

**SCHEDULE OF RATES OF ENGINEERING MATERIALS LABORATORY
WITH EFFECT FROM THE YEAR 2015-16**

S.No.	Particulars of the test	Rate for Government Organisation (in Rupees)	Rate for Private Organisation (in Rupees)	Rate for Commercial Organisation (in Rupees)
I.	CEMENT (IS:269, 1489):			
1	Standard Consistency	670.00	700.00	690.00
2	Setting Times	1400.00	1450.00	1440.00
3	Casting of standard cubes (For 3 Sets each of 3 No.s)	2180.00	2280.00	2260.00
4	Compressive Strength of standard cubes (For 3 Sets each of 3 No.s)	2050.00	2140.00	2120.00
5	Specific Gravity	910.00	960.00	950.00
6	Fineness	1040.00	1090.00	1080.00
7	Soundness	1040.00	1090.00	1080.00

II.	COARSE AGGREGATE (IS:383, 2386):			
1	Sieve Analysis	1400.00	1440.00	1430.00
2	Specific Gravity & Water Absorption	910.00	960.00	950.00
3	Bulk Density & Voids	1110.00	1140.00	1130.00
4	Crushing Value	1760.00	1850.00	1840.00
5	Impact Value	1400.00	1450.00	1440.00
6	Abrasion Value	1440.00	1510.00	1500.00
7	Soundness (5 Cycles)	2750.00	3000.00	2980.00

III.	FINE AGGREGATE (IS:383, 2386):			
1	Sieve Analysis	1260.00	1310.00	1290.00
2	Specific Gravity & Water Absorption	910.00	960.00	950.00
3	Bulk Density & Voids	1110.00	1140.00	1130.00
4	Materials finer than 75 micron I.S. Sieve	1110.00	1140.00	1130.00
5	Soundness (5 Cycles)	2750.00	3000.00	2980.00
6	Mortar making properties	2400.00	2530.00	2510.00

IV.	POZZOLANAS (IS:1344, 1727):			
1	Casting of Specimens for Compressive Strength (Set of 3 No.s)	730.00	760.00	750.00
2	Compressive Strength (Set of 3 No.s)	680.00	710.00	710.00
3	Specific Gravity	910.00	960.00	950.00
4	Fineness	1040.00	1090.00	1080.00
5	Soundness	1040.00	1090.00	1080.00
6	Drying Shrinkage	1430.00	1500.00	1490.00

V.	CEMENT CONCRETE (IS:516, 1199):			
1	Cutting 7.5 cm. dia Cores in C.C. (Each)	1160.00	1530.00	1520.00
2	Cutting 10 cm. dia Cores in C.C. (Each)	1900.00	2670.00	2660.00

3	Cutting 15 cm. dia Cores in C.C. (Each)	3050.00	4350.00	4340.00
4	Cutting 7.5 cm. dia Cores in R.C.C. (Each)	1500.00	1950.00	1940.00
5	Cutting 10 cm. dia Cores in R.C.C.(Each)	2590.00	3530.00	3520.00
6	Cutting 15 cm. dia Cores in R.C.C.(Each)	3800.00	5340.00	5320.00
7	Cement capping to C.C. Cores (Each)	490.00	520.00	520.00
8	Casting of Cubes or Cylinders for given proportion (Set of 3 No.s)	910.00	970.00	970.00
9	Compressive Strength of C.C. Cubes or Cylinders (Set of 3 No.s)	880.00	980.00	980.00
10	Testing of Beams for Flexure (Set of 3 No.s)	1600.00	1870.00	1860.00
11	Modulus of Elasticity	2220.00	2490.00	2470.00
12	Load Testing of Beams at site (Each)	16990.00	18390.00	18250.00
13	Schmidt Hammer Test for Beams & Columns (Each Location)	950.00	1000.00	990.00
14	Schmidt Hammer Test for Slabs (Each Location)	950.00	1000.00	990.00
15	Permeability Test of C.C. Specimens (Set of 3 No.s)	5900.00	6570.00	6520.00
CEMENT CONCRETE BLOCKS (IS:2185):				
1	Cement Capping (Set of 6 No.s)	2840.00	2990.00	2970.00
2	Compressive Strength (Set of 6 No.s)	1340.00	1510.00	1500.00

VI.	CEMENT CONCRETE MIX DESIGN (IS:456, 10262):			
	Cement:			
1	Standard Consistency	670.00	700.00	690.00
2	Setting Times	1400.00	1450.00	1440.00
3	Casting of standard cubes (For 3 Sets each of 3 No.s)	2180.00	2280.00	2260.00
4	Compressive Strength of standard cubes (For 3 Sets each of 3 No.s)	2050.00	2140.00	2120.00
5	Specific Gravity	910.00	960.00	950.00
6	Fineness	1040.00	1090.00	1080.00
	Fine Aggregate:			
7	Sieve Analysis	1260.00	1310.00	1290.00
8	Specific Gravity & Water Absorption	910.00	960.00	950.00
9	Bulk Density & Voids	1110.00	1140.00	1130.00
10	Materials finer than 75 micron I.S. Sieve	1110.00	1140.00	1130.00
	Coarse Aggregate:			
11	Sieve Analysis	4200.00	4320.00	4290.00
12	Specific Gravity & Water Absorption	910.00	960.00	950.00
13	Bulk Density & Voids	3330.00	3420.00	3390.00
14	Crushing Value	1760.00	1850.00	1840.00
15	Impact Value	1400.00	1450.00	1440.00
16	Abrasion Value	1440.00	1510.00	1500.00
	Sub Total:	25680.00	26680.00	26450.00
	Concrete:			
17	Casting of C.C. Cubes	9100.00	9700.00	9700.00
18	Testing of C.C. Cubes for Compression	8800.00	9800.00	9800.00
	Total:	43580.00	46180.00	45950.00

19	Design of Subsequent Mix	17900.00	19500.00	19500.00
VII.	CEMENT MORTAR MIX DESIGN (IS:2250):			
	Cement:			
1	Standard Consistency	670.00	700.00	690.00
2	Setting Times	1400.00	1450.00	1440.00
3	Casting of standard cubes (For 3 Sets each of 3 No.s)	2180.00	2280.00	2260.00
4	Compressive Strength of standard cubes (For 3 Sets each of 3 No.s)	2050.00	2140.00	2120.00
5	Specific Gravity	910.00	960.00	950.00
6	Fineness	1040.00	1090.00	1080.00
	Fine Aggregate:			
7	Sieve Analysis	1260.00	1310.00	1290.00
8	Specific Gravity & Water Absorption	910.00	960.00	950.00
9	Bulk Density & Voids	1110.00	1140.00	1130.00
10	Materials finer than 75 micron I.S. Sieve	1110.00	1140.00	1130.00
	Sub Total:	12640.00	13170.00	13040.00
	Mortar:			
11	Casting of Mortar Cubes	8720.00	9120.00	9040.00
12	Testing of Mortar Cubes for Compression	8200.00	8560.00	8480.00
	Total:	29560.00	30850.00	30560.00
13	Design of Subsequent Mix	16920.00	17680.00	17520.00

VIII.	STRUCTURAL STEEL BARS, ANGLES, CHANNELS & BEAMS (IS:432, 1786, 2062, 1608,			
1	Tensile Strength (Each)	1400.00	1530.00	1520.00
2	Tensile Test with Young's Modulus or 0.2% Proof Stress (Each)	2280.00	2500.00	2490.00
3	Cold Bend Test (Each)	680.00	760.00	750.00
4	Rebend Test (Each)	870.00	970.00	970.00
5	Pullout Test for Steel Bars for Bond Strength in the Lab (Set of 3 No.s)	3160.00	3720.00	3690.00
6	Pull out Test for Steel bars at site (Each)	1730.00	1830.00	1810.00

IX.	ROCKS (IS:1121):			
1	Specific Gravity, Water Absorption	910.00	960.00	950.00
2	Compressive Strength (Set of 3 No.s)	860.00	950.00	940.00
3	Transverse Strength (Set of 3 No.s)	1600.00	1710.00	1690.00
4	Cutting 5 cm. dia & 5 Cm. height Rock Cores (Each)	1930.00	2390.00	2380.00
5	Preparation of 5 cm. size Rock Cubes (Each)	1080.00	1180.00	1170.00
6	Preparation of 5 x 5 x 20 cm. size Beams (Each)	2150.00	2350.00	2340.00
7	Shaping of Stone Cores (Each)	700.00	800.00	800.00
X	BRICKS (IS 3495, IS:1077):			
1	Compressive Strength (Set of 5 No.s)	1340.00	1510.00	1500.00
2	Flexural Strength (Set of 5 No.s)	1600.00	1710.00	1690.00
3	Water Absorption (Set of 5 No.s)	910.00	940.00	930.00
4	Dimensions & Tolerances(Avg. of 20 No.s)	1280.00	1320.00	1310.00

5	Efflorescence (Set of 5 No.s)	1170.00	1240.00	1230.00
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XI.	TAR & BITUMEN MATERIALS (IS:217, 1201 to 1220):			
1	Specific Gravity	910.00	960.00	950.00
2	Penetration Test	1330.00	1420.00	1410.00
3	Softening Point	1330.00	1420.00	1410.00
4	Ductility	2230.00	2370.00	2350.00
5	Flash Point	1950.00	2080.00	2060.00

XII	CALIBRATIONS:			
1	Calibration of Proving Ring (Up to 50 T Capacity)	2180.00	2280.00	2260.00
2	Calibration of Proving Ring (Above 50 T Capacity)	3000.00	3230.00	3210.00
3	Calibration of Pressure Guage (upto 35 Kg/Sq.cm.)	1230.00	1300.00	1290.00
4	Calibration of Pressure Guage (Above 35 Kg/sq cm)	1840.00	2030.00	2020.00

XIII	INSPECTION CHARGES (Per Day):			
1	Research Officer	3210	3210	3210
2	Assistant Research Officer	2762	2762	2762
3	Research Assistant	2394	2394	2394
4	Observer	1989	1989	1989

XIV	COMPILATION CHARGES:	300	300	300
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