REPORT ON

GEOTECHNICAL INVESTIGATIONS

FOR THE PROPOSED

High School At Rakasiya Dyalchak, Block- Ratni Faridpur Dist. Jehanabad

Your Letter No.- BSEIDC/TECH/1960/2018-1369 Dated - 02.03.2021 [Sl. No. 1]

Submitted to The Chief Engineer **BSEIDC**, Patna

July, 2021



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INTRODUCTION

The subsoil investigations reported herein were taken up (vide W.O. No. BSEIDC/Tech/1960/2018-1369 Dated - 02.03.2021

[Serial No. 1]

to find out the nature of subsoil at the site of the proposed construction and to recommend the capacity and type of its foundation. After certain tests on the soil, as detailed below, the desired recommendations have been made on **page 3-4** of this Report.

2. FIELD WORK

The fieldwork consisted of sinking bore holes, collecting soil samples and conducting the necessary field tests.

2.1. Boring

Taking guidance from IS: 1892, 150 mm diameter bore holes were sunk at locations shown in the bore hole location map.

2.2 Sampling

2.2.1 Undisturbed Soil Samples

Open drive samplers of 100-mm diameter and about 450-mm length were used for obtaining undisturbed samples of cohesive soils. The collection, sealing, labeling and transportation of the samples to the laboratory were done as per the IS guide-lines.

2.2.2 Disturbed Soil Samples

Disturbed soil samples were collected at suitable intervals of depth (not more than 2.5 m) and at all depths of change in the nature of the subsoil. These samples were sealed in polythene bags with proper identification labels.

2.3 Field Tests

2.3.1 Standard Penetration Tests (SPT)

These tests were conducted as per IS: 2131 - 1963. The depth interval between two consecutive tests was 1 to 1.5 m. The tests were located in between the levels at which undisturbed soil samples were collected.

3. LABORATORY TESTS

Some or all of the following laboratory tests, as necessary, were done on the collected soil samples. Representative soil samples were selected for this from the different soil strata encountered during boring. The tests were performed as per the relevant Indian Standard Codes of Practice.

- (a) Natural moisture content
- (b) Bulk density
- (c) Grain size analysis (using sieves and / or hydrometer)
- (d) Specific gravity of soil solids
- (e) Atterberg's limit tests (liquid, plastic and shrinkage limits)
- (f) Shear Tests :
 - [I] Triaxial compression test (unconsolidated undrained), generally for fine- grained soils
 - [II] Unconfined compression tests, only on cohesive soils
 - [III] Direct shear tests, generally for coarse-grained soils
- (h) Other tests as and when required.

4. PRESENTATION OF TEST RESULTS

The field and laboratory test results are given in the Appendix B.

5. SOIL STRATIFICATION

The results of field tests in three bore holes sunk at the site [vide Location Sketch in App. A] and the results of laboratory tests conducted on the collected soil samples indicate that the soil stratification at the site is as describe below.

The subsoil in all 3 BH's is silty sand [type SM-SP] up to the depth of about 3.0 m followed by <u>silty clay / sandy silty clay [type CI]</u> up to the investigated depth of 10.5 m bgl.

Ground water table was struck at about 5.10 m to 5.90 m depth below GL in July, 2021 It is subject to seasonal variations.

6. FOUNDATION ANALYSIS

The safe capacity of foundation of any type and size may be determined on the basis of the soil data given in this Report by using the standard methods of foundation design and following the relevant Indian Standard Codes.

7. RECOMMENDATIONS

The design of the foundation for the proposed structure depends on the nature of both [a] the subsoil and [b] the structure.

The subsoil in all 3 BH's is silty sand [type SM-SP] up to the depth of about 3.0 m followed by <u>silty clay / sandy silty clay [type CI]</u> up to the investigated depth of 10.5 m bgl.

Ground water table was struck at about 5.10 m to 5.90 m depth below GL in July, 2021 It is subject to seasonal variations.

Hence,

- 1. The subsoil up to about 2 m in BH 2 and 3 is soft. Hence the proposed structure may be provided with shallow foundation at a depth of 2.0 m or more.
- 2. Alternatively, plane piles of lengths 4.0 m to 10.0 m with shaft diameters 0.25 m, 0.30 m, 0.40 m and 0.50 m may be provided. A casing will have to be used during boring for the pile.

By way of example, the values of safe capacities of

[1] Shallow foundations and [2] Plane piles of the above mentioned sizes and depths have been calculated (vide Samples of Calculations in Appendix F) and the safe capacities are given below in Tables 1 and 2 respectively.

Depth (m)	Width	Net allowa	ble bearing pressu	ure (t/m ²)	Maximum expected
below Ground Level	(m)	Strip footing	Square footing	Raft footing	settlement (mm)
	2	5.8	5.8		50
2.0	3	4.4	4.4		50
	10			6.7	75
	2	6.9	6.9		50
2.5	3	5.8	5.8		50
	10			7.0	75
	2	8.1	8.1		50
3.0	3	7.4	7.4		50
	10			7.2	75
	2	8.1	8.1		50
3.5	3	7.4	7.4		50
	10			7.5	75
	2	9.3	9.3		50
4.0	3	8.5	8.5		50
	10			7.8	75

Table 1: Allowable Net Bearing Pressures [qna] and Settlements Expected [s]

Pile length [m]	(SUBJEC	Safe Capacities [tonnes] (SUBJECT TO CHECKING FOR SLENDERNESS RATIO*) for Piles of diameters (m):										
1011gti [11]	0.25 m	0.30 m	0.40 m	0.50 m								
4.0	2.1	2.7	4.1	5.7								
6.0	5.2	6.5	9.4	12.5								
8.0	8.4	10.5	14.9	19.9								
10.0	11.5	14.4	20.4	27.0								

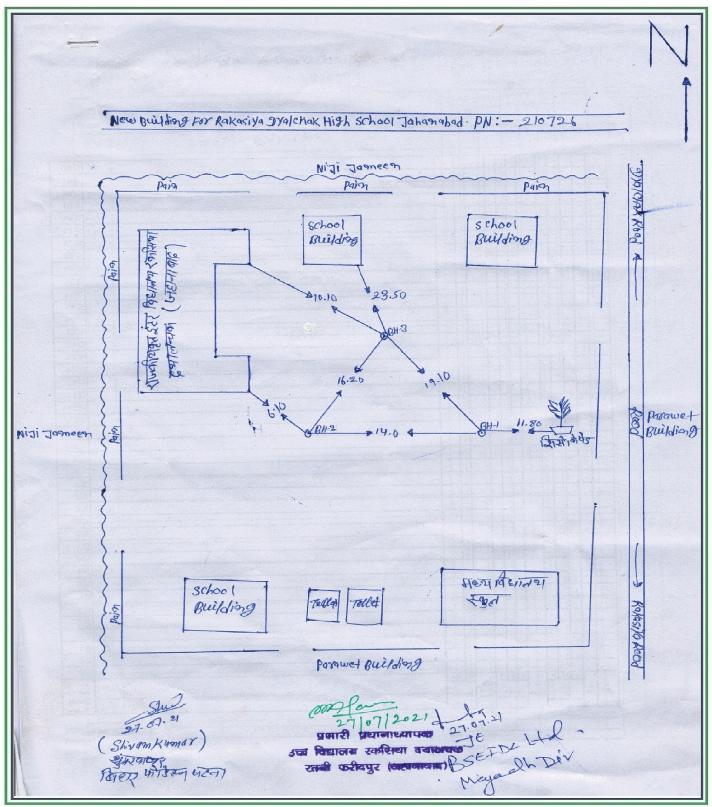
Table 2.Safe Capacities of Plane Piles[Factor of safety = 2.5 in skin friction and 3 in bearing]

*For a preliminary checking of the slenderness ratio, the modulus of subgrade reaction (k) may be estimated from the following empirical relation given in IS: 2950-1981 (Second Revision) Table 1. k (kN/m^3) = 240 c, where c (kN/m^2) is the value of cohesion of the soil at the concerned depth.<u>Notes</u>:

- 1. If a subsoil condition much different from those reported herein is met with during foundation trenching or piling, suitable steps should be taken.
- 2. If the depth of a shallow foundation is below the water table, dewatering of the foundation trench has to be done, and its side walls of may have to be suitably supported at the time of the construction of the foundation.
- 3. In case a basement is being provided, its base and side walls have to be safeguarded against the likely ingress of ground-water.
- 4. If concreting for a pile has to be done under water, DMC and tremie method of concreting should be adopted.
- 5. As per the provisions of the IS Code, an appropriate number of piles must be subjected to routine load tests to check the veracity of the above recommended values of the safe capacities of piles.

For Bihar Foundation Consultants

(Prof. C.N. Sinha, Dr.-Ing., FIE) Chief Consultant.



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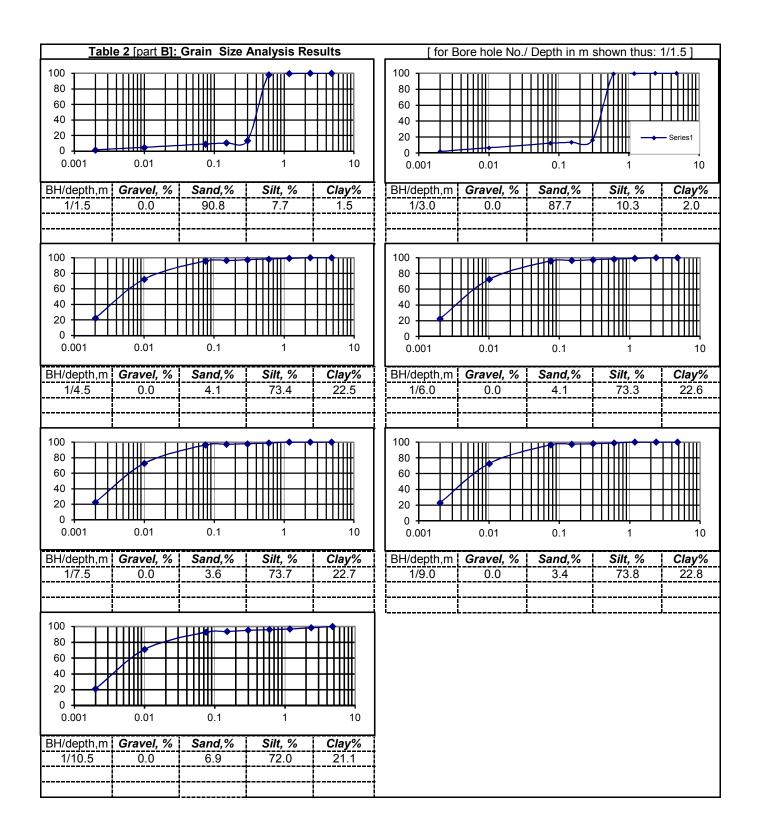
Appendix - A

NAME O	F WORK	: Sub soil In	vestigation for C/O				BORING	FINISH D	ATE : 26.	07.2021		WATER	TABLE	: 5.10 m b	gl	
High Sc	chool at	Rakasiya Dy	alchak, Block- Ratni Faridpur, Dist. Jehar	nabad			BORING	METHOD	: Rotary							
BORE H	OLE NO.	: 1	Site Incharge - Shivam Kumar				TERMINA	ATION DE	PTH : 10.	5 m		RECORD	ON	: 26.07.	2021	
, GL (m)		SPT 'N' Value observation	Visual Description of Soil with IS Classification	Dept	th(m)	(u			dix,%	Bulk Density (gm/cm3)	Natural Moisture Content (%)	vity		Shear Te		Compression Index ($C_{\rm c}$)
Depth Below GL (m)	Sample No.					Thickness (m)	Liquid Limit	Plastic Limit	Plasticity Indix,%	ulk Density	atural Mois)	Specific Gravity	Type of Test	Cohesion, c kg/cm2)	Friction Angle, ϕ°	ompression
ĕ	Se	Obsr.		from	to	Ę	Lie	ЫЧ	Β	BL	Na (%	, М	Ţ	ы Ко С	Εri Φ	ŏ
1.0				0.0												
1.5	S1	5	Greyish silty sand, SM-SP			3.0				1.91	30.1	2.64		0.00	28.0	
2.5						010										
3.0	S2	8			3.0					1.91	30.4	2.64		0.00	28.0	
4.0				3.0												
4.5	S3	11					41.1	21.9	19.2	2.01	25.5	2.71		0.50	5.0	0.139
5.5																
6.0	S4	13								2.01	25.5	2.71		0.58	5.1	
7.0			Greyish silty clay, Cl			7.5										
7.5	S5	17	Creyish siny only, of			7.0	48.3	24.1	24.2	2.02	24.8	2.71		0.66	5.1	
8.5																
9.0	S6	21								2.03	24.4	2.71		0.74	5.2	
10.0																
10.5	S7	27			10.5					2.04	23.5	2.70		0.87	5.3	

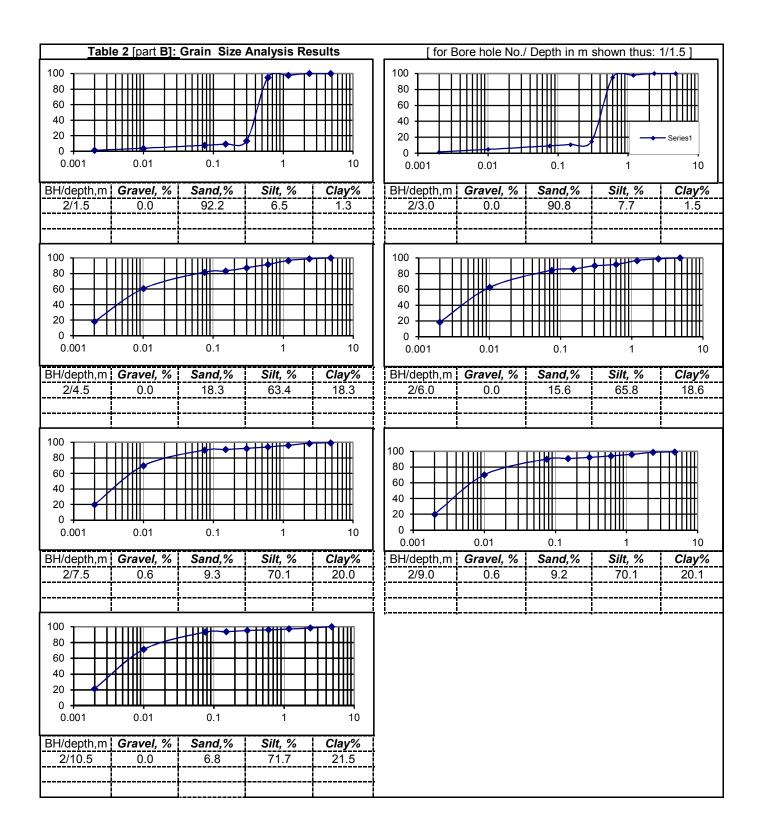
NAME O	F WORK	: Sub soil In	vestigation for C/O				BORING	FINISH D	ATE : 27.	07.2021		WATER ⁻	TABLE	: 5.60 m b	gl	
High Sc	hool at	Rakasiya Dy	alchak, Block- Ratni Faridpur, Dist. Jehar	nabad			BORING	METHOD	: Rotary							
BORE H	OLE NO. :	2	Site Incharge - Shivam Kumar				TERMINA	ATION DE	PTH : 10.	5 m		RECORD	ON ON	: 27.07.	2021	
ЭL (m)		SPT 'N' Value		Dept	h(m)				۲,%	gm/cm3)	Natural Moisture Content (%)	Ā		Shear Te	-	ndex (C _c)
Depth Below GL (m)	Sample No.	observation	Visual Description of Soil with IS Classification			Thickness (m)	Liquid Limit	Plastic Limit	Plasticity Indix,%	Bulk Density (gm/cm3)	ural Moistu	Specific Gravity	Type of Test	Cohesion, c kg/cm2)	Friction Angle, ϕ°	Compression Index (C _c)
Dep	San	Obsr.		from	to	Thic	Liqu	Plas	Plas	Bull	Nati (%)	Spe	Тур	Coh kg/a	Fric ϕ°	Cor
1.0				0.0												
1.5	S1	4	Greyish silty sand, SM-SP			3.0				1.90	30.0	2.64		0.00	27.6	
2.5						0.0										
3.0	S2	8			3.0					1.91	30.4	2.64		0.00	28.0	
4.0				3.0												
4.5	S3	11								2.01	25.5	2.71		0.50	5.0	0.139
5.5																
6.0	S4	14	Greyish sandy silty clay, Cl			6.0	49.6	24.3	25.3	2.01	25.5	2.71		0.60	5.1	
7.0			Greyish sandy sity day, or			0.0										
7.5	S5	19								2.02	24.8	2.71		0.70	5.2	
8.5																
9.0	S6	22			9.0		49.9	23.7	26.2	2.03	24.4	2.71		0.76	5.2	
10.0			Greyish silty clay, Cl	9.0		1.5										
10.5	S7	26	Greyish silly day, di		10.5	1.5	38.5	19.0	19.5	2.04	23.6	2.70		0.85	5.3	

NAME O	F WORK	: Sub soil In	vestigation for C/O		1		BORING	FINISH D	ATE : 27.	07.2021		WATER	TABLE	: 5.90 m b	gl	
High Sc	hool at	Rakasiya Dy	alchak, Block- Ratni Faridpur, Dist. Jehar	nabad			BORING	METHOD	: Rotary							
BORE H	OLE NO.	: 3	Site Incharge - Shivam Kumar				TERMINA	ATION DE	PTH : 10.	5 m		RECORD	ON	: 27.07.	2021	
v GL (m)		SPT 'N' Value observation	Visual Description of Soil with IS Classification	Dept	th(m)	(L			ıdix,%	Bulk Density (gm/cm3)	Natural Moisture Content (%)	avity		Shear Te		Compression Index ($C_{\rm c}$)
Depth Below GL (m)	Sample No.					Thickness (m)	Liquid Limit	Plastic Limit	Plasticity Indix,%	ulk Density	atural Mois	Specific Gravity	Type of Test	Cohesion, c kg/cm2)	Friction Angle, ϕ°	ompressio
ð	Se	Obsr.		from	to	É	Lic	Pla	Ы	BL	s گ	ц З	Ţ	ы Ка С	Εri φ	ŭ
1.0				0.0												
1.5	S1	3	Greyish silty sand, SM-SP			3.0				1.91	30.0	2.64		0.00	24.8	
2.5						0.0										
3.0	S2	6			3.0					1.91	30.2	2.64		0.00	28.0	
4.0				3.0												
4.5	S3	8					49.2	21.5	27.7	2.01	27.5	2.71		0.39	4.5	0.140
5.5																
6.0	S4	11								2.01	25.5	2.71		0.50	5.0	
7.0			Greyish silty clay, Cl			7.5										
7.5	S5	13	Creyish siny only, of			7.0	47.8	21.8	26.0	2.01	25.5	2.71		0.58	5.1	
8.5																
9.0	S6	17								2.02	24.8	2.71		0.66	5.1	
10.0																
10.5	S7	25			10.5					2.03	24.6	2.69		0.83	5.3	

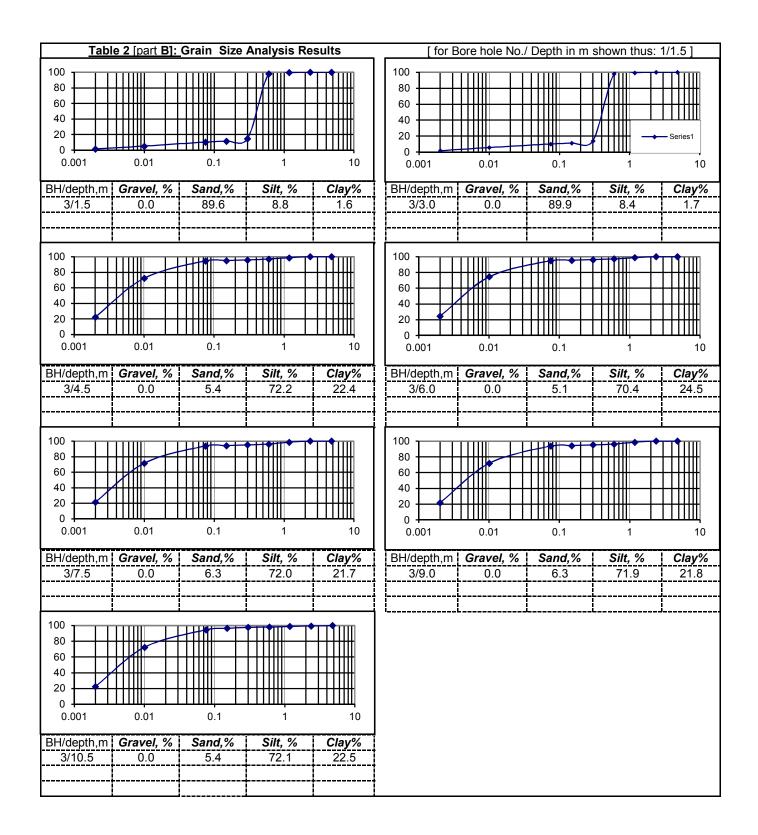
Report on sub-soil investigation for the proposed High School at Rakasiya Dyalchak, Block- Ratni Faridpur, Dist. Jehanabad



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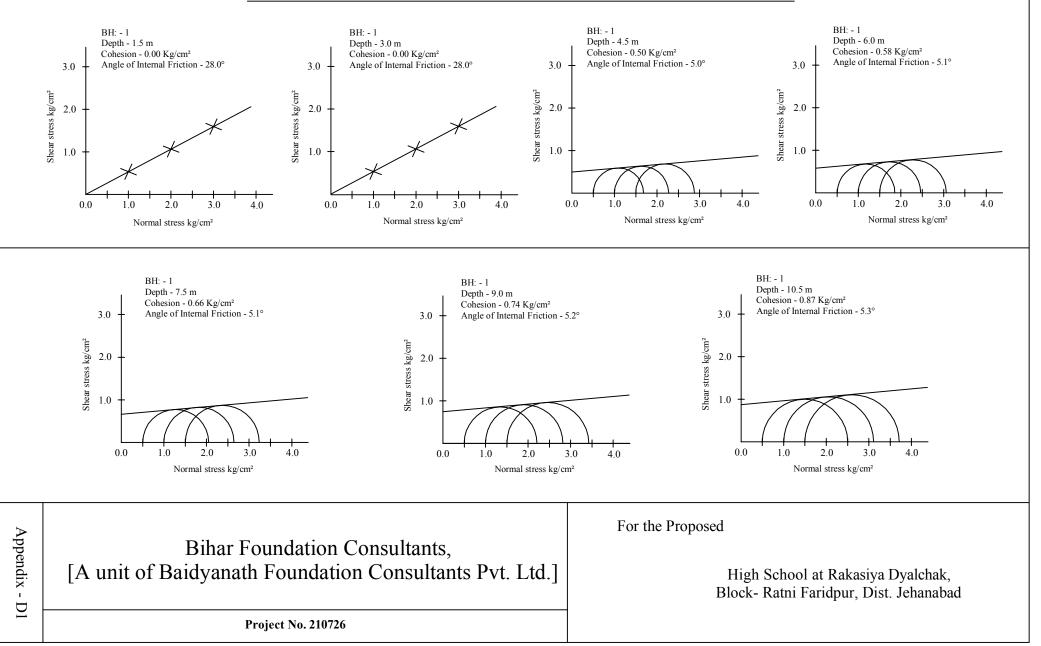


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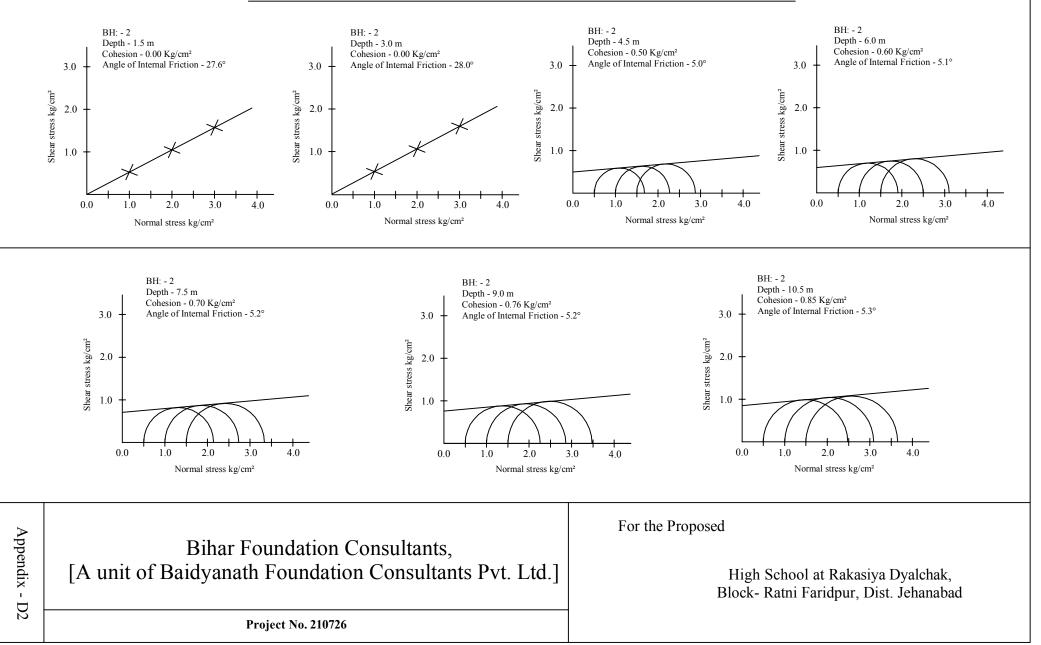


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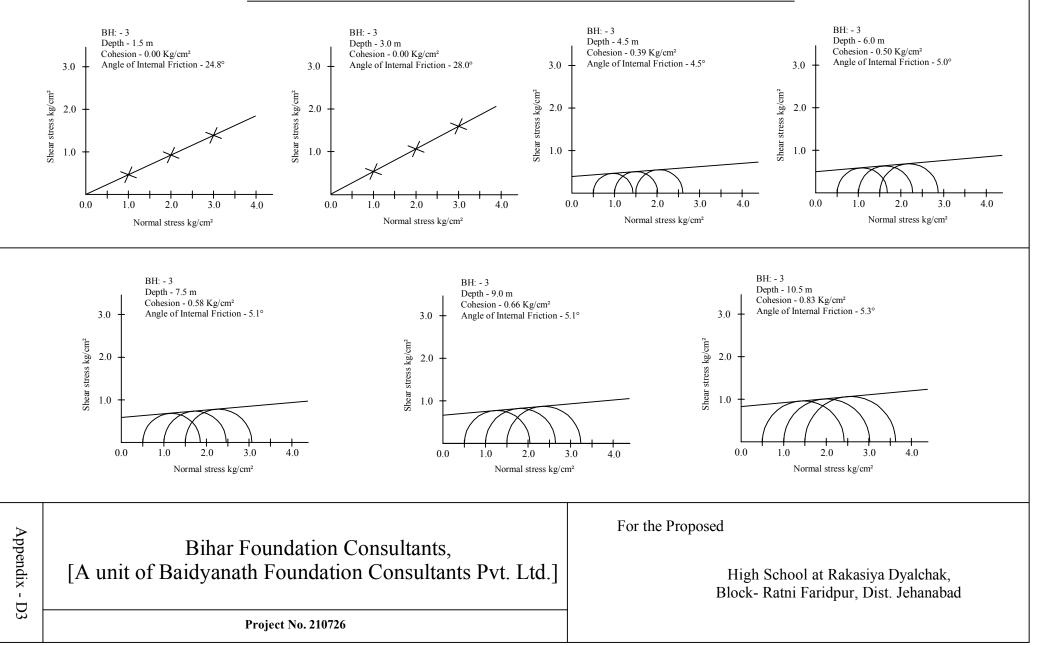
TRIAXIAL / DIRECT SHEAR TEST PLOTS

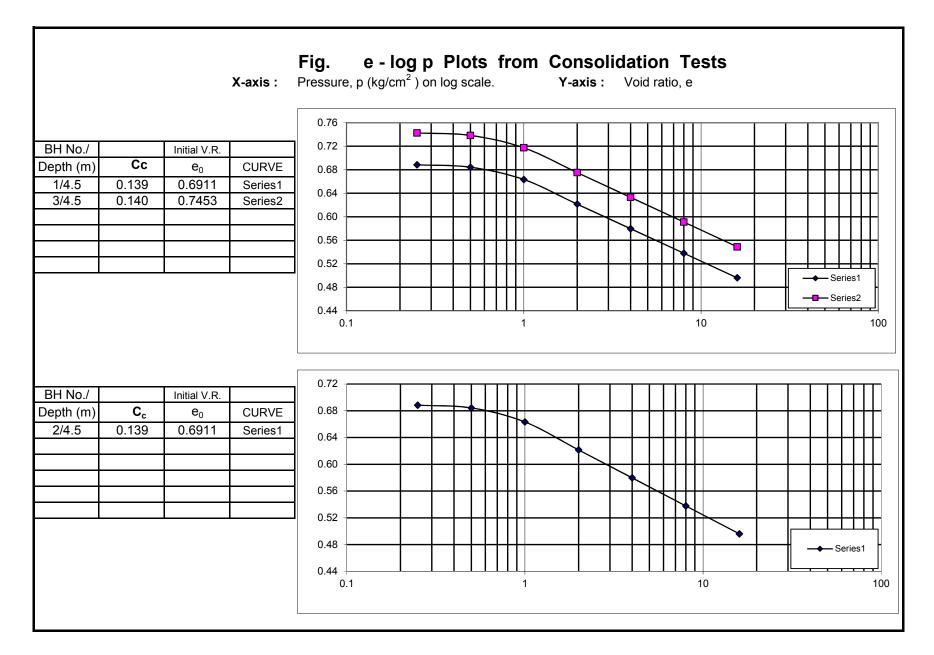


TRIAXIAL / DIRECT SHEAR TEST PLOTS



TRIAXIAL / DIRECT SHEAR TEST PLOTS





Report on Sub Soil Investigation for the proposed Construction of

High School at Rakasiya Dyalchak, Block- Ratni Faridpur, Dist. Jehanabad

SAMPLE CALCULATION OF BEARING CAPACITY OF SHALLOW FOUNDATION

The determination of the **net safe bearing capacity**, q_{ns} , is done first on the basis of the shear failure criterion after dividing the value of the **net ultimate bearing capacity** q_{nf} , calculated as described below, by a suitable factor of safety. The **net soil pressure**, q_s , for a given permissible settlement is then calculated as explained in the next section. The lower of the two values, q_{ns} and q_s , thus determined is taken as the **allowable bearing capacity** of the soil.

1. <u>Shear Failure Criterion</u>. The net ultimate bearing capacity q_{nf} (t/m²) of a shallow foundation of breadth B (m) and depth D (m) is given as per IS:6403-1981 (Sec.5.1.2) by the following equation :

 $q_{nf} = c N_c s_c d_c I_c + q (N_q - 1) s_q d_q I_q + 0.5 \gamma B N_\gamma s_\gamma d_\gamma I_\gamma w$

where $c = cohesion (t/m^2)$

 $q = effective surcharge (t/m^2)$

 γ = unit weight of subsoil (t/m³)

 N_c , N_γ , N_q = bearing capacity factors, which are functions of ϕ , the angle of internal friction of the soil

 $s_c\;, s_q\;, s_\gamma \quad = \; shape \; factors \;$

 d_c , d_q , d_γ = depth factors I_c , I_q , I_γ = inclination factors \int related to cohesion, surcharge and density of subsoil respectively

w = water table factor (= 0.5 to 1.0) depending on the depth, D_w of water table- vide Table below.

The bearing capacity factors (N's) are functions of ϕ , the angle of internal friction of the soil. Their values are found for general shear failure by referring to standard tables. If subsoil conditions are such as to lead to local shear failure, the values of these factors are found for a reduced value of angle of internal friction (ϕ ') given by the equation : tan ϕ ' = 0.67 tan ϕ . The value of cohesion is also reduced to c' = 0.67 c.

The values of the other factors for usual conditions are as tabulated below :

s _c =	1.3 1+0.2B/L	1	$d_c = 1+0.2 (N\varphi)^{0.5} D/B$		D _w at	G.L.	Fou'dn.Level
s _q =	1.2 1+0.2B/L	1	$d_q = d_{\gamma} = 1$ for $\varphi < 1$	00	w =	0.5	1
\mathbf{s}_{γ} =	0.8//0.6 1-0.4B/L	1	$d_q = d_{\gamma} = 1 + 0.1 (N \varphi)^{0.5} D/B$ $\varphi > 1$	00	In	terpolation	between
FOR	sq.// O Rect. S	STRIP	I_c , I_q , $I_\gamma = 1$ for vertical load		th	ese values	is linear.

In the present case, the representative values of cohesion \mathbb{O} and angle of internal friction (ϕ)of the soil may be obtained from the soil data given earlier.

One example of calculation for a certain depth and width of a strip or square footing is given in the **Table A** on the next page. Full submergence of the soil has been assumed. The **safe bearing capacity**, q_{ns} has been obtained by dividing q_{nf} by a **safety factor**, **3**. The net safe bearing capacity for a footing of the selected size and depth of footing is to be seen in its last column. Calculations of safe bearing capacities for other depths and widths of footings are done similarly.

2 Calculation of allowable bearing capacity based on settlement criterion

The **net soil pressure**, q_s (t/m²) for a permissible settlement of 25 mm is give by Teng's formula:

$$\mathbf{q}_{s} = 3.5 [N'' - 3] \begin{bmatrix} (B + 0.3)/2 B \end{bmatrix}^{2} w' F_{d} t/m^{2}$$

where

N'' = corrected value of N from SPT

 $F_d = [1 + D/B] < or = 2$

D, B and w' are as defined before.

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Report on Sub Soil Investigation for the proposed Construction of

High School at Rakasiya Dyalchak, Block- Ratni Faridpur, Dist. Jehanabad For a permissible settlement of **S** mm, the allowable bearing capacity

 $\mathbf{q's} = \mathbf{S} \, \mathbf{q}_{\mathbf{s}} / 25$

The corrected SPT N" values used in the calculations based on the above formula for different depths below G.L. may be found from the recorded data.

The N" value used in any case is to be for the influence zone below the footing, which depends on its width. A sample of calculation of the allowable soil pressure for the chosen size and depth of footing and for the permissible settlement is given in **Table B** in the next section.

The net allowable bearing pressure will be the lower of the values of bearing pressures found in the two Tables A and B.

Table A

Shape	e of		F.S.=	γ, t	t/m³=	с =	φ =	Nc =	Nq =	$N_{\gamma} =$
Found	lation:	STRIP	3		1.91	0	27.6	25.04	14.09	15.78
			dq =				I			
D [m]	B [m]	dc	dg	С	q	Term	Term	Term	qnf	qnf /F
2	2	1.33	1.165	0	1.91	0.00	29.13	17.54	46.67	15.56

Calculation of Net Safe Bearing Pressure [based on shear failure criterion]

Table B

Calculation of Net Allowable Bearing Pressure [based on settlement criterion]

				<u> </u>		-	~		The adjoining Table a	and the	
D	В	Fd =	N"	w'	q s =25	S	q s = S		comments		
m	m				t/m ²	mm	t/m ²		below it are for a foo	ting of de	epth, D
2	2.0	2	5.5	0.5	2.893	50	5.7859		= 2 m, and width	ո, B [m]	= 2.0
The va	alue of a	llowable	bearing	pressu	ire from	the abo	ve Table	for s =	50 mm is =	5.8	t/m ²
The v	alue of	safe be	aring c	apacity	/ from s	hear cr	iterion a	s found	I from Table A =	15.6	t/m ²
Hence	the allow	vable bea	aring pre	ssure fo	or settlen	nent, s=	or <	50	mm will be =	5.8	t/m ²

The calculations for other depths and widths of footing are similar.

					aib Ca							or the prop		h . d			
I					-							aridpur, D ses 6.3.1.1					
							`	, ,			•	, in t/m ² and			iction (ϕ°).	
WHEN	Pile diameter, D	(m)=		0	.25	Area of	pile ba	ise, Ap	(m ⁻) =	0.049		& circ'mf'r'	nce (in m)	of pile b	ase, j =	3.14 x D =	0.785
		. ,		8			Surface	area of pile	e's contac	t with soil	l, A (m²) =	jxt	where t = thi	ickness of	soil layer in	contact with pile	<u>}.</u>
In CLAY:	Skin friction in c	clay, Qs				End bear	ing, Q _b =	$A_p c_p N_c$	С,		In SAND :	Skin frictio	n, Qs = KP _{mid}	A tan δ, wh	ere	K =	1.5
			= C	,			where I	۰ <mark>c</mark> =9					End bearin				
	tion factor, α βeper										where P :	= overburden		• •	•		
of Annex.	B of the above	e IS Co	ode:291	1			Lot for	ctor of sa	afoty in			and the valu *Max'm perm				om the IS Code X pile diamete	
Total IIIti	mate capacity	ofnil	- Ou	= 00	+ Oh							=			5	-	t/m ² .
	acity of pile, (-						on, f _s = ng, f _b =				-	3.375	to to	4.5	Xγ _{sub} vm.	
			(<u> </u>	~~~			Juli	 0	0.0				0.010	10	т.5		
Depth of	Soil type						p =	P _{tip}	Permi	issible	A =	Qs' (for	Qs =	Qb	Qu	Qsf	Pile
soil layer		γsub	С	α	φ	t	γχτ	=∑p	P _{tip}	P _{mid}	jxt	1 layer)	Σ Qs']		[runded off]	Length
(m)		t/m ³	t/m ²			[m]	t/m ²	t/m ²	t/m ²	t/m ²	m ²	t	t	t	t	tonnes	m
0.0-0.5	silty clay	0.00	0.00		07.00	0.5	0.00	0.00	0.0	0.0		dered due to		-			0.5
0.5-2.0	silty clay silty clay	0.90	0.00		27.80 27.60	1.5 2.0	1.35 1.80	1.35 3.15	1.4 3.2	0.7 2.3	1.18 1.57	0.63	0.63 3.40	1.02 2.21	1.65 5.61	2.1	<u>2.0</u> 4.0
4.0-6.0	sandy silty clay	1.01	4.45	0.95	5.00	2.0	2.02	5.17	3.4	3.4	1.57	7.33	10.73	2.69	13.42	5.2	6.0
<u>6.0-8.0</u> 8.0-10.0	sandy silty clay sandy silty clay	1.01 1.01	5.50 6.85	0.78		<u>2.0</u> 2.0	2.02	7.19 9.21	3.4 3.4	3.4 3.4	1.57 1.57	7.44 7.59	18.17 25.77	3.29 3.67	21.46 29.43	8.4 11.5	<u>8.0</u> 10.0
0.0-10.0	Sandy Silty Clay	1.01	0.00	0.04	5.10	2.0	2.02	9.21	3.4	5.4	1.57	1.59	25.11	3.07	29.43	11.5	10.0
				Qb	for ϕ		Q b for	-									
Depth,d	γsub	¢°	* Ν _γ	*	N _q	# Q b	С	# Q b									
4.0	1.01	5.00	0.45	1	.57	0.25	4.45	1.96								┨	
6.0	1.01	5.10	0.46	1	.58	0.26	5.50	2.43									
8.0	1.01	5.10	0.46	· · · ·	.58	0.26	6.85	3.02				ļ				\downarrow	
10.0	1.01	5.20	0.47		.60	0.27	7.70	3.40								├	
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बिहार राज्य शैक्षणिक आधारभूत संरचना विकास निगम लिमिटेड BIHAR STATE EDUCATIONAL INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. BSEIDO (A Govt, of Bihar Undertaking) ISO 9001:14001; OHSAS 18001 Shiksha Bhawan, Bihar Rashtrabhasha Parishad Campus, Acharya Shivpujan Sahay Path, Saidpur, Patna - 800 004 Tel. No.: 0612 - 2660850 • Fax No.: 0612 - 2660256 E-mail : bseidc@gmail.com • Website : http://www.bseidc.in • CIN : U80301BR2010SGC015859 Grip 02.03-2021 पत्राक:- BSEIDC/TECH/1960/2018 - \369 प्रेषक. मुख्य अभियंता **BSEIDC Ltd**, Patna सेवा में बिहार फाउंडेशन कंसल्टेन्ट गंगा दर्शन अपार्टमेंट फ्लैट न०-403 सदाकत आश्रम के पश्चिम. पटना- 800010 विषयः- निर्माण स्थल के मिट्टी जाँच हेत्। भवन निर्माण विभाग का पत्र संख्या–2030, दिनांक–21.04.2006 प्रसंगः— महाशय, बिहार राज्य शैक्षणिक आधारभूत संरचना विकास निगम लि० के अधीन "जहानाबाद, अरवल, नवादा, रोहतास, कैमुर, मुंगेर, सुपौल, वैशाली, सारण, भागलपुर और दरभंगा '' में विभिन्न +2 स्तरीय विद्यालय भवनों का निर्माण कार्य प्रस्तावित है। इन भवनों के निर्माण स्थलों पर मिट्टी की जाँच कराना है, जिसकी सूची (कम सं0-1 से 23 एवं 25 से 26 कुल 25) संलग्न है। अतः अनूरोध है कि उपरोक्त स्थलों का तीन—तीन बिन्दुओं पर 10.5 मीटर गहराई तक प्रत्येक 1.5 मीटर गहराई में मिटटी का नमूना संग्रह कर प्रतिवेदन समर्पित करें। साथ ही विहित प्रपन्न में मिटटी के भार वहन क्षमता की गणना (Isolated एवं Pile Foundation के लिए अलग–अलग) भी Hard Copy एवं Soft Copy में समर्पित करें। इस जाँच कार्य को इस तरह संपादित करें कि ट्रान्सपोर्टेशन एवं मोबलाईजेशन खर्च कम से कम हो। कार्य स्थलों पर सम्पर्क व्यक्ति, कार्य से संबंधित प्राचार्य / संबंधित कार्यपालक अभियंता रहेंगे। विश्वासमाजन मुख्य अभियंता **Bihar Foundation Consultants**

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Appendix - G1

	<u>Ome</u>	otate caacati	onal Infrastrucure Develor List of Schools for Soil Test		<u>Lta.</u>
SI.No.	District	Block	Name of Vidyalay	Letter no. & Date of A/A	Name & Mobile no of Executive Engineer
1	Jehanabad	Ratni Faridpur	High School, Rakasiya Dyaichak	11/भवन ०८-	Sri Binod Ranjan, 9661863636
2	Arwəl	Kurtha	Govt. High School, Kurtha	02/2018-176 dt. 26.02.2020	Sri Binod Ranjan, 9661863636
3	Nawada	Hisua	High School, Pacharha		Sri Binod Ranjan, 9661863636
4	Rohtas	Chenari	Gangotri Project High School, Chenari	11/वि11-48/2018 - 207 dt. 18.03.2020	Sri Ranvijay Kumar Sinha, 9934961293
5	Kaimur	Durgawati	High School, Dhanechha		Sri Ranvijay Kumar Sinha, 9934961293
6	Kaimur	Durgawati	Shatruharan High School, Kalyanpur		Sri Ranvijay Kumar Sinha, 9934961293
7	Kaimur	Ramgarh	High School, Ramgarh		Sri Ranvijay Kumar Sinha, 9934961293
8	Kaimur	Ramgarh	High School Rajendranagar, Deohaliya	11/भवन 08-01/2017- 217 dt. 20.03.2020	Sri Ranvijay Kumar Sinha, 9934961293
9	Kaimur	Nuaon	Ramayan singh High School, Banka Bahuaara		Sri Ranvijay Kumar Sinha, 9934961293
10	Kaimur	Nuaon	Sarvodya High School, Guriyan		Sri Ranvijay Kumar Sinha, 9934961293
11	Supaul	Chhatapur	Govt. Lalit Narayan Vidya Mandir, Balua Bazar		Sri Setish Prasad, 9523226037
12	Munger	Dharhara	Bapu Peaveshika High School, Sundarpur		Sri Surendra Kumar, 7903912972
13	Munger	Khargpur	Gandhi Memorial High School, Muzaffarganj	11/वि11-05/2019 - 219 dt. 20.03.2020	Sri Surendra Kumar, 7903912972
14	Munger	Khargpur	Inter High School, Lohachi	and 11/वि11- 05/2019 -118 dt. 18.02.2021	Sri Surendra Kumar, 7903912972
15	Munger	Jamalpur	Sardar Patel High School, Hanspuri		Sri Surendra Kumar, 7903912972

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