

Soil Mechanics Referral Laboratory, MERI, Nashik-4

Government of Maharashtra
(Water Resources Department)



RATE ANALYSIS FOR YEAR 2016-2017

12/13

SOIL MECHANICS REFERRAL LABORATORY
 MAHARASHTRA ENGINEERING RESEARCH INSTITUTE
 NASHIK-422 004.

SECTION - A

Routine and special laboratory tests on Soils for the period (1/7/2016 to 30/6/2017)

Sr No	Name of Test	Unit	Rate for the Govt. of Maharashtra office, for the Year 2016-2017	Rate for other state Govt/Semi Govt. and Private Bodies for the Year 2016-2017
1	2	3	4	5
1	Liquid Limit and Plastic Limit	Sample	2823.00 ✓	5646.00 ✓
2	Shrinkage Limit	"	2820.00 ✓	5640.00 ✓
3	Mechanical Analysis (Sieve)	"	2220.00 ✓	4440.00 ✓
4	Mechanical Analysis (Sedimentation)	"	4081.00 ✓	8162.00 ✓
5	Specific Gravity	"	2482.00 ✓	4964.00 ✓
6	Hygroscopic Moisture Content.	"	641.00 ✓	1282.00 ✓
7	Field Moisture Content.	"	676.00 ✓	1352.00 ✓
8	Centrifuge Moisture Content	"	1520.00 ✓	3040.00 ✓
9	Compaction	"	3352.00 ✓	6704.00 ✓
10	Permeability (Constant head)	"	2945.00 ✓	5890.00 ✓
11	Permeability (Variable head)	"	2771.00 ✓	5542.00 ✓
12	Consolidation	"	13537.00 ✓	27074.00 ✓
13	Direct Shear (6 cm x 6 cm x 2.5 cm)			
	a) Unconsolidated Undrained	"	4803.00 ✓	9606.00 ✓
	b) Consolidated Undrained.	"	8034.00 ✓	12068.00 ✓
	c) i) Consolidated Drained (Slow test)	"	25112.00 ✓	50224.00 ✓
	ii) Consolidated Drained Additional each cycle.	"	9400.00 ✓	18800.00 ✓
14	Direct Shear (30 cm x 30 cm x 15 cm)			
	a) Consolidated Undrained (Quick test)	"	13124.00 ✓	26248.00 ✓
	b) Unconsolidated Undrained.	"	3090.00 ✓	26180.00 ✓
15	Triaxial Shear			
	a) Consolidated Drained	"	33370.00 ✓	66740.00 ✓
	b) Consolidated Undrained (with pore pressure measurement)	"	32115.00 ✓	64230.00 ✓
	c) Consolidated Undrained (without pore pressure measurement)	"	31854.00 ✓	63728.00 ✓
	d) Unconsolidated Undrained	"	11242.00 ✓	22484.00 ✓
16	Unconfined Compression	"	4758.00 ✓	9516.00 ✓
17	Vane Shear.	"	4302.00 ✓	8604.00 ✓

18	Chemical analysis			
	i) Loss in weight		26705.00	53410.00
	ii) Silica as SiO ₂		✓	✓
	iii) K ₂ O ₃ (Fe ₂ O ₃ +Al ₂ O ₃)			
	iv) Fe ₂ O ₃			
	v) CaO			
	vi) MgO			
	vii) Insoluble Residue			
19	Silica Sequioxide Ratio.		✓ 22818.00	45636.00 ✓
20	Calcium content in Lime (By Calimeter)		✓ 3380.00	6760.00 ✓
21	Organic content (H ₂ O ₂ Method)		✓ 2894.00	5388.00 ✓
22	Organic content (Dichromatic method)		✓ 7235.00	✓ 14470.00
23	Loss in Weight due to HCL treatment.		✓ 3307.00	6614.00
24	Maximum & Minimum density (Relative Density)		✓ 3455.00	6910.00 ✓
25	Hill's method (Estimation of pore pressure)		✓ 18584.00	37168.00 ✓
26	Swelling Pressure.		✓ 5371.00	10742.00 ✓
27	Natural Moisture Content and Natural Dry Density		✓ 1454.00	2908.00
28	Angle of Repose of Sand.		✓ 2033.00	4066.00
29	Swelling Pressure. (with SBV 12 apparatus)		✓ 5215.00	10430.00
30	Free Swell index.		✓ 1457.00	2914.00
31	Sand Filter Test.		✓ 31993.00	63986

Notes:

- 1) Service tax will be levied as per Govt.rules on the total bill for private bodies, Semi.Govt Bodies, other State Govt.etc
- 2) The testing charges are to be deposited within two months from the date of issue of the invoice, failing of which the storage charges for the soil samples at the rate of 1 % p.m. on the invoice amount will be applicable for the delayed period.
- 3) As per Govt. Lt. No EIR-1083/300(332) P.T Dated 23/8/1984. rates for private bodies other State Govt. and Semi Govt bodies is charged double

Prepared by :- B.B Tuse (Jr.Engr)

[Signature]
A.P. Purohit
S.R.O.

[Signature]
(D.D.Parkhe)
Scientific Research Officer.

COUNTERSIGNED : Sanctioned for 2015-2017

[Signature]
21-6-10
Superintending Engineer
MERI, Nashik 4.

Approved vide Directorate No (Marathi):- महाराष्ट्र शासन, वस्त्रसुकी-२०१५-१६ / मृदापेप / का.प्र. विभाग / ५१०/२०१६
सन २०१६, दि. १४/०६/२०१६

SOIL MECHANICS REFERRAL LABORATORY
MAHARASHTRA ENGINEERING RESEARCH INSTITUTE
NASHIK-422 004

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SECTION - B

Routine and special laboratory tests on soils for the period (1/7/2016 to 30/6/2017)

Sr No	Name of Test	Unit	Rate for the Govt. of Maharashtra office for the Year 2016-2017	Rate for other state Govt/Semi Govt. and Private Bodies for the Year 2016-2017.
1	2	3	4	5
1	Field Classification	Sample	✓ 513.00	✓ 1026.00
2	Field Density			
	a) Sand replacement method or core cutter method	-----"	✓ 2033.00	4066.00
	b) Water displacement method	-----"	✓ 3677.00	7154.00
3	Standard Penetration			
	a) 0 to 3 meter depth	-----"	✓ 4950.00	9900.00
	b) 3 to 6 meter depth	-----"	✓ 8115.00	12230.00
	c) 6 to 10 meter depth and up to 15 meter depth	-----"	✓ 11948.00	23896.00
4	Vane Shear (Field)			
	a) 0 to 3 meter depth	-----"	✓ 5654.00	11308.00
	b) 3 to 6 meter depth and up to 15 meter depth.	-----"	✓ 10931.00	21862.00
5	Vane Shear by Vane Boring machine			
	a) 0 to 3 meter depth	-----"	✓ 1567.00	✓ 3134.00
	b) 3 to 15 meter depth	-----"	✓ 1687.00	✓ 3174.00
	c) 15 to 30 meter depth.	-----"	✓ 1673.00	✓ 3346.00
6	Plate Bearing test.		✓ 31844.00	✓ 63288.00
7	Field Permeability by Clay plug method.		✓ 9839.00	✓ 18678.00
8	Field Permeability test by Trapezoidal pit method		✓ 7215.00	✓ 14430.00
9	Miniature Cone Penetration test			
	a) 0 to 3 meter depth.	-----"	✓ 2372.00	✓ 4744.00
	b) 3 to 6 meter depth.	-----"	✓ 4705.00	✓ 9414.00
	c) 6 to 9 meter depth.	-----"	✓ 7070.00	✓ 14140.00

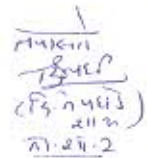
NOTE.

1. Additional transport charges for all the tests whenever incurred shall be paid by the party requiring tests to be carried out.
2. All the charges are excluding those for mazdoors required on field and field assistance.
3. As per Govt. Lr. No EIR-1083/300(332) PT Dated 23/8/1984, rates for private bodies, other state Govt. and Semi- Govt. bodies is charged double.
4. Service tax will be levied as per Govt. rates on the total bill for private bodies, Semi Govt. Bodies other State Govt. etc.

Prepared By  B.B. Tuse (Jr. Engr.)


A.P. Patil
A.R.O.


(D.D. Parkhe)
Scientific Research Officer.



COUNTER SIGNED Sanctioned for 2016-2017


V.G. Kulkarni
SDE


Superintending Engineer
M.E.R.I. Nashik-4

Approved vide Directorate No (Marathi) - सअसस/संसा/- दरमुची-२०१६-२०१७/म्युकास/म/म/स.काशी ७१०/२४९६
सन २०१६, दि. १०/०६/२०१६

SOIL MECHANICS REFERRAL LABORATORY
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SECTION - C

Rates and special laboratory tests on soils for the period (1/7/2016 to 30/6/2017)

Sr No	Name of Test	Unit	Rate for the Govt. of Maharashtra office, for the Year 2016-2017	Rate for other state Govt/Semi Govt. and Private Bodies for the Year 2016-2017.
1	2	3	4	5
1	Undisturbed Sampling by Chunk method	Sample	✓ 2706.00	5412.00 ✓
2	Undisturbed sampling 3.8 cm dia.			
	a) 0 to 3 meter depth	"	✓ 1144.00	2288.00
	b) 3 to 6 meter depth	"	✓ 1550.00	✓ 3100.00
	c) 6 to 9 meter depth	"	✓ 3258.00	✓ 6516.00
3	Undisturbed sampling 5.08 cm dia.			
	a) 0 to 3 meter depth	"	✓ 1726.00	✓ 3452.00 ✓
	b) 3 to 6 meter depth	"	✓ 3241.00	✓ 6482.00 ✓
	c) 6 to 9 meter depth	"	✓ 6281.00	✓ 12562.00 ✓
4	Undisturbed sampling for 7.62 cm dia or 10.16 cm dia.			
	a) 0 to 3 meter depth	"	✓ 2562.00	✓ 5124.00 ✓
	b) 3 to 6 meter depth and up to 15 meter depth.	"	✓ 4098.00	✓ 8196.00 ✓
5	Soil exploration by post hole auger			
	a) 0 to 3 meter depth	"	✓ 5349.00	✓ 10698.00 ✓
	b) 3 to 6 meter depth	"	✓ 9571.00	✓ 19342.00 ✓
6	Soil exploration by mud bailing			
	a) 0 to 3 meter depth	"	✓ 5182.00	✓ 10364.00 ✓
	b) 3 to 6 meter depth	"	✓ 9363.00	✓ 18726.00 ✓
	c) 6 to 9 meter depth	"	✓ 18782.00	✓ 37564.00 ✓
7	Undisturbed sampling in sand by piston sand sampler for 4.76 cm dia.			
	a) 0 to 3 meter depth	"	✓ 12155.00	✓ 24310.00 ✓
	b) 3 to 6 meter depth	"	✓ 15191.00	✓ 30382.00 ✓
	c) 6 to 9 meter depth	"	✓ 19741.00	✓ 39482.00 ✓
8	Undisturbed sampling in sand by piston sand sampler for 7.30 cm dia.			
	a) 0 to 3 meter depth	"	✓ 13671.00	✓ 27342.00 ✓
	b) 3 to 6 meter depth	"	✓ 18220.00	✓ 36440.00 ✓
	c) 6 to 9 meter depth	"	✓ 22773.00	✓ 45546.00 ✓

NOTE

- 1) Transport charges are to be added whenever incurred.
- 2) All rates are excluding those for mechanics required on field and other field assistance.
- 3) As per Govt. Lr.No EIR- 1083/300(332) P.T. dated 23/6/1984 rates for private bodies, Semi-Govt bodies other state Govt., etc charged double
- 4) Charges for auguring/ boring to be added whenever incurred
- 5) Service tax will be levied as per Govt. rates on the total bill for private bodies, Semi-Govt bodies other State Govt. etc.

Prepared By: S.D. Tuse (Jr. Engr.)

S.D. Tuse
A.R.O.

(D.D.Parkhe)
Scientific Research Officer.

COUNTER SIGNED Sanctioned for 2016-2017

Ram - R
Superintending Engineer
M.E.R.I. Nashik-4

21-6-17

Approved vide Directorate No (Marathi) :- मंत्रालय दि. २०/१६/२०१६ / म्यारेप्रा/ वा. १०८/६-२०/२०१६
 सन २०१६, दि. १०/६/२०१६