



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

C & I SYSTEMS

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

H-13(D) ELECTRONIC COMPLEX, ROAD NO-1, I.P.I.A., KOTA, KOTA, RAJASTHAN, INDIA

in the field of

TESTING

Certificate Number: TC-5862

Issue Date: 30/06/2019

Valid Until:

29/06/2021

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



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name C & I SYSTEMS, H-13(D) ELECTRONIC COMPLEX, ROAD NO-1, I.P.I.A., KOTA,
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Validity 30/06/2019 to 29/06/2021 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
Permanent Facility				
1	CHEMICAL- METALS & ALLOYS	Iron, Steel & Ferro Alloys Special Steel	Carbon (C)	IS:228 (Part 1):1987: 2012
2	CHEMICAL- METALS & ALLOYS	Iron, Steel & Ferro Alloys Special Steel	Chromium(Cr)	IS: 228 (Part 6):2001: 2014
3	CHEMICAL- METALS & ALLOYS	Iron, Steel & Ferro Alloys Special Steel	Manganese (Mn)	IS: 228 (Part 2):1987: 2010
4	CHEMICAL- METALS & ALLOYS	Iron, Steel & Ferro Alloys Special Steel	Molybdenum (Mo)	IS:228 (Part 7): 2001: 2012
5	CHEMICAL- METALS & ALLOYS	Iron, Steel & Ferro Alloys Special Steel	Nickel (Ni)	IS: 228 (Part 5): 1987: 2014
6	CHEMICAL- METALS & ALLOYS	Iron, Steel & Ferro Alloys Special Steel	Silicon(Si)	IS: 228 (Part 8):1989: 2014
7	CHEMICAL- METALS & ALLOYS	Iron, Steel & Ferro Alloys Special Steel	Sulphur(S)	IS:228 (Part 9):1989: 2014
8	CHEMICAL- METALS & ALLOYS	Iron, Steel & Ferro Alloys Special Steel	Phosphorus(P)	IS: 228 (Part 3) :1987: 2012
9	CHEMICAL- SOIL AND ROCK	Soil	Calcium Carbonate	IS 2720(Part-23) :1976: R-2010
10	CHEMICAL- SOIL AND ROCK	Soil	Organic Matter	IS 2720(Part-22) :1972: R-2015
11	CHEMICAL- SOIL AND ROCK	Soil	pH value	IS 2720(Part-26) :1987: R-2011
12	CHEMICAL- SOIL AND ROCK	Soil	Soluble Solids	IS 2720(Part-21) :1977: R- 2016



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13	CHEMICAL- SOIL AND ROCK	Soil	Water soluble Chloride	USEPA, NRCS, 6K1a Nov. 2004, page 656: 2004
14	CHEMICAL- SOIL AND ROCK	Soil	Water Soluble Sulphate	IS 2720(Part-27) :1977: 2015
15	CHEMICAL- WATER	Construction Water	Acidity	IS: 3025(P-22)-1986 : 2014
16	CHEMICAL- WATER	Construction Water	Alkalinity	IS: 3025(P-23)-1986 : 2014
17	CHEMICAL- WATER	Construction Water	Chloride	IS: 3025 (P-32) 1988 : 2014
18	CHEMICAL- WATER	construction Water	Organic Solid	IS: 3025 (P-18) 1984 : 2012
19	CHEMICAL- WATER	COstruction water	Sulphate	IS: 3025 (P-24) 1986: 2014
20	CHEMICAL- WATER	COstruction Water	Suspended Matter	IS: 3025(P-17)-1984 : 2012
21	CHEMICAL- WATER	Portable Water, Domestic water, Bore water	Calcium	IS 3025(Part-40):1991: 2014
22	CHEMICAL- WATER	Portable Water, Domestic water, Bore water	Chloride	IS 3025 (Part-32): 1988: 2014
23	CHEMICAL- WATER	Portable Water, Domestic water, Bore water	Colour	IS 3025 (Part-4) :1987: 2017
24	CHEMICAL- WATER	Portable Water, Domestic water, Bore water	Magnesium	IS 3025 (Part-46): 1994: 2014
25	CHEMICAL- WATER	Portable Water, Domestic water, Bore water	Odour	IS 3025 (Part-5): 1983: 2017



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26	CHEMICAL- WATER	Portable Water, Domestic water, Bore water	pH Value	IS 3025 (Part-11): 1983: 2017
27	CHEMICAL- WATER	Portable Water, Domestic water, Bore water	Sulphate	IS 3025(Part-24) :1986: 2014
28	CHEMICAL- WATER	Portable Water, Domestic water, Bore water	Taste	IS 3025 (Part-8):1984: 2017
29	CHEMICAL- WATER	Portable Water, Domestic water, Bore water	Total Acidity	IS 3025 (Part-22):1986: 2014
30	CHEMICAL- WATER	Portable Water, Domestic water, Bore water	Total Alkalinity	IS 3025 (Part-23):1986: 2014
31	CHEMICAL- WATER	Portable Water, Domestic water, Bore water	Total Dissolved Solid	IS 3025(Part-16) : 1984: 2006
32	CHEMICAL- WATER	Portable Water, Domestic water, Bore water	Total Hardness	IS 3025(Part-21) : 2009: 2014
33	CHEMICAL- WATER	Portable Water, Domestic water, Bore water	Turbidity	IS 3025 (part-10): 1984 : 2014
34	CHEMICAL- WATER	water construction purpose	Inorganic Solids	IS: 3025 (P-18)1984 : 2012
35	CHEMICAL- WATER	Water for construction	pH Value	IS: 3025 (P-11) 1983: 2012
36	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse/ ballast)	Sieve Analysis(Gradation)	IS 383-2016: 2016
37	MECHANICAL- BUILDINGS MATERIALS	Aggregate(Coarse/Fine)	Alkali Aggregate Reactivity	IS 2386 (Part- 7) : 1963: 2016



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38	MECHANICAL-BUILDINGS MATERIALS	Aggregate(Coarse/Fine)	Organic impurities	IS 2386 (part-2) : 1963: 2016
39	MECHANICAL-BUILDINGS MATERIALS	Bitumen Emulsion	Coagulation of emulsion	IS: 8887- 2014 Annexure-C: 2014
40	MECHANICAL-BUILDINGS MATERIALS	Bitumen Emulsion	Coating ability and water resistance	IS: 8887-2014 Annexure-F: 2014
41	MECHANICAL-BUILDINGS MATERIALS	Bitumen Emulsion	Distillation	IS:1212-1978 : 2009
42	MECHANICAL-BUILDINGS MATERIALS	Bitumen Emulsion	Miscibility with water	IS: 8887- 2014 Annexure-H: 2014
43	MECHANICAL-BUILDINGS MATERIALS	Bitumen Emulsion	Particle charge	IS: 8887 - 2014 Annexure-E: 2014
44	MECHANICAL-BUILDINGS MATERIALS	Bitumen Emulsion	Residue on 600 micron	IS: 8887 - 2014: 2014
45	MECHANICAL-BUILDINGS MATERIALS	Bitumen Emulsion	Stability with mixing with cement	IS: 8887-2104 Annexure-G: 2014
46	MECHANICAL-BUILDINGS MATERIALS	Bitumen Emulsion	Storage stability	IS: 8887- 2014 Annexure-D: 2014



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47	MECHANICAL-BUILDINGS MATERIALS	Bitumen Emulsion	Tests on Residuei) Residue by Evaporation	IS: 8887-2014: 2014
48	MECHANICAL-BUILDINGS MATERIALS	Bitumen Emulsion	Tests on Residueii) Penetration	IS: 1203-1978 : 2009
49	MECHANICAL-BUILDINGS MATERIALS	Bitumen Emulsion	Tests on Residueiii) Ductility	IS: 1208-1978 : 2009
50	MECHANICAL-BUILDINGS MATERIALS	Bitumen Emulsion	Tests on Residueiv) Solubility in Trichloroethylene	IS: 1216-1978 : 2009
51	MECHANICAL-BUILDINGS MATERIALS	Bitumen Emulsion	Viscosity by Saybolt furoI viscometer(i) at 25°C	IS: 8887 – 2014 : 2014
52	MECHANICAL-BUILDINGS MATERIALS	Bitumen Emulsion	Viscosity by Saybolt furoI viscometer(ii) at 50°C	IS: 3117 - 2009: 2009
53	MECHANICAL-BUILDINGS MATERIALS	Bitumen Emulsion	water content	IS: 1212:1978 : 2009
54	MECHANICAL-BUILDINGS MATERIALS	Bitumen Mix	Bitumen Content	IRC Sp-11:1984: 2012
55	MECHANICAL-BUILDINGS MATERIALS	Bricks	Bulk Density (Heavy Burnt Clay)	IS 2180:1988: 2016



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56	MECHANICAL-BUILDINGS MATERIALS	Bricks	Compressive Strength	IS: 3495 (Pt -I)-1992 : 2011
57	MECHANICAL-BUILDINGS MATERIALS	Bricks	Dimensions-Length	IS 2180:1988: 2016
58	MECHANICAL-BUILDINGS MATERIALS	Bricks	Dimensions-Length	IS 1077:1992: 2011
59	MECHANICAL-BUILDINGS MATERIALS	Bricks	Dimensions-Thickness	IS 2180:1988: 2016
60	MECHANICAL-BUILDINGS MATERIALS	Bricks	Dimensions-Thickness	IS 1077:1992 : 2011
61	MECHANICAL-BUILDINGS MATERIALS	Bricks	Dimensions-Width	IS 1077:1992: 2011
62	MECHANICAL-BUILDINGS MATERIALS	Bricks	Dimensions-Width	IS 2180:1988: 2016
63	MECHANICAL-BUILDINGS MATERIALS	Bricks	Efflorescence	IS: 3495 (Pt -III)-1992 : 2011
64	MECHANICAL-BUILDINGS MATERIALS	Bricks	Water absorption	IS:3495 (Pt -II)-1992 : 2011



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65	MECHANICAL-BUILDINGS MATERIALS	Canal Linings - Cement Concrete Tiles	Flexural Strength	IS 10646:1991: 2004
66	MECHANICAL-BUILDINGS MATERIALS	Carase/Ballast	Flakiness Index	IS: 2386 (Part-I)-1963 : 2016
67	MECHANICAL-BUILDINGS MATERIALS	Cement	Compressive Strength	IS: 4031 (Pt-6) 1988 : 2009
68	MECHANICAL-BUILDINGS MATERIALS	Cement	Consistency	IS: 4031 (Pt-4)-1988 : 2009
69	MECHANICAL-BUILDINGS MATERIALS	Cement	Density	IS: 4031 (Pt-11) 1988 : 2014
70	MECHANICAL-BUILDINGS MATERIALS	Cement	Fineness (By Blain Air)	IS: 4031 (Part 2): 1999 : 2008
71	MECHANICAL-BUILDINGS MATERIALS	Cement	Fineness by Seiving (Dry)	IS: 4031 (Part 1): 1999 : 2010
72	MECHANICAL-BUILDINGS MATERIALS	Cement	Setting Time: Final Setting Time	IS: 4031 (Part-5) 1988 : 2015
73	MECHANICAL-BUILDINGS MATERIALS	Cement	Setting Time: Initial Setting Time	IS: 4031 (Part-5) 1988 : 2015



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74	MECHANICAL-BUILDINGS MATERIALS	Cement	Soundness (Autoclave)	IS: 4031 (Part 3): 1988 : 2014
75	MECHANICAL-BUILDINGS MATERIALS	Cement	Soundness (Le-Chatelier Method)	IS: 4031(Pt-3) 1988 : 2014
76	MECHANICAL-BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Dimensions & Visual Examination i) Length	IS 1237: 2012 : 2016
77	MECHANICAL-BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Dimensions & Visual Examination ii) Width	IS 1237: 2012 : 2016
78	MECHANICAL-BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Dimensions & Visual Examination iii) Thickness	IS 1237: 2012 : 2016
79	MECHANICAL-BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Flatness	IS 1237:2012: 2016
80	MECHANICAL-BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Perpendicularity	IS 1237: 2012: 2016
81	MECHANICAL-BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Straightness	IS 1237: 2012: 2016
82	MECHANICAL-BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	wet Transverse strength	IS 1237: 2012: 2016



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83	MECHANICAL-BUILDINGS MATERIALS	Ceramic Tiles	Dimension i) Length	IS 13630 (Part-1) 2006: 2017
84	MECHANICAL-BUILDINGS MATERIALS	Ceramic Tiles	Dimension ii) Width	IS 13630 (Part-1):2006: 2017
85	MECHANICAL-BUILDINGS MATERIALS	Ceramic Tiles	Dimension iii) Thickness	IS 13630 (Part-1): 2006: 2017
86	MECHANICAL-BUILDINGS MATERIALS	Ceramic Tiles	Modulus of Rupture	IS 13630 (Part-6):2006: 2017
87	MECHANICAL-BUILDINGS MATERIALS	Ceramic Tiles	Water Absorption	IS 13630 (Part-2) :2006: 2017
88	MECHANICAL-BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Dimension & Visual Examination iii) Thickness	IS 13801: 2013: 2013
89	MECHANICAL-BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Dimension & Visual Examination ii) Width	IS 13801: 2013: 2013
90	MECHANICAL-BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Dimension & Visual Examination i) Length	IS 13801: 2013: 2013
91	MECHANICAL-BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Flatness	IS 13801: 2013: 2013



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92	MECHANICAL-BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Perpendicularity	IS 13801: 2013: 2013
93	MECHANICAL-BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Straightness	IS 13801: 2013: 2013
94	MECHANICAL-BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	water Absorption	IS 13801: 2013: 2013
95	MECHANICAL-BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	wet Transverse strength	IS 13801: 2013: 2013
96	MECHANICAL-BUILDINGS MATERIALS	Coarse /ballast	Impact Value	IS: 2386 (Part-IV)-1963 : 2016
97	MECHANICAL-BUILDINGS MATERIALS	Coarse/Ballast	10% Fine Value	IS: 2386 (Part-IV)-1963 : 2016
98	MECHANICAL-BUILDINGS MATERIALS	Coarse/Ballast	Bulk Density	IS: 2386 (Part-III)-1963 : 2016
99	MECHANICAL-BUILDINGS MATERIALS	Coarse/Ballast	Crushing Value	IS: 2386 (Part-IV)-1963 : 2016
100	MECHANICAL-BUILDINGS MATERIALS	Coarse/Ballast	Elongation Index	IS: 2386 (Part-I)-1963 : 2016



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101	MECHANICAL-BUILDINGS MATERIALS	Coarse/Ballast	Los Angles Abrasion Value	IS: 2386 (Part-IV)-1963 : 2016
102	MECHANICAL-BUILDINGS MATERIALS	Coarse/Ballast	Material fine then 75 micron	IS: 2386 (Part-I)-1963 : 2016
103	MECHANICAL-BUILDINGS MATERIALS	Coarse/Ballast	Sieve Analysis (Gradation)	IS: 2386 (Part-1)-1963 : 2016
104	MECHANICAL-BUILDINGS MATERIALS	Coarse/Ballast	Soundness Na ₂ So ₄	IS: 2386 (Part-V)-1963 : 2016
105	MECHANICAL-BUILDINGS MATERIALS	Coarse/Ballast	SoundnessMgSo ₄	IS: 2386 (Part-V)-1963 : 2016
106	MECHANICAL-BUILDINGS MATERIALS	Coarse/ballast	Specific Gravity	IS: 2386 (Part-III)-1963: 2016
107	MECHANICAL-BUILDINGS MATERIALS	Coarse/Ballast	Stripping Value	IS: 6241-1971 : 2013
108	MECHANICAL-BUILDINGS MATERIALS	Coarse/Ballast	water Absorption	IS: 2386 (Part-III)-1963 : 2016
109	MECHANICAL-BUILDINGS MATERIALS	Concrete	Accelerated Curing of Concrete for compressive strength	IS: 9013-1978 : 2008



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110	MECHANICAL-BUILDINGS MATERIALS	Concrete	Compressive Strength of Cubes	IS: 516-1959 : 2013
111	MECHANICAL-BUILDINGS MATERIALS	Concrete	Compressive Strength of Cylindrical Core	IS 516-1959 : 2013
112	MECHANICAL-BUILDINGS MATERIALS	Concrete	Work ability by Slump Test	IS: 1199-1959 : 2013
113	MECHANICAL-BUILDINGS MATERIALS	Concrete Hollow and Solid Block	Block Density	IS 2185 (Part-I):2005 : 2010
114	MECHANICAL-BUILDINGS MATERIALS	Concrete Hollow and Solid Block	Compressive Strength	IS 2185 (Part-I):2005 : 2010
115	MECHANICAL-BUILDINGS MATERIALS	Concrete Hollow and Solid Block	Water absorption	IS 2185 (Part-I):2005 : 2010
116	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS: 2386 (Part-III)-1963: 2016
117	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Material fine then 75 micron	IS: 2386 (Part-I)-1963 : 2016
118	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Sand Equivalent Value	IS: 2720 (Part-37)-1963 : 2011



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119	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Sieve analysis (Gradation)	IS 383-2016: 2016
120	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis(Gradation)	IS: 2386 (Part-1)-1963 : 2016
121	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Silt Content	CPWD Specification Vol-1 Clause-3.1.3.2 (Appendix-C): 2009
122	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	SoundnessMgSo4	IS: 2386 (Part-V)-1963 : 2016
123	MECHANICAL-BUILDINGS MATERIALS	Fine aggregate	SoundnessNa2So4	IS: 2386 (Part-V)-1963 : 2016
124	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS: 2386 (Part-III)-1963 : 2016
125	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS: 2386 (Part-III)-1963 : 2016
126	MECHANICAL-BUILDINGS MATERIALS	Fly Ash	Fineness (By Blain Air)	IS: 1727-1967 : 2008
127	MECHANICAL-BUILDINGS MATERIALS	Fly Ash	Residue on 45 micron	S: 1727-1967 : 2008



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128	MECHANICAL-BUILDINGS MATERIALS	Fly Ash	Soundness (Le-Chatelier Method)	IS: 4031 (Part-3): 1988: 2014
129	MECHANICAL-BUILDINGS MATERIALS	Fly Ash	Soundness by Autoclave	IS: 4031 (Part-6): 1988: 2009
130	MECHANICAL-BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Ductility Test	IS: 1208-1978 : 2009
131	MECHANICAL-BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Elastic Recovery at 15°C	IS 15462:2004 : 2014
132	MECHANICAL-BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Flash Point	IS: 1448 (Pt-69) 2013: 2013
133	MECHANICAL-BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Loss on heating	IS 1212- 1978: 2009
134	MECHANICAL-BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Marshal Stability	MS -2: 2006
135	MECHANICAL-BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Marshal Stability	ASTM - D 6927 – 2006: 2006
136	MECHANICAL-BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Penetration Test	IS: 1203-1978 : 2009



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137	MECHANICAL-BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Softening Point	IS: 1205-1978 : 2009
138	MECHANICAL-BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Solubility in Trichloroethylene	IS: 1216 (Pt-2) 1978 : 2009
139	MECHANICAL-BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Specific Gravity	IS 1202-1978 : 2006
140	MECHANICAL-BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Thin Film Oven Test(i) Loss in Mass	IS 9382:1979 : 2014
141	MECHANICAL-BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Thin Film Oven Test(ii) Increase in softening point	IS: 1205-1978: 2009
142	MECHANICAL-BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Thin Film Oven Test (iii) Reduction in penetration of residue	IS: 1203-1978 : 2009
143	MECHANICAL-BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Thin Film Oven Test (iv) Elastic recovery at 25°C	IS 15462:2004 : 2014
144	MECHANICAL-BUILDINGS MATERIALS	Paver Block	Water Absorption	IS: 15658: 2016: 2016
145	MECHANICAL-BUILDINGS MATERIALS	Paver Blocks	Compressive Strength	IS: 15658: 2016: 2016



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146	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Flattening Test of Tubes & pipes	Flattening Test	ASTM SA 370: 2017
147	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Flattening Test of Tubes & pipes	Flattening Test	IS 2328: 2011
148	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Bar	Mass per meter	IS 1786-2012: RA 2017
149	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	% Elongation	IS 1608: 2018
150	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Bend Test	IS 1599-2012: RA2017
151	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Re-bend Test	IS 1786- 2012: RA- 2017
152	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Ultimate Tensile Strength	IS 1608: 2018



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153	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Yield Stress	IS 1608: 2018
154	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel (Plates, Angle channels, beams, Pipes etc.) Steel Casting	Tensile Testing	ASTM SA 370: 2017
155	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel (Plates, Angle channels, beams, Pipes etc.) Steel Casting	UTS	IS 1608: 2018
156	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel (Plates, Angle channels, beams, Pipes etc.) Steel Casting	Bend Test	IS 1599: 2012 : 2017
157	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel (Plates, Angle channels, beams, Pipes etc.) Steel Casting	Bend Test	ASTM A370: 2017
158	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel (Plates, Angle channels, beams, Pipes etc.) Steel Casting	Elongation	ASME Section II A: 2017
159	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel (Plates, Angle channels, beams, Pipes etc.) Steel Casting	Elongation	ASTM SA 370: 2017



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160	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel (Plates, Angle channels, beams, Pipes etc.) Steel Casting	Elongation	IS 1608: 2018
161	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel (Plates, Angle channels, beams, Pipes etc.) Steel Casting	Tensile Testing	ASME Section II A: 2017
162	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel (Plates, Angle channels, beams, Pipes etc.) Steel Casting	Yield Strength	IS 1608: 2018
163	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel (Plates, Angle channels, beams, Pipes etc.) Steel Casting	Yield Strength	ASTM SA 370: 2017
164	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel (Plates, Angle channels, beams, Pipes etc.) Steel Casting	Yield Strength	ASME Section II A: 2015
165	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welded plate and Pipes	Butt weld bend test	IS 814: 2004: 2010
166	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welded plate and Pipes	Guide Bend Test	IS 2825: 1969: RA 2017



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167	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welded plate and Pipes	Tensile Test (Transverse)	IS 3600 Part3: 2017
168	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welded Plates & Pipes	Fracture Test	IS 2825- 1969: 2017
169	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welded Plates & Pipes	Fracture Test	IS 3600 part8-. 1985: RA 2019
170	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welded Plates & Pipes	Fracture Test	ASME (Sec IX): 2017
171	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welded Plates & Pipes	Guide Bend Test	API- 1104 (20th Edition);: 2008
172	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welded Plates & Pipes	Guide Bend Test	ASME (Sec IX): (QW 160, 180): 2017
173	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welded Plates & Pipes	Guide Bend TestMacro, Fracture Test,Nick Break Test	ASME (Sec II) (Part C): 2017



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174	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welded Plates & Pipes	Macro Test	IS 3600 part 9 - 1985: RA2019
175	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welded Plates & Pipes	Macro Test	ASME (Sec IX): 2017
176	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welded Plates & Pipes	Macro Test	IS 2825-1969: 2017
177	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welded Plates & Pipes	Nick Break Test	API- 1104 (20th Edition); 2008
178	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welded Plates & Pipes	Tensile Test (Transverse/ All Weld Tensile)	ASME (Sec IX): (QW 150): 2017
179	MECHANICAL- SOIL AND ROCK	Rock	Relative Density	IS 13030: 1991 : 2016
180	MECHANICAL- SOIL AND ROCK	Rock	Unconfined compressive strength Test	IS 9143: 1979 : 2016
181	MECHANICAL- SOIL AND ROCK	Rock	Water Content	IS 13030: 1991 : 2016
182	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Atterberg's Limit1. Liquid Limit	IS: 2720 (Part 5)-1985 : 2015



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183	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Atterberg's Limit2. Plastic Limit	IS: 2720 (Part 5)-1985 : 2015
184	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	California Bearing Ratio(CBR)	IS:2720(Part-16)1987 : 2011
185	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Compaction Test (Proctor compaction) for light	IS: 2720 (Part VII)-1980 : 2011
186	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Compaction Test(Proctor compaction) for light	IS: 2720 (Part VII)-1980 : 2011
187	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Compaction Test(Proctor compaction)for heavy compaction	IS: 2720 (Part VIII)-1983 : 2015
188	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Consolidation Test	IS 2720 (Part15): 1986 : 2011
189	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Consolidation Test	IS 2720 (Part15): 1986 : 2011
190	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Direct Shear test	IS:2720(Part-13)1986 : 2016
191	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Direct Shear test	IS:2720(Part-13)1986 : 2016
192	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Free Swell Index	IS 2720 (Part XL)-1977 : 2011
193	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Grain Size Analysis1. Sieve Analysis	IS: 2720 (Pt-IV)-1985: 2015
194	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Grain Size Analysis2. Wet Sieve Analysis	IS: 2720 (Pt-IV)-1985: 2015
195	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Grain Size Analysis3. Hydrometer (Clause 5.2)	IS: 2720 (Pt-IV)-1985: 2015



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196	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Permeability Test	IS 2720 (Part36): 1987: 2016
197	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Permeability Test	IS 2720 (Part36): 1987: 2016
198	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Shrinkage Limit	IS: 2720 (Part-6) 1972: 2016
199	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Specific Gravity	IS: 2720 (Pt-III) Sec. 1 1980: 2016
200	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Swelling Pressure	IS 2720(Part 41)-1977 : 2016
201	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Water Content	IS: 2720 (Part-II) 1973: 2015
202	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Compaction Test(Proctor compaction)for heavy compaction	IS: 2720 (Part VIII)- 1983 : 2015



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Site Facility				
1	MECHANICAL- SOIL AND ROCK	Soil/Rock	By sand replacement (on any type of soil other than boulder)	IS 2720 (Part 28): 1975: 2015
2	MECHANICAL- SOIL AND ROCK	Soil/Rock	Cyclic Plate Load Test	IS 5249:1992 : 2010
3	MECHANICAL- SOIL AND ROCK	Soil/Rock	Field CBR Test (On All Types of soils)	IS 2720 (Part 31): 1990: 2015
4	MECHANICAL- SOIL AND ROCK	Soil/Rock	IN Situ Density By Core Cutter (Soil)	IS 2720 (Part 29): 1975: 2015
5	MECHANICAL- SOIL AND ROCK	Soil/Rock	Plate Load Test	IS 1888:1982: 2011
6	MECHANICAL- SOIL AND ROCK	Soil/Rock	Standard Penetration Test	IS 2131:1981: 2016