National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)

SCOPE OF ACCREDITATION

Laboratory Name	ARC TESTING LABORATORY, KH.NO.- 42/9/4, VILLAGE - BADLI, NEW DELHI, DELHI, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
Permanent Facility					
1	CHEMICAL- BUILDING MATERIAL	Aggregate	Alkali Aggregate Reactivity	IS 2386 (Part-7), RA 2016: 1963	Qualitative
2	CHEMICAL- BUILDING MATERIAL	Aggregate	Total Sulphate Content	BS 812 (Part-118): 1988	0.01 % to 10 %
3	CHEMICAL- BUILDING MATERIAL	Aggregate	Water Soluble Chloride Content	BS 812 (Part-117): 1988	0.001 % to 0.5 %
4	CHEMICAL- BUILDING MATERIAL	Bitumen	Solubility in Trichloroethylene	IS 1216, RA 2014: 1978	10 % to 100 %
5	CHEMICAL- BUILDING MATERIAL	Concrete Admixture	Ash Content	IS 9103, RA 2013: 1999	2 % to 30 %
6	CHEMICAL- BUILDING MATERIAL	Concrete Admixture	Chloride	IS 6925, RA 2013: 1973	0.03 % to 1.0 %
7	CHEMICAL- BUILDING MATERIAL	Concrete Admixture	Dry Material Content	IS 9103, RA 2013: 1999	2 % to 40 %
8	CHEMICAL- BUILDING MATERIAL	Concrete Admixture	pH Value	IS 9103, RA 2013: 1999	4 to 12
9	CHEMICAL- BUILDING MATERIAL	Concrete Admixture	Relative Density	IS 9103, RA 2013: 1999	1.0 to 1.5
10	CHEMICAL- BUILDING MATERIAL	Fly Ash	Alumina (as Al2O3)	IS 1727, RA 2013: 1967	0.5 % to 30 %
11	CHEMICAL- BUILDING MATERIAL	Fly Ash	Calcium Oxide (as CaO)	IS 1727, RA 2013: 1967	0.5 % to 5 %
12	CHEMICAL- BUILDING MATERIAL	Fly Ash	Ferric Oxide (as Fe2O3)	IS 1727, RA 2013: 1967	0.5 % to 10 %
13	CHEMICAL- BUILDING MATERIAL	Fly Ash	Loss on Ignition	IS 1727, RA 2013: 1967	0.5 % to 10 %

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14	CHEMICAL- BUILDING MATERIAL	Fly Ash	Magnesia (as MgO)	IS 1727, RA 2013: 1967	1.5 % to 7.5 %
15	CHEMICAL- BUILDING MATERIAL	Fly Ash	Reactive Silica	IS 3812 (Part-1): 2013	5.0 % to 50 %
16	CHEMICAL- BUILDING MATERIAL	Fly Ash	Silica (as SiO2)	IS 1727, RA 2013: 1967	10 % to 80 %
17	CHEMICAL- BUILDING MATERIAL	Fly Ash	Sulphuric Anhydride (as SO3)	IS 1727, RA 2013: 1967	0.1 % to 6 %
18	CHEMICAL- BUILDING MATERIAL	Fly Ash	Total Chloride	IS 4032, RA 2019: 1985	0.001 % to 0.5 %
19	CHEMICAL- BUILDING MATERIAL	Hardened Concrete	Chloride	BS 1881 (Part-124): 2015	0.001 % to 0.5 %
20	CHEMICAL- BUILDING MATERIAL	Hardened Concrete	Ratio of Ingredient	ASTM C-1084 & IS 1199, RA 2013: 1959	Qualitative
21	CHEMICAL- BUILDING MATERIAL	Hardened Concrete	Sulphate	BS 1881 (Part-124): 2015	0.01 % to 10 %
22	CHEMICAL- BUILDING MATERIAL	Inhibitor Solution	Chloride Content (as Cl)	BS 1881 (Part-124):2015, IS 6925, RA 2013: 1973	0.001 % to 0.015 %
23	CHEMICAL- BUILDING MATERIAL	Inhibitor Solution	pH Value	IS 9103, RA 2013: 1999	6 to 14
24	CHEMICAL- BUILDING MATERIAL	Inhibitor Solution	Relative Density	IS 9103, RA 2013: 1999	1.00 to 2.00
25	CHEMICAL- BUILDING MATERIAL	Inhibitor Solution	Sulphate Content (as SO3)	BS 1881 (Part-124):2015, IS 3025(Pt 24), RA 2019: 1986	0.001 % to 0.06 %
26	CHEMICAL- BUILDING MATERIAL	Mortar	Chloride	BS 1881 (Part-124): 2015	0.001 % to 0.5 %

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27	CHEMICAL- BUILDING MATERIAL	Mortar	Ratio of Ingredient	ASTM C-1084 & IS 1199, RA 2013: 1959	Qualitative
28	CHEMICAL- BUILDING MATERIAL	Mortar	Sulphate	BS 1881 (Part-124): 2015	0.01 % to 10 %
29	CHEMICAL- BUILDING MATERIAL	Ordinary Portland Cement and Blended Cement (OPC & PPC)	Alumina (as Al2O3)	IS 4032, RA 2019: 1985	1 % to 10 %
30	CHEMICAL- BUILDING MATERIAL	Ordinary Portland Cement and Blended Cement (OPC & PPC)	Calcium Oxide (as CaO)	IS 4032, RA 2019: 1985	30 % to 70 %
31	CHEMICAL- BUILDING MATERIAL	Ordinary Portland Cement and Blended Cement (OPC & PPC)	Chloride (as Cl)	IS 4032, RA 2019: 1985	0.01 % to 0.15 %
32	CHEMICAL- BUILDING MATERIAL	Ordinary Portland Cement and Blended Cement (OPC & PPC)	Ferric Oxide (as Fe2O3)	IS 4032, RA 2019: 1985	1 % to 6 %
33	CHEMICAL- BUILDING MATERIAL	Ordinary Portland Cement and Blended Cement (OPC & PPC)	Insoluble Residue	IS 4032, RA 2019: 1985	0.5 % to 30 %
34	CHEMICAL- BUILDING MATERIAL	Ordinary Portland Cement and Blended Cement (OPC & PPC)	Loss on Ignition	IS 4032, RA 2019: 1985	0.5 % to 6 %
35	CHEMICAL- BUILDING MATERIAL	Ordinary Portland Cement and Blended Cement (OPC & PPC)	Magnesia (as MgO)	IS 4032, RA 2019: 1985	1.0 % to 7.0 %
36	CHEMICAL- BUILDING MATERIAL	Ordinary Portland Cement and Blended Cement (OPC & PPC)	Silica (as SiO2)	IS 4032, RA 2019: 1985	15 % to 35 %

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37	CHEMICAL- BUILDING MATERIAL	Ordinary Portland Cement and Blended Cement (OPC & PPC)	Sulphuric Anhydride (as SO3)	IS 4032, RA 2019: 1985	0.5 % to 5 %
38	CHEMICAL- METALS & ALLOYS	TMT Steel & Structural Steel	Carbon	IS 228 (Part-1), RA 2018: 1987	0.05 % to 2.5 %
39	CHEMICAL- METALS & ALLOYS	TMT Steel & Structural Steel	Manganese	IS 228 (Part-2), RA 2018: 1987	0.2 % to 2.0 %
40	CHEMICAL- METALS & ALLOYS	TMT Steel & Structural Steel	Phosphorus	IS 228 (Part-3), RA 2018: 1987	0.01 % to 0.25 %
41	CHEMICAL- METALS & ALLOYS	TMT Steel & Structural Steel	Silicon	IS 228 (Part-8), RA 2018: 1989	0.10 % to 1.5 %
42	CHEMICAL- METALS & ALLOYS	TMT Steel & Structural Steel	Sulphur	IS 228 (Part-9), RA 2018: 1989	0.01 % to 0.25 %
43	CHEMICAL- SOIL AND ROCK	Bentonite	Gel Formation Index	IS 6186: 1986 RA 2015	Qualitative
44	CHEMICAL- SOIL AND ROCK	Bentonite	pH Value	IS 6186: 1986 RA 2015	5 to 13
45	CHEMICAL- SOIL AND ROCK	Soil	Calcium Carbonate (as CaCO3)	IS 2720 (Part-23), RA 2015: 1976	0.2 % to 8.0 %
46	CHEMICAL- SOIL AND ROCK	Soil	Chloride	IS 4032, RA 2019: 1985	0.01 % to 0.5 %
47	CHEMICAL- SOIL AND ROCK	Soil	Organic Matter	IS 2720 (Part-22), RA 2015: 1972	0.01 % to 1.0 %
48	CHEMICAL- SOIL AND ROCK	Soil	pH Value	IS 2720 (Part-26), RA 2016: 2016	4 to 12
49	CHEMICAL- SOIL AND ROCK	Soil	Silica (as SiO2)	IS 2720 (Part-25): 1982 RA 2015	5 % to 40 %
50	CHEMICAL- SOIL AND ROCK	Soil	Water Soluble Sulphate (as Na2SO4)	IS 2720 (Part-27): 1977	0.01 % to 2.0 %

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51	CHEMICAL- SOIL AND ROCK	Soil	Water Soluble Sulphate (as SO4)	IS 2720 (Part-27): 1977 RA 2015	0.01 % to 2.0 %
52	CHEMICAL- WATER	Water for Construction Purpose	Acidity (volume of 0.02N NaOH used to neutralize 100 ml water)	IS 3025 (Part-22), RA 2019: 1986	0.1 ml to 10 ml
53	CHEMICAL- WATER	Water for Construction Purpose	Alkalinity (volume of 0.02N H2SO4 used to neutralize 100 ml water)	IS 3025 (Part-23), RA 2019: 1986	5 ml to 30 ml
54	CHEMICAL- WATER	Water for Construction Purpose	Chloride	IS 3025 (Part-32): 1988	50 mg/l to 2000 mg/l
55	CHEMICAL- WATER	Water for Construction Purpose	Inorganic Solids	IS 3025 (Part-18): 1984	10 mg/l to 4000 mg/l
56	CHEMICAL- WATER	Water for Construction Purpose	Organic Solids	IS 3025 (Part-18): 1984	10 mg/l to 300 mg/l
57	CHEMICAL- WATER	Water for Construction Purpose	pH Value	IS 3025 (Part-11): 1983	4 to 12
58	CHEMICAL- WATER	Water for Construction Purpose	Sulphate	IS 3025 (Part-24): 1986	10 mg/l to 500 mg/l
59	CHEMICAL- WATER	Water for Construction Purpose	Total Suspended Matter	IS 3025 (Part-17): 1984	5 mg/l to 3000 mg/l
60	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Block Density	IS 6441 (Part-1), RA 2017: 1972	300 kg/m³ to 1000 kg/m³
61	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Compressive Strength	IS 6441 (Part-5), RA 2017: 1972	1 N/mm² to 10 N/mm²

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62	MECHANICAL-BUILDINGS MATERIALS	AAC Block	Dimension (Height)	IS 2185 (Part-3): 1984 RA 2015	40 mm to 250 mm
63	MECHANICAL-BUILDINGS MATERIALS	AAC Block	Dimension (Length)	IS 2185 (Part-3): 1984 RA 2015	200 mm to 700 mm
64	MECHANICAL-BUILDINGS MATERIALS	AAC Block	Dimension (Width)	IS 2185 (Part-3): 1984 RA 2015	100 mm to 400 mm
65	MECHANICAL-BUILDINGS MATERIALS	AAC Block	Drying Shrinkage	IS 6441 (Part-2): 1972 RA 2017	0.0005 % to 0.20 %
66	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208: 1978 RA 2014	1 cm to 100 cm
67	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Elastic Recovery	IS 15462: 2004 RA 2014; Annex A	1 cm to 100 cm
68	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Fire Point	IS 1209, RA 2014: 1978	100 °C to 400 °C
69	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Flash Point	IS 1209, RA 2014: 1978	100 °C to 400 °C
70	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Penetration	IS 1203: 1978 RA 2014	5 (1/10) mm to 300 (1/10) mm
71	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205, RA 2014: 1978	20 °C to 70 °C

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72	MECHANICAL-BUILDINGS MATERIALS	Bituminous Mix	Binder Content	IRC SP-11: 1984 Appendix 5, Clause C	2 % to 10 %
73	MECHANICAL-BUILDINGS MATERIALS	Bituminous Mix	Density	ASTM D2726: 2019	2 gm/cc to 3.5 gm/cc
74	MECHANICAL-BUILDINGS MATERIALS	Bituminous Mix	Marshall Flow value	ASTM D6927: 2015	1 mm to 10 mm
75	MECHANICAL-BUILDINGS MATERIALS	Bituminous Mix	Marshall Stability	ASTM D6927: 2015	2 kN to 25 kN
76	MECHANICAL-BUILDINGS MATERIALS	Bituminous Mix	Stripping Value	IS 6241, RA 2017: 1971	Qualitative
77	MECHANICAL-BUILDINGS MATERIALS	Brick	Compressive Strength	IS 3495 (Part-1), RA 2016: 1992	3 N/mm² to 60 N/mm²
78	MECHANICAL-BUILDINGS MATERIALS	Brick	Dimension (Height)	IS 1077: 1992 RA 2016	1300 mm to 1600 mm
79	MECHANICAL-BUILDINGS MATERIALS	Brick	Water Absorption	IS 3495 (Part-2): 1992 RA 2016	5 % to 30 %
80	MECHANICAL-BUILDINGS MATERIALS	Bricks	Dimension (Length)	IS 1077: 1992 RA 2016	4000 mm to 5000 mm
81	MECHANICAL-BUILDINGS MATERIALS	Bricks	Dimension (Width)	IS 1077: 1992 RA 2016	2100 mm to 2400 mm

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82	MECHANICAL-BUILDINGS MATERIALS	Bricks	Efflorescence	IS 3495 (Part-3), RA 2016: 1992	Qualitative(Visual)
83	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC & PPC)	Compressive Strength	IS 4031 (Part-6), RA 2014: 1988	10 N/mm² to 75 N/mm²
84	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC & PPC)	Consistency	IS 4031 (Part-4): 1988 RA 2014	15 % to 50 %
85	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC & PPC)	Density	IS 4031 (Part-11): 1988 RA 2014	1.8 g/cc to 3.8 g/cc
86	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC & PPC)	Setting Time (Final)	IS 4031 (Part-5): 1988 RA 2014	100 minutes to 650 minutes
87	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC & PPC)	Setting Time (Initial)	IS 4031 (Part-5): 1988 RA 2014	50 minutes to 300 minutes
88	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC & PPC)	Soundness by Autoclave	IS 4031 (Part-3), RA 2014: 1988	0.01 % to 3.0 %
89	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC & PPC)	Soundness by Le-Chatelier's	IS 4031 (Part-3): 1988	0.5 mm to 15 mm
90	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC & PPC)	Specific Surface Area (By Blaine's Method)	IS 4031 (Part-2), RA 2013: 1999	100 m²/kg to 500 m²/kg
91	MECHANICAL-BUILDINGS MATERIALS	Cement Concrete Tiles/Block	Dimension (Length)	IS 1237:2012 & IS 13801: 2013 RA 2017	200 mm to 500 mm

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92	MECHANICAL-BUILDINGS MATERIALS	Cement Concrete Tiles/Block	Dimension (Thickness)	IS 1237:2012 & IS 13801: 2013 RA 2017	15 mm to 50 mm
93	MECHANICAL-BUILDINGS MATERIALS	Cement Concrete Tiles/Block	Dimension (Width)	IS 1237:2012 & IS 13801: 2013 RA 2017	200 mm to 500 mm
94	MECHANICAL-BUILDINGS MATERIALS	Cement Concrete Tiles/Block	Finish	IS 1237, RA 2017:2012 & IS 13801, RA 2017: 2012	Qualitative
95	MECHANICAL-BUILDINGS MATERIALS	Cement Concrete Tiles/Block	Flatness	IS 1237:2012, RA 2017 & IS 13801, RA 2018 Annex B: 2013	0.1 mm to 2.0 mm
96	MECHANICAL-BUILDINGS MATERIALS	Cement Concrete Tiles/Block	Perpendicularity	IS 1237:2012 & IS 13801: 2013 RA 2017 Annex C	0.2 % to 5 %
97	MECHANICAL-BUILDINGS MATERIALS	Cement Concrete Tiles/Block	Resistance to Wear	IS 1237:2012, RA 2017 & IS 13801, RA 2018 Annex G: 2013	1 mm to 10 mm
98	MECHANICAL-BUILDINGS MATERIALS	Cement Concrete Tiles/Block	Straightness	IS 1237:2012 & IS 13801: 2013 RA 2017 Annex D	0.1 % to 2 %
99	MECHANICAL-BUILDINGS MATERIALS	Cement Concrete Tiles/Block	Thickness of Wearing Layer	IS 1237:2012 & IS 13801: 2013 RA 2017 Clause 8.3.2	1 mm to 15 mm
100	MECHANICAL-BUILDINGS MATERIALS	Cement Concrete Tiles/Block	Water Absorption	IS 1237:2012 & IS 13801: 2013 RA 2017 Annex E	2 % to 15 %
101	MECHANICAL-BUILDINGS MATERIALS	Cement Concrete Tiles/Block	Wet Transverse Strength	IS 1237, RA 2017:2012 & IS 13801, RA 2018: 2013	0.5 N/mm² to 25 N/mm²

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102	MECHANICAL-BUILDINGS MATERIALS	Ceramic Tile (Glazed/ Unglazed/ Vitrified)	Breaking Strength	IS 13630 (Part-6): 2006 RA 2017	200 N to 3500 N
103	MECHANICAL-BUILDINGS MATERIALS	Ceramic Tile (Glazed/ Unglazed/ Vitrified)	Crazing Resistance	IS 13630 (Part-9): 2006 RA 2017	Qualitative
104	MECHANICAL-BUILDINGS MATERIALS	Ceramic Tile (Glazed/ Unglazed/ Vitrified)	Dimension (Length)	IS 13630 (Part-1): 2006 RA 2017	100 mm to 1000 mm
105	MECHANICAL-BUILDINGS MATERIALS	Ceramic Tile (Glazed/ Unglazed/ Vitrified)	Dimension (Thickness)	IS 13630 (Part-1): 2006 RA 2017	3 mm to 10 mm
106	MECHANICAL-BUILDINGS MATERIALS	Ceramic Tile (Glazed/ Unglazed/ Vitrified)	Dimension (Width)	IS 13630 (Part-1): 2006 RA 2017	100 mm to 800 mm
107	MECHANICAL-BUILDINGS MATERIALS	Ceramic Tile (Glazed/ Unglazed/ Vitrified)	Modulus of Rupture	IS 13630 (Part-6): 2017	2 N/mm² to 70 N/mm²
108	MECHANICAL-BUILDINGS MATERIALS	Ceramic Tile (Glazed/ Unglazed/ Vitrified)	Resistance to Staining	IS 13630 (Part-8): 2006 RA 2017	Qualitative
109	MECHANICAL-BUILDINGS MATERIALS	Ceramic Tile (Glazed/ Unglazed/ Vitrified)	Scratch Hardness (Mohs)	IS 13630 (Part-13): 2006 RA 2017	1 to 8
110	MECHANICAL-BUILDINGS MATERIALS	Ceramic Tile (Glazed/ Unglazed/ Vitrified)	Surface Quality	IS 13630 (Part-1): 2006 RA 2017	Qualitative
111	MECHANICAL-BUILDINGS MATERIALS	Ceramic Tile (Glazed/ Unglazed/ Vitrified)	Thermal Shock Resistance	IS 13630 (Part-5): 2006 RA 2017	Qualitative

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112	MECHANICAL-BUILDINGS MATERIALS	Ceramic Tile (Glazed/ Unglazed/ Vitrified)	Water Absorption	IS 13630 (Part-2): 2006 RA 2017	0.04 % to 20 %
113	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	10% Fine Value	IS 2386 (Part-4), RA2016, Clause 3.0: 1963	5 ton to 50 ton
114	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 (Part-3): 1963 RA 2016 ; Clause 3.0	1.0 kg/L to 2.0 kg/L
115	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part-4): 1963 RA 2016:; Clause 2.0	5 % to 50 %
116	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part-1): 1963 RA 2016; Clause 5.0	5 % to 50 %
117	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part-1): 1963 RA 2016; Clause 4.0	5 % to 50 %
118	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part-4): 1963 RA 2016 Clause 4.0	5 % to 50 %
119	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Los Angeles Abrasion Value	Is 2386 (Part-4): 1963 RA 2016 Clause 5.3	10 % to 60 %
120	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis	IS 2386 (Part-1): 1963 RA 2016 Clause 2.0	upto to 100 % (63 to 2.36 mm)
121	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Soundness by MgSo4	IS 2386 (Part-5): 1963 RA 2016	0.05 % to 20 %

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122	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Soundness by Na2So4	IS 2386 (Part-5): 1963 RA 2016	0.05 % to 20 %
123	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part-3): 1963 RA 2016 Clause 2.0	1.5 to 3.0
124	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Total Deleterious MaterialMaterial Finer than 75 MicronClay LumpsCoal & Lignite	IS 2386 (Part 1 & 2): 1963 RA 2016	0.2 % to 8.0 %
125	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part-3): 1963 RA RA 2016 Clause 2.0	0.2 % to 5 %
126	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (Part-3): 1963 RA 2016 Clause 3.0	1.0 kg/l to 3.0 kg/l
127	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis	IS 2386 (Part-1): 1963 RA 2016 Clause 2.0	1 % to 100 %
128	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part-3): 1963 RA 2016 Clause 2.0	1.5 to 3.0
129	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Total Deleterious MaterialMaterial Finer than 75 MicronClay LumpsCoal & Lignite	IS 2386 (Part - 1 & 2): 1963 RA 2016	0.2 % to 8.0 %
130	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part-3): 1963 RA 2016 Clause 2.0	0.2 % to 5.0 %

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131	MECHANICAL-BUILDINGS MATERIALS	Fly Ash	Compressive Strength at 28 Days	IS 1727, RA 2013 Clause 10.0: 1967	10 N/mm² to 50 N/mm²
132	MECHANICAL-BUILDINGS MATERIALS	Fly Ash	Fineness by Blaine's Air Permeability	IS 1727, RA 2013 Clause 6.1: 1967	100 m²/kg to 600 m²/kg
133	MECHANICAL-BUILDINGS MATERIALS	Fly Ash	Lime Reactivity	IS 1727, RA 2013 Clause 9.0: 1967	2 N/mm² to 10 N/mm²
134	MECHANICAL-BUILDINGS MATERIALS	Fly Ash	Residue 45 micron by Wet Sieving	IS 1727, RA 2013 Clause 6.2: 1967	0 to 100 %
135	MECHANICAL-BUILDINGS MATERIALS	Fly Ash	Soundness by Autoclave	IS 4031 (Part 3): 1988 RA 2014 Clause 6.0	0.1 % to 1.0 %
136	MECHANICAL-BUILDINGS MATERIALS	Fly Ash	Specific Gravity	IS 1727: 1967 RA 2013 Clause 15.0	1 to 3
137	MECHANICAL-BUILDINGS MATERIALS	Hardened Concrete - Beam	Flexural Strength	IS 516, RA 2013: 1959	1 N/mm² to 10 N/mm²
138	MECHANICAL-BUILDINGS MATERIALS	Hardened Concrete - Cube & Cylinder	Split Tensile Strength	IS 5816, RA 2013: 1999	1 N/mm² to 10 N/mm²
139	MECHANICAL-BUILDINGS MATERIALS	Hardened Concrete Core	Compressive Strength	IS 516, RA2013: 1959	5 N/mm² to 70 N/mm²
140	MECHANICAL-BUILDINGS MATERIALS	Hardened Concrete Cube	Compressive Strength	IS 516, RA 2013: 1959	5 N/mm² to 70 N/mm²

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141	MECHANICAL-BUILDINGS MATERIALS	Precast Concrete Block for Paving	Abrasion Resistance (Dry)	IS 15658, RA 2017 Annex E: 2006	1000 mm³/5000 mm² to 20000 mm³/5000 mm²
142	MECHANICAL-BUILDINGS MATERIALS	Precast Concrete Block for Paving	Abrasion Resistance (Wet)	IS 15658, RA 2017 Annex E: 2006	1000 mm³/5000 mm² to 20000 mm³/5000 mm²
143	MECHANICAL-BUILDINGS MATERIALS	Precast Concrete Block for Paving	Compressive Strength	IS 15658, RA 2017 Annex D: 2006	10 N/mm² to 70 N/mm²
144	MECHANICAL-BUILDINGS MATERIALS	Precast Concrete Block for Paving	Dimension (Length)	IS 15658: 2006 RA 2016 Annex B	100 mm to 400 mm
145	MECHANICAL-BUILDINGS MATERIALS	Precast Concrete Block for Paving	Dimension (Thickness)	IS 15658: 2006 RA 2017 Annex B	20 mm to 100 mm
146	MECHANICAL-BUILDINGS MATERIALS	Precast Concrete Block for Paving	Dimension (Width)	IS 15658: 2006 RA 2017 Annex B	100 mm to 400 mm
147	MECHANICAL-BUILDINGS MATERIALS	Precast Concrete Block for Paving	Flexural Strength/ Breaking Load	IS 15658, RA 2017 Annex G: 2006	1 N/mm² to 20 N/mm²
148	MECHANICAL-BUILDINGS MATERIALS	Precast Concrete Block for Paving	Freeze - Thaw Durability	IS 15658: 2006 RA 2017 Annex H	Qualitative
149	MECHANICAL-BUILDINGS MATERIALS	Precast Concrete Block for Paving	Tensile Splitting Strength	IS 15658: 2006 RA 2017 Annex F	1 N/mm2 to 15 N/mm2
150	MECHANICAL-BUILDINGS MATERIALS	Precast Concrete Block for Paving	Thickness of Wearing Layer	IS 15658: 2006 RA 2017 Clause 6.2.3	2 mm to 15 mm

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151	MECHANICAL-BUILDINGS MATERIALS	Precast Concrete Block for Paving	Visual Inspection	IS 15658: 2006 RA 2017 Clause 7.1	Qualitative
152	MECHANICAL-BUILDINGS MATERIALS	Precast Concrete Block for Paving	Water Absorption	IS 15658: 2006 RA 2017 Annex C	2 % to 10 %
153	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Tube/G. I. Pipe/M. S. Pipe	Dimension	IS 1239 (Part-1), RA 2014: 2004	0.1 mm to 300 mm
154	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Tube/G. I. Pipe/M. S. Pipe	Elongation	IS 1608 (Part-1 & 3): 2018	4 % to 40 %
155	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Tube/G. I. Pipe/M. S. Pipe	Flattening Test	IS 2328: 2018	Qualitative
156	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Tube/G. I. Pipe/M. S. Pipe	Mass Per Meter	IS 1239 (Part-1), RA 2014: 2004	0.5 Kg/m to 100 Kg/m
157	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Tube/G. I. Pipe/M. S. Pipe	Tensile Strength	IS 1608 (Part-1 & 3): 2018	50 N/mm² to 800 N/mm²
158	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel	Bend Test	IS 1599, RA 2017: 2012	Qualitative((Mandrel Diameter: 10, 12, 16, 20, 24, 30, 32, 36, 40, 50, 62, 75, 80, 90, 96 mm))

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159	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel	Elongation	IS 1608 (Part-1 & 3): 2018	5 % to 40 %
160	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel	Mass Per Meter	IS 808, RA 2014: 1989	0.5 Kg/m to 100 Kg/m
161	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel	Tensile Strength	IS 1608 (Part-1 & 3): 2018	50 N/mm² to 800 N/mm²
162	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel	Yield Stress	IS 1608 (Part-1 & 3): 2018	50 N/mm² to 800 N/mm²
163	MECHANICAL-MECHANICAL PROPERTIES OF METALS	TMT Bar/TOR Steel	Bend Test	IS 1599, RA 2017: 2012	Qualitative((Mandrel Diameter:16, 20, 24, 30, 32, 36, 40, 48, 50, 56, 60, 64, 70, 72, 75, 80, 84, 96, 100, 102, 120, 125, 140, 150, 168, 175, 196, 200, 224 mm))
164	MECHANICAL-MECHANICAL PROPERTIES OF METALS	TMT Bar/TOR Steel	Elongation	IS 1608 (Part-1 & 3): 2018	2 % to 50 %
165	MECHANICAL-MECHANICAL PROPERTIES OF METALS	TMT Bar/TOR Steel	Mass Per Meter	IS 1786, RA 2013: 2008	0.1 kg/m to 8.0 kg/m

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166	MECHANICAL-MECHANICAL PROPERTIES OF METALS	TMT Bar/TOR Steel	Rebend Test	IS 1786, RA 2013: 2008	Qualitative((Mandrel Diameter: 32, 40, 48, 50, 56, 60, 70, 72, 84, 96, 108, 112, 120, 140, 144, 150, 168, 175, 180, 196, 225, 252 mm))
167	MECHANICAL-MECHANICAL PROPERTIES OF METALS	TMT Bar/TOR Steel	Tensile Strength	IS 1608 (Part-1 & 3): 2018	50 N/mm² to 900 N/mm²
168	MECHANICAL-MECHANICAL PROPERTIES OF METALS	TMT Bar/TOR Steel	Yield Stress	IS 1608 (Part-1 & 3): 2018	20 N/mm² to 800 N/mm²
169	MECHANICAL- SOIL AND ROCK	Bentonite	Density	ASTM D4380: 2012	0.9 g/cc to 2.0 g/cc
170	MECHANICAL- SOIL AND ROCK	Bentonite	Fineness by Dry Sieve (150 micron & 75 micron)	IS 6186: 1986 RA 2015; Appendix A-6	0 % to 100 %
171	MECHANICAL- SOIL AND ROCK	Bentonite	Fineness by Wet Sieve (150 micron & 45 micron)	IS 6186: 1986 RA 2015 ; Appendix A-6	0 % to 100 %
172	MECHANICAL- SOIL AND ROCK	Bentonite	Free Swell Index	IS 2720 (Part-40): 1977 RA 2016	100 % to 800 %
173	MECHANICAL- SOIL AND ROCK	Bentonite	Liquid Limit	IS 2720 (Part-5): 1985 RA 2015; Clause 3.0	200 % to 600 %
174	MECHANICAL- SOIL AND ROCK	Bentonite	Moisture Content	IS 6186: 1986 RA 2015; Appendix A-2	0.2 % to 15 %

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175	MECHANICAL- SOIL AND ROCK	Bentonite	Sand Content	IS 6186: 1986 RA 2015; Appendix A-9	0.2 % to 5 %
176	MECHANICAL- SOIL AND ROCK	Granular Sub Base / Wet Mix Macadam	California Bearing Ratio	IS 2720 (Part-16): 1987 RA 2016	5 % to 90 %
177	MECHANICAL- SOIL AND ROCK	Granular Sub Base / Wet Mix Macadam	Gradation	IS 2386 (Part-1): 1963 RA 2016	upto to 100 % (75 to 0.075 mm)
178	MECHANICAL- SOIL AND ROCK	Granular Sub Base / Wet Mix Macadam	Heavy Compaction - Maximum Dry Density	IS 2720 (Part-8): 1983 RA 2015	1.5 g/cc to 3.5 g/cc
179	MECHANICAL- SOIL AND ROCK	Granular Sub Base / Wet Mix Macadam	Heavy Compaction - Optimum Moisture Content	IS 2720 (Part-8): 1983 RA 2015	1 % to 20 %
180	MECHANICAL- SOIL AND ROCK	Granular Sub Base / Wet Mix Macadam	Impact Value	IS 2386 (Part-4): 1963 RA 2016 Clause 4.0	5 % to 50 %
181	MECHANICAL- SOIL AND ROCK	Granular Sub Base / Wet Mix Macadam	Liquid Limit	IS 2720 (Part-5): 1985 RA 2015 Clause 3.0	upto to 50 %
182	MECHANICAL- SOIL AND ROCK	Granular Sub Base / Wet Mix Macadam	Los Angeles Abrasion Value	IS 2386 (Part-4): 1963 RA 2016 Clause 5.3	5 % to 50 %
183	MECHANICAL- SOIL AND ROCK	Granular Sub Base / Wet Mix Macadam	Plastic Limit	IS 2720 (Part-5): 1985 RA 2015	upto to 30 %
184	MECHANICAL- SOIL AND ROCK	Rock	Compressive Strength	IS 9143: 1979 RA 2016	1 N/mm2 to 50 N/mm2
185	MECHANICAL- SOIL AND ROCK	Rock	Density	IS 13030, RA 2016 Clause 6.0: 1991	1500 kg/m³ to 3000 kg/m³
186	MECHANICAL- SOIL AND ROCK	Rock	Water Content	IS 13030: 1991 RA 2016 Clause 4.0	0.1 % to 5 %
187	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio (CBR)	IS 2720 (Part-16): 1987 RA 2016	1 % to 60 %
188	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear - Angle of Shearing Resistance	IS 2720 (Part-13): 1986 RA 2016	2 degree to 50 degree

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189	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear - Cohesion Intercept C value	IS 2720 (Part-13), RA 2016: 1986	0 to 0.5 kg/cm²
190	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part-40): 1977 RA 2016	upto % to 600 %
191	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction - Maximum Dry Density	IS 2720 (Part-8): 1983 RA 2015	1 g/cc to 3 g/cc
192	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction - Optimum Moisture Content	IS 2720 (Part-8): 1983 RA 2015	1 % to 20 %
193	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part-5): 1985 RA 2015 Clause 3.0	10 % to 50 %
194	MECHANICAL- SOIL AND ROCK	Soil	Moisture Content	IS 2720 (Part-2): 1973 RA 2015 ; Section 1	0.2 % to 70 %
195	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part-5): 1985 RA 2015	upto to 30 %
196	MECHANICAL- SOIL AND ROCK	Soil	Sieve Analysis	IS 2720 (Part-4): 1985 RA 2015 Clause 4.0	5 % to 100 %
197	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part-3 / Sec-I): 1980 RA 2016	2.0 to 2.90
198	MECHANICAL- SOIL AND ROCK	Stone Granite/Marble	Compressive Strength	IS 1121 (Part-1): 2013 RA 2017	10 N/mm2 to 150 N/mm2
199	MECHANICAL- SOIL AND ROCK	Stone Granite/Marble	Dimension (Length)	IS 1130: 1969 RA 2017	100 mm to 500 mm
200	MECHANICAL- SOIL AND ROCK	Stone Granite/Marble	Dimension (Thickness)	IS 1130: 1969 RA 2017	100 mm to 500 mm
201	MECHANICAL- SOIL AND ROCK	Stone Granite/Marble	Dimension (Width)	IS 1130: 1969 RA 2017	100 mm to 500 mm

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202	MECHANICAL- SOIL AND ROCK	Stone Granite/Marble	Durability	IS 1126: 2013	Qualitative
203	MECHANICAL- SOIL AND ROCK	Stone Granite/Marble	Hardness (Mohs)	IS 13630 (Part-13): 2006 RA 2017	1 to 8
204	MECHANICAL- SOIL AND ROCK	Stone Granite/Marble	Specific Gravity	IS 1124: 1974 RA 2017	2.50 to 3.00
205	MECHANICAL- SOIL AND ROCK	Stone Granite/Marble	Water Absorption	IS 1124: 1974 RA 2017	0.05 % to 1.5 %