CENTRE FOR INSPECTION, TESTING & CERTIFICATION OF MATERIALS-CITCOM

SERVICES AT ANULAB

ACCREDITATION CERTIFICATES & SCOPE FROM NABL

REGISTERED | APPROVED | ACCREDITED

INSPECTION ● TESTING ● CERTIFICATION

ANULAB®

INDUSTRIAL TESTING & ANALYTICAL LABORATORIES

ISO 17025, NABL Accredited Lab Cert. No.: TC-7072

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National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

ANULAB INDUSTRIAL TESTING &ANALYTICAL LABORATORIES

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

212 KM MILESTONE, NH-2, AGRA KANPUR ROAD, NAGLA RAMBAKSH, ETMADPUR, AGRA, UTTAR PRADESH, INDIA

in the field of

TESTING

Certificate Number: TC-7072

Issue Date: 01/04/2020 **Valid Until:** 15/03/2022

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Signed for and on behalf of NABL

N. Venkateswaran
Chief Executive Officer

SCOPE OF ACCREDITATION

Laboratory Name :	ANULAB INDUSTRIAL TESTING & ANALYTICAL LABORATORIES, 212 KM MILESTONE, NH-2, AGRA KANPUR ROAD, NAGLA RAMBAKSH, ETMADPUR, AGRA, UTTAR PRADESH, INDIA		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- BUILDING MATERIAL	Admixture	Ash Content	IS 9103: 1999
2	CHEMICAL- BUILDING MATERIAL	Admixture	Chloride Ion Content	IS 6925: 1973
3	CHEMICAL- BUILDING MATERIAL	Admixture	Dry Material Content	IS 9103: 1999
4	CHEMICAL- BUILDING MATERIAL	Admixture	pH	IS 9103: 1999
5	CHEMICAL- BUILDING MATERIAL	Admixture	Relative Density	IS 9103: 1999
6	CHEMICAL- BUILDING MATERIAL	Cement	Alumina as Al2O3	IS 4032 : 1985
7	CHEMICAL- BUILDING MATERIAL	Cement	Insoluble Residue-IR	IS 4032: 1985
8	CHEMICAL- BUILDING MATERIAL	Cement	Iron as Fe2O3	IS 4032 : 1985
9	CHEMICAL- BUILDING MATERIAL	Cement	Lime as CaO	IS 4032: 1985
10	CHEMICAL- BUILDING MATERIAL	Cement	Loss on Ignition- LOI	IS 4032 : 1985
11	CHEMICAL- BUILDING MATERIAL	Cement	Magnesia as MgO	IS 4032: 1985
12	CHEMICAL- BUILDING MATERIAL	Cement	Silica as SiO2	IS 4032: 1985
13	CHEMICAL- BUILDING MATERIAL	Cement	Sulphuric Anhydried as SO3	IS 4032: 1985

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14	CHEMICAL- BUILDING MATERIAL	Cement	Total Chlorides	IS 4032 , Clause - 4.13: 1985
15	CHEMICAL- BUILDING MATERIAL	Ceramic Tiles	Chemical Resistance	IS 13630 (Part 7 & 8): 2016
16	CHEMICAL- BUILDING MATERIAL	Fly Ash (For road works)	Water Soluble Chlorides	BS 1377 (Part 3): 1990
17	CHEMICAL- BUILDING MATERIAL	Fly Ash (for road works)	Water Soluble Chlorides	IS 2720 (Part 27): 1977
18	CHEMICAL- BUILDING MATERIAL	Fly ash(for road works)	Water Soluble Solids	IRC SP 58: 2001
19	CHEMICAL- BUILDING MATERIAL	Fly Ash(for road works)	Water Soluble Sulphates	BS 1377 (Part 3): 2018
20	CHEMICAL- BUILDING MATERIAL	Fly ash(for road works)	Water Soluble Sulphates	IRC SP 58: 2001
21	CHEMICAL- BUILDING MATERIAL	Fly ash(for road works)	pH Value	IRC SP 58: 2001
22	CHEMICAL- BUILDING MATERIAL	Rock Stone , Coarse & Fine Aggregate	Sulphate as SO3	BS 1377 (Part 3): 2018
23	CHEMICAL- BUILDING MATERIAL	Rock Stone , Coarse & Fine Aggregate	Alkali Aggregate Reactivity	IS 2386(Part 7): 1963
24	CHEMICAL- BUILDING MATERIAL	Rock Stone , Coarse & Fine Aggregate	Deleterious Substances Material	IS 2386 (Part 1): 1963
25	CHEMICAL- BUILDING MATERIAL	Rock Stone , Coarse & Fine Aggregate	Soundness by MgSO4	IS 2386 (Part 5): 1963
26	CHEMICAL- BUILDING MATERIAL	Rock Stone , Coarse & Fine Aggregate	Soundness by Na2SO4	IS 2386 (Part 5): 1963
27	CHEMICAL- BUILDING MATERIAL	Rock Stone , Coarse & Fine Aggregate	Total Chloride as Cl	IS 14959 (Part 2): 2001

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28	CHEMICAL- BUILDING MATERIAL	Rock Stone, Coarse & Fine Aggregate	Calcium Carbonate	BS 1337 (Part 3): 2018
29	CHEMICAL- BUILDING MATERIAL	Rock Stone, Coarse & Fine Aggregate	Sulphate as SO3	IS 4032: 1985
30	CHEMICAL- BUILDING MATERIAL	Rock Stone, Coarse & Fine Aggregate	Total Chloride as Cl	BS 1337 (Part 3) : 2018
31	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Carbon	IS 12308 (Part 11): 1991
32	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Chromium	IS 12308 (Part 8): 1997
33	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Manganese	IS 12308 (Part 10): 1991
34	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Nickel	IS 12308 (Part 7): 1991
35	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Phosphorous	IS 12308 (Part 5): 1991
36	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Silicon	12308 (Part 6): 1991
37	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Sulphur	IS 12308 (Part 2): 1987
38	CHEMICAL- METALS & ALLOYS	Copper Alloys (Brass)	Copper	IS 3685: 1966
39	CHEMICAL- METALS & ALLOYS	Copper Alloys (Brass)	Lead	IS 3685: 1966
40	CHEMICAL- METALS & ALLOYS	Copper Alloys (Brass)	Manganese	IS 3685: 1966
41	CHEMICAL- METALS & ALLOYS	Copper Alloys (Brass)	Nickel	IS 3685: 1966

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42	CHEMICAL- METALS & ALLOYS	Copper Alloys (Brass)	Silicon	IS 3685: 1966
43	CHEMICAL- METALS & ALLOYS	Copper Alloys (Brass)	Tin	IS 3685: 1966
44	CHEMICAL- METALS & ALLOYS	Plain Steel & Alloy Steel	Manganese	ASTM E415: 2017
45	CHEMICAL- METALS & ALLOYS	Plain Steel & Alloy Steel	Phosphorous	ASTM E 415: 2017
46	CHEMICAL- METALS & ALLOYS	Plain Steel & Alloy Steel	Silicon	ASTM E-415: 2017
47	CHEMICAL- METALS & ALLOYS	Plain steel & Alloy Steel	Sulphur	ASTM E415: 2017
48	CHEMICAL- METALS & ALLOYS	Plan Steel & Alloy Steel	Carbon	ASTM E415: 2017
49	CHEMICAL- SOIL AND ROCK	Soils	Calcium Carbonate	IS 2720 (Part 23): 1976
50	CHEMICAL- SOIL AND ROCK	Soils	Organic Matter	IS 2720 (Part 22): 1972
51	CHEMICAL- SOIL AND ROCK	Soils	pH Value	IS 2720 (Part 26): 1987
52	CHEMICAL- SOIL AND ROCK	Soils	Soluble Chlorides	BS 1377 (Part 3): 1990
53	CHEMICAL- SOIL AND ROCK	Soils	Soluble Solids	IS 2720 (Part 21): 1977
54	CHEMICAL- SOIL AND ROCK	Soils	Soluble Sulphates	IS 2720 (Part 27): 1977
55	CHEMICAL- SOIL AND ROCK	Soils	Soluble Sulphates	BS 1377 (Part 3): 2018

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56	CHEMICAL- WATER	Portable Ground Water & Drinking water	pH Value	IS 3025 (Part 11): 1983
57	CHEMICAL- WATER	Potable Ground Water & Drinking Water	Calcium as Ca	IS 3025 (Part 40): 1991
58	CHEMICAL- WATER	Potable Ground Water & Drinking Water	Chloride as Cl	IS 3025 (Part 32): 1988
59	CHEMICAL- WATER	Potable Ground Water & Drinking Water	Magnesium as Mg	IS 3025 (Part 46): 1994
60	CHEMICAL- WATER	Potable Ground Water & Drinking Water	Sulphates as SO4	IS 1325 (Part 24): 1986
61	CHEMICAL- WATER	Potable Ground Water & Drinking Water	Sulphites as SO3	IS 3025 (Part 28): 1986
62	CHEMICAL- WATER	Potable Ground Water & Drinking Water	Total Alkalinity	IS 3025 (Part 23): 1986
63	CHEMICAL- WATER	Potable Ground Water & Drinking Water	Total Dissolved Solids-TDS	IS 3025 (Part 16): 1984
64	CHEMICAL- WATER	Potable Ground Water & Drinking water	Total Hardness	IS 3025 (Part 21): 2009
65	CHEMICAL- WATER	Water for Construction Purposes	Chloride as Cl	IS 3025 (Part 32): 1988

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66	CHEMICAL- WATER	Water for Construction Purposes	Inorganic Solids	IS 3025 (Part 18): 1984
67	CHEMICAL- WATER	Water for Construction Purposes	Organic Solids	IS 3025 (Part 18): 1984
68	CHEMICAL- WATER	Water for Construction Purposes	pH Value	IS 3025 (Part 11): 1983
69	CHEMICAL- WATER	Water for Construction Purposes	Sulphates as SO3	IS 3025 (Part 24): 1986
70	CHEMICAL- WATER	Water for Construction Purposes	Suspended Matter	IS 3025 (Part 17): 1984
71	CHEMICAL- WATER	Water for Construction Purposes	Volume of 0.02N H2SO4 required to Neutralize 100 ml water sample using Mixed Indicator	IS 3025 (Part 23): 1986 & MORTH Vth Revision , Specs - 1010 (a): 2013
72	CHEMICAL- WATER	Water for Construction Purposes	Volume of 0.02N NaOH required to Neutralize 100 ml water sample using Phenolphthalein Indicator	IS 3025 (Part 22): 1986 & MORTH Vth Revision, Specs - 1010(a): 2013
73	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road Marking Material [Hot Applied & Cold Applied]	Glass Beads -Free Flow Test - 4 Hours	AASHTO M 247 : 2013
74	MECHANICAL- BUILDINGS MATERIALS	Retroreflective Signboards and Road Stud	Resistance toTemperature Cycling	ASTM D4280 ,Clause - 9.4.2: 2018

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75	MECHANICAL- BUILDINGS MATERIALS	Anti Stripping Agent	Appearance - Visual	Appendix - 4 ,MORTH V Revision: 2013
76	MECHANICAL- BUILDINGS MATERIALS	Anti Stripping Agent	Flash Point - COC	IS1448 (Part 69): 2013
77	MECHANICAL- BUILDINGS MATERIALS	Anti Stripping Agent	Odour - Smelling	Appendix - 4 MORTH- V Revision: 2013
78	MECHANICAL- BUILDINGS MATERIALS	Anti Stripping Agent	Retained Marshall Stability	ASTM D6927: 2015
79	MECHANICAL- BUILDINGS MATERIALS	Anti Stripping Agent	Specific Gravity at 27°C	IS 1202: 1978
80	MECHANICAL- BUILDINGS MATERIALS	Anti Stripping Agent	Stripping Value	IS 14982 ,Annex D: 2017
81	MECHANICAL- BUILDINGS MATERIALS	Anti Stripping Agent	Water Content	IS 1211 : 1978
82	MECHANICAL- BUILDINGS MATERIALS	Antistripping Agent	Boiling Water Test	ASTM D 3625: 2012
83	MECHANICAL- BUILDINGS MATERIALS	Antistripping Agent	Pour Point	IS 1448 (Part 10/ Sec 2): 2013
84	MECHANICAL- BUILDINGS MATERIALS	Antistripping Agent	Retained Stability-Indirect Tensile Strength Ratio	IS 14982, Annex E: 2017
85	MECHANICAL- BUILDINGS MATERIALS	Antistripping Agent	Solubility in Diesel Oil	IS 14982, Annex A: 2017
86	MECHANICAL- BUILDINGS MATERIALS	Antistripping Agent	Stripping Value	IS 6241: 1971
87	MECHANICAL- BUILDINGS MATERIALS	Antistripping Agent	Thermal Stability at 163 °C- 24 Hours	IS 14982, Annex - B/D/E: 2017

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88	MECHANICAL- BUILDINGS MATERIALS	Antistripping Agent	Under Water Coating Test	IS 14982, Annex - C: 2017
89	MECHANICAL- BUILDINGS MATERIALS	Antistripping Agent	Water Content	IS 1448 (Part 40): 2015
90	MECHANICAL- BUILDINGS MATERIALS	Antistripping Agents	Retained Stability- Indirect Tensile Strength Ratio	Appendix- 4, MORTH Vth Revision : 2013
91	MECHANICAL- BUILDINGS MATERIALS	Antistripping Agents	Solubility in Diesel Oil	Appendix-4, MORTH Vth Revision : 2013
92	MECHANICAL- BUILDINGS MATERIALS	Antistripping Agents	Under Water Coating Test as per MORTH Specifications	IS 6241: 1971
93	MECHANICAL- BUILDINGS MATERIALS	Bitumem	Foaming at 175°C	IS 73: 2013; Clause 6.1
94	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Coagulation of Emulsion	IS 8887: 2018; Annex C
95	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Coating Ability & Water Resistance	IS 8887: 2018, Annex F
96	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Distillation % by Volume	IS 1448 (Part 18): 1991
97	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Miscibility with Water	IS 8887: 2018, Annex H
98	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Particle Charge	IS 8887: 2018, Annex E
99	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Residue by Evaporation	IS 8887: 2018, Annex J
100	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Residue on 600 micron Sieve	IS 8887: 2018; Annex B

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101	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Saybolt Furol Viscosity	IS 3117: 2004
102	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Stability to Mixing with Cement	IS 8887: 2018, Annex G
103	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Storage Stability after 24 h	IS 8887: 2018, Annex D
104	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsions	Distillation % by Volume	IS 1213: 1978
105	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Binder Content by Centrifuge Extraction	IRC SP 11: 1984; Appendix 5, Cl. C
106	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Binder Content by Centrifuge Extraction Method	ASTM D2172: 2017
107	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Binder Content by Ignition Method	ASTM D6307: 2019; Method B
108	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Indirect Tensile Strength	ASTM D6931: 2017
109	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Marshall Stability	ASTM D6927: 2015
110	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Recovery of Asphalt from Solution using Rotary Evaporator	ASTM D5404: 2012
111	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Resilient Modulus	BS EN 12697 (Part 26): 2018
112	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Resilient Modulus	ASTM D 4123: 1982 (Withdrawn)
113	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Resilient Modulus (MR Value)	IRC 37: 2018

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114	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Resistance to Plastic Flow	ASTM D5581: 2007
115	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Resistance to Plastic Flow	AASHTO T 245: 2015
116	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix	Retained Tensile Strength	AASHTO T 283: 2014
117	MECHANICAL- BUILDINGS MATERIALS	Bricks	Compressive Strength	IS 3495 (Part 1): 2019
118	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimensions- Height of 20 No	IS 12894 clause 6.2.1: 2002
119	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimensions-Length of 20 No	IS 1077 clause 6.2.1: 1992
120	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimensions-Width of 20 No	IS 13757 clause 6.2.1: 1993
121	MECHANICAL- BUILDINGS MATERIALS	Bricks	Efflorescence Test	IS 3495 (Part 3): 2019
122	MECHANICAL- BUILDINGS MATERIALS	Bricks	Warpage Test	IS 3495 (Part 4): 2019
123	MECHANICAL- BUILDINGS MATERIALS	Bricks	Water Absorption	IS 3495 (Part 2): 2019
124	MECHANICAL- BUILDINGS MATERIALS	Cement	Compressive Strength	IS 4031 (Part 6): 1988
125	MECHANICAL- BUILDINGS MATERIALS	Cement	Consistency Test	IS 4031 (Part 4): 1988
126	MECHANICAL- BUILDINGS MATERIALS	Cement	Final Setting Time	IS 4031 (Part 5): 1988
127	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness by Blaine's Air Permeability Method	IS 4031 (Part 2): 1999

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128	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness by Dry Sieving	IS 4031 (Part 1): 1996
129	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness Wet Sieving	IS 4031 (Part 15): 1991
130	MECHANICAL- BUILDINGS MATERIALS	Cement	Initial Setting Time	IS 4031 (Part 5): 1988
131	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness by Autoclave Method	IS 4031 (Part 3): 1988
132	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness by Le-Chateliers Method	IS 4031 (Part 3): 1988
133	MECHANICAL- BUILDINGS MATERIALS	Cement	Specific Gravity	IS 4031 (Part 11): 1988
134	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Tiles	Dimension Test	IS 1237: 2012; Cl. 7.0
135	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Tiles	Flatness of Tile Surface	IS 1237: 2012; Annex B
136	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Tiles	Perpendicularity	IS 1237: 2012, Annex C
137	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Tiles	Resistance to Wear	IS 1237: 2012; Annex G
138	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Tiles	Straightness	IS 1237: 2012 Annex D
139	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Tiles	Water Absorption - WA	IS 1237: 2012; Annex E
140	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Tiles	Wet Transverse Strength	IS 1237: 2012; Annex F
141	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Breaking Strength	IS 13630 (Part 6): 2019

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142	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Bulk Density	IS 13630 (Part 2): 2019
143	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Coefficient of Friction- British Pendulum Tester	ASTM E303 : 1993
144	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Crazing Resistance(Glazed Tiles)	IS 13630 (Part 9) : 2019
145	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Dimensions	IS 13630 (Part 1): 2019
146	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Linear Thermal Expansion	IS 13630 (Part 4) : 2019
147	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Modulus of Rupture	IS 13630 (Part 6): 2019
148	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Moisture Expansion	IS 13630 (Part 3) : 2019
149	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Resistance to Acid and Alkalis (Glazed/ Unglazed)	IS 13630 (Part 7 & 8): 2019
150	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Resistance to Household Chemicals (Glazed/ Unglazed)	IS 13630 (Part 7 & 8): 2019
151	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Scratch Hardness of Surface (Moh's Scale)	IS 13630 (Part 13): 2019
152	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Stain Resistance (Glazed Tiles)	IS 13630 (Part 7 & 8): 2019
153	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Surface Quality	IS 13630 (Part 1): 2019
154	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Thermal Shock Resistance	IS 13630 (Part 5): 2019

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155	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Water Absorption	IS 13630 (Part-2): 2019
156	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Deleterious Material	IS 2386 (Part 2): 1963
157	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 5640: 1970
158	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Mastic Hardness Number	IS 1195: 2002 Annex E
159	MECHANICAL- BUILDINGS MATERIALS	Coarse aggregate	Polished Stone Value	BS 812 (Part 114): 1989
160	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Polished Stone Value	ASTM E303: 1993
161	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Resistance to Wear by Micro-Deval Machine	BS EN 1097-1: 2011
162	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3): 1963
163	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 3): 1963
164	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Abrasion Value by Los Angeles Machine	IS 2386 (Part 4): 1963
165	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Bulk Density	IS 2386 (Part 3): 1963
166	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Combined Flakiness & Elongation Indices	IS 2386 (Part 1): 1963
167	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Crushing Value	IS 2386 (Part 4): 1963
168	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Elongation Index	IS 2386 (Part 1): 1963

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169	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Flakiness Index	IS 2386 (Part 1): 1963
170	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Fractured Faces	ASTM D 5821: 2013 (2017)
171	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Impact Value	IS 2386 (Part 4): 1963
172	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Materials Finer than 75 micron	IS 2386 (Part 1): 1963
173	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Petrographic Examination	IS 2386 (Part 8): 1963
174	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Polished Stone Value	EN 14231: 2003
175	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Polished Stone Value	EN 1097-8: 2009
176	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Sieve Analysis (4.75 to 100 mm)	IS 2386 (Part 1): 1963
177	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Stripping Value	IS 6241: 1971
178	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Ten Percent Fines Value	BS 812 (Part 111): 1990
179	MECHANICAL- BUILDINGS MATERIALS	Concrete Kerb	Angle of Kerb	IS 5758: 1984
180	MECHANICAL- BUILDINGS MATERIALS	Concrete Kerb	Compressive Strength by Core	IS 516 (Part 4): 2018
181	MECHANICAL- BUILDINGS MATERIALS	Concrete Kerb	Height of Kerb	IS 5758: 1984
182	MECHANICAL- BUILDINGS MATERIALS	Concrete Kerb	Mass of Kerb	IS 5758: 1984

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183	MECHANICAL- BUILDINGS MATERIALS	Concrete Kerb	Thickness of Kerb	IS 5758: 1984
184	MECHANICAL- BUILDINGS MATERIALS	Concrete Kerb	Water Absorption - 10 minutes	IS 5758 (Appendix - B): 1984
185	MECHANICAL- BUILDINGS MATERIALS	Concrete Kerb	Water Absorption - 24 Hours	IS 5758 (Appendix - B): 1984
186	MECHANICAL- BUILDINGS MATERIALS	Concrete Kerb	Width of Kerb	IS 5758: 1984
187	MECHANICAL- BUILDINGS MATERIALS	Curing Compound	Day Light Reflectance	ASTM E1347 : 2006
188	MECHANICAL- BUILDINGS MATERIALS	Curing Compound	Density at 27°C	ASTM D1217: 2015
189	MECHANICAL- BUILDINGS MATERIALS	Curing Compound	Long Term Setting Properties	ASTM D869: 1985
190	MECHANICAL- BUILDINGS MATERIALS	Curing Compound	Long Term Setting Properties	ASTM D130 : 2019
191	MECHANICAL- BUILDINGS MATERIALS	Curing Compound	Non Volatile Content	ASTM D2369: 2010
192	MECHANICAL- BUILDINGS MATERIALS	Curing Compound	Surface Drying Time	ASTM C 309: 2019
193	MECHANICAL- BUILDINGS MATERIALS	Curing Compound	Water Retention Efficiency Index	BS 7542: 1992
194	MECHANICAL- BUILDINGS MATERIALS	Curing Compound	Water Retention Efficiency Index	ASTM C156: 2017
195	MECHANICAL- BUILDINGS MATERIALS	Curing Compound	Water Retention in 72 hours	ASTM C 156: 2017

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196	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates [Sand/ Crushed stone/ M Sand]	Bulk Density	IS 2386 (Part 3): 1963
197	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates [Sand/ Crushed stone/ M Sand]	Materials Finer than 75 micron	IS 2386 (Part 1): 1963
198	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates [Sand/ Crushed stone/ M Sand]	Mortar Making Properties	IS 2386 (Part 6): 1963
199	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates [Sand/ Crushed stone/ M Sand]	Petrographic Examination	IS 2386 (Part 8): 1963
200	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates [Sand/ Crushed stone/ M Sand]	Sand Equivalent Value	IS 2720 (Part 37): 1976
201	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates [Sand/ Crushed stone/ M Sand]	Sieve Analysis (0.075 to 10 mm)	IS 2386 (Part 1): 1963
202	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates [Sand/ Crushed stone/ M Sand]	Specific Gravity	IS 2386 (Part 3): 1963
203	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates [Sand/ Crushed stone/ M Sand]	Water Absorption	IS 2386 (Part 3): 1963
204	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates[Sand/Crused Stone/M Sand	Deleterious Substances Material	IS 2386 (Part 2): 1963
205	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete Mix	Compaction Factor	IS 1199 (Part 6): 2018

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206	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete Mix	Density	IS 1199 (Part 3): 2018
207	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete Mix	Slump-Consistency	IS 1199 (Part 2): 2018
208	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Compressive Strength-Core	IS 516 (Part 4): 2018
209	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Compressive Strength-Cube/Cylinder	IS 9013: 1978
210	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Compressive Strength-Cube/Cylinder	IS 516: 1959
211	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Depth of Water Penetration under water Pressure	IS 516 (Part 2 / Sec 1): 2018
212	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Flexural Strength- Beam	IS 516: 1959
213	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Water Absorption	BS 1881 (Part 122): 2011
214	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Water Permeability [Dia: 150mm; H:150mm]	Specifications for Road and Bridge Works (MORTH): 2013, Clause 1717.7.5
215	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Water Permeability [Dia: 150mm; H:150mm]	DIN 1048 (Part 5): 1991 (Withdrawn)
216	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Water Permeability [Dia: 200mm; H: 120mm]	IRS Concrete Bridge Code: 1997; Appendix G
217	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen [PMB/CRMB/ NRMB/HiMA]	Complex Modulus G* at 76 °C with 1mm Gap & 25 mm Plate	AASHTO T315: 2019

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218	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen [PMB/CRMB/ NRMB/HiMA]	Complex Modulus G* at 76 °C with 1mm Gap & 25 mm Plate	ASTM D7175: 2015
219	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen [PMB/CRMB/ NRMB/HiMA]	Complex Modulus G* at 76 °C with 1mm Gap & 25 mm Plate	IS 15462: 2019
220	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen [PMB/CRMB/ NRMB/HiMA]	Phase Angle (Sin Delta)-DSR with 1 mm Gap & 25 mm Plate	AASHTO T315: 2019
221	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen [PMB/CRMB/ NRMB/HiMA]	Phase Angle (Sin Delta)-DSR with 1 mm Gap & 25 mm Plate	IS 15462: 2019
222	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen [PMB/CRMB/ NRMB/HiMA]	Phase Angle (Sin Delta)-DSR with 1 mm Gap & 25 mm Plate	ASTM D7175: 2015
223	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen [PMB/CRMB/ NRMB/HiMA]	Thin Film Rolling Test-[TFOT]	IS 15799: 2008
224	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen [PMB/CRMB/ NRMB/HiMA]	Thin Film Rolling Test-[TFOT]	ASTM D2872: 2019
225	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen [PMB/CRMB/ NRMB/HiMA]	Complex Modulus G* at 76 °C with 1mm Gap & 25 mm Plate	Annex 1, IRC: SP:53 : 2010
226	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen [PMB/CRMB/ NRMB/HiMA]	Complex Modulus G* at 76 °C with 1mm Gap & 25 mm Plate	ASTM D7405: 2015
227	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen [PMB/CRMB/ NRMB/HiMA]	Increase in Softening Point [TFOT Residue]	IS 1205 : 1978

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228	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen [PMB/CRMB/NRMB/HiMA/]	Phase Angle (Sin Delta)- DSR with 1 mm Gap & 25 mm Plate	Annex 1,IRC :SP:53 : 2010
229	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen [PMB/CRMB/NRMB/HiMA/]	Phase Angle (Sin Delta)- DSR with 1 mm Gap & 25 mm Plate	ASTM D7405: 2015
230	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen [PMB/CRMB/NRMB/HiMA]	Separation Test- (R&B) in °C	IS 15642: 2019
231	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen [PMB/CRMB/NRMB/HiMA]	Separation Test- (R&B) in °C	AASHTO T315: 2019
232	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen [PMB/CRMB/NRMB/HiMA]	Separation Test- (R&B) in °C	ASTM D7175: 2015
233	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen [PMB/CRMB/NRMB/HiMA]	Shear Modulus (G*/sin Delta) at 1 mm Gap & 25 mm Plate	ASTM D7175: 2015
234	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen [PMB/CRMB/NRMB/HiMA]	Shear Modulus (G*/sin Delta) at 1 mm Gap & 25 mm Plate	IS 15462: 2019
235	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen [PMB/CRMB/NRMB/HiMA]	Shear Modulus (G*/sin Delta) at 1 mm Gap & 25 mm Plate	AASHTO T315: 2019
236	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen [PMB/CRMB/NRMB/HiMA]	Shear Modulus (G*/sin Delta) at 1 mm Gap & 25 mm Plate	ASTM D7405: 2015
237	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen [PMB/CRMB/NRMB/HiMA]	Elastic Recovery at 25°C	Annexure-4,IRC : SP : 53: 2010

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238	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen [PMB/CRMB/NRMB/HiMA]	Reduction in Penetration at 25°C	IS 1203 : 1978
239	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen [PMB/CRMB/NRMB/HiMA]	Shear Modulus(G* / Sin Delta) with 1mm Gap & 25mm Plate	Annex 1,IRC:SP:53: 2010
240	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen [PMB/CRMB/NRMB/HiMA]	Elastic Recovery at 15 °C	IS 15462, Annex 2: 2019
241	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen [PMB/CRMB/NRMB/HiMA]	Elastic Recovery at 15°C	IRC: SP: 53: 2010
242	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen [PMB/CRMB/NRMB/HiMA]	Flash Point by COC	IS 1448 (Part 69): 2013
243	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen [PMB/CRMB/NRMB/HiMA]	FRAASS Breaking Point	IS 9381: 1979
244	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen [PMB/CRMB/NRMB/HiMA]	Loss in Mass - [TFOT Residue]	IS 9382: 1979
245	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen [PMB/CRMB/NRMB/HiMA]	Mineral Matter Ash	IS 1217: 1978
246	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen [PMB/CRMB/NRMB/HiMA]	Penetration Test 25°C	IS 1203 : 1978
247	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen [PMB/CRMB/NRMB/HiMA]	Separation Test - (R&B) in°C	Annex 1, IRC:SP:53: 2010

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248	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen [PMB/CRMB/NRMB/HiMA]	Separation Test- (R&B) in °C	ASTM D7405: 2015
249	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen [PMB/CRMB/NRMB/HiMA]	Softening Point - (R&B)	IS 1205: 1978
250	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen [PMB/CRMB/NRMB/HiMA]	Specific Gravity	IS 1202: 1978
251	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen [PMB/CRMB/NRMB/HiMA]	Thin Film Rolling Test - [TFOT]	IS 9382: 1979
252	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen [PMB/CRMB/NRMB/HiMA]	Viscosity at 150°C	IS 1206 (Part 2): 1978
253	MECHANICAL- BUILDINGS MATERIALS	Modified Bitumen [PMB/CRMB/NRMB/HiMA]	Water Content Test	IS 1211: 1978
254	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Abrasion Resistance	IS 15658: 2006; Annex G
255	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Breaking Load	IS 15658: 2006; Annex F
256	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Compressive Strength	IS 15658: 2006; Annex D
257	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Dimensions Test	IS 15658: 2006: Annex B
258	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Flexural Strength	IS 15658: 2006; Annex F

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259	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Tensile Splitting Strength	IS 15658: 2006; Annex E
260	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Thickness of Wearing Layer	IS 15658: 2006; Clause 6.2.3
261	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Visual Inspection	IS 15658: 2006; Clause 7.1
262	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Water Absorption	IS 15658: 2006; Annex C
263	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen [VG - 10/20/30/40]	Penetration at 25°C	IS 1203 : 1978
264	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen [VG - 10/20/30/40]	Viscosity Ratio [RTFOT Residue] at 60ºC	IS 1206(Part 2) : 1978
265	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen [VG -10/20/30/40]	Kinematic Viscosity at 135 °C	ASTM D4402: 2015
266	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen [VG -10/20/30/40]	Rolling Thin Film Oven Test- [RTFOT] Durability Test	ASTM D2872: 2019
267	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen [VG -10/20/30/40]	Absolute Viscosity at 60 °C	IS 1206 (Part 2): 1978
268	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen [VG -10/20/30/40]	Flash Point	IS 1448 (Part 69): 2013
269	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen [VG -10/20/30/40]	Kinematic Viscosity at 135ºC	IS 1206 (Part 3): 1978
270	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen [VG -10/20/30/40]	Mineral Matter Ash	IS 1217: 1978
271	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen [VG -10/20/30/40]	Rolling Thin Film Oven Test- [RTFOT] Durability Test	IS 15799: 2008

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272	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen [VG -10/20/30/40]	Specific Gravity	IS 1202 : 1978
273	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen [VG -10/20/30/40]	Water Content Test	IS 1211: 1978
274	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen [VG-10/20/30/40]	Ductility after [RTFOT Residue] at 25°C	IS 1208: 1978
275	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen [VG-10/20/30/40]	Flash Point - COC	IS 1448 (Part 69): 2013
276	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen [VG-10/20/30/40]	FRAASS Breaking Point	IS 9381: 1979
277	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen [VG-10/20/30/40]	Softening Point (R&B)	IS 1205: 1978
278	MECHANICAL- BUILDINGS MATERIALS	Paving Bitumen [VG-10/20/30/40]	Solubility in TCE	IS 1216: 1978
279	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen [PMB 64-10/70-10/76-10/76-22/82-10/ HIMA]	Shear Modulus (G*/sin Delta) at 1 mm Gap & 8 mm Plate	AASHTO T315: 2019
280	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen [PMB 64-10/70-10/76-10/76-22/82-10/ HIMA]	Shear Modulus (G*/sin Delta) at 1 mm Gap & 8 mm Plate	ASTM D6521: 2019
281	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen [PMB 64-10/70-10/76-10/76-22/82-10/ HIMA]	Shear Modulus (G*/sin Delta) at 1 mm Gap & 25 mm Plate - [RTFOT Residue]	Annex -B ,IS 15462: 2019
282	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen [PMB 64-10/70-10/76-10/76-22/82-10/ HIMA]	Shear Modulus (G*/sin Delta) at 1 mm Gap & 25 mm Plate - [RTFOT Residue]	AASHTO T315: 2019

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283	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen [PMB 64-10/70-10/76-10/76-22/82-10/HiMA]	Complex Modulus (G*)-DSR with 1mm Gap & 25mm Plate	AASHTO T315: 2019
284	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen [PMB 64-10/70-10/76-10/76-22/82-10/HiMA]	Flash Point by COC	IS 1448 (Part 69): 2013
285	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen [PMB 64-10/70-10/76-10/76-22/82-10/HiMA]	MSCR Test by DSR: Jnr3.2 - [RTFOT Residue]	ASTM D7405: 2015
286	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen [PMB 64-10/70-10/76-10/76-22/82-10/HiMA]	Complex Modulus (G*)-DSR with 1mm Gap & 25mm Plate	IS 15462, Annex-B : 2019
287	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen [PMB 64-10/70-10/76-10/76-22/82-10/HIMA]	FARRASS Breaking Point in °C	IS 9381: 1978
288	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen [PMB 64-10/70-10/76-10/76-22/82-10/HiMA]	Flash Point by COC	IS 1209 : 1978
289	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen [PMB 64-10/70-10/76-10/76-22/82-10/HiMA]	MSCR Test by DSR	ASTM D7405: 2015

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290	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen [PMB 64-10/70-10/76-10/76-22/82-10/HiMA]	MSCR Test by DSR	IS 15462: 2019, Annex D
291	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen [PMB 64-10/70-10/76-10/76-22/82-10/HIMA]	MSCR Test by DSR-Jnrdiff - [RTFOT Residue]	Annex - D, IS 15462: 2019
292	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen [PMB 64-10/70-10/76-10/76-22/82-10/HIMA]	MSCR Test by DSR-Jnrdiff - [RTFOT Residue]	ASTM D7405: 2015
293	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen [PMB 64-10/70-10/76-10/76-22/82-10/HIMA]	MSCR Test by DSR: Jnr3.2 - [RTFOT Residue]	Annex - D,IS 15462: 2019
294	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen [PMB 64-10/70-10/76-10/76-22/82-10/HiMA]	Shear Modulus (G*/sin Delta) at 1mm Gap & 25 mm Plate	IS 15462, Annex-B : 2019
295	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen [PMB 64-10/70-10/76-10/76-22/82-10/HiMA]	Shear Modulus (G*/sin Delta) at 1mm Gap & 25 mm Plate	AASHTO T315: 2019
296	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen [PMB 64-10/70-10/76-10/76-22/82-10/HiMA]	Softening Point - (R&B)	IS 1205: 1978

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297	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen [PMB 64-10/70-10/76-10/76-22/82-10/HiMA]	Viscosity at 150°C	ASTM D4402: 2015
298	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen [PMB 64-10/70-10/76-22/82-10/HiMA]	Elastic Recovery of HT at 15°C	Annex A, IS 15462: 2019
299	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen [PMB64-10/70-10/76-10/76-22/82-10/HiMA]	Phase Angle (Delta)- DSR at 1mm Gap & 25mm Plate	AASHTO T315: 2019
300	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen [PMB64-10/70-10/76-10/76-22/82-10/HiMA]	Phase Angle (Delta)- DSR at 1mm Gap & 25mm Plate	IS 15462 ,Annex -B : 2019
301	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen[PMB 64-10/70-10/76-10/76-22/82-10/HIMA]	Complex Modulus (G*) - [RTFOT Residue] at 1mm Gap & 25mm Pate	AASHTO T315: 2019
302	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen[PMB 64-10/70-10/76-10/76-22/82-10/HIMA]	Phase Angle (Delta) - [RTFOT Residue] at 1mm Gap & 25mm Plate	AASHTO T315: 2019
303	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen[PMB 64-10/70-10/76-10/76-22/82-10/HiMA]	Shear Modulus (G*/sin Delta) at 1 mm Gap & 8 mm Plate	IS 15799: 2008

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304	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen[PMB 64-10/70-10/76-10/76-22/82-10/HIMA]	Complex Modulus (G*) -[RTFOT Residue] at 1mm Gap & 25mm Pate	Annex - B ,IS 15462: 2019
305	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen[PMB 64-10/70-10/76-10/76-22/82-10/HIMA]	Loss in Mass % -[RTFOT Residue]	IS 9382: 1979
306	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen[PMB 64-10/70-10/76-10/76-22/82-10/HIMA]	Phase Angle (Delta) -[RTFOT Residue] at 1mm Gap & 25mm Plate	Annex - B, IS 15462: 2019
307	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen[PMB 64-10/70-10/76-10/76-22/82-10/HIMA]	Rolling Thin Film Oven Test- [RTFOT]	IS 15799: 2008
308	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen[PMB 64-10/70-10/76-10/76-22/82-10/HIMA]	Rolling Thin Film Oven Test-[RTFOT]	ASTM D2872: 2019
309	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen[PMB 64-10/70-10/76-10/76-22/82-10/HiMA]	Separation Test - (R&B)	Annex C , IS 15462: 2019
310	MECHANICAL- BUILDINGS MATERIALS	Polymer Modified Bitumen[PMB 64-10/70-10/76-10/76-22/82-10/HIMA]	Shear Modulus (G*/sin Delta) at 1 mm Gap & 8 mm Plate	Annex-C,IS 15462 : 2019
311	MECHANICAL- BUILDINGS MATERIALS	Retroreflective Signboard / Road Stud	Sign Board Sheet- RA Value	ASTM E1709: 2016

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312	MECHANICAL- BUILDINGS MATERIALS	Retroreflective Signboard / Road Stud	Sign Board Sheet- RA Value	ASTM E 810: 2003
313	MECHANICAL- BUILDINGS MATERIALS	Retroreflective Signboards and Road Stud	Abrasion Resistance Test- CIL (RL Value= RA x Area)	ASTM E808: 2001
314	MECHANICAL- BUILDINGS MATERIALS	Retroreflective Signboards and Road Stud	Color	ASTM E811: 2009
315	MECHANICAL- BUILDINGS MATERIALS	Retroreflective Signboards and Road Stud	Angle between face and base of RPM	ASTM D4280: 2018; Cl. 6.1.4
316	MECHANICAL- BUILDINGS MATERIALS	Retroreflective Signboards and Road Stud	Area of Marker Surface	Specifications for Road and Bridge Works (MORTH): 2013; Cl 804
317	MECHANICAL- BUILDINGS MATERIALS	Retroreflective Signboards and Road Stud	Base of Marker -Type	ASTM D4280: 2018; Cl. 6.5.1
318	MECHANICAL- BUILDINGS MATERIALS	Retroreflective Signboards and Road Stud	Color	ASTM D4280: 2018; Cl. 9.3
319	MECHANICAL- BUILDINGS MATERIALS	Retroreflective Signboards and Road Stud	Compressive Strength	ASTM D4280: 2018; Cl. 9.2.2
320	MECHANICAL- BUILDINGS MATERIALS	Retroreflective Signboards and Road Stud	Compressive Strength	Specifications for Road and Bridge Works (MORTH): 2013; Cl. 804.2.1

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321	MECHANICAL- BUILDINGS MATERIALS	Retroreflective Signboards and Road Stud	Flatness - Base of Marker	ASTM D 4280: 2018; Cl. 6.1.6
322	MECHANICAL- BUILDINGS MATERIALS	Retroreflective Signboards and Road Stud	Height of RPM	ASTM D4280: 2018; Clause 6.1.2
323	MECHANICAL- BUILDINGS MATERIALS	Retroreflective Signboards and Road Stud	Lens Impact Strength at 55°C	ASTM D4280: 2018; Cl. 9.4.1
324	MECHANICAL- BUILDINGS MATERIALS	Retroreflective Signboards and Road Stud	Longitudinal Flexural Strength	ASTM D4280: 2018; Cl. 9.2.1
325	MECHANICAL- BUILDINGS MATERIALS	Retroreflective Signboards and Road Stud	Retro-reflected color of the Marker- RPM	ASTM D4280: 2018; Cl. 4.1.2
326	MECHANICAL- BUILDINGS MATERIALS	Retroreflective Signboards and Road Stud	Road Studs-CIL (RL Value= RA x Area)	ASTM E808: 2001
327	MECHANICAL- BUILDINGS MATERIALS	Retroreflective Signboards and Road Stud	Road Studs-CIL (RL Value= RA x Area)	ASTM E1709: 2016
328	MECHANICAL- BUILDINGS MATERIALS	Retroreflective Signboards and Road Stud	Type of Marker - RPM	ASTM D4280: 2018; Cl. 4.1.1
329	MECHANICAL- BUILDINGS MATERIALS	Retroreflective Signboards and Road Stud	Width of RPM	ASTM D 4280: 2018; Cl. 6.1.3
330	MECHANICAL- BUILDINGS MATERIALS	Retroreflective Singboards and Roads Stud	Abrasion Resistance Test- CIL (RL Value= RA x Area)	ASTM E1709: 2016

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331	MECHANICAL- BUILDINGS MATERIALS	Retroreflective Singboards and Roads Stud	Abrasion Resistance Test- CIL (RL Value= RA x Area)	ASTM D4280: 2018; Cl. 9.5
332	MECHANICAL- BUILDINGS MATERIALS	Rock Specimen	Abrasiveness using CERCHAR Method	ASTM D7625: 2010 (Withdrawn)
333	MECHANICAL- BUILDINGS MATERIALS	Rubber Modified Bitumen [CRMB-55/60/NRMB]	Complex Modulus (G*)- DSR at 1mm Gap & 25mm Plate	AASHTO T315: 2019
334	MECHANICAL- BUILDINGS MATERIALS	Rubber Modified Bitumen [CRMB-55/60/NRMB]	Flash Point by COC	IS 1448 (Part 69): 2013
335	MECHANICAL- BUILDINGS MATERIALS	Rubber Modified Bitumen [CRMB-55/60/NRMB]	Loss in Mass in % [TFOT/RTFOT Residue]	ASTM D2872: 2019
336	MECHANICAL- BUILDINGS MATERIALS	Rubber Modified Bitumen [CRMB-55/60/NRMB]	Phase Angle (Delta) at 1 mm Gap & 25mm Plate	AASHTO T315: 2019
337	MECHANICAL- BUILDINGS MATERIALS	Rubber Modified Bitumen [CRMB-55/60/NRMB]	Phase Angle (Delta)- DSR at 1mm Gap & 25mm Plate	AASHTO T315: 2019
338	MECHANICAL- BUILDINGS MATERIALS	Rubber Modified Bitumen [CRMB-55/60/NRMB]	Shear Modulus (G*/sin Delta) at 1 mm Gap & 25 mm Plate	AASHTO T315: 2019
339	MECHANICAL- BUILDINGS MATERIALS	Rubber Modified Bitumen [CRMB-55/60/NRMB]	Thin Film Oven Test - [TFOT] & Rolling Thin Film Oven Test- [RTFOT]	ASTM D2872: 2019
340	MECHANICAL- BUILDINGS MATERIALS	Rubber Modified Bitumen [CRMB-55/60/NRMB]	Thin Film Oven Test - [TFOT] & Rolling Thin Film Oven Test- [RTFOT]	IS 15799: 2008

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341	MECHANICAL- BUILDINGS MATERIALS	Rubber Modified Bitumen [CRMB-55/60/NRMB]	Change in Softening Point (R&B) - [TFOT/RTFOT Residue]	IS 1205: 1978
342	MECHANICAL- BUILDINGS MATERIALS	Rubber Modified Bitumen [CRMB-55/60/NRMB]	Complex Modulus (G*) at 1 mm Gap & 25 mm Plate	Annex -B,IS 15462: 2019
343	MECHANICAL- BUILDINGS MATERIALS	Rubber Modified Bitumen [CRMB-55/60/NRMB]	Complex Modulus (G*) at 1 mm Gap & 25 mm Plate	AASHTO T315: 2019
344	MECHANICAL- BUILDINGS MATERIALS	Rubber Modified Bitumen [CRMB-55/60/NRMB]	Complex Modulus (G*)-DSR at 1mm Gap & 25mm Plate	Annex B ,IS 17079: 2019
345	MECHANICAL- BUILDINGS MATERIALS	Rubber Modified Bitumen [CRMB-55/60/NRMB]	Elastic Recovery of HT at 15°C	Annex A ,IS17079: 2019
346	MECHANICAL- BUILDINGS MATERIALS	Rubber Modified Bitumen [CRMB-55/60/NRMB]	Elastic Recovery of HT at 25°C - [TFOT]	Annexure - A, IS 17079: 2019
347	MECHANICAL- BUILDINGS MATERIALS	Rubber Modified Bitumen [CRMB-55/60/NRMB]	Flash Point by COC	IS 1209: 1978
348	MECHANICAL- BUILDINGS MATERIALS	Rubber Modified Bitumen [CRMB-55/60/NRMB]	Loss in Mass in % [TFOT/RTFOT Residue]	IS 9382: 1978
349	MECHANICAL- BUILDINGS MATERIALS	Rubber Modified Bitumen [CRMB-55/60/NRMB]	Loss in Mass in % [TFOT/RTFOT Residue]	IS 15799: 2008
350	MECHANICAL- BUILDINGS MATERIALS	Rubber Modified Bitumen [CRMB-55/60/NRMB]	Phase Angle (Delta) at 1 mm Gap & 25mm Plate	Annex -B , IS 15462: 2019

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351	MECHANICAL- BUILDINGS MATERIALS	Rubber Modified Bitumen [CRMB-55/60/NRMB]	Phase Angle (Delta)- DSR at 1mm Gap & 25mm Plate	Annex B ,IS17079: 2019
352	MECHANICAL- BUILDINGS MATERIALS	Rubber Modified Bitumen [CRMB-55/60/NRMB]	Reduction in Penetration at 25°C - [TFOT/RTFOT Residue]	IS 1203: 1978
353	MECHANICAL- BUILDINGS MATERIALS	Rubber Modified Bitumen [CRMB-55/60/NRMB]	Separation Test - (R&B)	IS 17079: 2019, Annexure B
354	MECHANICAL- BUILDINGS MATERIALS	Rubber Modified Bitumen [CRMB-55/60/NRMB]	Shear Modulus (G*/sin Delta) at 1 mm Gap & 25 mm Plate	Annex B,IS 17079: 2019
355	MECHANICAL- BUILDINGS MATERIALS	Rubber Modified Bitumen [CRMB-55/60/NRMB]	Shear Modulus (G*/sin Delta) at 1 mm Gap & 25 mm Plate	IS 15462: 2019, Annex B
356	MECHANICAL- BUILDINGS MATERIALS	Rubber Modified Bitumen [CRMB-55/60/NRMB]	Shear Modulus (G*/sin Delta) at 1 mm Gap & 25 mm Plate	AASHTO T315: 2019
357	MECHANICAL- BUILDINGS MATERIALS	Rubber Modified Bitumen [CRMB-55/60/NRMB]	Thin Film Oven Test - [TFOT] & Rolling Thin Film Oven Test- [RTFOT]	IS 9283: 1979
358	MECHANICAL- BUILDINGS MATERIALS	Rubber Modified Bitumen [CRMB-55/60/NRMB]	Viscosity at 150°C	ASTM D4402: 2015
359	MECHANICAL- BUILDINGS MATERIALS	Rubber Modified Bitumen [CRMB-55/60/NRMB]	Viscosity at 150°C	IS 1206 (Part 2): 1978
360	MECHANICAL- BUILDINGS MATERIALS	Rubber Modified Bitumen [CRMB-55/60]	Penetration at 25°C	IS 1203: 1978

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361	MECHANICAL- BUILDINGS MATERIALS	Rubber Modified Bitumen [CRMB-55/60]	Softening Point - (R&B)	IS 1205: 1978
362	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road Marking Material [Hot Applied & Cold Applied]	Binder Content	BS 3262 (Part 1): 1989; Appendix C (Withdrawn)
363	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road Marking Material [Hot Applied & Cold Applied]	Glass Beads- Gradation 1.18 mm to 150 micron	ASTM D1214: 2010
364	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road Marking Material [Hot Applied & Cold Applied]	Glass Beads- Gradation 1.18 mm to 150 micron	BS 3262 (Part 1): 1989
365	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road marking Material [Hot Applied & Cold Applied]	Daylight Luminance at 45°C	AASHTO M249: 2012
366	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road Marking Material [Hot Applied & Cold Applied]	Road Marking- Qd Value	BS EN 1436: 2018
367	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road Marking Material [Hot Applied & Cold Applied]	Yellowness Index	ASTM E2302: 2003
368	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road Marking Material [Hot Applied & Cold Applied]	Yellowness Index	AASHTO M249: 2012

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369	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road marking Material [Hot Applied & Cold Applied]	Binder Contents	ASTM D4797 : 2017
370	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road Marking Material [Hot Applied & Cold Applied]	Daylight Luminance at 45°	ASTM E 2302 : 2003
371	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road marking Material [Hot Applied & Cold Applied]	Drying Time at 32°C	Specifications for Road and Bridge Works: 2013; Cl. 803.4.2.2
372	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road marking Material [Hot Applied & Cold Applied]	Drying Time at 32°C	AASHTO M249 : 2012
373	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road Marking Material [Hot Applied & Cold Applied]	Flash Point- COC	ASTM D92 : 2018
374	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road marking Material [Hot Applied & Cold Applied]	Glass Beads - Constituents	ASTM D4797 : 2017
375	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road marking Material [Hot Applied & Cold Applied]	Glass Beads - Constituents	BS 3262 (Part 1): 1989; Appendix D (Withdrawn)

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376	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road Marking Material [Hot Applied & Cold Applied]	Glass Beads -Free Flow Test - 4 Hours	Specifications for Road and Bridge Works: 2013; Cl. 803.4.2.4(I)
377	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road Marking Material [Hot Applied & Cold Applied]	Glass Beads- Refractive Index- [RI]	BS 6088: 1981; Appendix E; (Withdrawn)
378	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road Marking Material [Hot Applied & Cold Applied]	Glass Beads- Refractive Index- [RI]	ASTM C1648: 2012
379	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road Marking Material [Hot Applied & Cold Applied]	Glass Beads- Roundness (Microscopic)	ASTM D1155: 2010
380	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road Marking Material [Hot Applied & Cold Applied]	Glass Beads- Roundness (Microscopic)	BS 6088: 1981; Appendix D (Withdrawn)
381	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road Marking Material [Hot Applied & Cold Applied]	Road Marking- Qd Value	ASTM E1710: 2018
382	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road Marking Material [Hot Applied & Cold Applied]	Specific Gravity	ASTM D792: 2013; Method A

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383	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road Marking Material [Hot Applied & Cold Applied]	Yellowness Index	ASTM E 313: 2015
384	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road Marking Material- [Hot Applied & Cold Applied]	Flowability - Extended Heating	AASHTO T 250: 2005; Section 17
385	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road Marking Material- [Hot Applied & Cold Applied]	CaCO3 & Inert Fillers	ASTM D 4797: 2017
386	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road Marking Material- [Hot Applied & Cold applied]	Cracking Resistance Test	AASHTO T 250: 2005; Section 12
387	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road Marking Material- [Hot Applied & Cold Applied]	Road Marking-RL Value	ASTM E 1710: 2018
388	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road Marking Material- [Hot Applied & Cold Applied]	Road Marking-RL Value	BS EN 1436: 2018
389	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road Marking Material- [Hot Applied & Cold Applied]	Skid Resistance Test	BS 6044: 1987,; Appendix K (Withdrawn)

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390	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road Marking Material- [Hot Applied & Cold Applied]	Skid Resistance Test	BS EN 1436: 2018
391	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road Marking Material- [Hot Applied & Cold Applied]	Softening Point-R & B	ASTM D 36: 2014
392	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road Marking Material- [Hot Applied & Cold Applied]	Titanium Dioxide Constituents	ASTM D 4797: 2017
393	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Composite Panel	0.2 % Proof Strees	ASTM E8/ E8M: 2016
394	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Composite Panel	0.2% Proof Stress	ASTM D638: 2014
395	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Composite Panel	Elongation	ASTM D638: 2014
396	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Composite Panel	Elongation at Break	ASTM E8/ E8M: 2016
397	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Composite Panel	Flexural Strength	ASTM C393/ C393M: 2016
398	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Composite Panel	Peel off Strength- (Drum Peel)	ASTM D903: 1998

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399	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium Composite Panel	Shear Strength- Punch Shear	ASTM D732: 2017
400	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium Composite Panel	Tensile Strength	ASTM D638: 2014
401	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium Composite Panel	Tensile Strength	ASTM E8/ E8M: 2016
402	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium Composite Panel	Thickness of ACM Sheet	ASTM D638: 2014
403	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium Composite Panel	Thickness of Aluminium Skin- Micrometer	ASTM E8/ E8M: 2016
404	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bolt [HSFG]	Elongation After Fracture	IS 1608 (Part 1): 2018
405	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bolt [HSFG]	Hardness - Rockwell	IS 1586 (Part 1): 2018
406	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bolt [HSFG]	Hardness - Rockwell	IS 1586 (Part 1): 2018
407	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bolt [HSFG]	Lower Yield Stress	IS 1608 (Part 1): 2018
408	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bolt [HSFG]	Proof Load Test	IS 1608 (Part 1): 2018

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409	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bolt [HSFG]	Reduction of Area After Fracture	IS 1608 (Part 1): 2018
410	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bolt [HSFG]	Ultimate Tensile Strength- UTS	IS 1608 (Part 1): 2018
411	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bolt [HSFG]	Zinc Phosphate Coating	IS 1367(Part 12): 1981
412	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bridge Bearings - Elastomeric, Pot, Pot cum - PTFE , Pin Metallic Guide, Spherical & Cylindrical	Rotation Test	IRC 83 (Part 4): 2014
413	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bridge Bearings - Elastomeric, Pot, Pot cum - PTFE , Pin Metallic Guide, Spherical & Cylindrical	Shear Modulus	ASTM D4014: 2003
414	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bridge Bearings - Elastomeric, Pot, Pot cum - PTFE , Pin Metallic Guide, Spherical & Cylindrical	Tensile Strength	ISO 37: 2017

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415	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bridge Bearings - Elastomeric, Pot, Pot cum - PTFE , Pin Metallic Guide, Spherical & Cylindrical	Hardness	IS 3400 (Part 2): 2014
416	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bridge Bearings - Elastomeric, Pot, Pot cum - PTFE , Pin Metallic Guide, Spherical & Cylindrical	Hardness	ISO 48-2: 2018
417	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bridge Bearings - Elastomeric, Pot, Pot cum - PTFE , Pin Metallic Guide, Spherical & Cylindrical	Tensile Strength	IS 3400 (Part 1): 2012
418	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bridge Bearings Elastomeric, Pot, Pot-cum-PTFE, Pin Metallic Guide, Spherical & Cylindrical	Accelerated Ageing	ISO 188: 2011
419	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bridge Bearings Elastomeric, Pot, Pot-cum-PTFE, Pin Metallic Guide, Spherical & Cylindrical	Compression Set Test	ISO 815-1: 2018

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420	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bridge Bearings Elastomeric, Pot, Pot-cum-PTFE, Pin Metallic Guide, Spherical & Cylindrical	Elongation at Break	ISO 37: 2017
421	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bridge Bearings Elastomeric, Pot, Pot-cum-PTFE, Pin Metallic Guide, Spherical & Cylindrical	Elongation at Break	IS 3400 (Part 1): 2012
422	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bridge Bearings-Elastomeric, Pot,Pot-Cum-PTFE,Pin Metallic Guide ,Spherical & Cylindrical	Brinell's Hardness	IS 1500 (Part 1): 2019
423	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bridge Bearings-Elastomeric, Pot,Pot-Cum-PTFE,Pin Metallic Guide ,Spherical & Cylindrical	Brinell's Hardness	IS 1500 (Part 1): 2019
424	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bridge Bearings-Elastomeric, Pot,Pot-Cum-PTFE,Pin Metallic Guide ,Spherical & Cylindrical	Elongation at Break	ISO 37: 2017

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425	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bridge Bearings-Elastomeric, Pot,Pot-Cum-PTFE,Pin Metallic Guide ,Spherical & Cylindrical	Friction Test	EN 1337-5: 2005
426	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bridge Bearings-Elastomeric, Pot,Pot-Cum-PTFE,Pin Metallic Guide ,Spherical & Cylindrical	Friction Test	IRC 83 (Part 4): 2014
427	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bridge Bearings-Elastomeric, Pot,Pot-Cum-PTFE,Pin Metallic Guide ,Spherical & Cylindrical	Load Test- Vertical/ Horizontal	EN 1337-5: 2005
428	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bridge Bearings-Elastomeric, Pot,Pot-Cum-PTFE,Pin Metallic Guide ,Spherical & Cylindrical	Load Test- Vertical/ Horizontal	IRC 83 (Part 4): 2014
429	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bridge Bearings-Elastomeric, Pot,Pot-Cum-PTFE,Pin Metallic Guide ,Spherical & Cylindrical	Rotation Test	EN 1337-5: 2005

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430	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bridge Bearings-Elastomeric, Pot,Pot-Cum-PTFE,Pin Metallic Guide ,Spherical & Cylindrical	Shear Modulus	EN 1337-3: 2005
431	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bridge Bearings-Elastomeric, Pot,Pot-Cum-PTFE,Pin Metallic Guide ,Spherical & Cylindrical	Stripping / Adhesion Strength-Bond Shear Strength	EN 1337-3: 2005
432	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bridge Bearings-Elastomeric, Pot,Pot-Cum-PTFE,Pin Metallic Guide ,Spherical & Cylindrical	Tensile Strength	ISO 37: 2017
433	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bridge Bearings-Elastomeric, Pot,Pot-Cum-PTFE,Pin Metallic Guide ,Spherical & Cylindrical	Ultimate Compressive Strength	EN 1337-3: 2005
434	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bridge Bearings-Elastomeric, Pot,Pot-Cum-PTFE,Pin Metallic Guide ,Spherical & Cylindrical	Accelerated Ageing	IS 3400 (Part 4): 2012

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435	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bridge Bearings-Elastomeric, Pot,Pot-Cum-PTFE,Pin Metallic Guide ,Spherical & Cylindrical	Adhesion Test	IS 3400 (Part 14): 1984
436	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bridge Bearings-Elastomeric, Pot,Pot-Cum-PTFE,Pin Metallic Guide ,Spherical & Cylindrical	Ash Content	IS 3400 (Part 22): 1984
437	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bridge Bearings-Elastomeric, Pot,Pot-Cum-PTFE,Pin Metallic Guide ,Spherical & Cylindrical	Compression Set Test	IS 3400 (Part 10): 1997
438	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bridge Bearings-Elastomeric, Pot,Pot-Cum-PTFE,Pin Metallic Guide ,Spherical & Cylindrical	Density	IS 3400(Part 9): 2014
439	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bridge Bearings-Elastomeric, Pot,Pot-Cum-PTFE,Pin Metallic Guide ,Spherical & Cylindrical	Elastic Modulus-Compression Stiffness	IRC 83 (Part 2): 2018

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440	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bridge Bearings-Elastomeric, Pot,Pot-Cum-PTFE,Pin Metallic Guide ,Spherical & Cylindrical	Elastic Modulus-Compression Stiffness	EN 1337-3: 2005
441	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bridge Bearings-Elastomeric, Pot,Pot-Cum-PTFE,Pin Metallic Guide ,Spherical & Cylindrical	Elongation at Break	IS 3400 (Part 1): 2012
442	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bridge Bearings-Elastomeric, Pot,Pot-Cum-PTFE,Pin Metallic Guide ,Spherical & Cylindrical	Friction Test	IRC 83 (Part 3): 2018
443	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bridge Bearings-Elastomeric, Pot,Pot-Cum-PTFE,Pin Metallic Guide ,Spherical & Cylindrical	Hardness	IS 3400 (Part 2): 2014
444	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bridge Bearings-Elastomeric, Pot,Pot-Cum-PTFE,Pin Metallic Guide ,Spherical & Cylindrical	Hardness	ISO 48-2: 2018

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445	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bridge Bearings-Elastomeric, Pot,Pot-Cum-PTFE,Pin Metallic Guide ,Spherical & Cylindrical	Load Test-Vertical / Horizontal	IRC 83 (Part 3): 2018
446	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bridge Bearings-Elastomeric, Pot,Pot-Cum-PTFE,Pin Metallic Guide ,Spherical & Cylindrical	Rotation test	IRC 83 (Part 3): 2018
447	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bridge Bearings-Elastomeric, Pot,Pot-Cum-PTFE,Pin Metallic Guide ,Spherical & Cylindrical	Stripping / Adhesion Strength-Bond Shear Strength	IRC 83 (Part 2): 2018
448	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bridge Bearings-Elastomeric, Pot,Pot-Cum-PTFE,Pin Metallic Guide ,Spherical & Cylindrical	Tensile Strength	IS 3400 (Part 1): 2012
449	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bridge Bearings-Elastomeric, Pot,Pot-Cum-PTFE,Pin Metallic Guide ,Spherical & Cylindrical	Ultimate Compressive Strength	IRC 83 (Part 2): 2018

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450	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Bridge Bearings-Elastomeric, Pot, Pot-cum-PTFE, Pin Metallic Guide,Spherical & Cylindrical	Shear Modulus	IRC 83 (Part 2): 2018
451	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nut [HSFG]	Hardness - Rockwell	IS 1586 (Part 1): 2018
452	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nut [HSFG]	Hardness - Rockwell	IS 1586 (Part 1): 2018
453	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nut [HSFG]	Proof Load Test	IS 1608 (Part 1): 2018
454	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nut [HSFG]	Zinc Phosphate Coating	IS 1367 (Part 12): 1981
455	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pre-stressing - Strands, Steel Wire , Steel Rope	Reverse Bend	ISO 7801: 1984
456	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pre-stressing - Strands, Steel Wire , Steel Rope	Reverse Bend	IS 1716: 1985
457	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pre-stressing - Strands, Steel Wire, Steel Rope	Breaking Strength	IS 9282: 2002
458	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pre-stressing - Strands, Steel Wire, Steel Rope	Breaking Strength	IS 14268, Clause- 6.2.3: 2017

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459	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pre-stressing - Strands, Steel Wire, Steel Rope	Elongation	IS 14268: 2017
460	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pre-stressing - Strands, Steel Wire, Steel Rope	Proof Load	IS 14268, Clause 6.2.3: 2017
461	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pre-stressing - Strands, Steel Wire, Steel Rope	Elongation	IS 1608 (Part 1): 2018
462	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pre-stressing - Strands, Steel Wire, Steel Rope	Proof Laod	IS 1608 (Part 1): 2018
463	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pre-stressing - Strands,Steel Wire,Steel Rope	Breaking Strength	IS 1608 (Part 1): 2018
464	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pre-stressing Component- Anchor Head	Hardness- Brinell's	NHAI Quality Mannual, Appendix-2: 2006
465	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pre-stressing Component- Anchor Head	Hardness- Brinell's	NHAI Quality Mannual, Appendix-2: 2006
466	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pre-stressing Component- Anchor Head	Dimensions	NHAI Quality Mannual, Appendix-2: 2006
467	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pre-stressing Component- Anchor Head	Hardness - Brinell's	IS 1500 (Part 1): 2019
468	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pre-stressing Component- Anchor Head	Hardness- Brinell's	IS 1500 (Part 1): 2019

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469	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pre-stressing Component-Wedges	Dimensions	NHAI Quality Manual, Appendix-2: 2006
470	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pre-stressing Component-Wedges	Hardness- Vickers	IS 1501 (Part 1): 2013
471	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pre-stressing Component-Wedges	Hardness- Vickers	NHAI Quality Manual, Appendix-2: 2006
472	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pre-stressing-Strands ,Steel Wire , Steel Rope	Dimensions - diameter	IS 14268, Annex A-2: 2017
473	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pre-stressing-Strands, Steel Wire, Steel Rope	Galvanized (Zinc-Coating)	IS 6745: 1972
474	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pre-stressing-Strands, Steel Wire, Steel Rope	Lay Length- Carbon Imprint	IS 14268, Annex A-2: 2017
475	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pre-stressing-Strands,Steel Wire,Steel Rope	Load Test on Anchorage-Relaxation Test-100H	BS EN 5986: 2012
476	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pre-stressing-Strands,Steel Wire,Steel Rope	Load Test on Anchorage-Relaxation Test-100H	IS 14268, Clause- 6.2.4: 2017
477	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pre-stressing-Strands,Steel Wire,Steel Rope	Diameter of Central Wire	IS 14268 Annex A-3: 2017
478	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pre-stressing-Strands,Steel Wire,Steel Rope	Load Test on Anchorage-Relaxation Test-100H	ISO 10138-3: 2010

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479	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pre-stressing-Strands,Steel Wire,SteelRope	Mass per Unit	IS 14268 Annex B-2 : 2017
480	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pre-stressing-Strands,Steel Wire,Steel Rope	Dia of Outer Wire	IS 14268 Annex A-3: 2017
481	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pre-stressing-Strands,Steel Wire,Steel Rope	Cross Sectional Area - Metallic Area	IS 14268 Annex B-1: 2017
482	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Prestressing Component - Anchor Cone	Dimensions	NHAI Quality manual ,Appendix - 2: 2006
483	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Prestressing Component - Wedges	Hardness - Vickers	IS 1501(Part 1): 2013
484	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Prestressing Component - Wedges	Hardness-Vickers	NHAI Quality Manual , Appendix - 2: 2006
485	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel Bar	Bend Test	IS 1599 : 2019
486	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel Bar	Dimensions- Cross Sectional Area	IS 1786 Clause 6.3: 2008
487	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel Bar	Mass per Meter	IS 1786 Clause 7.1 : 2008
488	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel Bar	Percentage Elongation	IS 1608 (Part 1): 2018

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489	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel Bar	Pull-out Test	IS 2770 (Part 1): 1967
490	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel Bar	Re-bend Test	IS 1786 : 2008
491	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel Bar	Tensile Strength	IS 1608 (Part 1): 2018
492	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel Bar	Yield Stress	IS 1608 (Part 1): 2018
493	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Sheathing Ducts-GI Sheet HDPE / PP ,DWC & Void Formers	Dimensions	Annex A1 fib Bulletin 7: 2000
494	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Sheathing Ducts-GI Sheet HDPE / PP ,DWC & Void Formers	Bond Strength Test	Annex A8 fib Bulletin 7: 2000
495	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Sheathing Ducts-GI Sheet HDPE / PP ,DWC & Void Formers	Bond Strength Test	Cl. 1,App. 1B, IRC 18: 2000
496	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Sheathing Ducts-GI Sheet HDPE / PP ,DWC & Void Formers	Compression Test	Annex A7 fib Bulletin 7: 2000 : 2000

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497	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Sheathing Ducts-GI Sheet HDPE / PP ,DWC & Void Formers	Compression Test	Cl. 2, App. 1B , IRC 18: 2000
498	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Sheathing Ducts-GI Sheet HDPE / PP ,DWC & Void Formers	Dimensions	IRC 18: 2000
499	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Sheathing Ducts-GI Sheet HDPE / PP ,DWC & Void Formers	Radial Stiffness Rigidity	ASTM D 2412-11 : 2018
500	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Sheathing Ducts-GI Sheet HDPE / PP ,DWC & Void Formers	Rodent Repellency Test	TEC GR No. GR / DWC-34 / 01 Sep : 2007
501	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Sheathing Ducts-GI Sheet HDPE / PP ,DWC & Void Formers	Rodent Repellency Tests	Annexure G, RDSO / SPN / 204: 2011
502	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Sheathing Ducts-GI Sheet HDPE / PP ,DWC & Void Formers	Tension Load Test	Annex A5 fib Bulletin 7: 2000
503	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Sheathing Ducts-GI Sheet HDPE / PP ,DWC & Void Formers	Tension Load Test	App. 1800 / I Test C MORTH Specs : 2001

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504	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Sheathing Ducts-GI Sheet HDPE / PP ,DWC & Void Formers	Tension Load Test	IRC 18: 2000
505	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Sheathing Ducts-GI Sheet HDPE / PP ,DWC & Void Formers	Transverse Load Rating	App .1800 / I Test B MORTH Specs. : 2001
506	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Sheathing Ducts-GI Sheet HDPE / PP ,DWC & Void Formers	Transverse Load Rating	Annex A4 fib Bulletin 7: 2000
507	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Sheathing Ducts-GI Sheet HDPE / PP ,DWC & Void Formers	Transverse Load Rating	IRC 18: 2000
508	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Sheathing Ducts-GI Sheet HDPE / PP ,DWC & Void Formers	Water Loss Test	App.1800 / I Test D MORTH Specs.: 2001
509	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Sheathing Ducts-GI Sheet HDPE / PP ,DWC & Void Formers	Water Loss Test	Annex A6 fib Bulletin 7: 2000
510	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Sheathing Ducts-GI Sheet HDPE / PP ,DWC & Void Formers	Water Loss Test	IRC 18: 2000

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511	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Sheathing Ducts-GI Sheet HDPE / PP ,DWC & Void Formers	Workability Test	App 1800 / I Test A MORTH Specs.: 2001
512	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Sheathing Ducts-GI Sheet HDPE / PP ,DWC & Void Formers	Workability Test	Annex A3 fib Bulletin 7: 2000
513	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Sheathing Ducts-GI Sheet HDPE / PP ,DWC & Void Formers	Workability Test	IRC 18: 2000
514	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Srtuctural Steel, Metal Beam Crash Barriers & Weldment Steel	Percentage Elongation	IS 1608 (Part 1): 2018
515	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Pipe	Flattening Test	IS 2328: 2018
516	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Rivets	Bend Test	IS 1599: 2019
517	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Rivets	Dimension - Diameter	IS 1148 Clause - 9.1: 2009
518	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Rivets	Galvanization Thickness / Mass of Coating	IS 6745: 1972
519	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Rivets	Hardness - Rockwell	IS 1586 (Part 1): 2018

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520	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Rivets	Hardness - Rockwell	IS 1586 (Part 1): 2018
521	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Rivets	Head Soundness Test	IS 1148: 2009
522	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Rivets	Hot Compression / Dump Test	IS 1148: 2009
523	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Rivets	Percentage Elongation	IS 1608 (Part 1): 2018
524	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Rivets	Reduction in Area	IS 1608 (Part 1): 2018
525	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Rivets	Shear Test Rivets / Bars	IS 5242: 1979
526	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Rivets	Tensile Strength	IS 1608 (Part 1): 2018
527	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Rivets	Yield Stress	IS 1608 (Part 1): 2018
528	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel , Metal Beam Crash Barriers & Weldment Steel	Bend Test- Face & Root	ASME BPVC IX -QW 160: 2019

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529	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel , Metal Beam Crash Barriers & Weldment Steel	Bend Test-Face & Root	API 1104-CL-5.6.425.65 : 2013
530	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel , Metal Beam Crash Barriers & Weldment Steel	Vickers Hardness	IS 1501 (Part 1): 2013
531	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel , Metal Beam Crash Barriers & Weldment Steel	Vickers Hardness	IS 1501 (Part 1): 2013
532	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel ,Metal Beam Crash Barriers & Weldment Steel	Dimensions Thickness	IS 2062, Clause 15: 2011
533	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel ,Metal Beam Crash Barriers & Weldment Steel	Anodized Thickness	IS 5523 : 1983
534	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel ,Metal Beam Crash Barriers & Weldment Steel	Bend Test	IS 1599: 2012
535	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel ,Metal Beam Crash Barriers & Weldment Steel	Dimension - Cross sectional Area	IS 2062 Clause 15: 2011

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536	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel ,Metal Beam Crash Barriers & Weldment Steel	Galvanization Thickness / Mass of Coating	IS 6745: 1972
537	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel ,Metal Beam Crash Barriers & Weldment Steel	Hardness	ASME BPVC IX, QW 290.5: 2019
538	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel ,Metal Beam Crash Barriers & Weldment Steel	Hardness	API 1104 CL. B.2.4.4.3: 2013
539	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel ,Metal Beam Crash Barriers & Weldment Steel	Hardness	API 1104 CL. B.2.4.4.3: 2013
540	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel ,Metal Beam Crash Barriers & Weldment Steel	Hardness	ASME BPVC IX- QW 290.5: 2019
541	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel ,Metal Beam Crash Barriers & Weldment Steel	Mass per Meter	IS 2062 Clause - 18: 2011
542	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel ,Metal Beam Crash Barriers & Weldment Steel	Nick Break	ASME BPVC IX, QW 172: 2019

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543	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel ,Metal Beam Crash Barriers & Weldment Steel	Nick Break	API 1104 CL. 5.6.3: 2013
544	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural steel ,Metal Beam Crash Barriers & Weldment Steel	Rockwell Hardness	IS 1586 (Part 1): 2018
545	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel ,Metal Beam Crash Barriers & Weldment Steel	Tensile Strength	IS 1608: 2018
546	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel ,Metal Beam Crash Barriers & Weldment Steel	Tensile Strength	ASME BPVC IX, QW 150: 2019
547	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel ,Metal Beam Crash Barriers & Weldment Steel	Transverse load Test	Cl. 10.2.2.1, RDSO Manual for Flash Butt Welding : 2012
548	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel ,Metal Beam Crash Barriers & Weldment Steel	Yield Stress	IS 1608 (Part 1): 2018
549	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel, Metal Beam Crash Barriers & Weldment Steel	Hardness - Rockwell	IS 1586(Part 1): 2018

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550	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel, Metal Beam Crash Barriers & Weldment Steel	Impact Test- Charpy	API 1104 CL. A.2: 2013
551	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel, Metal Beam Crash Barriers & Weldment Steel	Impact Test- Charpy	ASME BPVC IX, QW 171: 2019
552	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel, Metal Beam Crash Barriers & Weldment Steel	Reduction in Area	IS 1608 (Part 1): 2018
553	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel,Metal Beam Crash Barriers& Weldment Steel	Impact Test - Charpy (V - Notch)	IS 1757 (Part 1): 2014
554	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stud Shear Connector	Bend Test at 180º	IS 1599: 2012
555	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stud Shear Connector	Diameter of Shear Connector- d1	IS 1608 (Part 1): 2018
556	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stud Shear Connector	Elongation- A5	IS 1608 (Part 1): 2018
557	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stud Shear Connector	Head Diameter of Shear Connector- d5	IS 1608 (Part 1): 2018
558	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stud Shear Connector	Height of Head on Shear Connector- h3	IS 1608 (Part 1): 2018

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559	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stud Shear Connector	Overall Height of Shear Connector- I1	IS 1608 (Part 1): 2018
560	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stud Shear Connector	Shape/ Type of Tip A/B	IS 1608(Part 1): 2018
561	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stud Shear Connector	Shear Strength	IS 5242: 1979
562	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stud Shear Connector	Surface Hardness-Rockwell	IS 1586 (Part 1): 2018
563	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stud Shear Connector	Surface Hardness-Rockwell	IS 1586 (Part 1): 2018
564	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stud Shear Connector	Tensile Strength	IS 1608 (Part 1): 2018
565	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stud Shear Connector	Yield Strength	IS 1608 (Part 1): 2018
566	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Washer [HSFG]	Hardness - Rockwell	IS 1586 (Part 1): 2018
567	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Washer [HSFG]	Hardness - Rockwell	IS 1586 (Part 1): 2018
568	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Washer [HSFG]	Zinc Phosphate Coating	IS 1367 (Part 12): 1981

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569	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymeric Products	Aperture Size & Number of Ribs per Meter	IS 10319, Clause 9.1: 2015
570	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymeric Products	Apparent Opening Size	ASTM D4751: 2016
571	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymeric Products	Carbon Black Content	ASTM D1603: 2014
572	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymeric Products	Grab Elongation at Failure	ASTM D4632: 2015
573	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymeric Products	Grab Tensile Strength	ASTM D4632: 2015
574	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymeric Products	Index Puncture Resistance	ASTM D4833: 2007
575	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymeric Products	Junction Strength - Efficiency	ASTM D7737: 2015
576	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymeric Products	Load at 2% Strain	ASTM D6637-15: 2015
577	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymeric Products	Load at 2% Strain	ISO 10319: 2015
578	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymeric Products	Load at 5% Strain	ASTM D6637: 2015
579	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymeric Products	Load at 5% Strain	ISO 10319: 2015
580	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymeric Products	Mass per Square Meter	ASTM D5261: 2010
581	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymeric Products	Mass per Square Meter	ISO 9864: 2005
582	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymeric Products	Melt Flow Index	ASTM D1238: 2013

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583	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymeric Products	Nominal Thickness at Specified Pressures	ASTM D5199 : 2012
584	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymeric Products	Nominal Thickness at Specified Pressures	EN ISO 9863-1: 2016
585	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymeric Products	Permittivity- Water	ASTM D4491: 2017
586	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymeric Products	Permittivity- Water	EN ISO 12958: 1999
587	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymeric Products	Puncture Strength (CBR)	EN ISO 12236: 2006
588	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymeric Products	Puncture Strength (CBR)	ASTM D6241: 2014
589	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymeric Products	Tensile Strength - Wide Width & Single Rib	ISO 10319: 2015
590	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymeric Products	Tensile Strength - Wide Width & Single Rib	ASTM D6637: 2015
591	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymeric Products	Tensile Strength (Strip Test)	ASTM D5035 : 2011
592	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymeric Products	Trapezoidal Tear Strength	ASTM D4533: 2015
593	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymeric Products	Wide Width Tensile Strength	ASTM D4595: 2017
594	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymeric Products	Wide Width Tensile Strength	ISO 10319: 2015
595	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	PVC Pipe	Density	IS 13360 (Part 3/ Sec 1): 1995
596	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	PVC Pipe	Hydrostatic Pressure Test at 27 °C for 1 Hour	IS 12235 (Part 8 / Sec 1): 2004

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597	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	PVC Pipe	Outside Diameter -OD	IS 12235 (Part 1): 2004
598	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	PVC Pipe	Resistance to External Blows at 0 °C	Annex C, IS 4985 : 2000
599	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	PVC Pipe	Reversion Test	IS 12235 (Part 5/ Sec 1): 2004
600	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	PVC Pipe	Sulphated Ash Content	Annex-B IS 4985: 2000
601	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	PVC Pipe	Vicat Softening Point	IS 6307: 1985
602	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	PVC Pipe	Visual Appearance	Clause 10.1, IS 4985: 2000
603	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	PVC Pipe	Wall Thickness	IS 12235 (Part 2): 2004
604	MECHANICAL- SOIL AND ROCK	Soil	Consolidation- 3 Cell	IS 2720 (Part 15): 1965
605	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test UU/UD/CD [Box size: 60mm x 60 mm)	IS 2720 (Part 13): 1986
606	MECHANICAL- SOIL AND ROCK	Soil	Dry Density by Core Cutter Method	IS 2720 (Part 29): 1975
607	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40): 1977
608	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis - Wet (0.001 to 4.75 mm)	IS 2720 (Part 4): 1985
609	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part 5): 1985

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610	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 5): 1985
611	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 (Part 6): 1972
612	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part 3 / Sec 1): 1980
613	MECHANICAL- SOIL AND ROCK	Soil	Tri-axial Shear Test	IS 2720 (Part 11 & 12): 1993
614	MECHANICAL- SOIL AND ROCK	Soil	Unconfined Compressive Strength	IS 2720 (Part 10): 1991
615	MECHANICAL- SOIL AND ROCK	Soil	Water Content by Oven Drying Method	IS 2720 (Part 2): 1973
616	MECHANICAL- SOIL AND ROCK	Soil (Fly Ash ,GSB , WMM , CTSB ,RAP ,Blanket)	California Bearing Ratio	IS 2720 (Part 16): 1987
617	MECHANICAL- SOIL AND ROCK	Soil (Fly Ash ,GSB, WMM , CTSB ,RAP ,Blanket)	California Bearing Ratio	AASHTO T 193: 2013
618	MECHANICAL- SOIL AND ROCK	Soil (Fly Ash ,GSB ,WBM ,WMM , CTSB, RAP, Blanket)	Coefficient of Interface Friction with Geo-Synthetic [Box size: 60mm x 60mm and 300mm x 300mm]	Specifications for Road and Bridge Works (MORTH): 2013; Cl.3104
619	MECHANICAL- SOIL AND ROCK	Soil (Fly Ash ,GSB, WMM , CTSB, RAP, Blanket)	Light Compaction	IS 2720 (Part 7): 1980
620	MECHANICAL- SOIL AND ROCK	Soil (Fly Ash ,GSB, WMM ,CTSB , RAP , Blanket)	Heavy Compaction	IS 2720 (Part 8): 1983

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7072 **Page No** 65 of 66

Validity 01/04/2020 to 15/03/2022 **Last Amended on** -

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
621	MECHANICAL- SOIL AND ROCK	Soil (Fly Ash, GSB, WBM, WMM, CTSB, RAP, Blanket)	Coefficient of Interface Friction with Geo-Synthetic [Box size: 60mm x 60mm and 300mm x 300mm]	ASTM D5321: 2019
622	MECHANICAL- SOIL AND ROCK	Soil (Fly Ash, GSB, WBM, WMM, CTSB, RAP, Blanket)	Coefficient of Interface Friction with Geo-Synthetic [Box size: 60mm x 60mm and 300mm x 300mm]	IS 13326 (Part 1): 1992
623	MECHANICAL- SOIL AND ROCK	Soil (Fly Ash, GSB, WBM, WMM, CTSB, RAP, Blanket)	Direct Shear Test UU/UD/CD [Box size:300mm x 300mm]	IS 2720 (Part 39/Sec 1): 1997
624	MECHANICAL- SOIL AND ROCK	Soil [Fly Ash, GSB, WBM, WMM, CTSB, RAP, Blanket]	Dry Density by Sand Replacement Method	IS 2720 (Part 28): 1974
625	MECHANICAL- SOIL AND ROCK	Soil [Fly ash, GSB, WBM, WMM, CTSB, RAP, Blanket]	Elastic Modulus - EV2 Value (Site Test)	RDSO GE-14: 2009
626	MECHANICAL- SOIL AND ROCK	Soil [Fly ash, GSB, WBM, WMM, CTSB, RAP, Blanket]	Elastic Modulus - EV2 Value (Site Test)	DIN 18134: 2012
627	MECHANICAL- SOIL AND ROCK	Soil [Fly Ash, GSB, WBM, WMM, CTSB, RAP, Blanket]	Horizontal Permeability	BS EN 12697 (Part 19): 2012
628	MECHANICAL- SOIL AND ROCK	Soil [Fly ash, GSB, WBM, WMM, CTSB, RAP, Blanket]	Modulus of Subgrade Reaction - K Value	IS 9214: 1979
629	MECHANICAL- SOIL AND ROCK	Soil [Fly Ash, GSB, WBM, WMM, CTSB, RAP, Blanket]	Permeability- Constant & Falling Head	IS 2720 (Part 17): 1986

SCOPE OF ACCREDITATION

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Accreditation Standard	ISO/IEC 17025:2017		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
630	MECHANICAL- SOIL AND ROCK	Soil [Fly ash, GSB, WBM, WMM, CTSB, RAP, Blanket]	Plate Load Test	IS 1888: 1982
631	MECHANICAL- SOIL AND ROCK	Soil [Fly ash, GSB, WBM, WMM, CTSB, RAP, Blanket]	Pull Out Coefficient- Large Shear Box [Box Size: 1m x 1m]	ASTM D6706: 2001
632	MECHANICAL- SOIL AND ROCK	Soil [Fly ash, GSB, WBM, WMM, CTSB, RAP, Blanket]	Pull out Coefficient- Large Shear Box [Box Size: 1m x 1m]	Specifications for Road and Bridge Works: 2013; Cl. 3104
633	MECHANICAL- SOIL AND ROCK	Soil [Fly Ash, GSB, WBM, WMM, CTSB, RAP, Blanket]	Unconfined Compressive Strength of stabilised soils	IS 4332 (Part 5): 1970
634	MECHANICAL- SOIL AND ROCK	Soil [Fly Ash, GSB, WMM, WBM, CTSB, RAP, Blanket]	Dry Density by Sand Replacement Method	IS 2720 (Part 28): 1974
635	MECHANICAL- SOIL AND ROCK	Soil- [Fly Ash, GSB, WBM, WMM, CTSB, RAP, Blanket]	Direct Shear Test UU/UD/CD [Box size 300mm x 300mm]	IS 2720 (Part 39/ Sec 1): 1997
636	MECHANICAL- SOIL AND ROCK	Soils	Direct Shear Test UU/UD/CD [Box size: 60mm x 60mm]	IS 2720 (Part 13): 1986
637	MECHANICAL- SOIL AND ROCK	Soils	Relative Density of Cohesionless Soils	IS 2720 (Part 14): 1983

INDEPENDENT 3RD PARTY TESTING

BUILDINGS, BRIDGES, HIGHWAYS RAILWAYS, AIRPORTS & PIPELINES

● **Retro-reflective HIG Highway Signage Sheets-ASTM D4956**	**ASTM E 810/1709**
● Anchorage Systems-Prestressed/Post Tensioned Structure	BS 4447-1973
● **Retained Tensile Strength of Bituminous Mix, MS-2**	**AASHTO T283-14**
● Elastomeric Steel Laminated Bearings Pads, BS 5400-9	IRC 83 Part 02
● **POT-PTFE & FF Bridge Bearings up to 600 Ton, EN 1337-5**	**IRC 83 Part 03**
● Cerchar Abrasivity Index-CAI of Rock for TBM Tunneling	ASTM D7625-10
● **Lock Seamed GI Sheet Concrete Void Formers-*fib* Std.**	**ASTM D2412-10**
● Thermoplastic Road Marking Materials, AASHTO T250	BS 3262, Part 01
● **Complex Modulus-G* & Phase Angle of PMB/ CRMB**	**AASHTO T315-12**
● Thermoplastic Retro-reflective Pavement Markings	ASTM D1710-11

CLIENTS & RECOGNITION

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