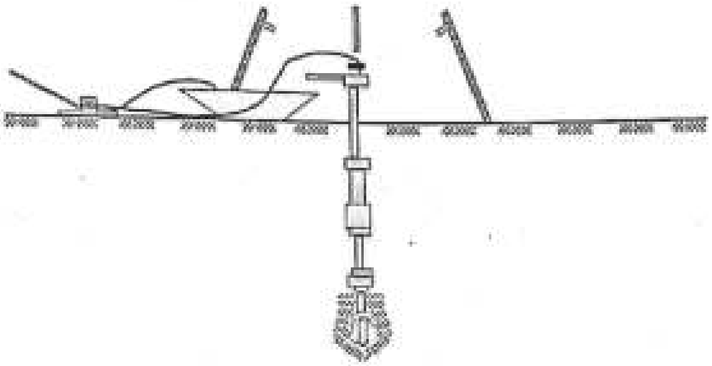
REPORT ON SOIL INVESTIGATION



-: NAME OF WORK :-

CONSTRUCTION OF PROPOSED

G+4 STORIED RESIDENTIAL BUILDING

-: LOCATION AT :-

SASHRI NAGAR, SILIGURI, WARD NO- 41(SMC),
P.S- BHAKTINAGAR, DIST:- JALPAIGURI,

-: LAND SCHEDULE :-

MOUZA– DABGRAM, J.L. NO- 02, SHEET NO- 9(R.S) & 48(L.R),
KHATIAN NO – 213 (R.S) & 156(L.R), PLOT NO- 112 (R.S) & 163(L.R),
WARD NO- 41(SMC), P.S.- BHAKTI NAGAR, DIST-JALPAIGURI

-: NAME OF OWNER :-

SRI SHYAMAL ROY, S/O. LATE JAYNATH ROY
AT EKTIASAL, WARD NO- 41(SMC), P.O- SEVOKE ROAD,
P.S- BHAKTINAGAR, DIST.- JALPAIGURI,

INVESTIGATOR

ACHARYA ASSOCIATES

GEO-TECHNICAL SOIL INVESTIGATION, MATERIAL TESTING SURVEYING (DIGITAL), PLANNING AND ESTIMATING
35, DINABANDHU MITRA SARANI, SUBHASPALLY, SILIGURI.
DIST- DARJEELING, Pin-734001
CELL-9851173583/94340-48977/9832375155
Email- acharyamainak@gmail.com

SL.NO. 666

CONTENTS

ACHARYA ASSOCIATES SILIGURI

INTRODUCTION AND SCOPE :

Soil investigation has been carried out at Sashtri Nagar, Ward N0- 41(Smc),P.S-Bhaktinagar, Dist- Jalpaiguri for the purpose of designing suitable foundation

PROPOSED G+4 STORIED RESIDENTIAL BUILDING

The objective of the exploration work was to determine the probable sub surface conditions such as stratification, denseness or hardness of the strata, position of ground water table etc. and to evaluate probable range of safe bearing capacity for preparing safe and economic design of foundation.

The plot is more or less level and the Spot is same from existing road level. Two 150 mm dia bore holes were taken down to a depth of 9 m below the existing ground level at the site as per location shown in the site plan. Auger boring and bentonite mud drilling were used for drilling the holes. Standard Penetration Test was done on the soil at different depth.

Laboratory testing on selected undisturbed/representative soil samples were done for classification purpose and to determine their strength & other physical properties.

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THE FOLLOWING TESTS WERE DONE FOR DETAILS SOIL INVESTIGATION:-

(A) FIELD TESTS:

1. Standard penetration tests.
2. Determination of In-Situ density.

(B) LABORATORY TESTS:

1. Natural moisture content
2. Specific Gravity
3. Grain size analysis.

1. Standard Penetration Tests :-

A standard split spoon sampler is driven 45 cm into the ground by means of a 63.5 kg hammer falling freely from a height of 75 cm. The total number of blows required to drive the second and third depth of 15 cm (i.e. total 30 cm) is called the standard Penetration resistance (N blows per 30 cm). After the blow counts are recorded, the spoon is withdrawn and a representative sample is obtained for identification tests. The N value has been corrected as per IS: 2123-1981.

Corrections:

a) Due to Overburden – The N value for cohesion less soil shall be corrected for overburden (N').

b) Due to Dilatancy – The value obtained after correction due to overburden shall be corrected for dialatancy if the stratum consists of fine sand and silt below water table for values of N' greater than 15, as under (N"):

$$N'' = 15 + \tfrac{1}{2}(N' - 15)$$

2. Determination of In-Situ density:

The in-situ density of soil is determined by core cutter method as per IS: 2720 (Part XXIX) - 1975.

(B) LABORATORY TESTS:

The soil samples collected from the bore holes during field Investigation were sent to the laboratory for determination of soil classification and physical properties.

The following laboratory tests were conducted on soil sample.

1. **Natural moisture content**: It is the ratio of weight of water in the voids to the weight of solids. It is expressed as percentage.

   It is determined in the laboratory by Oven drying method as per IS: 2720 (Part-II)-1973. In this method the soil sample (collected in the air tight polythene pack) is dried in thermostatically controlled oven at 105-110°C for 24 hours.

2. **Specific Gravity**: Specific gravity is the ratio of the weight in air of a given volume of a material at a standard temperature to the weight in air of an equal volume of distilled water at the same stated temperature.

The specific gravity of soil sample is determined by density bottle method as per IS: 2720 (Part III/Sec 1) - 1980.

3. Shear Strength test:

When an external load is applied on a soil mass, shearing stresses are induced in it. If the shear stress developed on any plane in the soil exceeds a certain limiting value, failure of the soil occurs.

The maximum shear stress which a given soil can withstand is called its shear strength.

The factors governing the shear strength of a soil are:

(a) Internal friction.

(b) Cohesion.

As it is seen from two nos bore log data sheet that the average soil strata at 2 to 4 m is fine, medium & coarse sand, which is **cohesion less(C=0)**, so **shear parameter angle of internal friction (Ø) is found out from correlation between angle of internal friction and corrected SPT value as per IS 6403 : 1981.**

Unconfined Compression test and Vane Shear test is applicable for pure forms of clay.

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2. **Grain size analysis :**

The soil samples collected from the different depths were used for determination of Grain Size analysis. This is determined in the laboratory by the mechanical analysis, which consists of:

(a) Dry mechanical analysis or sieve analysis.[IS-2720 (Part-4)- 1985]

(b) Wet mechanical analysis or hydrometer analysis. [IS-2720 (Part-4)-1985]

Determination of Net Safe Bearing Capacity of Soil:

Net Safe Bearing capacity of soil is determined considering the following two aspects :

1. **Shear failure of soil as per IS:6403-1981:** Under this aspect calculations are made for both General Shear failure and Local Shear failure and appropriate value of the either, or a interpolated value as per void ratio is determined as the net safe bearing capacity from shear failure point of view.

2. **Allowable settlement as per IS: 8009 (Part-1)-1986:** Maximum permissible settlement for R.C.C. structure and the type of soil as mentioned in the report(sandy) is 50mm as per IS: 8009 (Part-1)-1986. In the present case considering all aspects, allowable settlement as indicated in the Net allowable bearing capacity Table has been assumed to determine the Net Safe bearing capacity by the formula suggested by Bowles (1988):

Net Safe Bearing Capacity = $0.047 N_{cor} R_d (B+.33]/2)^2 S_a R_w$

Where

N_{cor}= Design N (SPT) Value

S_a= Allowable Settlement

R_d= Depth Correction Factor

B= Width of Footing

R_w= Water Table Correction

The **Net allowable bearing capacity** is taken as the lesser of the two values determined considering the above two aspects.

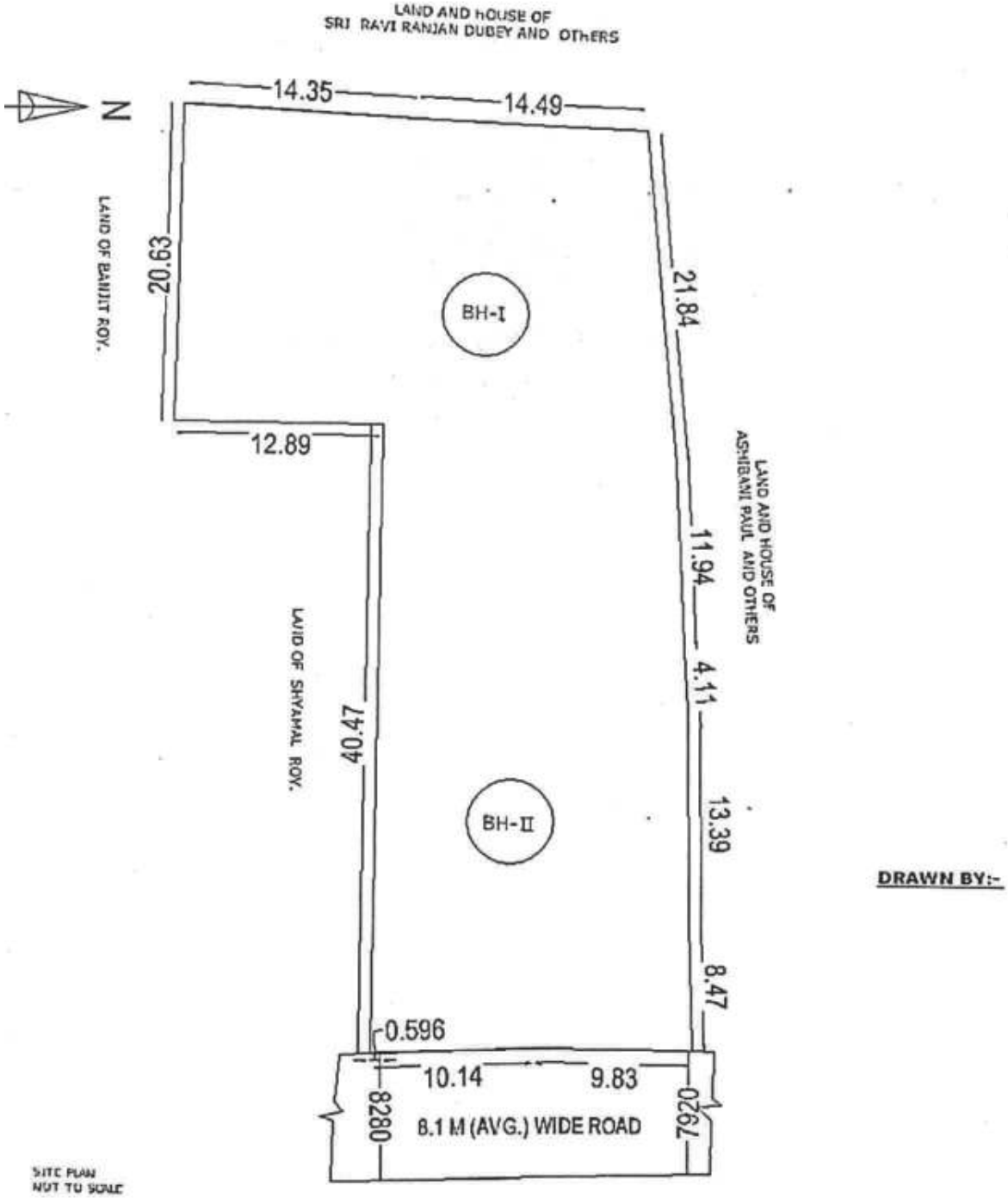
The calculations are shown in table- 3, 4, 5, 6 & 7

SITE PLAN SHOWING THE BORE HOLE LOCATION FOR PROPOSED TO CONSTRUCTION G+4 STORIED RESIDENTIAL BUILDING
AT SASHRI NAGAR, SILIGURI, WARD NO- 41(SMC),
P.S- BHAKTINAGAR, DIST. JALPAIGURI

NOTE = (BH) = BORE HOLE LOCATION

LAND OWNER :-
SRI. SHYAMAL ROY.
S/O. LATE JAYNATH ROY
RESIDING AT EKTIASAL, WARD NO. - 41,
P.O. - SEVOKEROAD, P.S. - BHAKTINAGAR,
DIST. - JALPAIGURI, SILIGURI

SCHEDULE OF LAND
MOUZA - DABGRAM.
J.L. NO. - 2
SHEET NO. - 9(R.S) & 48(L.R)
KHATIAN NO. - 213(R.S) & 156(L.R)
PLOT NO. - 112(R.S) &163(L.R)
WARD NO. - 41 (S.M.C.)
P.S. - BHAKTINAGAR.
DIST. - JALPAIGURI.



SITE PLAN
NOT TO SCALE

DRAWN BY:-

Table-1

BORE LOG DATA SHEET

TYPE OF BORING	DIA OF BORE	TYPE OF DRILLING
SHELL & AUGER	150 MM	BMD
TERMINATION DEPTH	9.00 M	
COMMENCED ON : 02/03/2022	COMPLETED ON : 02/03/2022	
GROUND WATER LEVEL	3.6 m	

BORE HOLE NO. 1	
GROUND/ BED RL	The spot is same from road level.
LOCATION	
SASHTRI NAGAR, WARD NO- 41(SMC), P.S- BHAKTINAGAR, DIST- JALPAIGURI	

DESCRIPTION OF STRATA	LEGEND	FROM	TO	Thickness	N	SAMPLES		DEPTH
		m	m	m	Value	Type	Ref. No.	m
Silty fine,medium & coarse sand with small size gravel grey in colour.		2.00	2.45	0.45	19	P	P-I/1	2.15-2.45
Do		3.00	3.45	0.45	20	P	P-I/2	3.15-3.45
Fine,medium,coarse sand with gravel grey in colour.		4.00	4.45	0.45	23	P	P-I/3	4.15-4.45
Do		5.00	5.45	0.45	25	P	P-I/4	5.15-5.45
Fine,medium ,coarse sand with gravel and cobble grey in colour.		6.00	6.45	0.45	29	P	P-I/5	6.15-6.45
Do		7.00	7.45	0.45	33	P	P-I/6	7.15-7.45
Do		8.00	8.45	0.45	37	P	P-I/7	8.15-8.45
Do		9.00	9.45	0.45	45	P	P-I/8	9.15-9.45

Code : U-Undisturbed sample, D – Disturbed Sample, L – Large Diameter, C – Core
W-Water Sample, P-Penetration. Test, V – Vane Shear Test

No. of Vane Test : NIL

No. of Large Diameter Sample : NIL No. of S.P.T. : EIGHT(8) No. of Water Sample : NIL

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Table-2

BORE LOG DATA SHEET

TYPE OF BORING	DIA OF BORE	TYPE OF DRILLING
SHELL & AUGER	150 MM	BMD
TERMINATION DEPTH	9.00 M	
COMMENCED ON : 02/03/2022	COMPLETED ON : 02/03/2022	
GROUND WATER LEVEL	3.6 m	

BORE HOLE NO. 2	
GROUND/ BED RL	The spot is same from road level.
LOCATION	
SASHTRI NAGAR, WARD N0- 41(SMC), P.S- BHAKTINAGAR, DIST- JALPAIGURI	

DESCRIPTION OF STRATA	LEGEND	FROM	TO	Thickness	N	SAMPLES		DEPTH
		m	m	m	Value	Type	Ref. No.	m
Silty fine,medium & coarse sand with small size gravel grey in colour.		2.00	2.45	0.45	16	P	P-II/1	2.15-2.45
Do		3.00	3.45	0.45	22	P	P-II/2	3.15-3.45
Fine,medium,coarse sand with gravel grey in colour.		4.00	4.45	0.45	25	P	P-II/3	4.15-4.45
Do		5.00	5.45	0.45	26	P	P-II/4	5.15-5.45
Fine,medium ,coarse sand with gravel and cobble grey in colour.		6.00	6.45	0.45	32	P	P-II/5	6.15-6.45
Do		7.00	7.45	0.45	41	P	P-II/6	7.15-7.45
Do		8.00	8.45	0.45	44	P	P-II/7	8.15-8.45
Do		9.00	9.45	0.45	51	P	P-II/8	9.15-9.45

Code : U-Undisturbed sample, D – Disturbed Sample, L – Large Diameter, C – Core
W-Water Sample, P-Penetration. Test, V – Vane Shear Test

No. of Vane Test : NIL
No. of Large Diameter Sample : NIL No. of S.P.T. : EIGHT(8) No. of Water Sample : NIL

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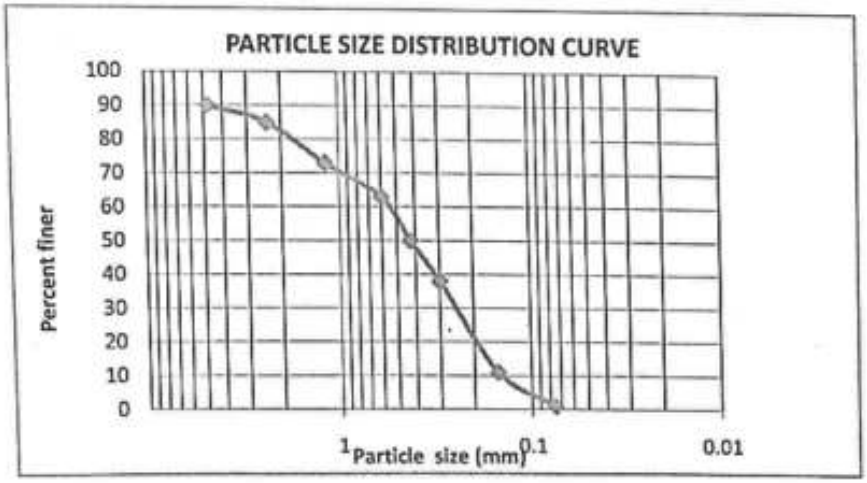
GRAIN SIZE ANALYSIS OF BORE HOLE-1
AT DEPTH- 2.0 M

Total wt of sample = 260 gm

Sieve size	Wt. of Sieve	Wt.of Sieve + soil	Wt. of soil	% retained	Cumulative % retained	% finer
mm	gm	gm	gm			
4.75	424	460	36	13.85	13.85	86
2.36	378	386	8	3.08	16.93	83
1.18	342	350	8	3.08	20.01	80
0.600	363	399	36	13.85	33.86	66
0.425	320	337	17	6.54	40.4	60
0.300	345	350	5	1.92	42.32	58
0.150	343	458	115	44.23	86.55	13
0.075	338	370	32	12.31	98.86	1



CLAY %	SILT %		SAND %		GRAVEL %
		FINE %	MEDIUM %	COARSE %	
0	1	49	35	5	10

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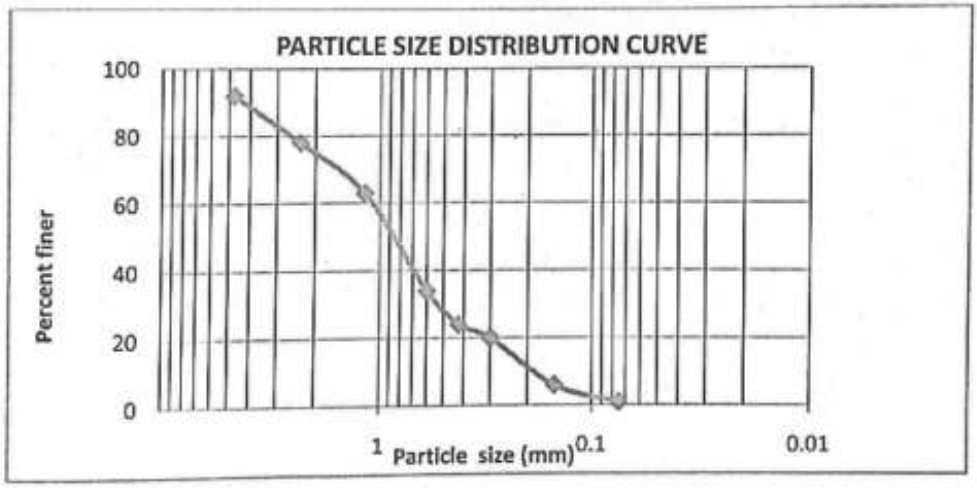
GRAIN SIZE ANALYSIS OF BORE HOLE-2
AT DEPTH- 2.0 M

Total wt of sample =360 gm

Sieve size	Wt. of Sieve	Wt. of Sieve + soil	Wt. of soil	% retained	Cumulative % retained	% finer
mm	gm	gm	gm			
4.750	424	448	24	6.67	6.67	93
2.360	378	416	38	10.56	17.23	83
1.180	342	386	44	12.22	29.45	71
0.600	363	455	92	25.56	55.01	45
0.425	320	336	16	4.44	59.45	41
0.300	345	449	104	28.89	88.34	12
0.150	343	378	35	9.72	98.06	2
0.075	338	341	3	0.83	98.89	1



CLAY %	SILT %	SAND %			GRAVEL %
		FINE %	MEDIUM %	COARSE %	
0	1	40	42	10	7

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Table-3

ESTIMATED PHYSICAL PROPERTIES OF SOIL

Bulk density, γ_b (t/m^3)	1.86
Natural Moisture Content w (%)	21.91
Natural Dry density γ_d (t/m^3)	1.53
Specific Gravity, G	2.66
Void ratio, e	0.74
Saturated density, γ_{sat} (t/m^3)	1.95
Submerged density, γ_{sub} (t/m^3)	0.95
Angle of internal friction,φ (Degree)	32
Angle of internal friction,φ' (Degree)	22.72

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Table-4

CORRECTION OF FIELD SPT (N) VALUE

Depth (m)	Bulk Density (gm /cc)	EOP (Kg / sq.cm)	C_n	N	N'	N"	Design N Value
2	1.86	0.37	1.32	16	21.12	18.06	19.33
3	1.86	0.56	1.16	20	23.20	19.10	20.14
4	1.86	0.74	1.08	23	24.84	19.92	20.83
5	1.86	0.93	1.02	25	25.50	20.25	21.42
6	1.86	1.12	0.95	29	27.55	21.28	22.34
7	1.86	1.30	0.87	33	28.71	21.86	22.70
8	1.86	1.49	0.80	37	29.60	22.30	23.12
9	1.86	1.67	0.73	45	32.85	23.93	

N = Field N value (Minimum of all bore holes).
N' = N Value after overburden correction.
N"= N Value after Dilatancy correction.
EOP= Effective Overburden pressure.
C_n = Overburden correction.

Table-5

Calculation of Net Safe Bearing Capacity as per IS-6403:1981, Based on General Shear Failure with Ø determined from Design 'N' value, derived from corrected field N value as per IS- 2131:1981.

Width (B in m)	2	3	4	3	4	5
Sub merged density of soil (t/m^3)	0.95	0.95	0.95	0.95	0.95	0.95
Sat.density (γ_{sat}) of the soil (t/m^3)	1.95	1.95	1.95	1.95	1.95	1.95
Depth (D in m)	2	2	2	3	3	3
Surcharge (q in t/m^2)	1.9	1.9	1.9	2.85	2.85	2.85
Ø (degree)	32	32	32	32	32	32
Water table correction (w^1)	1	1	1	1	1	1
Shape factors						
s_q	1.2	1.2	1.2	1.2	1.2	1.2
s_γ	0.8	0.8	0.8	0.8	0.8	0.8
Depth factors						
d_q	1.17	1.12	1.09	1.17	1.13	1.1
d_γ	1.17	1.12	1.09	1.17	1.13	1.1
Inclination factors						
i_q	1	1	1	1	1	1
i_γ	1	1	1	1	1	1
Bearing capacity factors						
N_q	24.36	24.36	24.36	24.36	24.36	24.36
N_γ	32.65	32.65	32.65	32.65	32.65	32.65
$q.(N_q-1).s_q.d_q.i_q$ (t/m^2)	62.32	59.65	58.05	93.47	90.28	87.88
$0.5.B.\gamma_{sat}.N_\gamma.s_\gamma.d_\gamma.i_\gamma.w^1$ (t/m^2)	59.59	85.57	111.04	89.39	115.11	140.07
Ultimate net bearing capacity(t/m^2)	121.91	145.22	169.09	182.86	205.39	227.95
Factor of safety	3	3	3	3	3	3
Net Safe Bearing Capacity (t/m^2)	40.64	48.41	56.36	60.95	68.46	75.98

Table-6

Calculation of Net Safe Bearing Capacity as per IS-6403:1981,Based on Local Shear Failure with Ø determined from Design 'N' value, derived from corrected field N value as per IS- 2131:1981.

Width (B in m)	2	3	4	3	4	5
Sub merged density of soil (t/m^3)	0.95	0.95	0.95	0.95	0.95	0.95
Saturated density (γ_{sat}) of the soil (t/m^3)	1.95	1.95	1.95	1.95	1.95	1.95
Depth (D in m)	2	2	2	3	3	3
Surcharge (q in t/m^2)	1.9	1.9	1.9	2.85	2.85	2.85
Ø'(degree)	22.72	22.72	22.72	22.72	22.72	22.72
Water table correction(w^1)	1	1	1	1	1	1
Shape factors						
s_q	1.2	1.2	1.2	1.2	1.2	1.2
s_γ	0.8	0.8	0.8	0.8	0.8	0.8
Depth factors						
d_q	1.17	1.12	1.09	1.17	1.13	1.1
d_γ	1.17	1.12	1.09	1.17	1.13	1.1
Inclination factors						
i_q	1	1	1	1	1	1
i_γ	1	1	1	1	1	1
Bearing capacity factors						
N'_q	8.72	8.72	8.72	8.72	8.72	8.72
N'_γ	8.38	8.38	8.38	8.38	8.38	8.38
$q.(N'_q-1).s_q.d_q.i_q$ (t/m^2)	20.59	19.71	19.19	30.89	29.83	29.04
$0.5.B.\gamma_{sat}.N'_\gamma.s_\gamma.d_\gamma.i_\gamma.w^1$ (t/m^2)	15.3	21.96	28.5	22.94	29.54	35.95
Ultimate net bearing capacity(t/m^2)	35.89	41.67	47.69	53.83	59.37	64.99
Factor of safety	3	3	3	3	3	3
Net Safe Bearing Capacity (t/m^2)	11.96	13.89	15.90	17.94	19.79	21.66

ACHARYA ASSOCIATES SILIGURI

Table: 7

Summary Table of calculation of Net Safe Bearing Capacities based on Shear Failure and Settlement criteria as per Codal Provisions based on which Suggested Net Safe Bearing Capacity has been recommended.

Depth (D) metre	Width (B) metre	Length (L) metre	Net Safe Bearing Capacity Based on General Shear Failure(t/m^2)	Net Safe Bearing Capacity Based on Local Shear Failure(t/m^2)	Void Ratio	Net Safe Bearing Capacity Based on Void Ratio (t/m^2)	Net Safe Bearing Capacity Based on Allowable Settlement (t/m^2)	Suggested Net Safe Bearing Capacity (t/m^2)
2	2	2	40.64	11.96	0.74	13.39	45.97	13.39
	2	3	37.69	11.12	0.74	12.45	45.97	12.45
	3	3	48.41	13.89	0.74	15.62	38.28	15.62
	4	4	56.36	15.90	0.74	17.92	34.76	17.92
3	3	3	60.95	17.94	0.74	20.09	44.13	20.09
	3	4	55.93	16.56	0.74	18.53	44.13	18.53
	4	4	68.46	19.79	0.74	22.22	39.37	22.22
	5	5	75.98	21.66	0.74	24.38	36.66	24.38

Recommendations:

1. ***Above recommendations are made for isolated footings of mentioned sizes and depth.***
2. ***For footings of intermediate size, interpolation may be done.***
3. ***Recommendation are also valid for strip footing of equivalent width.***

Prepare By:

Checked by:

ACHARYA ASSOCIATES SILIGURI

PHOTOGRAPH

SILIGURI MUNICIPAL CORPORATION

P.O. SILIGURI, DIST.- DARJEELING, PIN-734001, 2425444, 2433277, 2433744

From: - Commissioner
Siliguri Municipal Corporation.

Memo no- 3141 /SMC/Bldg/18-19 Date: 19-03-19

From: - Commissioner
Siliguri Municipal Corporation.

Memo no- 3141 /SMC/Bldg/18-19 Date: 13-03-19

To : Acharaya Associates
35, Deshbandhu Para,
Subhash Pally,
Siliguri-734001

Sub- Enlistment Certificate for conducting of Soil investigation/testing work within Siliguri Municipal Corporation.

This is to inform you that : Acharaya Associates 35, Deshbandhu Para, Subhash Pally, Siliguri-734001has been allowed and permitted to conduct the job of soil investigation and construction material testing with Siliguri Municipal Corporation area with the terms & conditions and limits decided by the Corporation from time to time.

Terms & Conditions:

The Enlistment will be generally guided by the following Terms & Conditions :

1. The Validity of the Enlistment initially 05(Five) Years with yearly renewable as the fees decided by the Corporation.
2. The renewal fees shall be paid within last working days of March in every financial year & after the month of march, failing which fees to be paid with a fine @ Rs. 200/-(Two Hundred) only per month in additional to normal renewal fees, subject to revisions from time to time.
3. That in case renewal fee for enlistment falls due for two consecutive year (upto last working day of the second year), enlistment shall be liable to be terminated.
4. The enlistment is not transferable.
5. The fitness certificate of machineries (Testing Apparatus) to be submitted in every two years.
6. The Corporation may at any time cancelled the Enlistment during the validity of the enlistment, if the Authority is satisfied that;
   (a) The firm is adjudged insolvent or of unsound mind, or is engaged in or committed to any anti social activities.
   (b) For bad workman ship resulting of poor quality of work, failure to safe Corporation property against theft & pilferage and any other work to be considered detrimental to the Corporation's interest.
   (c) And any other activities or action or behavior against the interest of Corporation.

ACHARYA ASSOCIATES SILIGURI

clause of clause 6 rule to rules or amend any of its rule or rules from time to time and when necessary.

Commissioner
Siliguri Municipal Corporation

No. 941 (USHC Tax-II)-19
Dated: 11-3-19

To:
01. The Hon'ble Mayor, SMC, Siliguri.
02. The Hon'ble Deputy Mayor, SMC, Siliguri
03. The Commissioner of Income Tax, Siliguri.
04. The Commissioner of Sales Tax, Siliguri.
05. The Addl. Chief Secretary, Govt.
06. The Secretary, Siliguri.
07. The Executive Engineer, SMC, Siliguri
08. The Finance Officer, SMC, Siliguri.
09. The Head Clerk, SMC, Siliguri.
10. The Accountant, SMC, Siliguri.
11. The Cashier, SMC, Siliguri.
12. Building Section, SMC, Siliguri.
13. Guard File.

Commissioner
Siliguri Municipal Corporation

Form No 97
[Vide Rules 17 & 249]
SILIGURI Municipal Corporation

Receipt Voucher

No. 1276
Date 07-06-2021

Received From ACHARYA ASSOCIATES
SUBHAS PALLY, WARD NO. 18, SILIGURI

On Account of (Account Head)	Amount	Remarks (if any)
1401004 REGISTRATION OF PROFESSIONALS/ENLISTMENT FEES	7500.00	RENEWAL
TOTAL	**7500.00**	

LICENCE VALID FOR THE YEAR 2021 – 2022
The Sum of Rupees Seven Thousand Five Hundred Only

(in figures) Rs.*****7500.00 [Cash:*****7500.00 , Chq/DD:********0.00]

09/06/2021
Cashier
CASH 07-06-21 12:27 PM

Vice Chairman/Auth.Signatory/E.O.

Empanelled Geo Tech Engineer I/II under Siliguri Municipal Corporation.

NAME: AVIJIT GHOSH

ADDRESS: Aangee Lodge Building Bidhan Road Siliguri 734001

EMPANELMETN NO: Geo-Tech Engr/I-10

CLASS: I

VALID W.E.F. 8.11.2019
Valid upto – 31-3-20

Avijit Ghosh
Signature of Geo Tech. Engineer.

Renew for the year of 20..... 20.....

Renew for the year of 20..... 20.....

Renew for the year of 20..... 20.....

Renew for the year of 20..... 20.....

Renew for the year of 20..... 20.....

Renew for the year of 20..... 20.....

Sdt
Commissioner
Siliguri Municipal Corporation

Renew for the year of 20 20..... 20 21

Commissioner
Siliguri Municipal Corporation 1/6/2020

Renew for the year of 20..... 20.....

Renew for the year of 20 21 20 22

Commissioner
Siliguri Municipal Corporation

Renew for the year of 20..... 20.....

Renew for the year of 20..... 20.....

Renew for the year of 20..... 20.....

Renew for the year of 20..... 20.....

THIS CARD IS TO BE PRODUCED DURING SUBMISSION OF PLANS AND IDENTIFICATION.

Commissioner 31/1/19
Siliguri Municipal Corporation

Empanelled Geo Technical Engineer Class I
Under Siliguri Municipal Corporation.

NAME: Sri Sunjit Chatterjee

ADDRESS S/O Binoy Chatterjee
"Lila Samiti" Hospital More
Near Children Park Siliguri

EMPANELMETN NO. Geo/Tech/I-07

CLASS I

VALID W.E.F. 28/05/17

FOR THE FINANCIAL YEAR 2017-2018

Sunjit Chatterjee
Signature of E.G.T.E.

Renew for the year of 20..... 20.....

Renew for the year of 20..... 20.....

Renew for the year of 20..... 20.....

Renew for the year of 20..... 20.....

Renew for the year of 20..... 20.....

Commissioner
Siliguri Municipal Corporation

Renew for the year of 20.18..... 20.19.....
Commissioner
Siliguri Municipal Corporation

Renew for the year of 20..... 20.....
2019 2020

Renew for the year of 20..... 20.....
Commissioner
Siliguri Municipal Corporation

Renew for the year of 20.20..... 20.21.....
Commissioner
Siliguri Municipal Corporation

Renew for the year of 20.21..... 2022.....
Commissioner
Siliguri Municipal Corporation

Renew for the year of 20..... 20.....

Renew for the year of 20..... 20.....

Renew for the year of 20..... 20.....

THIS CARD IS TO BE PRODUCED DURING SUBMISSION OF PLANS AND IDENTIFICATION.

Commissioner
Siliguri Municipal Corporation