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SOIL EXPLORATION REPORT

OF

PROJECT : PROPOSED ALLIANCE BUDGET HOUSING AT SIRUSERI

PN : 7364

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Foundation & Structural Engineers

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DTCP REG. No: GTE/19/06/003

SOIL EXPLORATION REPORT

PROJECT NO : **7364**

PROJECT NAME : **Construction of Proposed 2 Basement + Stilt + 19 Floors, Alliance Budget housing at Siruseri.**

1. INTRODUCTION

M/s. Alliance Group are proposing to construct 2 Basement + Stilt + 19 Floors Alliance Budget housing, Siruseri, at the location shown in Fig.1 Soil Exploration work was referred to this firm by M/s. Alliance Group, with a view to determining the soil properties of the area and to arrive at the most suitable foundation system for the proposed structure. For this purpose eight boreholes were bored upto a depth varies from 6.0 to 8.5M below ground level. The boreholes were terminated after drilling for the required depth in the medium rock layer. The boreholes locations are given in Fig.1. The work comprised of conducting Standard Penetration Tests in the field and collecting samples for testing in the laboratory. The report presents the details of the work, analysis of test results and foundation recommendations made based on the analysis.

2. EXPLORATION TECHNIQUE

Rotary Drilling techniques was adopted for boring in this area. Casing pipes and bentonite slurry were used to protect the sides of the boreholes. Standard Penetration Tests were conducted at change of layers and at specified intervals Disturbed samples were collected in plastic bags from all the layers for visual observation and classification tests. Undisturbed samples could not be collected since the soil layers met with were essentially cohesionless in nature. Core samples were collected from medium rock layers.

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3. SOIL PROFILE

The profile of the area as observed in the boreholes is given in Figs. 2 to 9 The top soil of 0.5 to 1.50M is non-uniform. The underlying layer is disintegrated rock with medium rock appearing at the depth varies from 2.0 to 4.3M below ground level. Water table was met with at 1.0 to 2.6M below ground level at the time of exploration.

4. ANALYSIS OF TEST RESULTS

1. Standard Penetration Test
2. Grain Size Analysis
3 Determination of Specific Gravity
4. Crushing Strength of Rock

An analysis of the results of these tests were presented in this section of the report

4.1 Standard Penetration Test

These tests were conducted at change of layers and at specified intervals, commencing the test at 1.5 M below ground level. The results are presented graphically in Figs. 2 to 9. The relative density of the cohesionless layers obtained from the N values are given in the bore logs.

4. 2 Grain Size Analysis

Combined sieve and hydrometer analyses were conducted on the various samples collected. The results are given in Table-1. Based on the proportion of the different soil constituents, the soil is classified using the Triangular Chart .

4.3 Determination of Specific Gravity

The specific gravities of the soil grains were determined from the various samples collected. The results are given in Table-1. No abnormal value is noted in the test results.

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P.N.7364

4.4 Crushing Strength of Rock

Core samples collected from medium rock layers were tested for determining crushing strength of rock. The results are given in Table – 2.

5. FOUNDATION ANALYSIS

5.1 Shallow Foundations

For the proposed structure shallow foundations can be given at any depth from 1.5M, resting the foundation on the disintegrated rock / medium rock layer.

The safe bearing capacity of these cohesionless layers could be computed using the formula,

$$Q_a = (0.5\gamma \times B \times N_\gamma + \gamma D_f N_q) \div 2.5$$

Where,

B	=	Width of footing
γ	=	Submerged unit weight of soil taken as 1 gm/cc,
D_f	=	Depth of surcharge
$N\gamma$ Nq	=	Bearing capacity factors based on the N values taken from Fig 10

For an N value of over 50 the SBC computed over 5.0kg/cm^2 for the foundations are placed on the disintegrated rock layer. However, the SBC may be limited to 5.0kg/c^2 to allow for any non-uniformity.

When the foundations are taken to medium rock layer the SBC that could be adopted is 10kg/cm^2.

The settlement would be elastic and of small order.

Over excavations in disintegrated rock should be refilled by 1:3:6 concrete and in medium rock by 1:2:4 concrete.

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6. EXCAVATION PROCEDURE

1. Vertical cuts could be given for excavation.

2. Normal excavators would be required for excavation in disintegrated rock and jack hammers would be required for excavation in medium rock.

3. Slush formed by any water accumulation should be removed and refilled by lean concrete.

4. If water accumulates in the foundation trenches, dewatering should be done by pumping out water from a level lower than the foundation level to maintain downward flow of water.

5 The exposed side of excavation should be covered by plastic sheet during rainy season and surface drain provided to prevent water from flowing on the cut surface.

8. CONCLUSIONS

1. The area explored has got top soil of 0.5 to 1.50M is non-uniform. The underlying layer is disintegrated rock with medium rock appearing at the depth varies from 2.0 to 4.3M below ground level. Water table was met with at 1.0 to 2.6M below ground level at the time of exploration.

2. For the proposed structure shallow foundations can be given at any depth from 1.5M, resting the foundation on the disintegrated rock /medium rock layer. The SBC that could be adopted is 5.0kg/cm^2 when the foundations are placed on the disintegrated rock layer and 10.0kg/cm^2 when the foundations are on the medium rock layer.

3. The settlement of the shallow foundation would be of small order and elastic in nature.

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4. Over excavations in the foundation trenches should be refilled as suggested.

5. Suggested excavation procedure should be adopted while undertaking the construction.

(Dr.A. Verghese Chummar)

Director

Dated: Feb 5th, 2018

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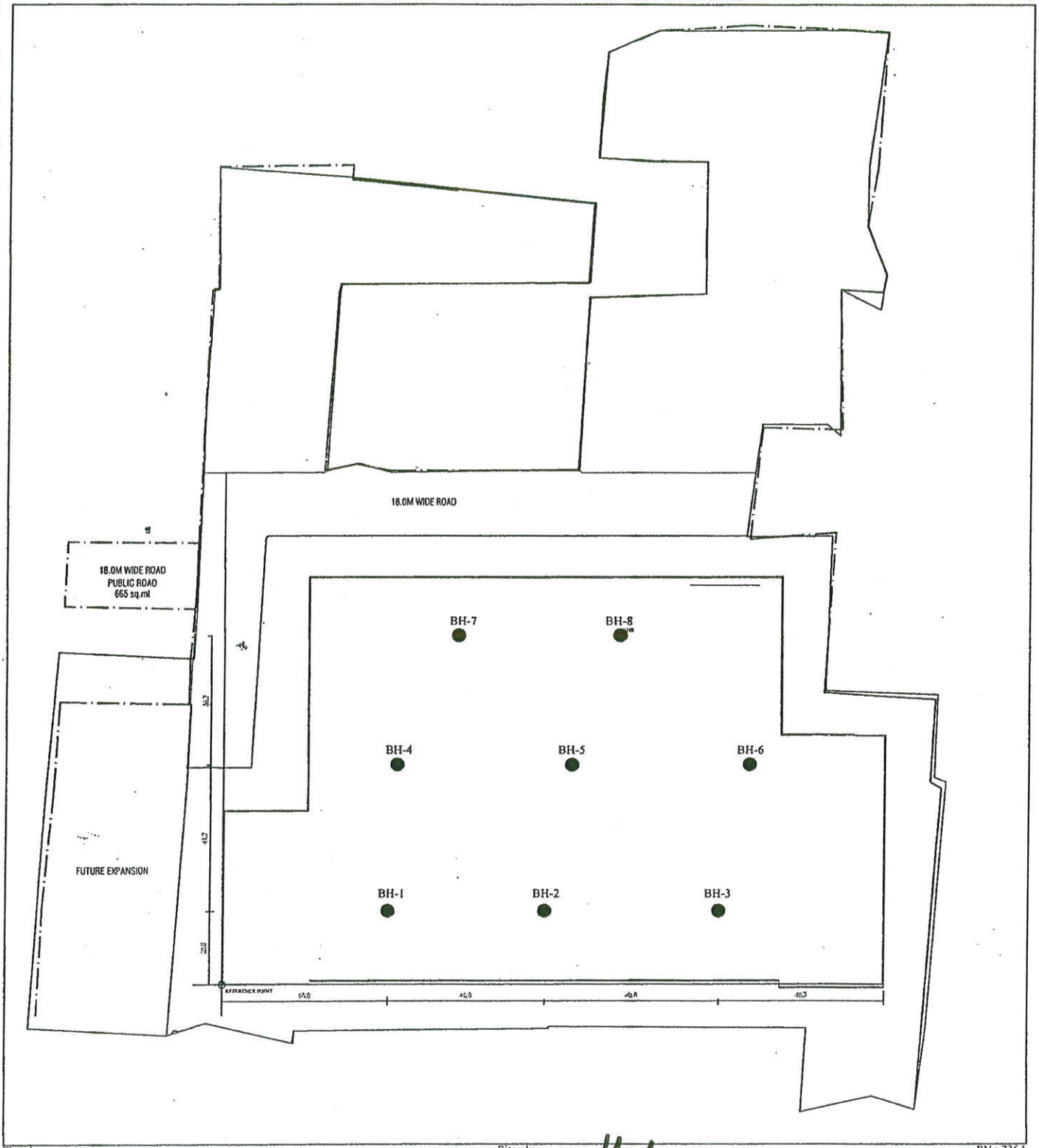


Fig : 1 Site plan PN : 7364

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F.S.ENGINEERS PRIVATE LIMITED

SOIL EXPLORATION AND FOUNDATION DESIGN DIVISION

FIELD BORE LOG

PROJECT : PROPOSED ALLIANCE BUDGET HOUSING AT SIRUSERI

DATE OF COMMENCEMENT : 21.01.201

BORE HOLE NO : 1

DATE OF COMPLETION : 22.01.2019

TYPE OF BORING : ROTARY DRILLING

G.W.L : 1.00 Mtr

DEPTH BELOW GL	SOIL PROFILE	DESCRIPTION OF SOIL	THICKNESS OF LAYER	DEPTH AT WHICH SAMPLES ARE COLLECTED		STANDARD PENETRATION TEST DATA				GRAPHICAL REPRESENTATION OF PENETRATION RESISTANCE
				D.S	U.D.S	DEPTH AT WHICH TEST CONDUCTED	N - VALUE	PENETRATION IN " CMS "	RELATIVE DENSITY CONSISTANCYD	10 20 30 40 >50
1		TOP SOIL (Gravelly)	1.50							
				1.50		1.50	>50	20	V.DENSE	
2		DISINTEGRATED ROCK DR1 (Brown)	2.00							
3										
				3.50		3.50			REBOUND	
4		MEDIUM ROCK MR2 (Whitish Grey)								
5										
6.00				6.00						

REMARKS : ALL DIMENSIONS ARE IN METRES

→ END OF BORING ↓ CORE RECOVERY

Fig : 2

P N : 7364

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SOIL EXPLORATION AND FOUNDATION DESIGN DIVISION

FIELD BORE LOG

PROJECT : PROPOSED ALLIANCE BUDGET HOUSING AT SIRUSERI

DATE OF COMMENCEMENT : 24.01.201

BORE HOLE NO : 2

DATE OF COMPLETION : 24.01.2019

TYPE OF BORING : ROTARY DRILLING

G.W.L : 2.00 Mtr

DEPTH BELOW GL	SOIL PROFILE	DESCRIPTION OF SOIL	THICKNESS OF LAYER	DEPTH AT WHICH SAMPLES ARE COLLECTED		STANDARD PENETRATION TEST DATA				GRAPHICAL REPRESENTATION OF PENETRATION RESISTANCE
				D.S	U.D.S	DEPTH AT WHICH TEST CONDUCTED	N - VALUE	PENETRATION IN " CMS "	RELATIVE DENSITY CONSISTANCYD	10 20 30 40 >50
		TOP SOIL (Gravelly)	0.50	0.50						
1		DISINTEGRATED ROCK DR1 (Brown)	1.50			1.50	>50	27	V.DENSE	
2				2.00		2.00			REBOUND	
3		MEDIUM ROCK MR2 (Brown)								
4										
5										
6										
7.00				7.00						

REMARKS : ALL DIMENSIONS ARE IN METRES

END OF BORING | CORE RECOVERY

Fig : 3

P N : 7364

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SOIL EXPLORATION AND FOUNDATION DESIGN DIVISION

FIELD BORE LOG

PROJECT : PROPOSED ALLIANCE BUDGET HOUSING AT SIRUSERI

DATE OF COMMENCEMENT : 21.01.201

BORE HOLE NO : 3

DATE OF COMPLETION : 22.01.2019

TYPE OF BORING : ROTARY DRILLING

G.W.L : 1.00 Mtr

DEPTH BELOW GL	SOIL PROFILE	DESCRIPTION OF SOIL	THICKNESS OF LAYER	DEPTH AT WHICH SAMPLES ARE COLLECTED		STANDARD PENETRATION TEST DATA				GRAPHICAL REPRESENTATION OF PENETRATION RESISTANCE
				D.S	U.D.S	DEPTH AT WHICH TEST CONDUCTED	N - VALUE	PENETRATION IN " CMS "	RELATIVE DENSITY CONSISTANCYD	10 20 30 40 >50
		TOP SOIL (Gravelly)	0.50	0.50						
1		DISINTEGRATED ROCK DR1 (Brown)	1.50			1.50	>50	20	V.DENSE	
2				2.00		2.00			REBOUND	
3		MEDIUM ROCK MR2 (Whitish Grey)								
4										
5										
6.00				6.00						

REMARKS : ALL DIMENSIONS ARE IN METRES

END OF BORING | CORE RECOVERY

Fig : 4

P N : 7364

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SOIL EXPLORATION AND FOUNDATION DESIGN DIVISION

FIELD BORE LOG

PROJECT : PROPOSED ALLIANCE BUDGET HOUSING AT SIRUSERI

BORE HOLE NO : 4

TYPE OF BORING : ROTARY DRILLING

DATE OF COMMENCEMENT : 25.01.201

DATE OF COMPLETION : 25.01.2019

G.W.L : 2.50 Mtr

DEPTH BELOW GL	SOIL PROFILE	DESCRIPTION OF SOIL	THICKNESS OF LAYER	DEPTH AT WHICH SAMPLES ARE COLLECTED		STANDARD PENETRATION TEST DATA				GRAPHICAL REPRESENTATION OF PENETRATION RESISTANCE
				D.S	U.D.S	DEPTH AT WHICH TEST CONDUCTED	N - VALUE	PENETRATION IN " CMS "	RELATIVE DENSITY CONSISTANCYD	10 20 30 40 >50
		TOP SOIL (Gravelly)	0.50	0.50						
1		DISINTEGRATED ROCK DR1 (Brown)	3.00			1.50	>50	0	V.DENSE	
2										
3										
4		MEDIUM ROCK MR2 (Whitish Grey)		3.50		3.50			REBOUND	
5										
6										
7.00 ►				7.00						

REMARKS : ALL DIMENSIONS ARE IN METRES

► END OF BORING

Fig : 5

P N : 7364

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FIELD BORE LOG

PROJECT : PROPOSED ALLIANCE BUDGET HOUSING AT SIRUSERI

DATE OF COMMENCEMENT : 23.01.201

BORE HOLE NO : 5

DATE OF COMPLETION : 24.01.2019

TYPE OF BORING : ROTARY DRILLING

G.W.L : 2.20 Mtr

DEPTH BELOW GL	SOIL PROFILE	DESCRIPTION OF SOIL	THICKNESS OF LAYER	DEPTH AT WHICH SAMPLES ARE COLLECTED		STANDARD PENETRATION TEST DATA				GRAPHICAL REPRESENTATION OF PENETRATION RESISTANCE
				D.S	U.D.S	DEPTH AT WHICH TEST CONDUCTED	N - VALUE	PENETRATION IN " CMS "	RELATIVE DENSITY CONSISTANCYD	10 20 30 40 >50
		TOP SOIL (Gravelly)	0.50	0.50						
1		DISINTEGRATED ROCK DR1 (Brown)	3.50			1.50	48	30	DENSE	
2										
3						3.00	>50	18	V.DENSE	
4				4.00		4.00			REBOUND	
5		MEDIUM ROCK MR2 (Brown)								
6										
7.00				7.00						

REMARKS : ALL DIMENSIONS ARE IN METRES

END OF BORING

CORE RECOVERY

Fig : 6

P N : 7364

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FIELD BORE LOG

PROJECT : PROPOSED ALLIANCE BUDGET HOUSING AT SIRUSERI

BORE HOLE NO : 6

TYPE OF BORING : ROTARY DRILLING

DATE OF COMMENCEMENT : 22.01.201

DATE OF COMPLETION : 22.01.2019

G.W.L : 2.10 Mtr

DEPTH BELOW GL	SOIL PROFILE	DESCRIPTION OF SOIL	THICKNESS OF LAYER	DEPTH AT WHICH SAMPLES ARE COLLECTED		STANDARD PENETRATION TEST DATA				GRAPHICAL REPRESENTATION OF PENETRATION RESISTANCE
				D.S	U.D.S	DEPTH AT WHICH TEST CONDUCTED	N - VALUE	PENETRATION IN " CMS "	RELATIVE DENSITY CONSISTANCYD	10 20 30 40 >50
		TOP SOIL (Gravelly)	0.50	0.50						
1										
2		DISINTEGRATED ROCK DR1 (Brown)	3.50			1.50	>50	0	V.DENSE	
3						3.00	>50	0	V.DENSE	
4				4.00		4.00			REBOUND	
5		MEDIUM ROCK MR2 (Brown)								
6										
7										
8										
8.50				8.50						

REMARKS : ALL DIMENSIONS ARE IN METRES

→ END OF BORING | CORE RECOVERY ↓

Fig : 7

P N : 7364

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SOIL EXPLORATION AND FOUNDATION DESIGN DIVISION

FIELD BORE LOG

PROJECT : PROPOSED ALLIANCE BUDGET HOUSING AT SIRUSERI

DATE OF COMMENCEMENT : 26.01.201

BORE HOLE NO : 7

DATE OF COMPLETION : 26.01.2019

TYPE OF BORING : ROTARY DRILLING

G.W.L : 2.60 Mtr

DEPTH BELOW GL	SOIL PROFILE	DESCRIPTION OF SOIL	THICKNESS OF LAYER	DEPTH AT WHICH SAMPLES ARE COLLECTED		STANDARD PENETRATION TEST DATA				GRAPHICAL REPRESENTATION OF PENETRATION RESISTANCE
				D.S	U.D.S	DEPTH AT WHICH TEST CONDUCTED	N - VALUE	PENETRATION IN " CMS "	RELATIVE DENSITY CONSISTANCYD	10 20 30 40 >50
		TOP SOIL (Gravelly)	0.50	0.50						
1		DISINTEGRATED ROCK DR1 (Brown)	3.80			1.50	>50	0	V.DENSE	
2										
3						3.00	>50	0	V.DENSE	
4				4.30		4.30			REBOUND	
5		MEDIUM ROCK MR1 (Disintegrated Rock Verity) (Greyish Brown)								
6										
7.00 ▶				7.00						

REMARKS : ALL DIMENSIONS ARE IN METRES

▶ END OF BORING

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Fig : 8

P N : 7364

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FIELD BORE LOG

PROJECT : PROPOSED ALLIANCE BUDGET HOUSING AT SIRUSERI

BORE HOLE NO : 8

TYPE OF BORING : ROTARY DRILLING

DATE OF COMMENCEMENT : 23.01.201

DATE OF COMPLETION : 23.01.2019

G.W.L : 2.30 Mtr

DEPTH BELOW GL	SOIL PROFILE	DESCRIPTION OF SOIL	THICKNESS OF LAYER	DEPTH AT WHICH SAMPLES ARE COLLECTED		STANDARD PENETRATION TEST DATA				GRAPHICAL REPRESENTATION OF PENETRATION RESISTANCE
				D.S	U.D.S	DEPTH AT WHICH TEST CONDUCTED	N - VALUE	PENETRATION IN " CMS "	RELATIVE DENSITY CONSISTANCYD	10 20 30 40 >50
		TOP SOIL (Gravelly)	0.50	0.50						
1										
2		DISINTEGRATED ROCK DR1 (Whitish Brown)	3.80			1.50	>50	0	V.DENSE	
3						3.00	>50	0	V.DENSE	
4										
5				4.30		4.30			REBOUND	
6		MEDIUM ROCK MR1 (Disintegrated Rock Verity) (Greyish Brown)								
7.00				7.00						

REMARKS : ALL DIMENSIONS ARE IN METRES

END OF BORING

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Fig : 9

P N : 7364

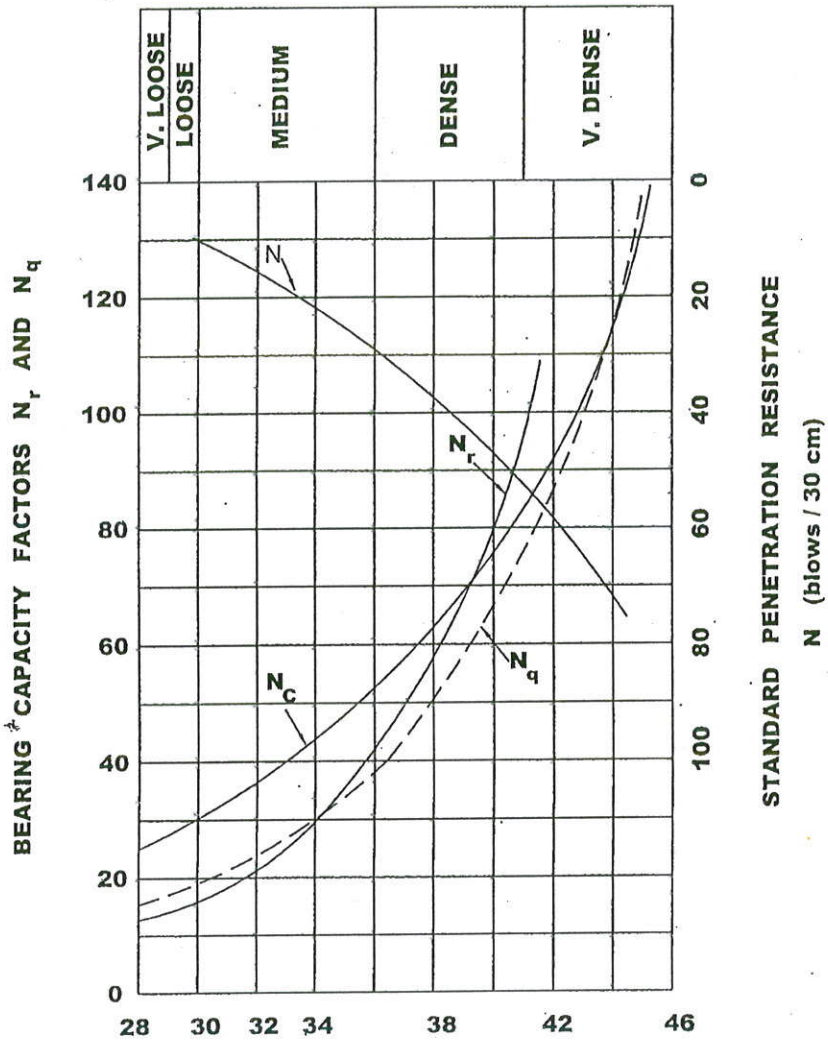


FIG. 10 CURVES SHOWING THE RELATIONSHIP BETWEEN ø N_r N_q, N_c AND N

Ref : Foundation Analysis & Design.
Joseph. E. Bowles.

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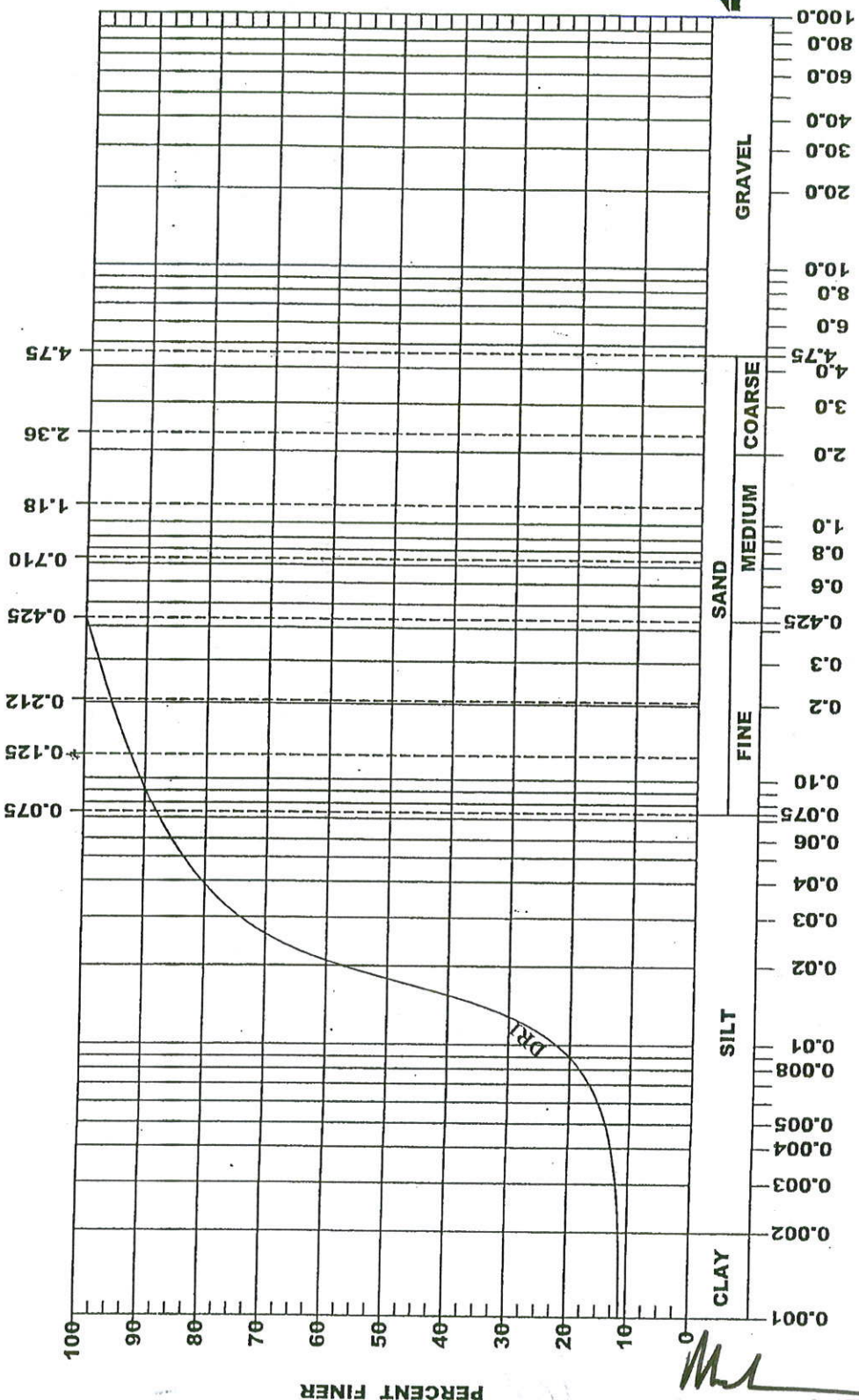


FIG. 11 GRAIN SIZE DISTRIBUTION CURVE

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Sl.No	Depth	Layer	W_L	Wp	Wn	swell	Grain Size Distribution				Sp. Gr. G
							Clay	Silt	Sand	Gravel	
	M		%	%	%	%	%	%	%	%	
1	2	3	4	5	6	7	8	9	10	11	12
BH.1											
	0.00-1.50	TOP	-	-	-	-	-	-	-	-	-
	1.50-3.50	DR1	-	-	-	-	12 (not clay)	10	78	-	2.64
	3.50-6.00	MR1	-	-	-	-	-	-	-	-	2.65
BH.2											
	0.00-0.50	TOP	-	-	-	-	-	-	-	-	-
	0.50-2.00	DR1	-	-	-	-	15 (not clay)	11	74	-	2.64
	2.00-7.00	MR1	-	-	-	-	-	-	-	-	2.65
BH.3											
	0.00-0.50	TOP	-	-	-	-	-	-	-	-	-
	0.50-2.00	DR1	-	-	-	-	9 (not clay)	14	77	-	2.64
	2.00-6.00	MR1	-	-	-	-	-	-	-	-	2.65
BH.4											
	0.00-0.50	TOP	-	-	-	-	-	-	-	-	-
	0.50-3.50	DR1	-	-	-	-	14 (not clay)	12	74	-	2.64
	3.507.00	MR1	-	-	-	-	-	-	-	-	2.65
BH.5											
	0.00-0.50	TOP	-	-	-	-	-	-	-	-	-
	0.50-4.00	DR1	-	-	-	-	10 (not clay)	11	79	-	2.64
	4.00-7.00	MR1	-	-	-	-	-	-	-	-	2.65
BH.6											
	0.00-0.50	TOP	-	-	-	-	-	-	-	-	-
	0.50-4.00	DR1	-	-	-	-	9 (not clay)	11	80	-	2.64
	4.00-8.50	MR1	-	-	-	-	-	-	-	-	2.65
BH.7											
	0.00-0.50	TOP	-	-	-	-	-	-	-	-	-
	0.50-4.30	DR1	-	-	-	-	15 (not clay)	12	73	-	2.64
	4.30-7.00	MR2	-	-	-	-	-	-	-	-	2.65
BH.8											
	0.00-0.50	TOP	-	-	-	-	-	15	75	-	2.64
	0.50-4.30	DR1	-	-	-	-	10 (not clay)	-	-	-	2.65
	4.30-7.00	MR2	-	-	-	-	-				

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Lab table : 1 — lab test result — PN : 7364

PROJECT : PROPOSED ALLIANCE BUDGET HOUSING AT SIRUSERI

Crushing Strength of Rock

BH No	Depth	Layer	Crushing Strength Of Rock In kg / cm^2
BH.1	3.50-6.00	MR1	65
BH.2	2.00-7.00	MR1	63
BH.3	2.00-6.00	MR1	61
BH.5	4.00-7.00	MR1	72
BH.6	4.00-8.50	MR1	70

Table: 2 P.N :7364

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