | |  | | | | | | 2.00 | 2.00 | 2.00 | 8/30 | | | | | | P3 | 3 |
| 4 | | | |  | | | | | | 127mm | 18.3.09 | 3.00 | 7/30 | | | | | | P4 | 4 |
| 5 | | | |  | | | | | | | | 4.00 | 12/30 | | | | | | P5 | 5 |
| 6 | | | |  | | | | | | | | 5.00 | 2/30 | | | | | | P6 | 6 |
| 7 | | | |  | | | | | | | | 6.00 | 10/30 | | | | | | P7 | 7 |
| 8 | | | |  | | | | | | | | 7.00 | 5/30 | | | | | | P8 | 8 |
| 9 | | | |  | | | | | | | | 8.00 | 12/30 | | | | | | P9 | 9 |
| 10 | | | |  | | | | | | | | 9.00 | 6/30 | | | | | | P10 | 10 |
| 11 | | | |  | | | | | | | | 10.00 | 11/30 | | | | | | P11 | 11 |
| 12 | | | |  | | | | | | | | 11.00 | 15/30 | | | | | | P12 | 12 |
| 13 | | | |  | | | | | | | | 12.00 | 16/30 | | | | | | P13 | 13 |
| 14 | | | |  | | | | | | | | 13.00 | 6/30 | | | | | | P14 | 14 |
| 15 | | | |  | | | | | | | | 14.00 | 9/30 | | | | | | P15 | 15 |
| 16 | | | |  | | | | | 16.00 | 17.3.09 | | 15.00 | 10/30 | | | | | | P16 | 16 |
| 17 | | | |  | | | | | | | | 16.00 | 8/30 | | | | | | P17 | 17 |
| 18 | | | |  | | | | | | | | 17.00 | 8/30 | | | | | | P18 | 18 |
| 19 | | 11.00 | 4.00 |  | | | | | | | | 18.00 | 7/30 | | | | | | P19 | 19 |
| 20 | | | | | | | Soft, bluish gray, low to medium plastic, slightly to very sandy SILT with minor amount of clay. The sand content decrease downward and its plasticity increase downward. Mica minerals are abundant. | | | | 19.00 | 9/30 | | | | | | P20 | 20 | |
| 21 | | | | | | | | | | | | 20.00 | 7/30 | | | | | | P21 | 21 |
| 22 | | | | | | | | | | | | 21.00 | 8/30 | | | | | | P22 | 22 |
| 23 | | | | | | | | | | | | 22.00 | 7/30 | | | | | | P23 | 23 |
| 24 | | | | | | | | | | | | 23.00 | 6/30 | | | | | | P24 | 24 |
| 25 | | | | | | | | | | | | 24.00 | 5/30 | | | | | | P25 | 25 |
| 26 | | | | | | | | | | | | 25.00 | 7/30 | | | | | | P26 | 26 |
| 27 | | | | | | | | | | | | 26.00 | 6/30 | | | | | | P27 | 27 |
| 28 | | | | | | | | | | | | 27.00 | 8/30 | | | | | | P28 | 28 |
| 29 | | | | | | | | | | | | 28.00 | 6/30 | | | | | | P29 | 29 |
| 30 | | 30.50 | 7.50 | | | | | | | | | 29.00 | 8/30 | | | | | | P30 | 30 |
| 31 | | | | | | | | 30.50 | 17.3.09 | | 30.00 | 7/30 | | | | | | | | 31 |

Rock Classification

Weathered Rock : Weathered rock with abundant fragments and soil

Soft rock 1 : Rock with slightly abundant fragments

Soft rock 2 : Rock in considerable fresh condition

Semi hard rock

Hard rock : Rock in almost fresh condition

Hard rock

Hard rock

NOTES



RELATIVE DENSITY

VL Very Loose
L Loose
M Medium
D Dense
VD Very Dense

CONSISTENCY

VS Very Soft
S Soft
M Medium
St Stiff
VSt Very Stiff
H Hard

SAMPLE METHOD

Undisturbed : (T: Thin wall sampler, D: Denison sampler)

SPT :

DOUBLE CORE :

Water Sampling :

SINGLE CORE :

DEPTH

UPPER
RECOVERY
LOWER

FIELD BORING LOG

PROJECT NAME : School Cum Cyclone Shelter Project

LOCATION : Kwa Kwa Lay Village, Laputta Township Ayeyawaddy Division

BORING METHOD : Rotary

BORING EQUIPMENT : A2B

BOREHOLE NO. : BH- Kwa Kwa Lay (Labutta)

DATE : from 18.3.09 to 19.3.09

ORIENTATION : Vertical

ELEVATION : EL-

WATER LEVEL : GL - 1.30 m

| SCALE (m) | ELEVATION (m) | DEPTH (m) | THICKNESS (m) | DIAGRAM | COLOUR | SOIL NAME | DESCRIPTION | DATE & DEPTH (m) | CASING DEPTH (m) | WATER DEPTH (m) | STANDARD PENETRATION TEST | | | | | | SAMPLE / TEST | | SCALE (m) | |
|-----------|---------------|-----------|---------------|---------|-----------------------------|------------|---|------------------|-------------------|-----------------|---------------------------|------------|--|----|----|-------|---------------|--------|-----------|----------------|
| | | | | | | | | | | | DEPTH (m) | BLOWS / cm | CURVE OF BLOW ● | | | | | SPT-NO | | DEPTH CL - (m) |
| | | | | | | | | | | | | | 0 | 10 | 20 | 30 | 40 | | | |
| 1 | | | | | greenish gray | Silty SAND | Loose to medium dense, mottled yellowish brown and greenish gray, fine graind Silty SAND, with mica and organic matter | | | 1.3 19.3.09 | 1.00 | 7/30 | | | | | P1 | 1 | | |
| 2 | | | | | | | | | | | 2.00 | 11/30 | | P2 | 2 | | | | | |
| 3 | | | | | | | | | | | 3.00 | 17/30 | | P3 | 3 | | | | | |
| 4 | | 4.00 | 4.00 | | | | | | | | 4.00 | 2/30 | | P4 | 4 | | | | | |
| 5 | | | | | greenish gray to dark gray | Sandy CLAY | Very soft to soft, greenish gray to dark gray, low plastic, slightly to very Sandy CLAY intercalated with Sand layers. Sand content increased downward. Shell fragments and decomposed wood fragments contain abundantly. | | | 10.00 112 mm | 5.00 | 6/30 | | | | | P5 | 5 | | |
| 6 | | | | | | | | | | | 6.00 | 3/30 | P6 | 6 | | | | | | |
| 7 | | | | | | | | | | | 7.00 | 3/30 | P7 | 7 | | | | | | |
| 8 | | | | | | | | | | | 8.00 | 2/30 | P8 | 8 | | | | | | |
| 9 | | | | | | | | | | | 9.00 | 2/30 | P9 | 9 | | | | | | |
| 10 | | | | | | | | | | | 10.00 | 4/30 | P10 | 10 | | | | | | |
| 11 | | | | | | | | | | | 11.00 | 6/30 | P11 | 11 | | | | | | |
| 12 | | | | | | | | | | | 12.00 | 3/30 | P12 | 12 | | | | | | |
| 13 | | 13.00 | 9.00 | | | | | | | | 13.00 | 10/30 | P13 | 13 | | | | | | |
| 14 | | | | | dark gray and greenish gray | Silty SAND | Loose to medium dense, fine to medium graind, silty SAND with clay patches, including mica flakes, decayed woods and shell fragments. | | 15.0 m 18.3.09 | 14.00 | 16/30 | | | | | P14 | 14 | | | |
| 15 | | | | | | | | | | 15.00 | 10/30 | P15 | 15 | | | | | | | |
| 16 | | | | | | | | | | 16.00 | 5/30 | P16 | 16 | | | | | | | |
| 17 | | | | | | | | | | 17.00 | 16/30 | P17 | 17 | | | | | | | |
| 18 | | | | | | | | | | 18.00 | 9/30 | P18 | 18 | | | | | | | |
| 19 | | | | | | | | | | 19.00 | 12/30 | P19 | 19 | | | | | | | |
| 20 | | | | | | | | | | 20.00 | 20/30 | P20 | 20 | | | | | | | |
| 21 | | | | | | | | | | 21.00 | 20/30 | P21 | 21 | | | | | | | |
| 22 | | 22.00 | 9.00 | | | | | | | 22.00 | 6/30 | P22 | 22 | | | | | | | |
| 23 | | | | | | | | | | | dark gray | Sandy SILT | Soft to firm, dark gray, low plastic, slightly Sandy to Sandy SILT with trace of clay patches. Shell fragments and mica flakes are observed. | | | 23.00 | 7/30 | | | |
| 24 | | | | 24.00 | 6/30 | P24 | 24 | | | | | | | | | | | | | |
| 25 | | | | 25.00 | 5/30 | P25 | 25 | | | | | | | | | | | | | |
| 26 | | | | 26.00 | 7/30 | P26 | 26 | | | | | | | | | | | | | |
| 27 | | | | 27.00 | 5/30 | P27 | 27 | | | | | | | | | | | | | |
| 28 | | 28.00 | 6.00 | 28.00 | 14/30 | P28 | 28 | | | | | | | | | | | | | |
| 29 | | | | | dark gray | sandy CLAY | Soft, dark gray, low plastic, Sandy CLAY with mica flakes and shell fragments. | | | | | | | | | 29.00 | 8/30 | | | |
| 30 | | 30.50 | 2.50 | | | | | | | 30.00 | 7/30 | P30 | 30 | | | | | | | |
| 31 | | | | | | | | | | 31.00 | | | | | | | | | | |

Rock Classification

Weathered Rock : Weathered rock with abundant fragments and soil

Soft rock 1 : Rock with slightly abundant fragments

Soft rock 2 : Rock in considerable fresh condition

Semi hard rock

Hard rock : Rock in almost fresh condition

Hard rock

Hard rock

NOTES



RELATIVE DENSITY

VL Very Loose
L Loose
M Medium
D Dense
VD Very Dense

CONSISTENCY

VS Very Soft
S Soft
M Medium
St Stiff
VSt Very Stiff
H Hard

SAMPLE METHOD

Undisturbed : (T: Thin wall sampler, D: Denison sampler)

SPT :

DOUBLE CORE :

Water Sampling :

(T: Thin wall sampler, D: Denison sampler)

SPT :

DOUBLE CORE :

Water Sampling :

DEPTH

UPPER

RECOVERY cm / cm

LOWER

FIELD BORING LOG

PROJECT NAME : School Cum Cyclone Shelter Project

LOCATION : Yea Kyaw Wa Village, Laputta Township

BORING METHOD : Rotary

BORING EQUIPMENT : A2B

BOREHOLE NO. : BH-Ye Kyaw Wa (Labutta)

DATE : From 14.3.09 to 16.3.09

ORIENTATION : Vertical

ELEVATION : EL-

WATER LEVEL : GL - 1.1m

| SCALE (m) | ELEVATION (m) | DEPTH (m) | THICKNESS (m) | DIAGRAM | COLOUR | SOIL NAME | DESCRIPTION | DATE & DEPTH (m) | CASING DEPTH (m) | WATER DEPTH (m) | STANDARD PENETRATION TEST | | | | | | SAMPLE / TEST | | SCALE (m) | | | | | | | | |
|-----------|---------------|-----------|---------------|---------|---------------|-------------|--|------------------|------------------|-----------------|---------------------------|------------|--|----|------------------------|----|---------------|--------|-----------|----------------|------|------|--|--|--|----|----|
| | | | | | | | | | | | DEPTH (m) | BLOWS / cm | CURVE OF BLOW ● | | | | | METHOD | | DEPTH CL - (m) | | | | | | | |
| | | | | | | | | | | | | | 0 | 10 | 20 | 30 | 40 | | | | 50 | | | | | | |
| 1 | | | | | Dark Gray | SILT / CLAY | Very soft, mottled yellowish brown and dark gray, low plastic, sandy SILT/CLAY with root fragments and decay wood fragments. | | 2.00 112mm | 1.1m 14.3.09 | 1.00 | 1/30 | | P1 | 3.00m 3.8m 80/80 | 1 | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| 3 | | 4.00 | 4.00 | | | | | | | | | | | | | | | | | | 2.00 | 1/30 | | | | | |
| 4 | | | | | Dark Gray | SAND | Loose to medium dense, dark gray, fine grained SAND with trace of silt and clay. Abundent decay wood fragments and mica flakes are observed. | 14.3.09 6.50 | | | 3.00 | | | | | | | | | | 4 | | | | | | |
| 5 | | | | | | | | | | | | | | | | | 4.00 | 7/30 | | | | | | | | 5 | |
| 6 | | | | | | | | | | | | | | | | | 5.00 | 11/30 | | | | | | | | 6 | |
| 7 | | | | | | | | | | | | | | | | | 6.00 | 10/30 | | | | | | | | 7 | |
| 8 | | | | | | | | | | | | | | | | | 7.00 | 6/30 | | | | | | | | 8 | |
| 9 | | | | | | | | | | | | | | | | | 8.00 | 9/30 | | | | | | | | 9 | |
| 10 | | | | | | | | | | | | | | | | | 9.00 | 12/30 | | | | | | | | 10 | |
| 11 | | 11.00 | 8.00 | | | | | | | | 10.00 | 7/30 | | | | | | | | | 11 | | | | | | |
| 12 | | | | | Dark Gray | Clayey SAND | Loose, dark gray, fine graind Clayey SAND, with micas and shell fragments. | | | | 11.00 | 6/30 | | | | | | | | | | 12 | | | | | |
| 13 | | | | | | | | | | | | | | | | | 12.00 | 6/30 | | | | | | | | | 13 |
| 14 | | 14.00 | 3.00 | | | | | | | | | | | | | | 13.00 | 2/30 | | | | | | | | | 14 |
| 15 | | | | | greenish Gray | Silty SAND | Loose to medium dense, greenish gray, fine to medium grained, Silty SAND with clay patches. Mica fragments, shell fragments and organic matter contained abundantly. | | | | 14.00 | 10/30 | | | | | | | | | | 15 | | | | | |
| 16 | | | | | | | | | | | | | | | | | 15.00 | 9/30 | | | | | | | | | 16 |
| 17 | | | | | | | | | | | | | | | | | 16.00 | 8/30 | | | | | | | | | 17 |
| 18 | | | | | | | | | | | | | | | | | 17.00 | 9/30 | | | | | | | | | 18 |
| 19 | | | | | | | | | | | | | | | | | 18.00 | 7/30 | | | | | | | | | 19 |
| 20 | | | | | | | | | | | | | | | | | 19.00 | 10/30 | | | | | | | | | 20 |
| 21 | | | | | | | | | | | | | | | | | 20.00 | 15/30 | | | | | | | | | 21 |
| 22 | | | | | | | | | | | | | | | | | 21.00 | 5/30 | | | | | | | | | 22 |
| 23 | | 23.00 | 9.00 | | | | | | | | | | | | | | 22.00 | 8/30 | | | | | | | | | 23 |
| 24 | | | | | | | | | | | bluish Gray | Sandy CLAY | Soft, bluish gray, medium plastic, slightly Sandy CLAY with shell fragments and mica flakes. | | | | 23.00 | 5/30 | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | 24.00 | 5/30 | | | | | | | | | 25 |
| 26 | | | | | | | | | | | | | | | | | 25.00 | 5/30 | | | | | | | | | 26 |
| 27 | | | | | | | | | | | | | | | | | 26.00 | 6/30 | | | | | | | | | 27 |
| 28 | | | | | | | | | | | | | | | | | 27.00 | 5/30 | | | | | | | | | 28 |
| 29 | | | | | | | | | | | | | | | | | 28.00 | 5/30 | | | | | | | | | 29 |
| 30 | | 30.50 | 7.50 | | | | | | | | | | | | | | 29.00 | 7/30 | | | | | | | | | 30 |
| 31 | | | | | | | | | | | | | | | | | 30.00 | 4/30 | | | | | | | | | 31 |

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Weathered Rock : Weathered rock with abundant fragments and soil
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VL Very Loose
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VS Very Soft
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SAMPLE METHOD

Undisturbed : ☐ (T: Thin wall sampler, D: Denison sampler)
SPT : ☒
DOUBLE CORE : ☒
Water Sampling : ☒

DEPTH

UPPER
RECOVERY
cm / cm
LOWER