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, RAJASTHAN, 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- METALS & ALLOYS	Iron & Steel	Carbon (C)	IS 228 (Part 1)
2	CHEMICAL- METALS & ALLOYS	Iron & Steel	Chromium (Cr)	IS: 228 (Part 6)
3	CHEMICAL- METALS & ALLOYS	Iron & Steel	Manganese (Mn)	IS 228 (Part 2)
4	CHEMICAL- METALS & ALLOYS	Iron & Steel	Molybdenum (Mo)	IS 228 (Part 7)
5	CHEMICAL- METALS & ALLOYS	Iron & Steel	Nickel (Ni)	IS 228 (Part 5)
6	CHEMICAL- METALS & ALLOYS	Iron & Steel	Silicon (Si)	IS 228 (Part 8)
7	CHEMICAL- METALS & ALLOYS	Iron & Steel	Sulphur (S)	IS 228 (Part 9)
8	CHEMICAL- METALS & ALLOYS	Iron and Steel	Phosphorus (P)	IS 228 (Part 3)
9	CHEMICAL- SOIL AND ROCK	Soil	Calcium Carbonate	IS 2720 (Part-23)
10	CHEMICAL- SOIL AND ROCK	Soil	Organic Matter	IS 2720 (Part-22)
11	CHEMICAL- SOIL AND ROCK	Soil	pH	IS 2720 (Part-26)
12	CHEMICAL- SOIL AND ROCK	Soil	Soluble Solids	IS 2720 (Part-21)
13	CHEMICAL- SOIL AND ROCK	Soil	Water soluble Chloride	USEPA, NRCS, 6K1a, page 656
14	CHEMICAL- SOIL AND ROCK	Soil	Water Soluble Sulphate	IS 2720 (Part-27)
15	CHEMICAL- WATER	Construction Water	Acidity	IS: 3025 (P-22)
16	CHEMICAL- WATER	Construction Water	Alkalinity	IS 3025 (P-23)
17	CHEMICAL- WATER	Construction Water	Chloride	IS 3025 (P-32)
18	CHEMICAL- WATER	Construction Water	Inorganic Solids	IS 3025 (P-18)
19	CHEMICAL- WATER	Construction Water	Organic Solid	IS 3025 (P-18)
20	CHEMICAL- WATER	Construction Water	pH	IS 3025 (P-11)
21	CHEMICAL- WATER	Construction water	Sulphate	IS 3025 (P-24)

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22	CHEMICAL- WATER	Construction Water	Suspended Matter	IS 3025 (P-17)
23	CHEMICAL- WATER	Portable Water,Domestic water,Bore water	Calcium	IS 3025 (Part-40)
24	CHEMICAL- WATER	Portable Water,Domestic water,Bore water	Chloride	IS 3025 (Part-32)
25	CHEMICAL- WATER	Portable Water,Domestic water,Bore water	Colour	IS 3025 (Part-4)
26	CHEMICAL- WATER	Portable Water,Domestic water,Bore water	Magnesium	IS 3025 (Part-46)
27	CHEMICAL- WATER	Portable Water,Domestic water,Bore water	Odour	IS 3025 (Part-5)
28	CHEMICAL- WATER	Portable Water,Domestic water,Bore water	pH	IS 3025 (Part-11)
29	CHEMICAL- WATER	Portable Water,Domestic water,Bore water	Sulphate	IS 3025 (Part-24)
30	CHEMICAL- WATER	Portable Water,Domestic water,Bore water	Taste	IS 3025 (Part-8)
31	CHEMICAL- WATER	Portable Water,Domestic water,Bore water	Total Acidity	IS 3025 (Part-22)
32	CHEMICAL- WATER	Portable Water,Domestic water,Bore water	Total Alkalinity	IS 3025 (Part-23)
33	CHEMICAL- WATER	Portable Water,Domestic water,Bore water	Total Dissolved Solid	IS 3025 (Part-16)
34	CHEMICAL- WATER	Portable Water,Domestic water,Bore water	Total Hardness	IS 3025 (Part-21)
35	CHEMICAL- WATER	Portable Water,Domestic water,Bore water	Turbidity	IS 3025 (Part-10)
36	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Coagulation of emulsion	IS: 8887, Annexure-C
37	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Coating ability and water resistance	IS: 8887, Annexure-F
38	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Distillation	IS 1212
39	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Miscibility with water	IS: 8887, Annexure-H
40	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Particle charge	IS: 8887, Annexure-E
41	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Residue on 600 micron	IS: 8887
42	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Stability with mixing with cement	IS: 8887, Annexure-G
43	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Storage stability	IS 8887, Annexure-D
44	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Tests on Residue - Ductility	IS 1208
45	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Tests on Residue - Penetration	IS 1203

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46	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Tests on Residue - Residue by Evaporation	IS 8887
47	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Tests on Residue iv) Solubility in Trichloroethylene	IS 1216
48	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Viscosity by Saybolt furol viscometer at 25°C	IS 8887
49	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Viscosity by Saybolt furol viscometer at 50°C	IS 3117
50	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	water content	IS 1212
51	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix	Bitumen Content	IRC Sp-11
52	MECHANICAL- BUILDINGS MATERIALS	Bricks	Bulk Density (Heavy Burnt Clay)	IS 2180
53	MECHANICAL- BUILDINGS MATERIALS	Bricks	Compressive Strength	IS 3495 (Part -I)
54	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimensions-Length	IS 1077
55	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimensions-Length	IS 2180
56	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimensions-Thickness	IS 1077
57	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimensions-Thickness	IS 2180
58	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimensions-Width	IS 1077
59	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimensions-Width	IS 2180
60	MECHANICAL- BUILDINGS MATERIALS	Bricks	Efflorescence	IS 3495 (Part -III)
61	MECHANICAL- BUILDINGS MATERIALS	Bricks	Water absorption	IS 3495 (Part -II)
62	MECHANICAL- BUILDINGS MATERIALS	Canal Linings - Cement Concrete Tiles	Flexural Strength	IS 10646:1991
63	MECHANICAL- BUILDINGS MATERIALS	Cement	Compressive Strength	IS 4031 (Pt-6)
64	MECHANICAL- BUILDINGS MATERIALS	Cement	Consistency	IS 4031 (Pt-4)

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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
65	MECHANICAL- BUILDINGS MATERIALS	Cement	Density	IS 4031 (Pt-11)
66	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness (By Blain Air)	IS 4031 (Part 2)
67	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness by Seiving (Dry)	IS 4031 (Part 1)
68	MECHANICAL- BUILDINGS MATERIALS	Cement	Setting Time: Final Setting Time	IS 4031 (Part-5)
69	MECHANICAL- BUILDINGS MATERIALS	Cement	Setting Time: Initial Setting Time	IS 4031 (Part-5)
70	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness (Autoclave)	IS 4031 (Part 3)
71	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness (Le-Chatelier Method)	IS 4031 (Part-3)
72	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Dimensions & Visual Examination - Length	IS 1237
73	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Dimensions & Visual Examination - Thickness	IS 1237
74	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Dimensions & Visual Examination - Width	IS 1237
75	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Flatness	IS 1237
76	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Perpendicularity	IS 1237
77	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Straightness	IS 1237
78	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Wet Transverse strength	IS 1237
79	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Dimension - Length	IS 13630 (Part-1)
80	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Dimension - Thickness	IS 13630 (Part-1)
81	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Dimension - Width	IS 13630 (Part-1)
82	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Water Absorption	IS 13630 (Part-2)
83	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Dimension & Visual Examination - Thickness	IS 13801

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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
84	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Dimension & Visual Examination - Width	IS 13801
85	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Dimension & Visual Examination -Length	IS 13801
86	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Flatness	IS 13801
87	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Perpendicularity	IS 13801
88	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Straightness	IS 13801
89	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Water Absorption	IS 13801
90	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Wet Transverse strength	IS 13801
91	MECHANICAL- BUILDINGS MATERIALS	Coarse /ballast	Impact Value	IS 2386 (Part-IV)
92	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Alkali Aggregate Reactivity	IS 2386 (Part- 7)
93	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Organic Impurity	IS 2386 (Part 2)
94	MECHANICAL- BUILDINGS MATERIALS	Coarse,Ballast	Flakiness Index	IS 2386 (Part-I)
95	MECHANICAL- BUILDINGS MATERIALS	Coarse/Ballast	10% Fine's Value	IS 2386 (Part-IV)
96	MECHANICAL- BUILDINGS MATERIALS	Coarse/Ballast	Bulk Density	IS 2386 (Part-III)
97	MECHANICAL- BUILDINGS MATERIALS	Coarse/Ballast	Crushing Value	IS 2386 (Part-IV)
98	MECHANICAL- BUILDINGS MATERIALS	Coarse/Ballast	Elongation Index	IS 2386 (Part-I)
99	MECHANICAL- BUILDINGS MATERIALS	Coarse/Ballast	Los Angles Abrasion Value	IS 2386 (Part-IV)
100	MECHANICAL- BUILDINGS MATERIALS	Coarse/Ballast	Material fine then 75 micron	IS 2386 (Part-I)
101	MECHANICAL- BUILDINGS MATERIALS	Coarse/Ballast	Sieve Analysis (Gradation)	IS 2386 (Part-1)
102	MECHANICAL- BUILDINGS MATERIALS	Coarse/Ballast	Soundness MgSo4	IS 2386 (Part-V)

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103	MECHANICAL- BUILDINGS MATERIALS	Coarse/Ballast	Soundness Na2So4	IS 2386 (Part-V)
104	MECHANICAL- BUILDINGS MATERIALS	Coarse/ballast	Specific Gravity	IS 2386 (Part-III)
105	MECHANICAL- BUILDINGS MATERIALS	Coarse/Ballast	Stripping Value	IS 6241
106	MECHANICAL- BUILDINGS MATERIALS	Coarse/Ballast	Water Absorption	IS 2386 (Part-III)
107	MECHANICAL- BUILDINGS MATERIALS	Concrete	Accelerated Curing of Concrete for compressive strength	IS 9013
108	MECHANICAL- BUILDINGS MATERIALS	Concrete	Compressive Strength of Cubes	IS 516
109	MECHANICAL- BUILDINGS MATERIALS	Concrete	Compressive Strength of Cylindrical Core	IS 516
110	MECHANICAL- BUILDINGS MATERIALS	Concrete	Work ability by Slump Test	IS 1199
111	MECHANICAL- BUILDINGS MATERIALS	Concrete Hollow and Solid Block	Block Density	IS 2185 (Part-I)
112	MECHANICAL- BUILDINGS MATERIALS	Concrete Hollow and Solid Block	Compressive Strength	IS 2185 (Part-I)
113	MECHANICAL- BUILDINGS MATERIALS	Concrete Hollow and Solid Block	Water absorption	IS 2185 (Part-I)
114	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Alkali Aggregate Reactivity	IS 2386 (Part- 7)
115	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (Part-III)
116	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Material fine then 75 micron	IS 2386 (Part-I)
117	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Organic impurities	IS 2386 (Part-2)
118	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sand Equivalent Value	IS 2720 (Part-37)
119	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis(Gradation)	IS 2386 (Part-1)
120	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Silt Content	CPWD Specification Vol-1 Clause-3.1.3.2 (Appendix-C)
121	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness MgSo4	IS 2386 (Part-V)

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122	MECHANICAL- BUILDINGS MATERIALS	Fine aggregate	Soundness Na2So4	IS 2386 (Part-V)
123	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part-III)
124	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part-III)
125	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Fineness (By Blain Air)	IS 1727
126	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Residue on 45 micron	IS 1727
127	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Soundness (Le-Chatelier Method)	IS 4031 (Part-3)
128	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Soundness by Autoclave	IS 4031 (Part-6)
129	MECHANICAL- BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Thin Film Oven Test - Elastic recovery at 25°C	IS 15462
130	MECHANICAL- BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Thin Film Oven Test - Reduction in penetration of residue	IS 1203
131	MECHANICAL- BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Ductility Test	IS 1208
132	MECHANICAL- BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Elastic Recovery at 15°C	IS 15462
133	MECHANICAL- BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Flash Point	IS 1448 (Part-69)
134	MECHANICAL- BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Loss on heating	IS 1212
135	MECHANICAL- BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Marshal Stability	ASTM D6927
136	MECHANICAL- BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Penetration Test	IS 1203
137	MECHANICAL- BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Softening Point	IS 1205
138	MECHANICAL- BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Solubility in Trichloroethylene	IS 1216 (Part-2)
139	MECHANICAL- BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Specific Gravity	IS 1202

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140	MECHANICAL- BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Thin Film Oven Test - Increase in softening point	IS 1205
141	MECHANICAL- BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Thin Film Oven Test - Loss in Mass	IS 9382
142	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Water Absorption	IS 15658
143	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Compressive Strength	IS 15658
144	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Flattening Test of Tubes &pipes	Flattening Test	ASTM SA 370
145	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Flattening Test of Tubes &pipes	Flattening Test	IS 2328
146	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Bar	Mass per meter	IS 1786
147	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	% Elongation	IS 1608
148	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Bend Test	IS 1599
149	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Re-bend Test	IS 1786
150	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Ultimate Tensile Strength	IS 1608
151	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Yield Stress	IS 1608
152	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel (Plates, Angle channels, beams, Pipes etc.) Steel Casting	Tensile Testing	ASTM SA 370
153	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel (Plates, Angle channels, beams, Pipes etc.) Steel Casting	UTS	IS 1608
154	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel (Plates, Angle channels, beams, Pipes etc.) Steel Casting	Bend Test	ASTM A370

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155	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel (Plates, Angle channels, beams, Pipes etc.) Steel Casting	Bend Test	IS 1599
156	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel (Plates, Angle channels, beams, Pipes etc.) Steel Casting	Elongation	ASME Section II A
157	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel (Plates, Angle channels, beams, Pipes etc.) Steel Casting	Elongation	ASTM SA 370
158	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel (Plates, Angle channels, beams, Pipes etc.) Steel Casting	Elongation	IS 1608
159	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel (Plates, Angle channels, beams, Pipes etc.) Steel Casting	Tensile Testing	ASME Section II A
160	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel (Plates, Angle channels, beams, Pipes etc.) Steel Casting	Yield Strength	ASME Section II A
161	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel (Plates, Angle channels, beams, Pipes etc.) Steel Casting	Yield Strength	ASTM SA 370
162	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel (Plates, Angle channels, beams, Pipes etc.) Steel Casting	Yield Strength	IS 1608
163	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded plate and Pipes	Butt weld bend test	IS 814
164	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded plate and Pipes	Guide Bend Test	IS 2825
165	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded plate and Pipes	Tensile Test (Transverse)	IS 3600 (Part 3)
166	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plates & Pipes	Fracture Test	ASME (Sec IX)
167	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plates & Pipes	Fracture Test	IS 2825
168	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plates & Pipes	Fracture Test	IS 3600 (Part 8)

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169	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plates & Pipes	Guide Bend Test	API- 1104 (20th Edition),
170	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plates & Pipes	Guide Bend Test	ASME (Sec IX): (QW 160, 180)
171	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plates & Pipes	Guide Bend Test Macro, Fracture Test, Nick Break Test	ASME (Sec II) (Part C)
172	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plates & Pipes	Macro Test	ASME (Sec IX)
173	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plates & Pipes	Macro Test	IS 2825
174	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plates & Pipes	Macro Test	IS 3600 (Part 9)
175	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plates & Pipes	Nick Break Test	API- 1104 (20th Edition),
176	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plates & Pipes	Tensile Test (Transverse/ All Weld Tensile)	ASME (Sec IX): (QW 150)
177	MECHANICAL- SOIL AND ROCK	Rock	Relative Density	IS 13030
178	MECHANICAL- SOIL AND ROCK	Rock	Unconfined compressive strength	IS 9143
179	MECHANICAL- SOIL AND ROCK	Rock	Water Content	IS 13030
180	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Compaction Test -Proctor compaction for heavy compaction (Density)	IS 2720 (Part VIII)
181	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Atterberg's Limit 1. Liquid Limit	IS 2720 (Part 5)
182	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Atterberg's Limit 2. Plastic Limit	IS 2720 (Part 5)
183	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	California Bearing Ratio(CBR)	IS 2720 (Part-16)

SCOPE OF ACCREDITATION

Laboratory Name :	C & I SYSTEMS, H-13(D), ELECTRONIC COMPLEX, ROAD NO-1, I.P.I.A., KOTA, RAJASTHAN, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5862	**Page No**	11 of 12
Validity	30/06/2022 to 29/06/2024	**Last Amended on**	01/07/2022

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
184	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Compaction Test - Proctor compaction for light (Density)	IS 2720 (Part VII)
185	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Compaction Test - Proctor compaction for light (Moisture Content)	IS 2720 (Part VII)
186	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Compaction Test -Proctor compaction for heavy compaction (Moisture Content)	IS 2720 (Part VIII)
187	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Consolidation Test	IS 2720 (Part 15)
188	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Consolidation Test	IS 2720 (Part 15)
189	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Direct Shear test	IS 2720 (Part 13)
190	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Direct Shear test	IS 2720 (Part-13)
191	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Free Swell Index	IS 2720 (Part XL)
192	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Grain Size Analysis 1. Sieve Analysis	IS 2720 (Part IV)
193	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Grain Size Analysis 2. Wet Sieve Analysis	IS 2720 (Part IV)
194	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Grain Size Analysis 3. Hydrometer (Clause 5.2)	IS 2720 (Part IV)
195	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Permeability Test	IS 2720 (Part 17)
196	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Shrinkage Limit	IS 2720 (Part-6)
197	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Specific Gravity	IS 2720 (Pt-III) Sec. 1
198	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Swelling Pressure	IS 2720 (Part 41)
199	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Water Content	IS 2720 (Part-II)

SCOPE OF ACCREDITATION

Laboratory Name :	C & I SYSTEMS, H-13(D), ELECTRONIC COMPLEX, ROAD NO-1, I.P.I.A., KOTA, RAJASTHAN, 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
Site Facility				
1	MECHANICAL- SOIL AND ROCK	Soil/Rock	By sand replacement (on any type of soil other than boulder)	IS 2720 (Part 28)
2	MECHANICAL- SOIL AND ROCK	Soil/Rock	Cyclic Plate Load	IS 5249
3	MECHANICAL- SOIL AND ROCK	Soil/Rock	Field CBR Test (On All Types of soils)	IS 2720 (Part 31)
4	MECHANICAL- SOIL AND ROCK	Soil/Rock	IN Situ Density By Core Cutter (Soil)	IS 2720 (Part 29)
5	MECHANICAL- SOIL AND ROCK	Soil/Rock	Plate Load Test	IS 1888
6	MECHANICAL- SOIL AND ROCK	Soil/Rock	Standard Penetration Test	IS 2131