Scientific Research Officer

Soil Mechanics Referral Laboratory

Maharashtra Engineering Research Institute (MERI), Nashik-4

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Rate List for Soil Tests: Year 2020-2021

Sr. No.	Name of Test	Rate/Test for Period 1.04.2020 to 31.03.2021	
		Govt. of Maharashtra	Other State Govt./Semi Govt./ Private Bodies
1	Liquid Limit and Plastic Limit	2908	5816
2	Shrinkage Limit	2905	5810
3	Mechanical Analysis (Sieve)	2287	4574
4	Mechanical Analysis (Sedimentation)	4203	8406
5	Specific Gravity	2556	5112
6	Hygroscopic Moisture Content	660	1320
7	Field Moisture Content	696	1392
8	Centrifuge Moisture Content	1566	3132
9	Compaction	3453	6906
10	Permeability (Constant head)	3033	6066
11	Permeability (Variable head)	2854	5708
12	Consolidation	13943	27886
13	Direct Shear (6 cm x 6 cm x 2.5 cm)		
	1. Unconsolidated Undrained	4947	9894
	2. Consolidated Undrained	6215	12430
	3. Consolidated Drained (Slow test)	25865	51730
	4. Consolidated Drained additional each cycle	9682	19364
14	Direct Shear (30 cm x 30 cm x 15 cm)		
	1. Consolidated Undrained (Quick test)	13518	27036
	2. Unconsolidated Undrained.	13483	26966
15	Tri-axial Shear		
	1. Consolidated Drained	34371	68742
	2. Consolidated Undrained (with pore pressure measurement)	33078	66156
	3. Consolidated Undrained (without pore pressure measurement)	32820	65640
	4. Unconsolidated Undrained	11579	23158

16	Unconfined Compression	4901	9802
17	Vane Shear	4431	8862
18	Chemical Analysis: (LOI, SiO_2, $K_2O_3(Fe_2O_3+Al_2O_3)$, Fe_2O_3, CaO, MgO, IR)	27506	55012
19	Silica-Sesquioxide Ratios	23503	47006
20	Calcium Content in Lime (By Calimeter)	3481	6962
21	Organic Content (H_2O_2 Method)	2775	5550
22	Organic Content (Dichromatic method)	7452	14904
23	Loss in Weight due to HCL treatment	3406	6812
24	Maximum & Minimum Density (Relative Density)	3559	7118
25	Half's Method (Estimation of pore pressure)	19142	38284
26	Swelling Pressure	5532	11064
27	Natural Moisture Content and Natural Dry Density	1498	2996
28	Angle of Repose of Sand	2094	4188
29	Swelling Pressure (with SBV 12 apparatus)	5371	10742
30	Free Swell Index	1501	3002
31	Sand Filter Test	32953	65906
32	Field Classification	528	1056
33	Field Density		
	1. Sand Replacement Method or Core Cutter Method	2094	4188
	2. Water Displacement Method	3684	7368
34	Standard Penetration		
	1. 0 to 3 meter depth	5099	10198
	2. 3 to 6 meter depth	6298	12596
	3. 6 to 10 meter depth and up to 15 meter depth	12306	24612
35	Vane Shear (Field)		
	1. 0 to 3 meter depth	5824	11648
	2. 3 to 6 meter depth and up to 15 meter depth	11259	22518

36	Vane Shear by Vane Boring machine		
	1. 0 to 3 meter depth	1614	3228
	2. 3 to 15 meter depth	1635	3270
	3. 15 to 30 meter depth	1723	3446
37	Plate Bearing Test	32593	65186
38	Field Permeability by Clay Plug Method	9619	19238
39	Field Permeability Test by Trapezoidal Pit Method	7431	14862
40	Miniature Cone Penetration Test		
	1. 0 to 3 meter depth	2443	4886
	2. 3 to 6 meter depth	4848	9696
	3. 6 to 9 meter depth	7282	14564
41	Undisturbed Sampling by Chunk Method	2787	5574
42	Undisturbed Sampling 3.8 cm dia,		
	1. 0 to 3 meter depth	1178	2356
	2. 3 to 6 meter depth	1597	3194
	3. 6 to 9 meter depth	3356	6712
43	Undisturbed Sampling 5.08 cm Dia,		
	1. 0 to 3 meter depth	1778	3556
	2. 3 to 6 meter depth	3338	6676
	3. 6 to 9 meter depth	6469	12938
44	Undisturbed Sampling for 7.62 cm dia or 10.16 cm dia		
	1. 0 to 3 meter depth	2639	5278
	2. 3 to 6 meter depth and up to 15 meter depth	4221	8442
45	Soil Exploration By Post Hole Auger		
	1. 0 to 3 meter depth	5509	11018
	2. 3 to 6 meter depth	9961	19922
46	Soil Exploration By Mud Bailing		
	1. 0 to 3 meter depth	5337	10674
	2. 3 to 6 meter depth	9644	19288
	3. 6 to 9 meter depth	19345	38690

47	Undisturbed Sampling in Sand by Piston Sand Sampler for 4.76 cm dia.		
	1. 0 to 3 meter depth	12520	25040
	2. 3 to 6 meter depth	15647	31294
	3. 6 to 9 meter depth	20333	40666
48	Undisturbed Sampling in Sand by Piston Sand Sampler for 7.30 cm dia.		
	1. 0 to 3 meter depth	14081	28162
	2. 3 to 6 meter depth	18767	37533
	3. 6 to 9 meter depth	23456	46912

Note:-

1. Additional transport charges for all the tests whenever incurred shall be paid by the party requiring tests to be carried out.
2. Regarding Field tests all the charges are excluding those for mazdoors required on field and field assistance.
3. As per Govt. Letter No EIR-1083/300(332) PT. Dated 23/8/1984, rates for Private Bodies, Semi- Govt. and Other state Govt. is charged double.
4. GST (from 1.7.2017) will be levied as per Govt. rules on the total bill for Private bodies, Semi Govt. and other State Govt. etc.
5. Charges for auguring/ boring to have added whenever incurred.
6. The testing charges are to be paidpromptly at the time of sample deposition against issue of the invoice.Failing of which, the storage charges for the soil samples at the rate of 1 % per month on the invoice amount will be applicable for the delayed period.

Prepared By	Checked By	Recommended By	Sanctioned By
Research Assistant	Asst. Research Officer /Scientific Officer	Scientific Research Officer	Superintending Engineer

Rate list of soil tests for the year 2020-21 is approved by Superintending Engineer, MERI, Nashik Office Note No. SMRL-..5../2020, Dated ~~25/02/2020~~ 17.3.2020