



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, RAJASTHAN, INDIA

in the field of

TESTING

Certificate Number: TC-5862

Issue Date: 30/06/2019

Valid Until: 29/06/2021*

*The validity is extended for one year up to 29.06.2022

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)

Name of Legal Identity : C&I SYSTEMS

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, 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 & Ferro Alloys Special Steel	Phosphorus(P)	IS: 228 (Part 3)
2	CHEMICAL- METALS & ALLOYS	Iron, Steel & Ferro Alloys Special Steel	Carbon (C)	IS:228 (Part 1):1987
3	CHEMICAL- METALS & ALLOYS	Iron, Steel & Ferro Alloys Special Steel	Chromium(Cr)	IS: 228 (Part 6):2001
4	CHEMICAL- METALS & ALLOYS	Iron, Steel & Ferro Alloys Special Steel	Manganese (Mn)	IS: 228 (Part 2):1987
5	CHEMICAL- METALS & ALLOYS	Iron, Steel & Ferro Alloys Special Steel	Molybdenum (Mo)	IS:228 (Part 7): 2001
6	CHEMICAL- METALS & ALLOYS	Iron, Steel & Ferro Alloys Special Steel	Nickel (Ni)	IS: 228 (Part 5): 1987
7	CHEMICAL- METALS & ALLOYS	Iron, Steel & Ferro Alloys Special Steel	Silicon(Si)	IS: 228 (Part 8):1989
8	CHEMICAL- METALS & ALLOYS	Iron, Steel & Ferro Alloys Special Steel	Sulphur(S)	IS:228 (Part 9):1989
9	CHEMICAL- SOIL AND ROCK	Soil	Calcium Carbonate	IS 2720(Part-23) :1976
10	CHEMICAL- SOIL AND ROCK	Soil	Organic Matter	IS 2720(Part-22) :1972
11	CHEMICAL- SOIL AND ROCK	Soil	pH value	IS 2720(Part-26) :1987
12	CHEMICAL- SOIL AND ROCK	Soil	Soluble Solids	IS 2720(Part-21) :1977
13	CHEMICAL- SOIL AND ROCK	Soil	Water soluble Chloride	USEPA, NRCS, 6K1a Nov. 2004, page 656
14	CHEMICAL- SOIL AND ROCK	Soil	Water Soluble Sulphate	IS 2720(Part-27) :1977
15	CHEMICAL- WATER	Construction Water	Acidity	IS: 3025(P-22)-1986
16	CHEMICAL- WATER	Construction Water	Alkalinity	IS: 3025(P-23)-1986
17	CHEMICAL- WATER	Construction Water	Chloride	IS: 3025 (P-32) 1988
18	CHEMICAL- WATER	construction Water	Organic Solid	IS: 3025 (P-18) 1984
19	CHEMICAL- WATER	COstruction water	Sulphate	IS: 3025 (P-24) 1986
20	CHEMICAL- WATER	COstruction Water	Suspended Matter	IS: 3025(P-17)-1984



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21	CHEMICAL- WATER	Portable Water,Domestic water,Bore water	Calcium	IS 3025(Part-40):1991
22	CHEMICAL- WATER	Portable Water,Domestic water,Bore water	Chloride	IS 3025 (Part-32): 1988
23	CHEMICAL- WATER	Portable Water,Domestic water,Bore water	Colour	IS 3025 (Part-4) :1987
24	CHEMICAL- WATER	Portable Water,Domestic water,Bore water	Magnesium	IS 3025 (Part-46): 1994
25	CHEMICAL- WATER	Portable Water,Domestic water,Bore water	Odour	IS 3025 (Part-5): 1983
26	CHEMICAL- WATER	Portable Water,Domestic water,Bore water	pH Value	IS 3025 (Part-11): 1983
27	CHEMICAL- WATER	Portable Water,Domestic water,Bore water	Sulphate	IS 3025(Part-24) :1986
28	CHEMICAL- WATER	Portable Water,Domestic water,Bore water	Taste	IS 3025 (Part-8):1984
29	CHEMICAL- WATER	Portable Water,Domestic water,Bore water	Total Acidity	IS 3025 (Part-22):1986
30	CHEMICAL- WATER	Portable Water,Domestic water,Bore water	Total Alkalinity	IS 3025 (Part-23):1986
31	CHEMICAL- WATER	Portable Water,Domestic water,Bore water	Total Dissolved Solid	IS 3025(Part-16) : 1984
32	CHEMICAL- WATER	Portable Water,Domestic water,Bore water	Total Hardness	IS 3025(Part-21) : 2009
33	CHEMICAL- WATER	Portable Water,Domestic water,Bore water	Turbidity	IS 3025 (part-10): 1984
34	CHEMICAL- WATER	water consruction purpose	Inorganic Solids	IS: 3025 (P-18)1984
35	CHEMICAL- WATER	Water for construction	pH Value	IS: 3025 (P-11) 1983
36	MECHANICAL- BUILDINGS MATERIALS	Aggregate (Coarse/ ballast)	Sieve Analysis(Gradation)	IS 383-2016
37	MECHANICAL- BUILDINGS MATERIALS	Aggregate(Coarse/Fine)	Alkali Aggregate Reactivity	IS 2386 (Part- 7) : 1963
38	MECHANICAL- BUILDINGS MATERIALS	Aggregate(Coarse/Fine)	Organic impurities	IS 2386 (part-2) : 1963
39	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Coagulation of emulsion	IS: 8887- 2014 Annexure-C
40	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Coating ability and water resistance	IS: 8887-2014 Annexure-F
41	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Distillation	IS:1212-1978
42	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Miscibility with water	IS: 8887- 2014 Annexure-H
43	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Particle charge	IS: 8887 - 2014 Annexure-E
44	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Residue on 600 micron	IS: 8887 - 2014



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45	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Stability with mixing with cement	IS: 8887-2104 Annexure-G
46	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Storage stability	IS: 8887- 2014 Annexure-D
47	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Tests on Residue i) Residue by Evaporation	IS: 8887-2014
48	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Tests on Residue ii) Penetration	IS: 1203-1978
49	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Tests on Residue iii) Ductility	IS: 1208-1978
50	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Tests on Residue iv) Solubility in Trichloroethylene	IS: 1216-1978
51	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Viscosity by Saybolt furoil viscometer (i) at 25°C	IS: 8887 - 2014
52	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Viscosity by Saybolt furoil viscometer (ii) at 50°C	IS: 3117 - 2009
53	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	water content	IS: 1212:1978
54	MECHANICAL- BUILDINGS MATERIALS	Bitumen Mix	Bitumen Content	IRC Sp-11:1984
55	MECHANICAL- BUILDINGS MATERIALS	Bricks	Bulk Density (Heavy Burnt Clay)	IS 2180:1988
56	MECHANICAL- BUILDINGS MATERIALS	Bricks	Compressive Strength	IS: 3495 (Pt -I)-1992
57	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimensions-Length	IS 1077:1992
58	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimensions-Length	IS 2180:1988
59	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimensions-Thickness	IS 1077:1992
60	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimensions-Thickness	IS 2180:1988
61	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimensions-Width	IS 1077:1992
62	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimensions-Width	IS 2180



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63	MECHANICAL- BUILDINGS MATERIALS	Bricks	Efflorescence	IS: 3495 (Pt -III)-1992
64	MECHANICAL- BUILDINGS MATERIALS	Bricks	Water absorption	IS:3495 (Pt -II)-1992
65	MECHANICAL- BUILDINGS MATERIALS	Canal Linings - Cement Concrete Tiles	Flexural Strength	IS 10646:1991
66	MECHANICAL- BUILDINGS MATERIALS	Carse/Ballast	Flakiness Index	IS: 2386 (Part-I)-1963
67	MECHANICAL- BUILDINGS MATERIALS	Cement	Compressive Strength	IS: 4031 (Pt-6) 1988
68	MECHANICAL- BUILDINGS MATERIALS	Cement	Consistency	IS: 4031 (Pt-4)-1988
69	MECHANICAL- BUILDINGS MATERIALS	Cement	Density	IS: 4031 (Pt-11) 1988
70	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness (By Blain Air)	IS: 4031 (Part 2): 1999
71	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness by Seiving (Dry)	IS: 4031 (Part 1): 1999
72	MECHANICAL- BUILDINGS MATERIALS	Cement	Setting Time: Final Setting Time	IS: 4031 (Part-5) 1988
73	MECHANICAL- BUILDINGS MATERIALS	Cement	Setting Time: Initial Setting Time	IS: 4031 (Part-5) 1988
74	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness (Autoclave)	IS: 4031 (Part 3): 1988
75	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness (Le-Chatelier Method)	IS: 4031(Pt-3) 1988
76	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Dimensions & Visual Examination i) Length	IS 1237: 2012
77	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Dimensions & Visual Examination ii) Width	IS 1237: 2012
78	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Dimensions & Visual Examination iii) Thickness	IS 1237: 2012
79	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Flatness	IS 1237:2012
80	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Perpendicularity	IS 1237: 2012



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81	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Straightness	IS 1237: 2012
82	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	wet Transverse strength	IS 1237: 2012
83	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Dimension i) Length	IS 13630 (Part-1) 2006
84	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Dimension ii) Width	IS 13630 (Part-1):2006
85	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Dimension iii) Thickness	IS 13630 (Part-1): 2006
86	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Modulus of Rupture	IS 13630 (Part-6):2006
87	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Water Absorption	IS 13630 (Part-2) :2006
88	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Dimension & Visual Examination iii) Thickness	IS 13801: 2013
89	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Dimension & Visual Examination ii) Width	IS 13801: 2013
90	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Dimension & Visual Examination i) Length	IS 13801: 2013
91	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Flatness	IS 13801: 2013
92	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Perpendicularity	IS 13801: 2013
93	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Straightness	IS 13801: 2013
94	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	water Absorption	IS 13801: 2013
95	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	wet Transverse strength	IS 13801: 2013
96	MECHANICAL- BUILDINGS MATERIALS	Coarse /ballast	Impact Value	IS: 2386 (Part-IV)-1963
97	MECHANICAL- BUILDINGS MATERIALS	Coarse/Ballast	10% Fine Value	IS: 2386 (Part-IV)-1963
98	MECHANICAL- BUILDINGS MATERIALS	Coarse/Ballast	Bulk Density	IS: 2386 (Part-III)-1963



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99	MECHANICAL- BUILDINGS MATERIALS	Coarse/Ballast	Crushing Value	IS: 2386 (Part-IV)-1963
100	MECHANICAL- BUILDINGS MATERIALS	Coarse/Ballast	Elongation Index	IS: 2386 (Part-I)-1963
101	MECHANICAL- BUILDINGS MATERIALS	Coarse/Ballast	Los Angles Abrasion Value	IS: 2386 (Part-IV)-1963
102	MECHANICAL- BUILDINGS MATERIALS	Coarse/Ballast	Material fine then 75 micron	IS: 2386 (Part-I)-1963
103	MECHANICAL- BUILDINGS MATERIALS	Coarse/Ballast	Sieve Analysis (Gradation)	IS: 2386 (Part-1)-1963
104	MECHANICAL- BUILDINGS MATERIALS	Coarse/Ballast	Soundness Na ₂ So ₄	IS: 2386 (Part-V)-1963
105	MECHANICAL- BUILDINGS MATERIALS	Coarse/Ballast	Soundness MgSo ₄	IS: 2386 (Part-V)-1963
106	MECHANICAL- BUILDINGS MATERIALS	Coarse/ballast	Specific Gravity	IS: 2386 (Part-III)-1963
107	MECHANICAL- BUILDINGS MATERIALS	Coarse/Ballast	Stripping Value	IS: 6241-1971
108	MECHANICAL- BUILDINGS MATERIALS	Coarse/Ballast	water Absorption	IS: 2386 (Part-III)-1963
109	MECHANICAL- BUILDINGS MATERIALS	Concrete	Accelerated Curing of Concrete for compressive strength	IS: 9013-1978
110	MECHANICAL- BUILDINGS MATERIALS	Concrete	Compressive Strength of Cubes	IS: 516-1959
111	MECHANICAL- BUILDINGS MATERIALS	Concrete	Compressive Strength of Cylindrical Core	IS 516-1959
112	MECHANICAL- BUILDINGS MATERIALS	Concrete	Work ability by Slump Test	IS: 1199-1959
113	MECHANICAL- BUILDINGS MATERIALS	Concrete Hollow and Solid Block	Block Density	IS 2185 (Part-I):2005
114	MECHANICAL- BUILDINGS MATERIALS	Concrete Hollow and Solid Block	Compressive Strength	IS 2185 (Part-I):2005
115	MECHANICAL- BUILDINGS MATERIALS	Concrete Hollow and Solid Block	Water absorption	IS 2185 (Part-I):2005
116	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS: 2386 (Part-III)-1963



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117	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Material fine then 75 micron	IS: 2386 (Part-I)-1963
118	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sand Equivalent Value	IS: 2720 (Part-37)-1963
119	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve analysis (Gradation)	IS 383-2016
120	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis(Gradation)	IS: 2386 (Part-1)-1963
121	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Silt Content	CPWD Specification Vol-1 Clause-3.1.3.2 (Appendix-C)
122	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness MgSo4	IS: 2386 (Part-V)-1963
123	MECHANICAL- BUILDINGS MATERIALS	Fine aggregate	Soundness Na2So4	IS: 2386 (Part-V)-1963
124	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS: 2386 (Part-III)-1963
125	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS: 2386 (Part-III)-1963
126	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Fineness (By Blain Air)	IS: 1727-1967
127	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Residue on 45 micron	S: 1727-1967
128	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Soundness (Le-Chatelier Method)	IS: 4031 (Part-3): 1988
129	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Soundness by Autoclave	IS: 4031 (Part-6): 1988
130	MECHANICAL- BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Thin Film Oven Test (iii) Reduction in penetration of residue	IS: 1203-1978
131	MECHANICAL- BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Thin Film Oven Test (iv) Elastic recovery at 25°C	IS 15462:2004
132	MECHANICAL- BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Ductility Test	IS: 1208-1978
133	MECHANICAL- BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Elastic Recovery at 15°C	IS 15462:2004
134	MECHANICAL- BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Flash Point	IS: 1448 (Pt-69) 2013



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135	MECHANICAL- BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Loss on heating	IS 1212- 1978
136	MECHANICAL- BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Marshal Stability	ASTM - D 6927 - 2006
137	MECHANICAL- BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Marshal Stability	MS -2
138	MECHANICAL- BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Penetration Test	IS: 1203-1978
139	MECHANICAL- BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Softening Point	IS: 1205-1978
140	MECHANICAL- BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Solubility in Trichloroethylene	IS: 1216 (Pt-2) 1978
141	MECHANICAL- BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Specific Gravity	IS 1202-1978
142	MECHANICAL- BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Thin Film Oven Test (i) Loss in Mass	IS 9382:1979
143	MECHANICAL- BUILDINGS MATERIALS	Industrial Bitumen/Paving Bitumen/Polymer Modified Bitumen	Thin Film Oven Test (ii) Increase in softening point	IS: 1205-1978
144	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Water Absorption	IS: 15658: 2016
145	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Compressive Strength	IS: 15658: 2016
146	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Flattening Test of Tubes & pipes	Flattening Test	ASTM SA 370
147	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Flattening Test of Tubes & pipes	Flattening Test	IS 2328
148	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Bar	Mass per meter	IS 1786-2012
149	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	% Elongation	IS 1608
150	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Bend Test	IS I599-2012



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151	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Re-bend Test	IS 1786- 2012
152	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Ultimate Tensile Strength	IS 1608
153	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Yield Stress	IS 1608
154	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel (Plates, Angle channels, beams, Pipes etc.) Steel Casting	Tensile Testing	ASTM SA 370
155	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel (Plates, Angle channels, beams, Pipes etc.) Steel Casting	UTS	IS 1608
156	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel (Plates, Angle channels, beams, Pipes etc.) Steel Casting	Bend Test	ASTM A370
157	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel (Plates, Angle channels, beams, Pipes etc.) Steel Casting	Bend Test	IS 1599: 2012
158	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel (Plates, Angle channels, beams, Pipes etc.) Steel Casting	Elongation	ASME Section II A
159	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel (Plates, Angle channels, beams, Pipes etc.) Steel Casting	Elongation	ASTM SA 370
160	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel (Plates, Angle channels, beams, Pipes etc.) Steel Casting	Elongation	IS 1608
161	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel (Plates, Angle channels, beams, Pipes etc.) Steel Casting	Tensile Testing	ASME Section II A
162	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel (Plates, Angle channels, beams, Pipes etc.) Steel Casting	Yield Strength	ASME Section II A
163	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel (Plates, Angle channels, beams, Pipes etc.) Steel Casting	Yield Strength	ASTM SA 370



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Certificate Number	TC-5862		
Validity	30/06/2019 to 29/06/2021*		

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164	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel (Plates, Angle channels, beams, Pipes etc.) Steel Casting	Yield Strength	IS 1608
165	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded plate and Pipes	Butt weld bend test	IS 814: 2004
166	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded plate and Pipes	Guide Bend Test	IS 2825: 1969
167	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded plate and Pipes	Tensile Test (Transverse)	IS 3600 Part3
168	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plates & Pipes	Fracture Test	ASME (Sec IX)
169	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plates & Pipes	Fracture Test	IS 2825- 1969
170	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plates & Pipes	Fracture Test	IS 3600 part8-. 1985
171	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plates & Pipes	Guide Bend Test	API- 1104 (20th Edition),
172	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plates & Pipes	Guide Bend Test	ASME (Sec IX): (QW 160, 180)
173	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plates & Pipes	Guide Bend Test Macro, Fracture Test, Nick Break Test	ASME (Sec II) (Part C)
174	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plates & Pipes	Macro Test	ASME (Sec IX)
175	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plates & Pipes	Macro Test	IS 2825-1969
176	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plates & Pipes	Macro Test	IS 3600 part 9 - 1985



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177	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welded Plates & Pipes	Nick Break Test	API- 1104 (20th Edition),
178	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welded Plates & Pipes	Tensile Test (Transverse/ All Weld Tensile)	ASME (Sec IX): (QW 150)
179	MECHANICAL- SOIL AND ROCK	Rock	Relative Density	IS 13030: 1991
180	MECHANICAL- SOIL AND ROCK	Rock	Unconfined compressive strength Test	IS 9143: 1979
181	MECHANICAL- SOIL AND ROCK	Rock	Water Content	IS 13030: 1991
182	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Compaction Test (Proctor compaction) for heavy compaction	IS: 2720 (Part VIII)-1983
183	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Atterberg's Limit 1. Liquid Limit	IS: 2720 (Part 5)-1985
184	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Atterberg's Limit 2. Plastic Limit	IS: 2720 (Part 5)-1985
185	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	California Bearing Ratio(CBR)	IS:2720(Part-16)1987
186	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Compaction Test (Proctor compaction) for light	IS: 2720 (Part VII)-1980
187	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Compaction Test (Proctor compaction) for light	IS: 2720 (Part VII)-1980
188	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Compaction Test (Proctor compaction) for heavy compaction	IS: 2720 (Part VIII)-1983
189	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Consolidation Test	IS 2720 (Part15): 1986
190	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Consolidation Test	IS 2720 (Part15): 1986
191	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Direct Shear test	IS:2720(Part-13)1986
192	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Direct Shear test	IS:2720(Part-13)1986
193	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Free Swell Index	IS 2720 (Part XL)-1977



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194	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Grain Size Analysis 1. Sieve Analysis	IS: 2720 (Pt-IV)-1985
195	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Grain Size Analysis 2. Wet Sieve Analysis	IS: 2720 (Pt-IV)-1985
196	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Grain Size Analysis 3. Hydrometer (Clause 5.2)	IS: 2720 (Pt-IV)-1985
197	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Permeability Test	IS 2720 (Part36): 1987
198	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Permeability Test	IS 2720 (Part36): 1987
199	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Shrinkage Limit	IS: 2720 (Part-6) 1972
200	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Specific Gravity	IS: 2720 (Pt-III) Sec. 1 1980
201	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Swelling Pressure	IS 2720(Part 41)-1977
202	MECHANICAL- SOIL AND ROCK	Soil, Mooram,GSB,WMM	Water Content	IS: 2720 (Part-II) 1973



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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
2	MECHANICAL- SOIL AND ROCK	Soil/Rock	Cyclic Plate Load Test	IS 5249:1992
3	MECHANICAL- SOIL AND ROCK	Soil/Rock	Field CBR Test (On All Types of soils)	IS 2720 (Part 31): 1990
4	MECHANICAL- SOIL AND ROCK	Soil/Rock	IN Situ Density By Core Cutter (Soil)	IS 2720 (Part 29): 1975
5	MECHANICAL- SOIL AND ROCK	Soil/Rock	Plate Load Test	IS 1888:1982
6	MECHANICAL- SOIL AND ROCK	Soil/Rock	Standard Penetration Test	IS 2131:1981