

GOVERNMENT OF TELANGANA

**TELANGANA STATE ENGINEERING RESEARCH LABORATORIES,
HIMAYATSAGAR, HYDERABAD - 500030.**

**SCHEDULE OF RATES
OF
ENGINEERING MATERIALS LABORATORY**

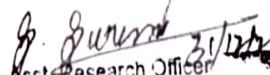
WITH EFFECT FROM : 01-01-2022

**SCHEDULE OF RATES OF ENGINEERING MATERIALS LABORATORY
WITH EFFECT FROM THE YEAR 2021-22**

S.No.	Particulars of the test	Rate for Government Organisation Rs.	Rate for Private Organisation Rs.	Rate for Commercial Organisation Rs.
I. CEMENT (IS:269, 1489):				
1	Standard Consistency	781.00	813.00	807.00
2	Setting Times	1710.00	1780.00	1760.00
3	Casting of standard cubes (For 3 Sets each of 3 No.s)	2450.00	2590.00	2570.00
4	Compressive Strength of standard cubes (For 3 Sets each of 3 No.s)	2250.00	2550.00	2530.00
5	Specific Gravity	1020.00	1070.00	1060.00
6	Fineness	1280.00	1330.00	1320.00
7	Soundness (Le chatlier)	1370.00	1430.00	1420.00
8	Soundness (Auto clave)	1410.00	1510.00	1500.00
II. COARSE AGGREGATE (IS:383, 2386):				
1	Sieve Analysis	1690.00	1740.00	1730.00
2	Specific Gravity & Water Absorption	1020.00	1070.00	1060.00
3	Bulk Density & Voids	1360.00	1400.00	1390.00
4	Crushing Value	2090.00	2200.00	2180.00
5	Impact Value	1540.00	1600.00	1590.00
6	Abrasion Value	1520.00	1640.00	1630.00
7	Soundness (5 Cycles)	2890.00	3140.00	3120.00
8	Flakiness Index	1560.00	1640.00	1630.00
9	Elongation Index	1490.00	1570.00	1560.00
10	Angularity Number	1270.00	1320.00	1310.00
III. FINE AGGREGATE (IS:383, 2386):				
1	Sieve Analysis	1470.00	1540.00	1520.00
2	Specific Gravity & Water Absorption	949.00	1000.00	993.00
3	Bulk Density & Voids	1300.00	1340.00	1330.00
4	Materials finer than 75 micron I.S. Sieve	1300.00	1340.00	1330.00
5	Soundness (5 Cycles)	2310.00	2560.00	2540.00
6	Mortar making properties	2460.00	2590.00	2570.00
IV. POZZOLANAS (IS:1344, 1727):				
1	Casting of Specimens for Compressive Strength (Set of 3 No.s)	814.00	860.00	853.00

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 Asst. Research Officer
 TS Engineering Research Labs
 Himayathsagar, Hyderabad-30

S.No.	Particulars of the test	Rate for Government Organisation Rs.	Rate for Private Organisation Rs.	Rate for Commercial Organisation Rs.
2	Compressive Strength (Set of 3 No.s)	718.00	818.00	812.00
3	Specific Gravity	949.00	1000.00	993.00
4	Fineness	1280.00	1330.00	1320.00
5	Soundness	1130.00	1180.00	1170.00
6	Drying Shrinkage	1740.00	1830.00	1810.00
V. CEMENT CONCRETE (IS:516, 1199):				
1	Cutting 7.5 cm. dia Cores in C.C. (Each)	1520.00	1960.00	1950.00
2	Cutting 10 cm. dia Cores in C.C. (Each)	2360.00	3280.00	3270.00
3	Cutting 15 cm. dia Cores in C.C. (Each)	3920.00	5490.00	5470.00
4	Cutting 7.5 cm. dia Cores in R.C.C. (Each)	1860.00	2400.00	2390.00
5	Cutting 10 cm. dia Cores in R.C.C.(Each)	3280.00	4420.00	4400.00
6	Cutting 15 cm. dia Cores in R.C.C.(Each)	4710.00	6560.00	6540.00
7	Cement capping to C.C. Cores (Each)	567.00	610.00	606.00
8	Casting of Cubes or Cylinders for given proportion (Set of 3 No.s)	1010.00	1170.00	1160.00
9	Compressive Strength of C.C. Cubes or Cylinders (Set of 3 No.s)	897.00	1040.00	1040.00
10	Testing of Beams for Flexure (Set of 3 No.s)	2150.00	2900.00	2880.00
11	Modulus of Elasticity	2540.00	3170.00	3150.00
12	Load Testing of Beams at site (Each)	8650.00	9450.00	9380.00
13	Schmidt Hammer Test for Beams & Columns (Each Location)	1030.00	1130.00	1120.00
14	Schmidt Hammer Test for Slabs (Each Location)	1260.00	1370.00	1360.00
15	Ultra Sonic Testing for Beams & Columns (Each Location)	1290.00	1480.00	1470.00
16	Ultra Sonic Testing for Slabs (Each Location)	1290.00	1480.00	1470.00
17	PS 35 Ferro Detector	1180.00	1260.00	1250.00

S.No.	Particulars of the test	Rate for Government Organisation Rs.	Rate for Private Organisation Rs.	Rate for Commercial Organisation Rs.
18	Concrete Penetrometer (IS:8142)	1910.00	2000.00	1980.00
19	Air Entrainment Meter (IS: 9799)	1820.00	1910.00	1900.00
20	Permeability Test of C.C. Specimens (Set of 3 No.s)	5490.00	5960.00	5920.00
VI. CEMENT CONCRETE BLOCKS (IS:2185):				
1	Cement Capping (Set of 6 No.s)	3480.00	3670.00	3640.00
2	Compressive Strength (Set of 6 No.s)	1680.00	1920.00	1910.00
VII. CEMENT CONCRETE MIX DESIGN (IS:456, 10262):				
	Cement:	4740.00	5070.00	5030.00
	Fine Aggregate:	2510.00	2610.00	2590.00
	Coarse Aggregate:	4610.00	4830.00	4790.00
	Sub Total:	11900.00	12500.00	12400.00
	Concrete:			
	Casting of C.C. Cubes	6090.00	6990.00	6950.00
	Testing of C.C. Cubes for Compression	5380.00	6270.00	6230.00
	Sub Total:	11500.00	13300.00	13200.00
	Total:	23300.00	25800.00	25600.00
	Design of Subsequent Mix	11500.00	13300.00	13200.00
VIII. CEMENT MORTAR MIX DESIGN (IS:2250):				
	Cement:	4740.00	5070.00	5030.00
	Fine Aggregate:	2510.00	2610.00	2590.00
	Sub Total:	7260.00	7680.00	7620.00
	Mortar:			
	Casting of Mortar Cubes	4890.00	5170.00	5130.00
	Testing of Mortar Cubes for Compression	4500.00	5100.00	5070.00
	Sub Total:	9390.00	10300.00	10200.00
	Total:	16600.00	17900.00	17800.00
	Design of Subsequent Mix	9390.00	10300.00	10200.00
IX. STRUCTURAL STEEL BARS, ANGLES, CHANNELS & BEAMS (IS:432, 1786, 2062, 1608, 1599):				
1	Tensile Strength (Each)	1660.00	2070.00	2060.00

S.No.	Particulars of the test	Rate for Government Organisation Rs.	Rate for Private Organisation Rs.	Rate for Commercial Organisation Rs.
2	Tensile Test with Young's Modulus or 0.2% Proof Stress (Each)	2920.00	3610.00	3590.00
3	Cold Bend Test (Each)	923.00	1150.00	1150.00
4	Rebend Test (Each)	1140.00	1450.00	1440.00
5	Pullout Test for Steel Bars for Bond Strength in the Lab (Set of 3 No.s)	3850.00	4550.00	4530.00
6	Pull out Test for Steel bars at site (Each)	2250.00	2520.00	2510.00
7	Making Standard Shaped Specimen from Steel Sections (Each)	2130.00	2310.00	2290.00
X. ROCKS (IS:1121):				
1	Specific Gravity, Water Absorption	1020.00	1070.00	1060.00
2	Compressive Strength (Set of 3 No.s)	1070.00	1200.00	1200.00
3	Transverse Strength (Set of 3 No.s)	1970.00	2650.00	2640.00
4	Shear Strength (Set of 3 No.s)	1970.00	2650.00	2640.00
5	Durability Test	4010.00	4520.00	4490.00
6	Weathering Test	4010.00	4520.00	4490.00
7	Cutting 5 cm. dia & 5 Cm. height Rock Cores (Each)	2370.00	2920.00	2910.00
8	Preparation of 5 cm. size Rock Cubes (Each)	1320.00	1440.00	1430.00
9	Preparation of 5 x 5 x 20 cm. size Beams (Each)	2640.00	2870.00	2850.00
10	Shaping of Stone Cores (Each)	984.00	1100.00	1090.00
XI. BRICKS (IS:1077):				
1	Compressive Strength (Set of 5 No.s)	1680.00	1920.00	1910.00
2	Flexural Strength (Set of 5 No.s)	2100.00	2790.00	2780.00
3	Water Absorption (Set of 5 No.s)	1070.00	1100.00	1100.00
4	Dimensions & Tolerances(Avg. of 20 No.s)	1840.00	1890.00	1870.00
5	Efflorescence (Set of 5 No.s)	1390.00	1460.00	1450.00
XII. TAR & BITUMEN MATERIALS (IS:217, 1201 to 1220):				
1	Specific Gravity	1020.00	1070.00	1060.00
2	Penetration Test	1600.00	1710.00	1700.00

S.No.	Particulars of the test	Rate for Government Organisation Rs.	Rate for Private Organisation Rs.	Rate for Commercial Organisation Rs.
3	Softening Point	1600.00	1710.00	1700.00
4	Ductility	2800.00	3000.00	2980.00
5	Flash Point	2580.00	2750.00	2730.00
6	Standard Viscometer (IS:1206)	2770.00	2940.00	2920.00
7	Loss on Heating	2580.00	2740.00	2720.00
8	Bitumen Content	3040.00	3660.00	3640.00
XIII. CALIBRATIONS:				
1	Calibration of Proving Ring (Up to 50 T Capacity)	2720.00	2840.00	2820.00
2	Calibration of Proving Ring (Above 50 T Capacity)	3800.00	4060.00	4030.00
3	Calibration of Pressure Guage (upto 35 Kg/Sq.cm.)	1470.00	1550.00	1540.00
4	Calibration of Pressure Guage (Above 35 Kg/sq cm)	2280.00	2490.00	2470.00
XIV. ASBESTAS CEMENT PIPES (IS:1592):				
1.	Hydraulic Pressure Test	3190.00	3340.00	3320.00
2.	Transverse Crushing Test	2270.00	2410.00	2390.00
3.	Longitudinal Bending Test	2270.00	2410.00	2390.00
XV. ASBESTAS CEMENT SHEETS (IS:459):				
1	Dimensions & Tolerances (Set of 3 No.s)	1700.00	1740.00	1730.00
2	Load Bearing Capacity (Set of 3 No.s)	1990.00	2170.00	2150.00
3	Water Absorption (Set of 3 No.s)	1070.00	1100.00	1100.00
4	Impermeability Test (Set of 3 No.s)	2610.00	2800.00	2780.00
XVI. ASPHALTIC ROOFING SHEETS:				
1	Dimensions & weights	1700.00	1740.00	1730.00
2	Water Absorption	1070.00	1100.00	1100.00
3	Percolation Test	2610.00	2800.00	2780.00
4	Breaking strength	1730.00	1820.00	1800.00
5	Heat Resistance Test	2510.00	2600.00	2580.00
XVII. BITUMEN FELT (IS:1322):				
1	Breaking strength	1730.00	1820.00	1800.00

S.No.	Particulars of the test	Rate for Government Organisation Rs.	Rate for Private Organisation Rs.	Rate for Commercial Organisation Rs.
2	Pliability Test	1400.00	1490.00	1470.00
3	Storage stiking Test	2550.00	2680.00	2660.00
4	Heat Resistance Test	2510.00	2600.00	2580.00
5	Pressure Head Test	2340.00	2420.00	2400.00
6	Water Absorption	1070.00	1100.00	1100.00
7	Weight	1070.00	1110.00	1100.00
XVIII CEMENT CONCRETE FLOORING TILES (IS:1237):				
1	Dimensions & Tolerances (Set of 12 No.s)	1700.00	1740.00	1730.00
2	Transverse Strength, Wet or Dry (Set of 6 No.s)	2080.00	2210.00	2200.00
3	Water Absorption (Set of 6 No.s)	1070.00	1100.00	1100.00
4	Abrasion Test (Set of 6 No.s)	4010.00	4410.00	4380.00
XIX. CEMENT CONCRETE PIPES (IS:458):				
1	Hydrostatic Pressure Test	3290.00	3410.00	3380.00
2	Dimensions & Tolerances	1700.00	1740.00	1730.00
3	Verification of Reinforcement	2500.00	2590.00	2570.00
4	Three Edge Bearing Test	3020.00	3290.00	3270.00
5	Water Absorption	1070.00	1100.00	1100.00
XX. PRECAST CEMENT CONCRETE MANHOLE COVERS & FRAMES (IS:12592):				
1	Dimensions & Tolerances (Set of 3 No.s)	1700.00	1740.00	1730.00
2	Load Test (Set of 3 No.s)	1990.00	2170.00	2150.00
XXI. STONEWARE PIPES (IS:651):				
1	Hydraulic Pressure Test (Set of 3 No.s)	3180.00	3340.00	3320.00
2	Water Absorption (Set of 3 No.s)	1070.00	1100.00	1100.00
3	Dimensions & Tolerances (Set of 3 No.s)	1700.00	1740.00	1730.00
4	Crushing Strength (Set of 3 No.s)	2080.00	2210.00	2200.00
XXII. TIMBER (IS:2408):				

S.No.	Particulars of the test	Rate for Government Organisation Rs.	Rate for Private Organisation Rs.	Rate for Commercial Organisation Rs.
1	Flexural Strength	1820.00	1910.00	1900.00
2	Compressive Strength (Perpendicular or Parallel to Grains)	1040.00	1140.00	1130.00
3	Moisture Content	1070.00	1100.00	1100.00

XXIII INSPECTION CHARGES (Per Day):				
1	Research Officer	4450.00	4450.00	4450.00
2	Assistant Research Officer	3810.00	3810.00	3810.00
3	Research Assistant	3300.00	3300.00	3300.00
4	Observer	2750.00	2750.00	2750.00
XXIV	Compilation of Charges (Stationery, Typing and Postage etc.,)	600.00	600.00	600.00

Note: Rounding off is done as per Section No. 33 of TS Public Works Department Code.

Sd/-31-12-2021
Director General-WALAMTARI
T.S Engineering Research Labs,

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G. J. Venk
Asst/Research Officer
TS Engineering Research Labs
Himayathsagar, Hyderabad-30

[Signature]
31/12/21