Depth Type Date of Strakting Date of S	BARPALAHA, BEZERA ASSAM	d, Diener					ROR	RORE LOG CHART	.					
DATE OF STARTING; 19-45-2022 GROUND WATER LEVEL				-			1		i					
1	SORE HOL	E NO: 07			DATE	OF S	TARTING: 19-05-2022	GROUND WATER	LEVEL EGL		AUGER &	WASH BOR	DQ.	
Type Sample Sam				_	DALE	S. C.	OMPLETION: 19-03-2022		1	ALLESSED PROPERTY TOOLS				
SAMPLE CM CM CM 2 Canyish silty CLAY Canyish fine to medium SAND	DEPTH	OF		SPT 15	15	Value	VISUAL DESCRIPTION OF SOIL	10G	o	RAPHICAL REP	ESENTATI	ON OF N-V	lue	
D	(M)	SAMPLE		_	CM	-N			0		0	09	80	100
U S S S S S S S S S	0.50-0.95	Ь	-	2	2	4								
P 2 3 2 5 2 10M 1.5	1.0	n												-
U Brownish SANDY CLAY 2.90M 3 4.50 D Q Q Q 4.60M D Q Q Q Q 4.60M D Q Q Q Q Q Q D Q Q Q Q Q D Q Q Q Q Q D Q Q Q Q Q D Q Q Q Q Q D Q Q Q Q Q D Q Q Q Q Q D Q Q Q Q Q D Q Q Q Q Q D Q Q Q Q Q D Q Q Q Q Q D Q Q Q Q Q D Q Q Q Q Q D Q Q Q Q Q D Q Q Q Q Q Q D Q Q Q Q Q Q D Q Q Q Q Q Q Q D Q Q Q Q Q Q Q D Q Q Q Q Q Q Q Q D Q Q Q Q Q Q Q Q D Q Q Q Q Q Q Q Q Q	1.50-1.95	Ь	2	က	2	5		**********	/					
P 4 7 8 15 Grayish fine SAND CLAY 2.90M 3 D D 6 8 11 19 4.60M 4.60M D D 6 8 11 19 4.60M 6.10M U D 5 6 6 12 Brownish SANDY CLAY 6 10 U D A 5 4 9 Brownish silty CLAY 7.5 U D A 6 10 Grayish fine to medium SAND 10.50M 9 D D D C A 5 6 10 D D D D D D D D D D	2	n					2.10M		/					
P 4 7 8 15 Grayish fine SAND D 6 8 11 19 4.60M D 6 8 11 19 4.60M D 6 6 12 Brownish SANDY CLAY D 7 5 6 6 12 D 7 6 10 D 7 6 10 D 7 6 10 D 7 7 7 D 7 7 7 D 7 7 7 D 7 7 7 D 7 7 D 7 7 7 D 7 D 7	2.0-2.90						Brownish SANDY CLAY 2.90M							
D 6 8 11 19 4.60M D 7.5 6 6 12 Brownish SANDY CLAY U 8 4 5 4 9 Brownish silty CLAY U 9 4 5 4 9 Brownish silty CLAY U 10.50M D 7.5	3.0-3.45	Ь	4	7	80	15	Grayish fine SAND)						-
P 6 8 11 19 4.60M D 7.5 P 6 6 12 Brownish SANDY CLAY U 6.10M D 7.5 P 7.5 D 7.5	3.5	D												
D	4.5-4.95	Ь	9	80	11	19		4.5						
P 5 6 6 12 Brownish SANDY CLAY 6 6.10M 7.5	5	D					4.60M							1
U 6.10M P 4 5 4 9 Brownish silty CLAY 7.5 U P 3 4 10 14 10.50M 9 S P 4 4 6 10 Grayish fine to medium SAND 9 D D 4 4 4 4 6 10 6 P 15 19 21 40 7.5 7.5 7.5 D D 16 24 45 7.5 7.5 7.5 D D 18 21 24 45 7.5 7.5 7.5 D D 15.50M 15.50M 13.5 7.3	6.0-6.45	Ь	2	9	9	12	Brownish SANDY CLAY	9	*					
P 4 5 4 9 Brownish silty CLAY U P 3 4 10 14 10.50M S P 4 4 6 10 Grayish fine to medium SAND D D D D D D D D D D D D D D D D D D	6.5	n					6.10M		\					
U P 3 4 10 14 10.50M 9 S P 4 4 6 10 Grayish fine to medium SAND 9 D D 4 4 6 10 Grayish fine to medium SAND 10.5 P 15 19 21 40 10.5 10.5 P 18 21 24 45 12 12 12 P 18 21 23 27 50 15.50M 13.5 D D 15.50M D: DISTURBED SAMPLE:: D: DISTURBED SAMPLE::	7.5-7.95	Ь	4	5	4	6	Brownish silty CLAY	1						
P 3 4 10 14 10.50M 9 S P 4 4 6 10 Grayish fine to medium SAND 9 D D 4 4 6 10 Grayish fine to medium SAND 10.5 P 15 19 21 40 10.5 10.5 D P 18 21 24 45 12 12 12 P 18 21 24 45 13.5 13.5 13.5 D D 15.50M D: DISTURBED SAMPLE:: D: DISTURBED SAMPLE:: 13.5	8	n						C./						1
D	9.0-9.45	Ь	3	4	9	14								
5 P 4 4 6 10 Grayish fine to medium SAND 10.5 D D 15 19 21 40 10.5	9.5	n					10.50M	6						
D P 15 19 21 40 D D 16.50M 15.50M D 13.5 13.5 D 15.50M 13.5	10.5-10.95	Ь	4	4	9	10	Grayish fine to medium SAND							
P 15 19 21 40 D D 12 12 D D 15.50M 15.50M D 15.50M 13.5 D 13.5 13.5	=	D						, C						
D P 18 21 24 45 D D 15.50M 15.50M 13.5 D D: DISTURBED SAMPLE:: D: DISTURBED SAMPLE::	2.00-12.45	Ь	15	19	21	40		2	/	/				
P 18 21 24 45 D P 21 23 27 50 D D 15.50M 13.5 NDISTURBED SAMPLE:: D: DISTURBED SAMPLE::	12.5	D												
D 15.50M 13.5 13.5 15.50M 15.50M 13.5 15.50M	3.5-13.95	P	18	21	24	45		2						
P 21 23 27 50 15.50M 13.5	14	D									+			
UNDISTURBED SAMPLE:: D: DISTURBED SAMPLE::	5.00-15.45	Ь	21	23	27	20		13.5						
D: DISTURBED SAMPLE::	15.5	D					15.50M			P. STANDAR	D PENET	RATION	FEST::	
	NI II	DISTUR	3ED	AM	PLE		D: DISTURBED SAN	MFLE::		T. C. C. C.	I VOLUME	100		

Depth Type 15 15 15 15 15 15 15 1							BORE LOG CHART	BORE LOG CHART				
Type SAMPLE ST Type SAMPLE; Type SAMPLE; Type T	1	1 0		F	DATE	OF ST		GROUND WATER LEVEL		SMACH BORING		
TYPE SPT SPT	OLE	NO: 08			DATE	OF C	OMPLETION: 20-05-2022	0.18M FROM EGL	NOOE N	WASH BONING		
P 1 2 3 Grayish slity CLAY 1.5		TYPE OF AMPLE		-	15 CM	aulsV-N	VISUAL DESCRIPTION OF SOIL		GRAPHICAL REPRESENTA	TION OF N-Value	C	100
U		P		_	2	6	Grayish silty CLAY			8	8	3
P 1.5 1.50M 15.50M 1.55MM 1		n						,				
U 2 3 6 9 Grayish Brown silty CLAY U 2 3 6 9 Grayish Brown silty CLAY U 1 2 2 4 U 2 4 3 7 U 2 4 3 7 V 2 3 5 8 U 2 3 5 8 U 2 3 5 8 U 2 3 5 8 U 2 8 14 D 4 6 8 14 D 6 8 9 17 D 6 8 8 10 18 D 7 5 6 Crayish fine SAND 10.50M 11.50M 12.50M D 15.50M D D 15.50M	95	Ь						1.5				
P Grayish SANDY CLAY 3		n	-	2	-	3	2.90M					
U 2 3 6 9 3.70M 4.5	45	Ь						2				
P Crayish Brown silty CLAY 4.5 P P P P P P P P P		n	2	က	9	6	3.70M					
U 2 4 P 2 4 V 2 4 3 7 P 4 3 7 9 V 3 3 4 7 S P 8 11,90M 10.5 P 6 8 14 Grayish fine SAND 12 P P 6 8 14 13.5 D 6 8 10 18 15.50M D D 15.50M 15.50M D D 15.50M D 15.50M D 15.50M	95	Ь					Grayish Brown silty CLAY	4.5				1
P	1	D	-	2	7	4						
V 2 1 3 4 P 4 3 7 V 2 4 3 7 S P 9 9 V 2 3 5 8 11.90M P V 2 3 5 8 10.5 P A 6 8 14 12.50M 12.50M D B B 10 18 115.50M 15.50M NOISTURBED SAMPLE:: D: DISTURBED SAMPLE:: D: DISTURBED SAMPLE::	45	Ь		1	1			9				
P 7.5 7.5 7.6 7.7 7.5 7.7 7.5 7.5 7.5 7.5 7.5 7.5 7.5	1	n	7	-	0	4						
P	95	Ь	(,	-	ı		7.5				1
Total Part Tot	15		7	4	20							
10.5 P 11.90M 10.5 D	2	n	m	8	4	7		on				
U 2 3 5 8 11.90M 10.5 P 4 6 8 14 12 P 8 9 17 13.5 P 8 9 17 15.50M D 6 8 10 18 15.50M D 15.50M 15.50M 15.50M	36.0	P										
P Grayish fine SAND 12 12 12 13.5 14 15.50M 15.5		U	2	8	5	8	11.90M	C:01				
D 4 6 8 14 P B 17 15.50M 15.50M D 6 8 10 18 15.50M D D 15.50M 15.50M NDISTURBED SAMPLE:: D: DISTURBED SAMPLE::	45	P					Grayish fine SAND	ç				
P P T	2	D	4	9	8	14		71				
D 6 8 9 17 P P 15.50M 15.50M D 15.50M 15.50M NDISTURBED SAMPLE:: D: DISTURBED SAMPLE::	5	P						2				
P P 15.50M 15.50M D 6 8 10 18 15.50M NDISTURBED SAMPLE:: D: DISTURBED SAMPLE::		D	9	8	о	17		13.0				
D 6 8 10 18 15.50M 15.50M 15.50M D D: DISTURBED SAMPLE::	45	P										
D: DISTURBED SAMPLE::	1	D	9	80	10	18	15.50M	15				
D: DISTURBED SAMPLE::	9	D					15.50M					
	OND	STURB	ED S	AMP	CE::		D: DISTURBED SAI	MPLE::	P: STANDARD PENE	TRATION TES	T::	

Depth Cycle Hole No. Operation Cycle Hole							BORE	BORE LOG CHART				
DATE OF COMPLETION: 20-05-2022 0.10M FROM EGL CANADILE CANADIL CAN				Ī	DATE	OF ST	2022	GROUND WATER LEVEL	Aligep	& WASH BORIN	ď	
TYPE SAMPLE SAM	ORE HOL	E NO: 09		1-	DATE	OFC	OMPLETION: 20-05-2022	0.10M FROM EGL	AGGE			
SAMPLE CM	112000	TYPE		٦.		ər	VISUAL DESCRIPTION		GRAPHICAL REPRESENT	ATION OF N-Valu	ē	
D	DEPTH	OF		15	12	I-Valu	OF SOIL		00	G	S	5
U 2 3 4 7 7 200M 3 3 4 7 7 5.80M With fine SAND	0.50-0.95	P	0.03	N C	ο C	N R	Grayish silty CLAY			8		3 -
P 2 3 4 7 2.000M 3 3 4 7 5.80M 4.5 5.80M 4.5 5.80M 5.80M 5.80M 5.80M 5.80M 5.80M 6 6 7 7 14 7 11 20 7 7 14 7 11 20 7 7 14 7 11 20 7 7 14 7 11 20 7 7 14 7 7 14 7 14 7 14 7 31 7 15 28 7 15 28 7 16 16 19 35 15.45M 1	1.0	n						,				
U 5.00M 4.5 U 7 2 2 4 6 Grayish silty CLAY with fine SAND U 8 3 4 7 7 5.80M D 9 4 4 7 111 P 9 4 4 7 111 D 0 6 7 7 7 14 D 0 8 9 11 20 S 0 P 8 9 11 20 D 0 10 13 15 28 D 0 10 10 13 15	1.50-1.95	P	2	8	4	7						
P 2 2 4 6 Grayish silty CLAY with fine SAND U 3 4 7 5.80M D 4 4 7 7 11 P 4 4 7 11 D 6 Grayish fine to medium SAND D 7.5 P 6 7 7 14 D 7 9 9 9 11 20 P 7 1 1 20 D 7 1 1 20 D 8 9 11 20 D 9 11 20 D 15.45M D D 15.45M	2	U										T
D S.80M O Grayish fine to medium SAND D A 4 7 11 P A 4 7 11 D D A 4 A 7 11 D D A 4 A 7 11 D D A 4 A 7 11 D D A 5.80M A 5.80M A 6 10 Grayish fine to medium SAND C A 7 7 14 D D A 4 A 7 11 D D A 5.80M A 9 A 7 11 A 10 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1	3.0-3.45	Ь	2	2	4	9	Grayish silty CLAY with fine SAND	· ·				T
P 3 3 4 7 5.80M U D D D D D D D D D D D D D D D D D D	3.5	n						7 7 7				
U 5.80M P 3 4 6 10 Grayish fine to medium SAND 6 D 4 4 7 11 P 6 7 7 14 D 9 9 9 S P 8 9 11 20 P 10 13 15 28 D D 12 12 P 13 14 17 31 P 16 16 16 16 16 16 16 D D 15.45M 15.45M D 15.45M 15.45M	4.5-4.95	P	8	3	4	7	1	2				1
P 3 4 6 10 Graysh time to medium SAND D 4 4 7 11 P 4 4 7 11 D 6 7 7 14 D 6 7 7 14 D 9 9 9 9 11 20 D 9 11 20 D 9 11 20 D 12 45M D 15.45M	5	n					5.80M					
D	6.0-6.45	Ь	က	4	9	10	Grayish fine to medium SAND	0				T
P 4 4 7 11 D P 6 7 7 14 D D 11 20 9 9 S P 11 20 9 10	6.5	D						1				
D B F	7.5-7.95	Ь	4	4	7	11		€: •:				
P 6 7 7 14 D 10 11 20 P 10 13 15 28 D D 13 14 17 31 D D 13 14 17 31 D D 15 16 16 35 15.45M INDISTURBED SAMPLE:: D: DISTURBED SAMPLE::	8	D										
D P 8 9 11 20 D D 10 13 15 28 D D 13 14 17 31 D D 15 15 15 INDISTURBED SAMPLE:: D: DISTURBED SAMPLE:: D: DISTURBED SAMPLE::	9.0-9.45	Ь	9	7	7	14		o				П
5 P 8 9 11 20 D D 10.5 12 D D 13.5 13.5 D D 15.45M D 15.45M 15.45M D 15.45M 15.45M	9.5	D										_
D 10 13 15 28 D 13 14 17 31 D 15 15 13.5 D 15 15 15 D 15 15 15 NDISTURBED SAMPLE:: D: DISTURBED SAMPLE:: D: DISTURBED SAMPLE::	10.5-10.95	Ь	80	6	7	20		10.5				
P 10 13 15 28 D 13 14 17 31 D 16 16 19 35 D 15.45M 15.45M D 15.MDISTURBED SAMPLE:: D: DISTURBED SAMPLE::	=	D							/			
D 13 14 17 31 15 5 15 15 15 15 15 15 15 15 15 15 15	2.00-12.45	Ь	10	13	15	28		17				
D	12.5	D										
D 15.45M 15.45M 15.45M D: DISTURBED SAMPLE::	3.5-13.95	Ь	13	14	17	31		5.0				
D 15.45M D: DISTURBED SAMPLE::	14	D										
UNDISTURBED SAMPLE:: D: DISTURBED SAMPLE::	5.00-15.45	Ь	16	16	19	35	TO LESS CONTRACTOR DE CONTRACT	2	*			
D: DISTURBED SAMPLE::	15.5	D							THE COLUMN TWO IS NOT THE PERSON OF	THE VOLLEY GETS	CT	
	11:11	DISTURE	FING	AMP				PLE::	P. STANDARD PEN	EIKAIIONIE	::107	

GRAPHICAL REPRESENTATION OF N-Value 20 40 60 80 P: STANDARD PENETRATION TEST::	BEZERA ASSAM	M					BORE LOG CHART	BORE LOG CHAR	IART					
DEPTH TYPE STATE OF COMPLETION: 21-05-3022 DISON FROM RECL AUGUST BORNER A WASH BORNER				f	DATE	OF		V CINI IOGO	ATER I FVF				Citic	
10-110 1.50-138 1.50 1	BORE HOLE	NO: 10			DATE	OF	OMPLETION: 21-05-2022	0.20M F	ROM EGL	ı	AUGER	& WASH BC	KING	
Comparison Com		TYPE		- Cont		91	VISUAL DESCRIPTION			GRAPHICAL	REPRESENT	ATION OF N-	Value	
10 10 10 10 10 10 10 10		OF	15		15	-Valu	OF SOIL	LOG.						
0.50-0.95 P 1 1 2 3 Grayish silfy CLAY 1.0 U 1.0-1.10 1.0-1.10 1.50-1.95 P 2 2 4 6 Grayish brown silty CLAY 2 2 4 6 Grayish brown silty CLAY 3 2-80M 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.		AMPLE	CM	-	S	N	300		0	20	40	09	08	100
1.50-1.95 P 2 2 4 6 Grayish brown silty CLAY 2 80M 3.0-3.45 P 2 2 4 6 Grayish brown silty CLAY 3 3.0-3.45 P 2 2 4 6 Grayish fine SAND 4.5 4.5-4.95 P 5 7 8 15 5.20M 6.0-6.45 P 6 8 9 17 Grayish fine to medium SAND 8 90-9.45 P 6 8 9 17 Grayish fine to medium SAND 8 90-9.45 P 6 8 9 17 10.5-10.95 P 7 9 9 18 11 D 7 10 11 21 12.00-12.45 P 7 10 11 21 12.50-12.45 P 9 12 13 26 13.5-13.95 P 9 9 12 13 26 13.5-13.95 P 9 9 12 13 26 13.5-13.95 P 9 9 12 15 28 13.5-13.95 P 10 13 15 28 14.50 P 10 13 15 28 15.00-15.45 P 10 13 15 28	0.50-0.95	Р	-	-	7	က	Grayish silty CLAY		0					
1.501.10 1.501.10 1.501.10 1.501.10 1.501.10 1.501.10 1.10M 1.10M	1.0	n												
1.50-1.95 P 2 2 4 6 Grayish brown silty CLAY 2 0 U	1.0-1.10					70.0	1.10	2	1.5					
2 U Grayish fine SAND 4.5 3.0-3.45 P 3 4 4 8 Grayish fine SAND 4.5 4.5-4.95 P 5 7 8 15 5.20M 6.0-6.45 P 5 6 8 14 6.0-6.45 P 6 8 9 17 6.0-6.45 P 6 8 9 17 7.5-7.95 P 6 8 9 17 7.5-7.95 P 6 8 9 18 8 D 6 8 9 17 7.5-7.95 P 7 8 15 9.0-9.45 P 7 9 9 18 10.5-10.95 P 7 10 11 21 12.0-12.45 P 7 10 11 21 12.5 D 7 10 13 15 28 13.5-13.95 P 10 13 15 28 115.50M	1.50-1.95	P	2	2	4	9	Grayish brown silty CLAY				- 1			
3.0-3.45 P 3 4 4 8 Grayish fine SAND 3.5 D 4 4 8 15 3.5 20M 5 D 5 7 8 15 5.20M 6.0-6.45 P 5 6 8 14 6.00M 7.5-7.95 P 6 8 9 17 10.5-10.95 P 7 9 9 18 11 D 7 10 11 21 12.00-12.45 P 7 10 11 21 12.50-12.45 P 7 10 11 21 13.5-13.95 P 9 12 13 26 13.5-13.95 P 9 10 13 15 28 13.5-13.95 P 10 13 15 28 13.5-13.95 P 10 13 15 28 13.5-13.95 P 10 13 15 28	2	U					2.80M		5			Y		
3.5 D 4.5-4.95 P 5 7 8 15 5.20M 6 6 4.5-4.95 P 6 8 14 Grayish fine to medium SAND 7.5 6 7 7 6 7 8 1 7 9 9 1 <	3.0-3.45	P	3	4	4	00	Grayish fine SAND							
4.5-4.95 P 5 7 8 15 5.20M 5 D	3.5	D							4.5	•				
5.20M 6.0-6.45 P 5 6 8 14 Grayish silty CLAY 6.50 U 8 7.5-7.95 P 6 8 9 17 7.5-7.95 P 6 8 9 17 7.5-7.95 P 6 8 9 17 8 9.0-9.45 P 5 7 8 15 9.5-9.45 P 7 9 9 18 10.5-10.95 P 7 10 11 21 12.00-12.45 P 7 10 11 21 12.00-12.45 P 7 10 11 21 12.50-12.45 P 7 10 11 21 12.50-13.95 P 9 12 13 25 13.5-13.95 P 10 13 15 28 15.50M 15.50 D D DISTURBED SAMPLE:	4.5-4.95	Ь	2	7	ω	15								1
6.5 G.06.45 P 5 6 8 14 Grayish silty CLAY 6.00M 7.5-7.95 P 6 8 9 17 Grayish fine to medium SAND 8 D	5	D					5.20M		9	•				
6.5 U 6.00M 8	6.0-6.45	Р	2	9	ω	14	Grayish silty CLAY							
No. 15.7055 P 6 8 9 17 Grayish fine to medium SAND 9 18 9 17 9 9 18 9 9 9 9 9 9 9 9 9	6.5	U					6.00M		7.5	*				1
8 D 8 15 90-945 P 5 7 8 15 9 9 18 10.5-10.95 P 7 9 9 18 11 D 7 10 11 21 12.00-12.45 P 7 10 11 21 12.50-12.45 P 9 12 13 25 2 0 13.5-13.95 P 9 12 13 25 2 0 13.5-13.95 P 10 13 15 28 15.00-15.45 P 10 13 15 28	7.5-7.95	Ь	9	ω	တ	17	Grayish fine to medium SAND							
9.5 D	8	D							6	*				
9.5 D 7 9 9 18 10.5-10.95 P 7 9 9 18 12.00-12.45 P 7 10 11 21 12.00-12.45 P 7 10 11 21 13.5-13.95 P 9 12 13 25 28 13.5-13.95 P 10 13 15 28 15.00-15.45 P 10 13 15 28 15.00-15.45 D D DISTURBED SAMPLE::	9.0-9.45	Ь	2	7	80	15			•					
10.5-10.95 P 7 9 9 18 11 D 7 10 11 21 12.00-12.45 P 7 10 11 21 13.5-13.95 P 9 12 13 25 22 13.5-13.95 P 10 13 15 28 15.00-15.45 P 10 13 15 28 15.00-15.45 D 10 13 15 28 15.00-15.45 D 0. DISTURBED SAMPLE::	9.5	D							0.5	•		# # # # # # # # # # # # # # # # # # #		
12.00-12.45 P 7 10 11 21 1.00.48 P 7 10 11 21 1.00.48 P 7 10 11 21 1.00.48 P 12 13 26 22 00 13.5-13.95 P 9 12 13 26 22 00 15.00-15.45 P 10 13 15 28 15.00-15.45 D 15.00-15.45 D D: DISTURBED SAMPLE::	10.5-10.95	Ь	7	თ	თ	18			2	-				
12.00-12.45 P 7 10 11 21 21 25 2	11	D							12	_				
13.5-13.95 P 9 12 13 25 25 0 13 15 15 15 15 15 15 15 15 15 15 15 15 15	12.00-12.45	Ь	7	10	7	21	()		1					
13.5-13.95 P 9 12 13 26 26 27 28 13 26 26 27 28 15.00-15.45 P 10 13 15 28 15.50M 15.50	12.5	D					C		2	•				
15.00-15.45 P 10 13 15 28 15.50M 15.5	13.5-13.95	Ь	თ	12	13	25	8 SHO		0.0	_				
15.00-15.45 P 10 13 15 28 709 1W 15.50M 15.50M D: DISTURBED SAMPLE::	14	D					The state of the s		т.					
15.5 D 15.50M 15.1 D. DISTURBED SAMPLE::		Ь	10	13	15	28	2		2	*				
11. INDICTI BRED SAMPLE:: D: DISTURBED SAMPLE::		D					15.50M	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		D. OTFA	ILLA DIN DEN	FTDATION	Treer.	
O: UNDISTONDED SAME EE:		STURE	REDS	AMP	VE:		D: DISTURBED SAN	APLE::		F: SIA	NOARD FEN	EINAIIO		

BEZERA ASSAM						BORE	LOG CHAR	रा					
				DATE	OF ST	DATE OF STARTING: 20-05-2022	GROUND WATER LEVEL	ER LEVEL		GEOTA	ALIGED & WASH BORING	UNIC	
BORE HOLE NO: 12	12		1=	DATE	OF C	DATE OF COMPLETION: 20-05-2022	0.20M FROM EGL	M EGL		AGGEN	00 110000		
DEPTH TYPE	PE -	4	SPT	14	ənji	VISUAL DESCRIPTION	90		GRAPHICAL REPRESENTATION OF N-Value	REPRESENT	ATION OF N-	/alue	
	Ш				εV-N	OF SOIL		0	20	40	09	80	100
95	Ь		-	2	3	Grayish silty CLAY	0	1					
1.0	n												
1.50-1.95	Ь	-	-	2	3	Grayish brown silty CLAY	C.						
2 1	n							k			1		
3.0-3.45 I	P	-	2	2	4								
3.5	U					4.60M		1					
4.5-4.95 I	P	2	8	2	5	Grayish Sandy CLAY	4.						
3 1	U					5.80M							
6.0-6.45 F	Ь	4	2	7	12	Grayish fine SAND		0					
6.5 I	D					7.70M	1						
7.5-7.95	P	7	8	6	17	Grayish silty CLAY	G.)						
8	U							1					I
9.0-9.45 I	Р	3	က	က	9			<i>y</i>					
1 5.6	U					M09.6			/				
10.5-10.95	P	8	6	10	19	Grayish fine SAND	10.5	-					
11 1	D												
12.00-12.45	P	7	8	1	19		12	7					1
12.5 I	D						(
3.5-13.95	P	7	6	13	22		13.5						
14 I	D									-			
15.00-15.45	P	8	10	12	22		75		1				
15.5 I	D					15.50M			P. Com A N.	TSAL NOIL A GENERAL AND THE CH.	NOIT FOLLOW	and and	
II. LINDISTIIRBED SAMPLE::			1			THE TOTAL PROPERTY OF THE PARTY				֡			

						BORE LOG CHART	BORE LOG CHART	RT					
				DAT	TE OF	DATE OF STARTING: 21-05-2022	GROUND WATER LEVEL	TER LEVEL		AUGER	AUGER & WASH BORING	SING	
BORE HOLE NO: 13	E NO: 1	~		DAT	TE OF	DATE OF COMPLETION: 21-05-2022	0.18M FROM EGL	OM EGL					
DEPTH (M)	TYPE OF SAMPLE	15 A	SPT 15		9nlsV-V	VISUAL DESCRIPTION OF SOIL	LOG.	0	GRAPHICAL 20	GRAPHICAL REPRESENTATION OF N-Value 20 40 60 8	TION OF N-V	alue 80	100
0.50-0.95	P		-	+	-	Grayish brown silty CLAY		0					
1.0	ם					M08.0							
1.50-1.95	Ь	-	-	2	3	Grayish brown silty CLAY		U.					
2	n			- 1	+			3					
3.0-3.45	d.	2	7	7	4								
3.5		-	0	-	"		4	4.5					
5	, D	1	1	-	\vdash								
6.0-6.45	Ь	2	ო	2	∞			9					
6.5	U				-		<u> </u>						
7.5-7.95	Ь	3	က	9	6			0.					
8	n				\dashv								
9.0-9.45	Ь	2	4	7	1			D					
9.5	n			1	\dashv			L					
10.5-10.95	А	n	4	2	6			0.0					
11		0	4	00	12			12					
12.5	D	1	-	-	\vdash								
13.5-13.95	Ь	n	5	9	11			13.5					
14	n												
15.00-15.45	Ь	4	4	7	11			0					
15.5	n				-	15.50M			D. CTAN	B. STANDADD PENETBATION TEST:	VOIT A GT.	TFST:	
NO S	U: UNDISTURBED SAMPLE::	BED	SAN	PLE	:::	D: DISTURBED SAMPLE::	IPLE::		F: SIA	TO THE LEVEL OF THE PARTY OF TH			
		1	1	TAG	MILLO	ECI. EVICTING CDOIND LEVEL.				K:KEFUSAL;N>100::	CINATOR:		

			BORE	BORE LOG CHART					
	DATE	OFST	DATE OF STARTING: 21-05-2022	GROUIND WATER I EVEL	EVEL				
BORE HOLE NO: 14	DATE	OF CC	DATE OF COMPLETION: 21-05-2022	0.15M FROM EGL	GL GL	AUGER	AUGER & WASH BORING	SNG	
		ən	VISUAL DESCRIPTION		GRAPHIC	GRAPHICAL REPRESENTATION OF N-Value	TION OF N-V	alue	
(M) SAMPLE CM CM	15 CM	IsV-Val	OF SOIL	. Log.	20	40	09	80	100
0.50-0.95 P 0 1	-	2	Grayish brown silty CLAY	0					П
1 U				7					
1.50-1.95 P 0 1	2	3		?.					
2 U									
3.0-3.45 P 0 1	2	3							
Ŋ	1	1		45					
.95	-	7							П
D.	ŀ			9					1
15		~) 					I
Ω				7 2					
7.5-7.95 P 2 1	е	4		C: /					Ŧ
0 8									
9.0-9.45 P 1 1	7	8		D					
9.5 U				,					I
10.5-10.95 P 1 2	7	4		10.5					
+				Ç					H
12.00-12.45 P 1 2	-	8		71					1
12.5 U									
13.5-13.95 P 2 1	8	4		13.5					T
14 U									
15.00-15.45 P 2 2	က	2		<u>6</u>					
15.5 U					D. C.T.	P. STANDARD PENETRATION TEST:	TRATION	FFST.	
U; UNDISTURBED SAMPLE:: D: DISTU	PLE		D: DISTURBED SAMPLE:	LE:	1.01	THE PROPERTY OF THE PROPERTY O			

50 of 304

1

Depth Type STARTING: 22-065-2022 GROUND WATER LEVEL DATE OF STARTING: 22-065-2022 GROUND WATER LEVEL DATE OF STARTING: 22-065-2022 GASAPHE CM CM SAPPLE CM SAPPLE CM CM SAPP							BORE	BORE LOG CHART	L					
DEPTH TYPE SAPT			١.		DAT	E OF S	TARTING: 22-05-2022	GROUND WATE	R LEVEL		01014	0 MAKEU DO	ONIC	
150-195 Part Type SPIT	BORE HOL	E NO: 15			DAT	E OF	COMPLETION: 22-05-2022	0.23M FRO	N EGL		AUGER	& WASH BUT	פוועס	
March SAMPLE CM CM CM CM CM CM CM C	DEPTH	TYPE	15	SPT 15	15	anje	VISUAL DESCRIPTION	LOG.		GRAPHICAL	REPRESENT	ATION OF N-V	alue	
0.50-0.95 P 0 0 1 1 1 Grayish silty CLAY 1 1.00M 1 1 2 Grayish brown silty CLAY With Some 2 2 4 Grayish brown silty CLAY 3.0-3.45 P 1 2 2 4 Grayish silty CLAY 3.0-3.45 P 2 4 Grayish silty CLAY 4.5-4.95 P 3 4 5 9 6.0-6.45 P 3 4 5 9 6.0-6.45 P 4 6 6 112 Grayish Fine To Medium SAND. 8 9.0-9.45 P 6 8 9 17 9 9 9 9 9 9 17 1 1.00-12.45 P 7 7 10 17 1 1.20-12.45 P 6 8 12 20 1 1.20-12.45 P 7 9 14 23 1 1.5.00-15.45 P 7 9 14 23	(M)	SAMPLE	manufact (۸-N	OF SOIL		0	20	40	09	80	100
1.50-1.95 P 0 1 1 2 Grayish brown silty CLAY With Some 1.50-1.95 P 0 1 1 1 2 Grayish brown silty CLAY With Some 2.80M 3.0-3.45 P 1 2 2 4 Grayish silty CLAY 2.80M 3.5-3.45 P 3 4 7 7 Grayish Fine To Medium SAND. 6.80M	0.50-0.95	P	0	0	-	-								
1.50-1.95 P 0 1 1 2 Grayish brown silty CLAY With Some 2 80M 3.0-3.45 P 1 2 2 4 Grayish silty CLAY 2 80M 4.5 4.5 4.5 P 1 2 2 4 Grayish silty CLAY 2 8.0M 4.5 4.5 P 3 3 4 7 7 6.60-6.45 P 3 4 5 9 6.80M 6.5 U 8 6 6 12 Grayish Fine To Medium SAND. 7.5 P 4.5 P 5 8 9 17 P 5 8 15 P 5 7 8 15 P 7 7 10 17 P 12.5 D 8 P 6 8 12 20 P 14 23 P 7 7 9 14 23 P 7 9 14 23 P 15.45M 15.5 D 15.45M 15.5	1	n					1.10M							
2 U Fine Sand. 2.80M 3.0-3.45 P 1 2 2 4 Grayish silty CLAY 3.5 U 2 2 4 Grayish silty CLAY 3.5 U 3 3 4 7 7 6.6-6.45 P 3 4 5 9 6.80M 6.80M 7.5-7.95 P 6 6 12 Grayish Fine To Medium SAND. 9.5 D 7 7 10 17 12.00-12.45 P 6 8 12 20 13.5-13.95 P 6 8 12 20 14 D 7 7 7 10 17 12.5 D 7 14 23 15.5-13.95 P 7 9 14 23 15.5-13.95 P 15.45M 15.5 D 15.45M 15.5 D 15.45M 15.5 D 15.45M 15.5 D 15.45M	1.50-1.95	Ь	0	-	-	2	Grayish brown silty CLAY With Some	0.1	•					
3.0-3.45 P 1 2 2 4 Grayish silty CLAY 3.5 U 2 4 Grayish silty CLAY 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 6.0-6.45 P 3 4 7 7 6.80M 6.80M 6.80M 7.5 7.95 P 4 6 6 12 7.5 7.95 P 4 6 6 12 7.5 7.95 P 5 8 9 17 9.9 9.9 45 P 5 7 8 15 10.5-10.95 P 6 8 12 20 11 12.00-12.45 P 7 7 10 17 12.5 D 7 7 10 17 12.5-13.95 P 6 8 12 20 13.5-13.95 P 6 8 12 20 14 D 7 7 7 10 17 15.50-15.45 P 7 9 14 23	2	n												
3.5 U	3.0-3.45	Ь	1	2	2	4	Grayish silty CLAY	7						
4.5-4.95 P 3 3 4 7 7 5.0-6.45 P 3 4 5 9 6.0-6.45 P 4 6 6 12 Grayish Fine To Medium SAND. 7.5-7.95 P 4 6 6 12 Grayish Fine To Medium SAND. 8 9.0-9.45 P 5 8 9 17 9.5 D 7 7 10 17 12.00-12.45 P 7 7 10 17 12.00-12.45 P 7 7 10 17 12.00-13.45 P 7 7 10 17 13.5-13.95 P 6 8 12 20 13.5-13.95 P 6 8 12 20 13.5-13.95 P 7 9 14 23 13.5-13.95 P 15.45M 15.00-15.45 P 7 9 14 23 15.50-15.45 P 7 9 14 23 15.50-15.45 P 7 9 14 23 15.50-15.45 P 7 9 14 23	3.5	U										4		
5 U 6.80M 6.80M 6.50M 6.	4.5-4.95	Ь	3	3	4	7		6.4						
6.5	5	n							-					
6.5 U 6 6 12 Grayish Fine To Medium SAND. 8 D 6 80M 75.7.95 8 D 7.5.7.95 9.0.9.45 P 6 6 12 Grayish Fine To Medium SAND. 10.5-10.95 P 5 7 8 15 11.05-10.95 P 6 8 12 20 12.00-12.45 P 7 7 10 17 12.5 D 7 7 10 17 13.5-13.95 P 6 8 12 20 14 D 7 9 14 23 15.00-15.45 P 7 9 14 23 15.00-15.45 D D D DISTURBED SAMPLE:: D: DISTURBED SAMPLE::	6.0-6.45	Ь	က	4	2	6			•					
Name	6.5	n									-			
8 D 8 9 17 90-9-45 P 5 8 9 17 10.5-10.95 P 5 7 8 15 11 D 7 7 10 17 12.00-12.45 P 7 7 10 17 12.00-12.45 P 7 7 10 17 13.5-13.95 P 6 8 12 20 14 D 7 7 9 14 23 15.00-15.45 P 7 9 14 23 15.50-15.45 D 9 14 23 15.50-15.45 D D: DISTURBED SAMPLE::	7.5-7.95	Ь	4	9	9			7.5						
9.0-9.45 P 5 8 9 17 9.5 D	8	D												
9.5 D 7 8 15 10.5-10.95 P 5 7 8 15 11 D 7 7 10 17 12.50-12.45 P 7 7 10 17 12.5 D 7 7 10 17 13.5-13.95 P 6 8 12 20 14 D 7 7 9 14 23 15.00-15.45 P 7 9 14 23 15.50-15.45 D D: DISTURBED SAMPLE:: D: DISTURBED SAMPLE:: D: DISTURBED SAMPLE::	9.0-9.45	Ь	5	8	6	17		0		•				
10.5-10.95 P 5 7 8 15 11 D 10.5 10.5 10.5 12.00-12.45 P 7 7 10 17 12.5 D 10 17 12 12 13.5-13.95 P 6 8 12 20 13.5 13.5 13.5 15.00-15.45 P 7 9 14 23 15.45M 15.45M 15.45M 15.45M	9.5	D												
11 D 12.00-12.45 P 7 7 10 17 12.00-12.45 P 7 7 10 17 12.00-12.45 D 6 8 12 20 15.00-15.45 P 7 9 14 23 15.00-15.45 D 15.45M 15.5 D 15.45M DISTURBED SAMPLE::	10.5-10.95	Ь	5	7	œ	15		10.5		-				
12.00-12.45 P 7 7 10 17 12.5 D	11	D												
12.5 D 8 12 20 13.5-13.95 P 6 8 12 20 14 D 14 23 15.45M 15.45M 15.5 D 15.45M 15.45M 15.45M	12.00-12.45	P	7	7	10	17		5		•				
13.5-13.95 P 6 8 12 20 14 D 14 23 15.00-15.45 P 7 9 14 23 15.5 D 15.45M 15.5 D 15.45M 15.5 D 15.45M	12.5	D												
15.00-15.45 P 7 9 14 23 15.45M 15.5 D 15.45M DISTURBED SAMPLE::	13.5-13.95	P	9	8	12	20		13.5		•				
15.00-15.45 P 7 9 14 23 15.45M 15.5 D 15.45M 15.45M 15.45M 15.5 D: DISTURBED SAMPLE::	14	D								_				
15.5 D 15.45M 15.45M D: DISTURBED SAMPLE::	15.00-15.45	P	7	6	14	23								
D: DISTURBED SAMPLE:: D: DISTURBED SAMPLE::	15.5	D								THE CHAIN	Trad day	MOITAGE	T. D. C. L.	
	1	DISTURE	RED S	AMP	LE		-41	'LE::		F: SIAN	JAKU PEN	FIRALION	LEST	
	١	-			-									

BELEKA ASSAM	BORE	BORE LOG CHART	IRT					
DATE OF STARTING: 20-05-2022		GROUND WATER LEVEL	TER LEV	EL	22014	ONIACA HOAM & ABOILA	CNIG	
BORE HOLE NO: 16 DATE OF COMPLETION: 20-05-2022	05-2022	0.10M FROM EGL	OM EGL		AUGE	K & WASH BU	KING	
SPT	NOI			GRAPHICA	GRAPHICAL REPRESENTATION OF N-Value	TATION OF N.	Value	
(M) SAMPLE CM CM CM Z		. TOG	0	20	40	09	80	100
95 P 1 1			0			-		
1 U '								
1.50-1.95 P 2 2 3 5	****		O.					
2 U	3.00M							i Li
3.0-3.45 P 3 4 7 7 Grayish silty CLAY With Some Fine	With Some Fine		2					
3.5 U SAND.			4					
4.5-4.95 P 3 5 8 13	4.20M	1	U					
5 U Grayish Brown silty CL	CLAY		(
6.0-6.45 P 4 4 8 12	****		0					T
6.5 U	****							
7.5-7.95 P 3 4 6 10			C.)					
n 8								T
9.0-9.45 P 3 5 6 11			o o	•				
D 2.9			_					
10.5-10.95 P 5 7 7 14	****	10	10.5	•				
11 U								T
12.00-12.45 P 5 6 8 14			12	•				
12.5 U								
13.5-13.95 P 3 4 4 8		22	3.5					
14 U	14.20M		_					
15.00-15.45 P 4 6 8 14 Grayish silty CLAY W	ith Son		13	•				
15.5. U SAND.	M05.51				The state of the s	ACTOR A CHARLE	The Country of the Co	
QUINDISTURBED SAMPLE:: D: DISTUR	URBED SAMPLE::	Æ::		P: SIA	P. STANDARD PENETRALION	EIKALION	LESI::	
THE RESERVE OF THE PARTY OF THE	-				D.DFFTSAL.N>100:	:.V2100:		

Location:-BH1

CALCULATION OF NET SAFE BEARING CAPACITY (SHEAR CRITERIA)

Depth of foundn , Df =

3 m

Width(B)M=

Length L =

Soil parameter

Cohesion, C= 0.31 kg/scm=

3.1 t/sqm

Saturated density, y (Metric ton/m3) =

.80

Angle of internal

friction, \emptyset (deg)=

8, shear condition

Local

Angle of shearing resistance for local failure = $\emptyset_m = \tan^{-1} 2/3 \tan \emptyset$

		Bearing	capacity	factor
Ø	8	Nc	Nq	Ny
Øm	5	6.49	1.57	0.45

Shape, Depth and inlination factor

Shape	factor	Depth	factor	Inclina	tion factor	acatamine acatami	able corection factor
Sc=	1.3	dc=	1.33	ic=	1		
Sq=	1.2	dq=	1	iq=	1	w' =	0.5
Sy =	0.8	dy =	1	iγ =	1		

Ultimate bearing capacity (qd) (Local shear Condition)

 $q_d = \{2/3 \text{ c Nc sc dc ic } + \{y \text{ D } (Nq - 1)\text{sq dq iq } \} + \{0.5 \text{ y B Ny sy dy iy W'}\}$

q d = 23.26 .+ 3.6936 .+ 0.324 .= 27.27 Metric tonne/sqm

Net Safe bearing capacity, Qns .= Qd /F = 27.27 Metric tonne/sqm

F= factor of safety =2.5

q ns =	10.91 Metric tonne/sqm
q ns =	106.9 KN/sqm



Location:-BH2

CALCULATION OF NET SAFE BEARING CAPACITY (SHEAR CRITERIA)

Depth of foundn , Df =

3 m

Width(B)M=

Length L = 2

Soil parameter

Cohesion, C= 0.35 kg/scm=

35 kg/scm= 3.5 t/sqm

Saturated density, y (Metric ton/m3) =

.80

Angle of internal

friction,O(deg)=

8, shear condition

Local

Angle of shearing resistance for local failure = $\emptyset_m = \tan^{-1} 2/3 \tan \emptyset$

		Bearing	capacity	factor
Ø	8	Nc	Nq	Νγ
Øm	5	6.49	1.57	0.45

Shape, Depth and inlination factor

Shape	factor	Depth	factor	Inclinat	ion factor		table corection factor
Sc=	1.3	dc=	1.33	ic=	1		
Sq=	1.2	dq=	1	iq=	1	w' =	0.5
Sy =	0.8	dy =	1	iy =	1		

Ultimate bearing capacity (qd) (Local shear Condition)

 $q_d = \{2/3 \text{ c Nc sc dc ic } + \{y \text{ D } (Nq - 1)\text{sq dq iq } \} + \{0.5 \text{ y B Ny sy dy iy W'} \}$

Net Safe bearing capacity, Qns .= Qd /F = 30.27 Metric tonne/sqm

F= factor of safety = 2.5

q ns =	12.11 Metric tonne/sqm	
q ns =	118.7 KN/sqm	



Location:-BH 3

CALCULATION OF NET SAFE BEARING CAPACITY

(SHEAR CRITERIA)

Depth of foundn , Df =

3 m

Width(B)M= Length L =

Soil parameter

Cohesion, C= 0.28 kg/scm=

2.8 t/sqm

Saturated density, y (Metric ton/m3) = 1.80

Angle of internal

friction,O(deg)=

7, shear condition

Angle of shearing resistance for local failure = $\emptyset_m = \tan^{-1} 2/3 \tan \emptyset$

		Bearing	capacity	factor
Ø	7	Nc	Nq	Ny
Øm	4	6.22	1.45	0.36

Shape, Depth and inlination factor

Shape	factor	Depth	factor	Inclinat	ion factor	EAST 10 A A A A A	able corection factor
Sc=	1.3	dc=	1.32	ic=	1		
Sq=	1.2	dq=	1	iq=	1	w' =	0.5
Sy =	0.8	dy =	1	iγ=	1		

Ultimate bearing capacity (qd) (Local shear Condition)

 $q_d = \{2/3 \text{ c Nc sc dc ic } + \{y \text{ D } (Nq - 1) \text{sq dq iq } \} + \{0.5 \text{ y B Ny sy dy iy W'} \}$

Qd/F = Net Safe bearing capacity , Qns 23.22 Metric tonne/sqm

F= factor of safety =2.5

q ns =	9.29 Metric tonne/sqm	
q ns =	91.02 KN/sqm	



C 4.2

Location: BH4

CALCULATION OF NET SAFE BEARING CAPACITY (SHEAR CRITERIA)

Depth of foundn, Df =

2 m

Width(B)M=

Length L =

Soil parameter

Cohesion, C= 0.31 kg/scm=

3.1 t/sqm

Saturated density, y (Metric ton/m3) = 1.80

Angle of internal

friction, $\emptyset(deg)$ =

7, shear condition

Angle of shearing resistance for local failure = $\emptyset_m = \tan^{-1} 2/3 \tan \emptyset$

		Bearing	capacity	factor
Ø	7	Nc	Nq	Ny
Øm	4	6.22	1.45	0.36

Shape, Depth and inlination factor

Shape	factor	Depth	factor	Inclinat	ion factor		able corection factor
Sc=	1.3	dc=	1.21	ic=	1		
Sq=	1.2	dq=	1	iq=	1	w' =	0.5
Sy =	0.8	dγ =	1	iγ =	1		

Ultimate bearing capacity (qd) (Local shear Condition)

 q_d = {2/3 c Nc sc dc ic } + {y D (Nq - 1)sq dq iq } + {0.5 y B Ny sy dy iy W'}

Qd /F = 22.60 Metric tonne/sqm Net Safe bearing capacity, Qns

F= factor of safety = 2.5

q ns =	9.04 Metric tonne/sqm
q ns =	88.58 KN/sqm



Location:BH5

CALCULATION OF NET SAFE BEARING CAPACITY (SHEAR CRITERIA)

Depth of foundn, Df =

3 m

Width(B)M= 2 Length L = 2

Soil parameter

Cohesion, C= 0.33 kg/scm=

3.3 t/sqm

Saturated density, y (Metric ton/m3) =

1.80

Angle of internal

friction, Ø(deg)=

8, shear condition

Local

Angle of shearing resistance for local failure = $\emptyset_m = \tan^{-1} 2/3 \tan \emptyset$

		Bearing	capacity	factor
Ø	8	Nc	Nq	Nγ
Øm	5	6.49	1.57	0.45

Shape, Depth and inlination factor

Shape	factor	Depth	factor	Inclinati	ion factor		able corection factor
Sc=	1.3	dc=	1.33	ic=	1		
Sq=	1.2	dq=	1	iq=	1	w' =	0.5
Sv =	0.8	dv =	1	iy =	1		

Ultimate bearing capacity (qd) (Local shear Condition)

 $q_d = \{2/3 \text{ c Nc sc dc ic } + \{y \text{ D } (Nq - 1)\text{sq dq iq } \} + \{0.5 \text{ y B Ny sy dy iy W'}\}$

Q d = 24.76 .+ 3.6936 .+ 0.324 = 28.77 Metric tonne/sqm

Net Safe bearing capacity , **q**ns .=

Qd /F = 28.77 Metric tonne/sqm

F= factor of safety =2.5

q ns =	11.51 Metric tonne/sqm
q ns =	112.8 KN/sqm



Location:BH6

CALCULATION OF NET SAFE BEARING CAPACITY (SHEAR CRITERIA)

Depth of foundn , Df =

3.0 m

Width(B)M= 2 Length L =

Soil parameter

Cohesion, C= 0.33 kg/scm=

3.3 t/sqm

Saturated density, y (Metric ton/m3) =

.80

Angle of internal

friction, \emptyset (deg)= 7, shear condition

Local

Angle of shearing resistance for local failure = $\emptyset_m = \tan^{-1} 2/3 \tan \emptyset$

		Bearing	capacity	factor
Ø	7	Nc	Nq	Ny
Øm	4	6.22	1.45	0.36

Shape, Depth and inlination factor

Shape	factor	Depth	factor	Inclinat	ion factor	The state of the s	able corection factor
Sc=	1.3	dc=	1.32	ic=	1		
Sq=	1.2	dq=	1	iq=	1	w' =	0.5
Sy =	0.8	dγ =	1	iγ =	1		

Ultimate bearing capacity (qd) (Local shear Condition)

 $q_d = \{2/3 \text{ c Nc sc dc ic } + \{y \text{ D } (Nq - 1)\text{sq dq iq } \} + \{0.5 \text{ y B Ny sy dy iy W'}\}$

q d = {0.67x 3.3 x 6.22 x 1.3 x 1.32 x 1 }

.+{ 1.8 x 3 x (1.45.-1) x 1.2 x 1 x 1 }

.+{ 0.5 x 1.8 x 2 x 0.36 x 0.8 x 1 x 1 x 1 }

q d = 23.62 .+ 2.916 .+ 0.2592 .= 26.8 Metric tonne/sqm

Net Safe bearing capacity, **q**ns .= **q**d /F = 26.80 Metric tonne/sqm

F= factor of safety = 2.5

q ns =	10.72 Metric tonne/sqm
q ns =	105.1 KN/sqm

