

Marshal Geo Test Laboratory

For Testing of Civil Engineering Materials

ISO 9001:2015



Certified By :
Standardisation Testing
& Quality Certification
Directorate
MSME No.: CG14E0001811

TEST REPORT

Date:-25/07/19

T. R. No. MGTL / TRR / R-1907192/005

To,
The Executive Engineer (Civil)
H.Q. Dn. , C.S.P.T.C.L.
Raipur (C.G.)

Subject: - Test result of Safe Bearing Capacity of Soil Sample for the proposed construction of 132/33 KV S/s Daldalseoni, Raipur (C.G.).

Your Ref.: -Letter No.: - EEC/HQ Dn./1880 Raipur, Dt. - 06/07/19
Sample ID Mark :- Pit No.-03

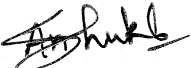
Dear / Sir,


vide subject and reference cited above, the test results report is as follows: -

SAFE BEARING CAPACITY OF SOIL BY PLATE LOAD TEST

FIELD & LAB JOB NO: - R-1907192			
Sr. No.	Name of Test	Test Method	Test Results
	Plate Load Test	As per IS:-1888 (RA-2016)	As Below
	PARTICULARS	LOCATION	
		PIT No.-03	
1	Date of Testing	14/07/19	
2	Type Soil	High Compressible Clay (CH)	
3	Depth of Pit (m)	2.50	
4	Field Density (t/m ³)	1.95	
5	Gross Safe Bearing Capacity (t/m ²)	12.50	

- Remarks:-
1. This soil is susceptible to longterm consolidation settlement.
 2. The S.B.C.has been computed taking 1m x 1m footing size.
 3. Settlement of footing at failure pressure is 29.00 mm.


Verified by
(Anshuman Shukla)
(Geotechnical Engineer)


Authorised Signatory
(Arun Bhawe)

Note:-

- 1 Results are subject to limitations as per IS -code-1888
- 2 Samples may be destroyed / Removed away from Laboratory after Testing, unless otherwise particular request is made.
- 3 This report in full or part may not be reproduced, published or used for any legal action unless prior permission is secured from C.E.O. MGTL Raipur. Subject to Raipur Jurisdiction.
- 4 This report pertains to only location mentioned as above.

*****END OF REPORT*****

Page 1 of 1

P.S. City Road, Near Kushalpur Chowk,
Changorabhata, Ring Road No. -01,
Raipur 492013 (C.G.) , Ph. : 7879798900
E-mail : raipur_marshall@yahoo.co.in
raipur_marshall@gmail.com
Website : marshalgeoraipur.com

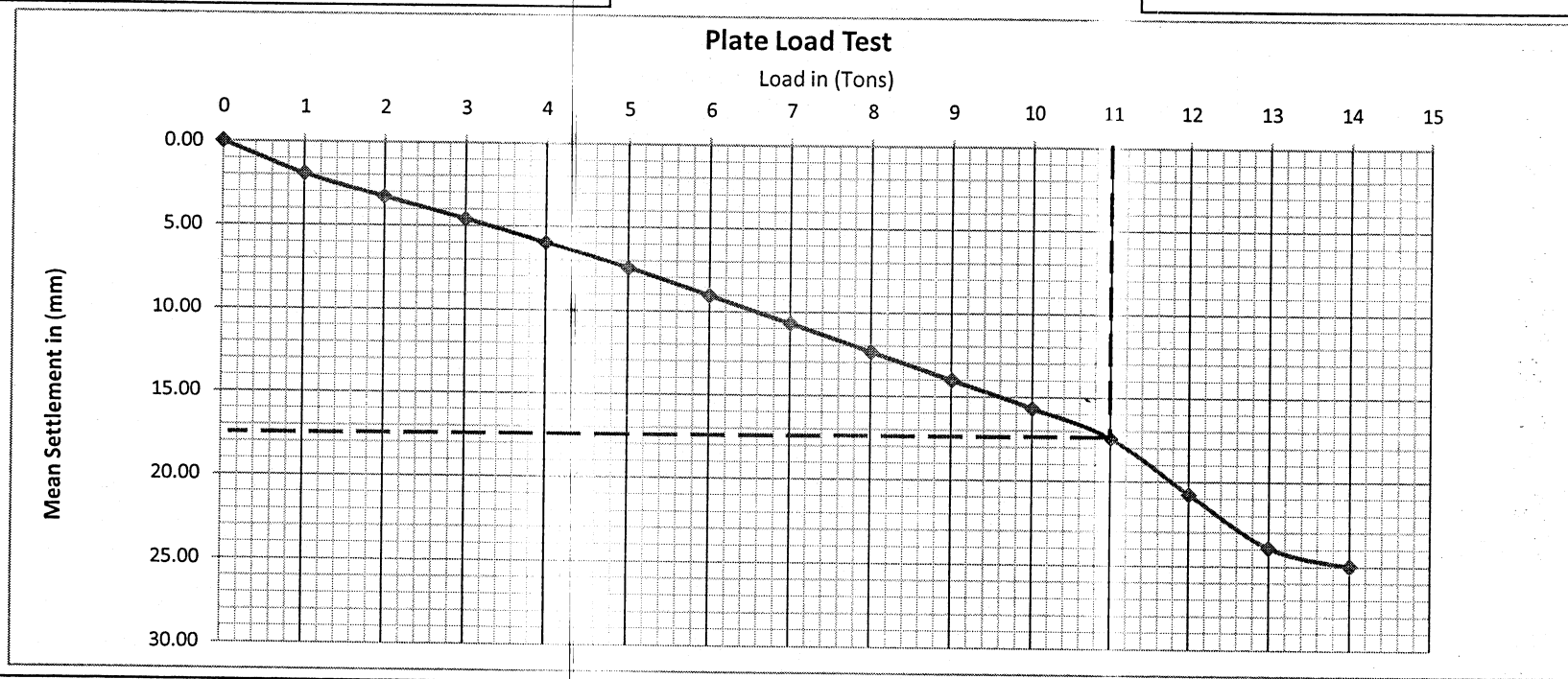


PLATE LOAD TEST (As per IS-1888)

Client Name :-	CSPTCL	MGTL Job No.-	R-1907192/005	Depth :-	2.50	Mtr.
Name of Work :-	Proposed construction	Location :-	Control Room	Bulk Density :-	1.95	T/m ³
Site Name :-	Daldal Seoni, Raipur	Dt of Testing:-	14-07-2019	plate size:-	0.60 X 0.60 m	
				Pit No :-	3	
Type of soil:- High Compressible Clay (CH)						

PIT NO.- 03

LOAD Ton	Ave. Sett. (mm)
0	0.00
1	1.91
2	3.28
3	4.57
4	5.95
5	7.42
6	9.05
7	10.69
8	12.37
9	14.02
10	15.68
11	17.43
12	20.74
13	23.91
14	25.00



Load failure Load	11.00	Ton	FOS	3	Area of plate	0.360	m ²
Plate Settlement at failure load	17.43	mm	Overburden pressure	2.438	T/m ²		
Ultimate Bearing Capacity (q _u)	30.56	T/m ²					
Net Safe Bearing Capacity (q _s)	10.00	T/m ²					
Gross Safe Bearing Capacity (q _s)gross	12.50	T/m ²					
Remark:	1) This Soil is susceptible to long-term Consolidation Settlement. 2) The SBC has been computed taking 1m x 1m footing size. 3) Settlement of footing at failure pressure is 29.00mm.						
Prepared & Check By				Authorised Signatory			

Calculation for Footing Settlement

So Settlement of Footing at Safe Load Can be Calculated Using the following Formula: IS 1888

PIT NO.- 03

Width of Footing (B)	1	Mtr
Width of Plate (BP)	0.6	Mtr.
Plate Settlement (SP)	17.43	mm.

Settlement Calculation on Sandy Soils

$$S_F = S_p \left\{ \frac{B(B_p + 0.3)}{B_p(B + 0.3)} \right\}^2$$

SF = S_p	B(B _p + 0.3)	}	2	
	B _p (B + 0.3)	}		
SF = 17.43	1(0.60+0.3)	}	2	
	0.60(1+0.3)	}		

SF =	17.43		0.9	
			0.78	

SF =	17.43		1.154	
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Permissible Settlement of Footing

SF =	23.21		mm	
SF ≈	23.00		mm	

Settlement Calculation on Clayey Soils

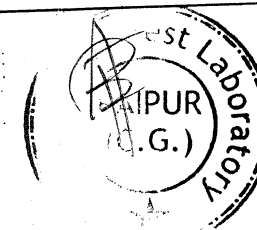
$$SF = S_p \left(\frac{B}{B_p} \right)$$

$$SF = 17.43 \left(\frac{1}{0.6} \right)$$

SF =	17.43		1.67	
------	-------	--	------	--

Permissible Settlement of Footing

SF =	29.05		mm	
SF =	29.00		mm	



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Standardisation Testing
& Quality Certification

Directorate

MSME No.: CG14E0001811

Sheet 1 of 2

Date:-25/07/19

T.R. No. / MGTL / TRR / R-1907192/006

To,
The Executive Engineer (Civil)
H.Q. Dn. , C.S.P.T.C.L.
Raipur (C.G.)

Subject :- Test result of Soil Sample for the proposed construction of 132/33 KV S/s Daldalseoni, Raipur (C.G.).

Your Ref.:- Letter No.:- EEC/HQ Dn./1880 Raipur, Dt. - 06/07/19

Sample ID Mark :- Pit No.-03, Depth :- 2.50 m.

Sir,
Vide subject and reference cited above, the test results report is as follows: -

PARTICULAR OF SAMPLES (S) :-

Nature:- Soil Sample (DS)

Sample No.(S) Details:- One sample

Packing/Container :- Poly bags

Dt. of Receipt in the Lab:- 19/07/19

Testing Dt.- 24/07/19

LAB JOB NO. R-1907192		TEST RESULTS		
S. No.	Name of Test	Test Method	Results	Unit
A)	Soil Sample (DS)	As per IS : 2720 (Part V)	As per table 1 below	%
1	LL, PL & PI	As per IS : 1498-1970	As per table 1 below	
2	Soil Classification	As per IS : 2720 (Part IV)	As per table 2 below	
3	Grain Size Analysis			

Table -1

LAB JOB NO. R-1907192			TEST RESULTS		
Sr. No.	% of Fines	Soli Classification	LL	PL	PI
			%	%	%
1	85.60	High Compressible Clay (CH)	50.50	21.99	28.51

Page 1 of 2

P.S. City Road, Near Kushalpur Chowk,
Changorabhata, Ring Road No. -01,
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raipur_marshall@gmail.com
Website : marshalgeoraipur.com



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Directorate

MSME No.: CG14E0001811

Sheet 2 of 2

Table -2

LAB JOB NO. R-1907192				TEST RESULTS	
Sr. No.	SIEVE SIZE (MM)	WT. RET.	% OF WT.RET	CUM.WT. RET.	PERCENTAGE FINER (%)
1	4.75	26.0	5.20	5.20	94.80
2	2.0	8.0	1.60	6.80	93.20
3	0.6	14.0	2.80	9.60	90.40
4	0.425	0.0	0.00	9.60	90.40
5	0.075	24.0	4.80	14.40	85.60

LAB JOB NO. R-1907192					TEST RESULTS				
Gravel		Coarse Sand		Medium Sand		Fine Sand		Silt & Clay	
5.20		1.60		2.80		4.80		85.60	

Verified by
(Anshuman Shukla)
(Geotechnical Engineer)

Authorised Signatory
(Arun Bhawe)

Note:-

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*****END OF REPORT*****

Page 2 of 2

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raipur_marshall@gmail.com
Website : marshalgeoraipur.com





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MSME No.: CG14E0001811

TEST REPORT

T. R. No. MGTL / TRR / R-1907192/003

Date:-25/07/19

To,
The Executive Engineer (Civil)
H.Q. Dn. , C.S.P.T.C.L.
Raipur (C.G.)

Subject: - Test result of Safe Bearing Capacity of Soil Sample for the proposed construction of 132/33 KV S/s Daldalseoni, Raipur (C.G.).

Your Ref.: -Letter No.: - EEC/HQ Dn./1880 Raipur, Dt. - 06/07/19
Sample ID Mark :- Pit No.-02


Dear / Sir,

As per subject and reference cited above, the test results report is as follows: -

SAFE BEARING CAPACITY OF SOIL BY PLATE LOAD TEST

FIELD & LAB JOB NO: - R-1907192			
Sr. No.	Name of Test	Test Method	Test Results
		Plate Load Test	As per IS:-1888 (RA-2016)
	PARTICULARS	LOCATION	
		PIT No.-02	
1	Date of Testing	13/07/19	
2	Type Soil	High Compressible Clay (CH)	
3	Depth of Pit (m)	2.00	
4	Field Density (t/m^3)	2.14	
5	Gross Safe Bearing Capacity (t/m^2)	17.00	

- Remarks:-
1. This soil is susceptible to longterm consolidation settlement.
 2. The S.B.C.has been computed taking 1m x 1m footing size.
 3. Settlement of footing at failure pressure is 22.50 mm.


Verified by
(Anshuman Shukla)
(Geotechnical Engineer)


Authorised Signatory
(Arun Bhawe)

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raipur_marshall@gmail.com
Website : marshalgeoraiipur.com

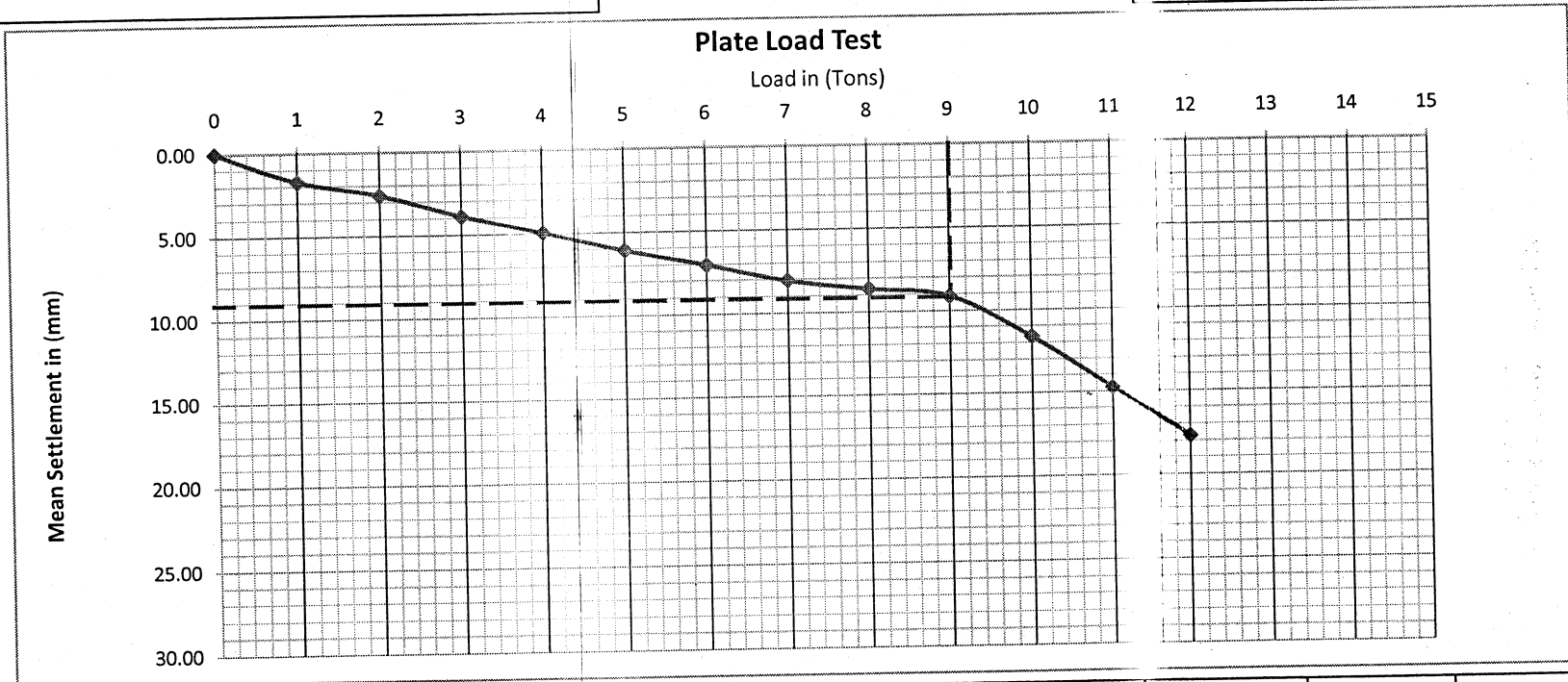


PLATE LOAD TEST (As per IS-1888)

Client Name :-	CSPTCL	MGTL Job No.-	R-1907192/003	Depth :-	2.00	Mtr.	
Name of Work :-	Proposed construction	Location :-	Control Room	Bulk Density :-	2.14	T/m ³	
Site Name :-	Dalda Seoni, Raipur	Dt of Testing:-	13-07-2019	plate size:-	0.45 X 0.45 m		
				Pit No :-	2		
				Type of soil:- High Compressible Clay (CH)			

PIT NO.- 02


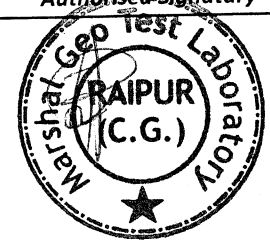
LOAD Ton	Ave. Sett. (mm)
0	0.00
1	1.71
2	2.59
3	3.88
4	4.94
5	6.07
6	7.05
7	8.06
8	8.62
9	9.12
10	11.65
11	14.76
12	17.70



Load failure Load	9.00	Ton	FOS	3	Area of plate	0.203	m ²
Plate Settlement at failure load	9.12	mm	Overburden pressure	2.140	T/m ²		
Ultimate Bearing Capacity (q _u)	44.44	T/m ²					
Net Safe Bearing Capacity (q _s)	15.00	T/m ²					
Gross Safe Bearing Capacity (q _s)gross	17.00	T/m ²					

Remark:

- 1) This Soil is susceptible to long-term Consolidation Settlement.
- 2) The SBC has been computed taking 1m x 1m footing size.
- 3) Settlement of footing at failure pressure is 22.50mm.

Prepared & Check By	Authorised Signatory
	

Calculation for Footing Settlement

So Settlement of Footing at Safe Load Can be Calculated Using the following Formula: IS 1888

PIT NO.- 02

Width of Footing (B)	1	Mtr
Width of Plate (BP)	0.45	Mtr.
Plate Settlement (SP)	9.12	mm.

Settlement Calculation on Sandy Soils

$$S_F = S_P \left\{ \frac{B(B_P + 0.3)}{B_P(B + 0.3)} \right\}^2$$

SF = Sp {	B(Bp + 0.3)	}^2
	Bp(B + 0.3)	
SF = 9.12 {	1(0.45+0.3)	}^2
	0.45(1+0.3)	

SF =	9.12	0.75
		0.585

SF =	9.12	1.282
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Permissible Settlement of Footing

SF =	14.99	mm
SF ≈	15.00	mm

Settlement Calculation on Clayey Soils

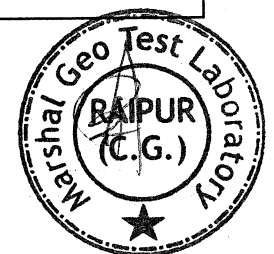
$$SF = S_P \left(\frac{B}{B_P} \right)$$

$$SF = 9.12 \left(\frac{1}{0.45} \right)$$

SF =	9.12	2.22
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Permissible Settlement of Footing

SF =	20.27	mm
SF =	20.50	mm





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Directorate
MSME No.: CG14E0001811

Sheet 1 of 2

Date:-25/07/19

T.R. No. / MGTL / TRR / R-1907192/004

To,
The Executive Engineer (Civil)
H.Q. Dn. , C.S.P.T.C.L.
Raipur (C.G.)

Subject :- Test result of Soil Sample for the proposed construction of 132/33 KV S/s Daldalseoni, Raipur (C.G.).

Your Ref.:- Letter No.:- EEC/HQ Dn./1880 Raipur, Dt. - 06/07/19

Sample ID Mark :- Pit No.-02, Depth :- 2.00 m.

Sir,
Vide subject and reference cited above, the test results report is as follows: -

PARTICULAR OF SAMPLES (S) :-

Nature:- Soil Sample (DS)

Sample No.(S) Details:- One sample

Packing/Container :- Poly bags

Dt. of Receipt in the Lab:- 19/07/19

Testing Dt.- 24/07/19

LAB JOB NO. R-1907192		TEST RESULTS		
S. No.	Name of Test	Test Method	Results	Unit
A)	Soil Sample (DS)			
1	LL, PL & PI	As per IS : 2720 (Part V)	As per table 1 below	%
2	Soil Classification	As per IS : 1498-1970	As per table 1 below	
3	Grain Size Analysis	As per IS : 2720 (Part IV)	As per table 2 below	

Table -1

LAB JOB NO. R-1907192			TEST RESULTS		
Sr. No.	% of Fines	Soli Classification	LL	PL	PI
			%	%	%
1	94.20	High Compressible Clay (CH)	56.00	22.54	33.46

Page 1 of 2

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Directorate
MSME No.: CG14E0001811


Sheet 2 of 2

Table -2

LAB JOB NO. R-1907192			TEST RESULTS		
Sr. No.	SIEVE SIZE (MM)	WT. RET.	% OF WT.RET	CUM.WT. RET.	PERCENTAGE FINER (%)
1	4.75	5.0	1.00	1.00	99.00
2	2.0	2.0	0.40	1.40	98.60
3	0.6	3.0	0.60	2.00	98.00
4	0.425	0.0	0.00	2.00	98.00
5	0.075	19.0	3.80	5.80	94.20

LAB JOB NO. R-1907192					TEST RESULTS				
Gravel		Coarse Sand		Medium Sand		Fine Sand		Silt & Clay	
1.00		0.40		0.60		3.80		94.20	


Verified by
(Anshuman Shukla)
(Geotechnical Engineer)


Authorised Signatory
(Arun Bhawe)

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Standardisation Testing
& Quality Certification
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MSME No.: CG14E0001811

TEST REPORT

Date:-25/07/19

T. R. No. MGTL / TRR / R-1907192/001

To,
The Executive Engineer (Civil)
H.Q. Dn. , C.S.P.T.C.L.
Raipur (C.G.)

Subject: - Test result of Safe Bearing Capacity of Soil Sample for the proposed construction of 132/33 KV S/s Daldalseoni, Raipur (C.G.).

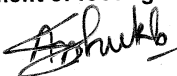
Your Ref.: -Letter No.:- EEC/HQ Dn./1880 Raipur, Dt. - 06/07/19
Sample ID Mark :- Pit No.-01

Dear / Sir,
Vide subject and reference cited above, the test results report is as follows: -

SAFE BEARING CAPACITY OF SOIL BY PLATE LOAD TEST

FIELD & LAB JOB NO: - R-1907192			
Sr. No.	Name of Test	Test Method	Test Results
	Plate Load Test	As per IS:-1888 (RA-2016)	As Below
	PARTICULARS	LOCATION	
		PIT No.-01	
1	Date of Testing	12/07/19	
2	Type Soil	High Compressible Clay (CH)	
3	Depth of Pit (m)	3.00	
4	Field Density (t/m^3)	2.14	
5	Gross Safe Bearing Capacity (t/m^2)	14.00	

Remarks:- 1. This soil is susceptible to longterm consolidation settlement.
2. The S.B.C.has been computed taking 1m x 1m footing size.
3. Settlement of footing at failure pressure is 34.50 mm.


Verified by
(Anshuman Shukla)
(Geotechnical Engineer)


Authorised Signatory
(Arun Bhawe)

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Page 1 of 1

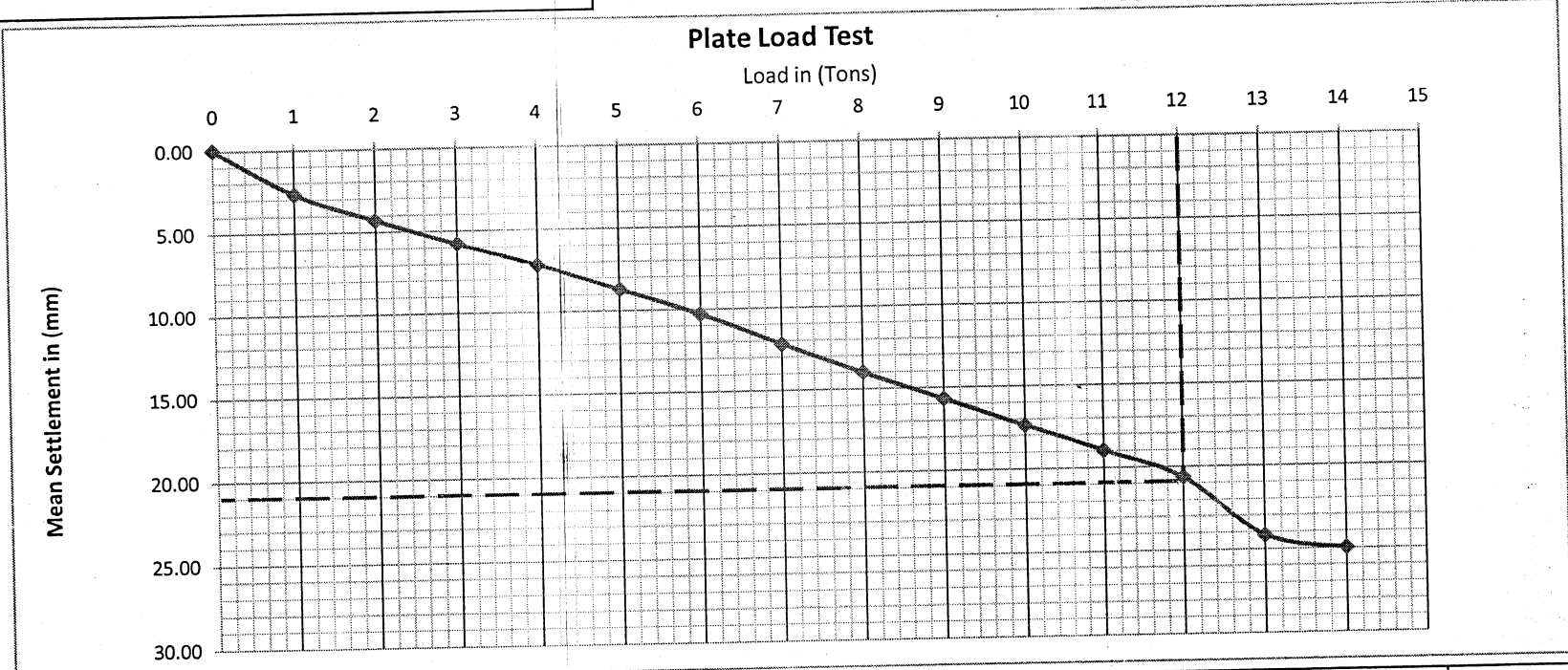


PLATE LOAD TEST (As per IS-1888)

Client Name :-	CSPTCL	MGTL Job No.-	R-1907192/001	Depth :-	3.00	Mtr.	
		Location :-	Gantry	Bulk Density :-	2.14	T/m ³	
Name of Work :-	Proposed construction	Dt of Testing:-	12-07-2019	plate size:-	0.60 X 0.60 m		
		Site Name :-	Dalda Seoni, Raipur	Pit No :-	1		
				Type of soil:- High Compressible Clay (CH)			

PIT NO.- 01


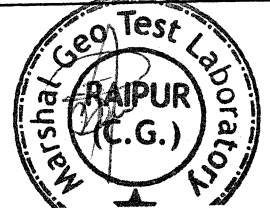
LOAD Ton	Ave. Sett. (mm)
0	0.00
1	2.68
2	4.31
3	5.78
4	7.13
5	8.72
6	10.31
7	12.21
8	14.02
9	15.69
10	17.37
11	18.95
12	20.64
13	24.17
14	25.00



Load failure Load	12.00 Ton	FOS	3	Area of plate	0.360 m ²
Plate Settlement at failure load	20.64 mm	Ultimate Bearing Capacity (q _u)	33.33 T/m ²	Overburden pressure	3.210 T/m ²
		Net Safe Bearing Capacity (q _s)	11.00 T/m ²		
		Gross Safe Bearing Capacity (q _s) _{gross}	14.00 T/m ²		

Remark:

- 1) This Soil is susceptible to long-term Consolidation Settlement.
- 2) The SBC has been computed taking 1m x 1m footing size.
- 3) Settlement of footing at failure pressure is 34.50mm.

Prepared & Check By	Authorised Signatory
	

Calculation for Footing Settlement

So Settlement of Footing at Safe Load Can be Calculated Using the following Formula: IS 1888

PIT NO.- 01

Width of Footing (B)	1	Mtr
Width of Plate (BP)	0.6	Mtr.
Plate Settlement (SP)	20.64	mm.

Settlement Calculation on Sandy Soils

$$S_F = S_p \left\{ \frac{B(B_p + 0.3)}{B_p(B + 0.3)} \right\}^2$$

SF = S_p	$\left\{ \frac{B(B_p + 0.3)}{B_p(B + 0.3)} \right\}^2$	
SF = 20.64	$\left\{ \frac{1(0.60 + 0.3)}{0.60(1 + 0.3)} \right\}^2$	

SF =	20.64	0.9	
		0.78	

SF =	20.64	1.154
------	-------	-------

Permissible Settlement of Footing

SF =	27.48	mm
SF ≈	27.50	mm

Settlement Calculation on Clayey Soils

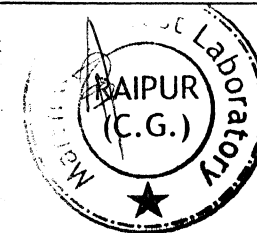
$$SF = S_p \left(\frac{B}{B_p} \right)$$

$$SF = 20.64 \left(\frac{1}{0.6} \right)$$

SF =	20.64	1.67
------	-------	------

Permissible Settlement of Footing

SF =	34.40	mm
SF =	34.50	mm





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Standardisation Testing
& Quality Certification
Directorate
MSME No.: CG14E0001811

Sheet 1 of 2

Date:-25/07/19

T.R. No. / MGTL / TRR / R-1907192/002

To,
The Executive Engineer (Civil)
H.Q. Dn. , C.S.P.T.C.L.
Raipur (C.G.)

Subject :- Test result of Soil Sample for the proposed construction of 132/33 KV S/s Daldalseoni, Raipur (C.G.).

Your Ref.:- Letter No.:- EEC/HQ Dn./1880 Raipur, Dt. - 06/07/19

Sample ID Mark :- Pit No.-01, Depth :- 3.00 m.

Dear Sir,

Vide subject and reference cited above, the test results report is as follows: -

PARTICULAR OF SAMPLES (S) :-

Nature:- Soil Sample (DS)
Sample No.(S) Details:- One sample
Packing/Container :- Poly bags
Dt. of Receipt in the Lab:- 19/07/19

Testing Dt.- 24/07/19

LAB JOB NO. R-1907192		TEST RESULTS		
S. No.	Name of Test	Test Method	Results	Unit
A)	Soil Sample (DS)			
1	LL, PL & PI	As per IS : 2720 (Part V)	As per table 1 below	%
2	Soil Classification	As per IS : 1498-1970	As per table 1 below	
3	Grain Size Analysis	As per IS : 2720 (Part IV)	As per table 2 below	

Table -1

LAB JOB NO. R-1907192			TEST RESULTS		
Sr. No.	% of Fines	Soli Classification	LL	PL	PI
			%	%	%
1	90.80	High Compressible Clay (CH)	54.00	23.13	30.87

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Marshal Geo Test Laboratory

For Testing of Civil Engineering Materials

ISO 9001:2015



Certified By :
Standardisation Testing
& Quality Certification
Directorate
MSME No.: CG14E0001811

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Table -2
LAB JOB NO. R-1907192

		TEST RESULTS			
Sr. No.	SIEVE SIZE (MM)	WT. RET.	% OF WT.RET	CUM.WT. RET.	PERCENTAGE FINER (%)
1	4.75	7.0	1.40	1.40	98.60
2	2.0	9.0	1.80	3.20	96.80
3	0.6	10.0	2.00	5.20	94.80
4	0.425	0.0	0.00	5.20	94.80
5	0.075	20.0	4.00	9.20	90.80

LAB JOB NO. R-1907192

TEST RESULTS				
Gravel	Coarse Sand	Medium Sand	Fine Sand	Silt & Clay
1.40	1.80	2.00	4.00	90.80

Verified by
(Anshuman Shukla)
(Geotechnical Engineer)

Authorised Signatory
(Arun Bhawe)

- 1 Samples Drawn by us, unless otherwise mentioned.
- 2 Samples may be destroyed / Removed away from Laboratory after Testing, unless otherwise particular request is made.
- 3 This report in full or part may not be reproduced, published or used for any legal action unless prior permission is secured from C.E.O. MGTL Raipur. Subject to Raipur Jurisdiction.
- 4 Although Site Name has been mentioned, MGTL is not be responsible for the actual site conditions.
- 5 This report pertains to only sample submitted by client and tested at Raipur Laboratory.

*****END OF REPORT*****

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