



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

CMS CHEMICAL & METALLURGICAL SERVICES LLP

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

T.S. NO. 63A, SIDCO INDUSTRIAL ESTATE, EKKADUTHANGAL, CHENNAI, TAMIL NADU, INDIA

in the field of

TESTING

Certificate Number: TC-5039

Issue Date: 14/02/2025

Valid Until: 13/02/2029

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 Entity: CMS CHEMICAL & METALLURGICAL SERVICES LLP

Signed for and on behalf of NABL




Anuja Anand
Director


N. Venkateswaran
Chief Executive Officer



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SCOPE OF ACCREDITATION

Laboratory Name :

CMS CHEMICAL & METALLURGICAL SERVICES LLP, T.S. NO. 63A, SIDCO INDUSTRIAL ESTATE,
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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 Testing				
1	CHEMICAL- METALS & ALLOYS	ALUMINIUM & ITS ALLOYS	CHROMIUM	ASTM E1251
2	CHEMICAL- METALS & ALLOYS	ALLOY STEEL / SS	CARBON	IS 228 (PART 1)
3	CHEMICAL- METALS & ALLOYS	ALLOY STEEL / SS	NICKEL	IS 228 (PART 5)
4	CHEMICAL- METALS & ALLOYS	ALLOY STEEL / SS	PHOSPHORUS	IS 228 (PART 3)
5	CHEMICAL- METALS & ALLOYS	ALLOY STEEL / SS	SILICON	IS 228 (PART 8)
6	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	ALUMINIUM	IS 8811
7	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	ARSENIC	IS 8811
8	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	CARBON	IS 8811
9	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	CHROMIUM	IS 8811
10	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	COPPER	IS 8811
11	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	MANGANESE	IS 8811
12	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	MOLYBDENUM	IS 8811
13	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	NICKEL	IS 8811
14	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	NITROGEN	ASTM E415
15	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	PHOSPHORUS	IS 8811
16	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	SILICON	IS 8811



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17	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	SULPHUR	IS 8811
18	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	VANADIUM	IS 8811
19	CHEMICAL- METALS & ALLOYS	ALLOY STEEL / SS	CHROMIUM	IS 228 (PART 6)
20	CHEMICAL- METALS & ALLOYS	ALLOY STEEL / SS	MANGANESE	IS 228 (PART 2)
21	CHEMICAL- METALS & ALLOYS	ALLOY STEEL / SS	MOLYBDENUM	IS 228 (PART 7)
22	CHEMICAL- METALS & ALLOYS	ALLOY STEEL / SS	SULPHUR	IS:228 (PART 9)
23	CHEMICAL- METALS & ALLOYS	ALUMINIUM & ITS ALLOYS	BERYLLIUM	ASTM E1251
24	CHEMICAL- METALS & ALLOYS	ALUMINIUM & ITS ALLOYS	COPPER	ASTM E1251
25	CHEMICAL- METALS & ALLOYS	ALUMINIUM & ITS ALLOYS	IRON	ASTM E1251
26	CHEMICAL- METALS & ALLOYS	ALUMINIUM & ITS ALLOYS	MAGNESIUM	ASTM E1251
27	CHEMICAL- METALS & ALLOYS	ALUMINIUM & ITS ALLOYS	MANGANESE	ASTM E1251
28	CHEMICAL- METALS & ALLOYS	ALUMINIUM & ITS ALLOYS	NICKEL	ASTM E1251
29	CHEMICAL- METALS & ALLOYS	ALUMINIUM & ITS ALLOYS	SILICON	ASTM E1251
30	CHEMICAL- METALS & ALLOYS	ALUMINIUM & ITS ALLOYS	TITANIUM	ASTM E1251
31	CHEMICAL- METALS & ALLOYS	ALUMINIUM & ITS ALLOYS	ZINC	ASTM E1251
32	CHEMICAL- METALS & ALLOYS	ALUMINIUM & ITS ALLOYS	ZIRCONIUM	ASTM E1251



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33	CHEMICAL- METALS & ALLOYS	CARBON STEEL	CARBON	IS 228 (PART 1)
34	CHEMICAL- METALS & ALLOYS	CARBON STEEL	CARBON	IS 8811
35	CHEMICAL- METALS & ALLOYS	CARBON STEEL	COPPER	IS 8811
36	CHEMICAL- METALS & ALLOYS	CARBON STEEL	MANGANESE	IS 228 (PART 2)
37	CHEMICAL- METALS & ALLOYS	CARBON STEEL	MANGANESE	IS 8811
38	CHEMICAL- METALS & ALLOYS	CARBON STEEL	PHOSPHORUS	IS 228 (PART 3)
39	CHEMICAL- METALS & ALLOYS	CARBON STEEL	PHOSPHORUS	IS 8811
40	CHEMICAL- METALS & ALLOYS	CARBON STEEL	SILICON	IS 228 (PART 8)
41	CHEMICAL- METALS & ALLOYS	CARBON STEEL	SILICON	IS 8811
42	CHEMICAL- METALS & ALLOYS	CARBON STEEL	SULPHUR	IS 228 (PART 9)
43	CHEMICAL- METALS & ALLOYS	CARBON STEEL	SULPHUR	IS 8811
44	CHEMICAL- METALS & ALLOYS	CARBON/ LOW ALLOY STEELS	ALUMINIUM	ASTM E415
45	CHEMICAL- METALS & ALLOYS	CARBON/ LOW ALLOY STEELS	ARSENIC	ASTM E415
46	CHEMICAL- METALS & ALLOYS	CARBON/ LOW ALLOY STEELS	CARBON	ASTM E415
47	CHEMICAL- METALS & ALLOYS	CARBON/ LOW ALLOY STEELS	CHROMIUM	ASTM E415
48	CHEMICAL- METALS & ALLOYS	CARBON/ LOW ALLOY STEELS	COPPER	ASTM E415



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49	CHEMICAL- METALS & ALLOYS	CARBON/ LOW ALLOY STEELS	MANGANESE	ASTM E415
50	CHEMICAL- METALS & ALLOYS	CARBON/ LOW ALLOY STEELS	MOLYBDENUM	ASTM E415
51	CHEMICAL- METALS & ALLOYS	CARBON/ LOW ALLOY STEELS	NICKEL	ASTM E415
52	CHEMICAL- METALS & ALLOYS	CARBON/ LOW ALLOY STEELS	PHOSPHOROUS	ASTM E415
53	CHEMICAL- METALS & ALLOYS	CARBON/ LOW ALLOY STEELS	SILICON	ASTM E415
54	CHEMICAL- METALS & ALLOYS	CARBON/ LOW ALLOY STEELS	SULPHUR	ASTM E415
55	CHEMICAL- METALS & ALLOYS	CAST IRON	CARBON	IS 15338
56	CHEMICAL- METALS & ALLOYS	CAST IRON	CHROMIUM	IS 15338
57	CHEMICAL- METALS & ALLOYS	CAST IRON	COPPER	IS 15338
58	CHEMICAL- METALS & ALLOYS	CAST IRON	MANGANESE	IS 15338
59	CHEMICAL- METALS & ALLOYS	CAST IRON	MOLYBDENUM	IS 15338
60	CHEMICAL- METALS & ALLOYS	CAST IRON	PHOSPHOROUS	IS 15338
61	CHEMICAL- METALS & ALLOYS	CAST IRON	SILICON	IS 15338
62	CHEMICAL- METALS & ALLOYS	CAST IRON	SULFUR	IS 15338
63	CHEMICAL- METALS & ALLOYS	COPPER & ITS ALLOYS	ALUMINIUM	BS EN 15079
64	CHEMICAL- METALS & ALLOYS	COPPER & ITS ALLOYS	ANTIMONY	BS EN 15079



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65	CHEMICAL- METALS & ALLOYS	COPPER & ITS ALLOYS	ARSENIC	BS EN 15079
66	CHEMICAL- METALS & ALLOYS	COPPER & ITS ALLOYS	IRON	BS EN 15079
67	CHEMICAL- METALS & ALLOYS	COPPER & ITS ALLOYS	LEAD	BS EN 15079
68	CHEMICAL- METALS & ALLOYS	COPPER & ITS ALLOYS	MANGANESE	BS EN 15079
69	CHEMICAL- METALS & ALLOYS	COPPER & ITS ALLOYS	NICKEL	BS EN 15079
70	CHEMICAL- METALS & ALLOYS	COPPER & ITS ALLOYS	PHOSPHORUS	BS EN 15079
71	CHEMICAL- METALS & ALLOYS	COPPER & ITS ALLOYS	SILICON	BS EN 15079
72	CHEMICAL- METALS & ALLOYS	COPPER & ITS ALLOYS	SULFUR	BS EN 15079
73	CHEMICAL- METALS & ALLOYS	COPPER & ITS ALLOYS	ZINC	BS EN 15079
74	CHEMICAL- METALS & ALLOYS	COPPER& ITS ALLOYS	TIN	BS EN 15079
75	CHEMICAL- METALS & ALLOYS	NICKEL & ITS ALLOYS	ALUMINIUM	ASTM E3047
76	CHEMICAL- METALS & ALLOYS	NICKEL & ITS ALLOYS	CARBON	ASTM E3047
77	CHEMICAL- METALS & ALLOYS	NICKEL & ITS ALLOYS	COBALT	ASTM E3047
78	CHEMICAL- METALS & ALLOYS	NICKEL & ITS ALLOYS	IRON	ASTM E3047
79	CHEMICAL- METALS & ALLOYS	NICKEL & ITS ALLOYS	SILICON	ASTM E3047
80	CHEMICAL- METALS & ALLOYS	NICKEL& ITS ALLOYS	COPPER	ASTM E3047



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81	CHEMICAL- METALS & ALLOYS	NICKEL& ITS ALLOYS	MANGANESE	ASTM E3047
82	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	COPPER	IS 9879
83	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	CARBON	ASTM E1086
84	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	CARBON	IS 9879
85	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	CHROMIUM	ASTM E1086
86	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	CHROMIUM	IS 9879
87	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	COPPER	ASTM E1086
88	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	MANGANESE	ASTM E1086
89	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	MANGANESE	IS 9879
90	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	MOLYBDENUM	ASTM E1086
91	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	MOLYBDENUM	IS 9879
92	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	NICKEL	ASTM E1086
93	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	PHOSPHORUS	ASTM E1086
94	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	PHOSPHORUS	IS 9879
95	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	SILICON	ASTM E1086
96	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	SILICON	IS 9879



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97	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	SULPHUR	ASTM E1086
98	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	SULPHUR	IS 9879
99	CHEMICAL- METALS & ALLOYS	TOOL STEEL	CARBON	ASTM E352
100	CHEMICAL- METALS & ALLOYS	TOOL STEEL	CHROMIUM	ASTM E352
101	CHEMICAL- METALS & ALLOYS	TOOL STEEL	MANGANESE	ASTM E352
102	CHEMICAL- METALS & ALLOYS	TOOL STEEL	MOLYBDENUM	ASTM E352
103	CHEMICAL- METALS & ALLOYS	TOOL STEEL	PHOSPHORUS	ASTM E352
104	CHEMICAL- METALS & ALLOYS	TOOL STEEL	SILICON	ASTM E352
105	CHEMICAL- METALS & ALLOYS	TOOL STEEL	SULPHUR	ASTM E352
106	CHEMICAL- METALS & ALLOYS	TOOL STEEL	TUNGSTEN	ASTM E352
107	CHEMICAL- METALS & ALLOYS	TOOL STEEL	VANADIUM	ASTM E352
108	CHEMICAL- PAINTS & SURFACE COATING	Pu/Epoxy Paint & enamels	Untreated Monomers	ASTMD 4827
109	CHEMICAL- PAINTS & SURFACE COATING	Enamel Paints (finishing / undercoating)	Accelerated storage stability test	IS 133 (Part 1, ANNEXURE-E)
110	CHEMICAL- PAINTS & SURFACE COATING	Enamel Pints (Finishing/ Under Coating)	Accelerated Storage Stability Test	IS 2932 (PART 1, ANNEXURE-G)
111	CHEMICAL- PAINTS & SURFACE COATING	Paint & coatings	Resistance to Acid	IS 8662 (ANNEXURE-D)
112	CHEMICAL- PAINTS & SURFACE COATING	Paint & Coatings	Resistance to Alkali	IS 8662 (ANNEXURE-E)



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113	CHEMICAL- PAINTS & SURFACE COATING	Paint & coatings	Resistance to Petrol & Lubricating oil	IS 142
114	CHEMICAL- PAINTS & SURFACE COATING	Paint & Coatings	Resistance to Solvents	ASTM D5402
115	CHEMICAL- PAINTS & SURFACE COATING	Paint & Coatings	Resistance To Water	IS 133 (ANNEXURE-D)
116	CHEMICAL- PAINTS & SURFACE COATING	PAINT & ENAMELS	ABRASION RESISTANCE	ASTM D4060
117	CHEMICAL- PAINTS & SURFACE COATING	PAINT & ENAMELS	Adhesion (Cross Cut Tape) Test	ASTM D3359
118	CHEMICAL- PAINTS & SURFACE COATING	Paint & Enamels	Consistency By Krebs Unit Viscosity (Stromer Viscometer)	ASTM D562
119	CHEMICAL- PAINTS & SURFACE COATING	PAINT & ENAMELS	DRYING TIME - TACK FREE DRY	IS 101 (PART 3/SEC 1)
120	CHEMICAL- PAINTS & SURFACE COATING	PAINT & ENAMELS	DRYING TIME (A) SURFACE DRY	IS 101 (PART 3/SEC 1)
121	CHEMICAL- PAINTS & SURFACE COATING	PAINT & ENAMELS	FILM HARDNESS BY PENCIL TEST	ASTM D3363
122	CHEMICAL- PAINTS & SURFACE COATING	PAINT & ENAMELS	GLOSS AT 20 °	IS 101 (PART 4/SEC 4)
123	CHEMICAL- PAINTS & SURFACE COATING	PAINT & ENAMELS	GLOSS AT 60 DEGREE	IS 101 (PART 4/SEC 4)
124	CHEMICAL- PAINTS & SURFACE COATING	PAINT & ENAMELS	GLOSS AT 85 °	IS 101 (PART 4/SEC 4)
125	CHEMICAL- PAINTS & SURFACE COATING	PAINT & ENAMELS	HUMIDITY RESISTANCE	ASTM D2247
126	CHEMICAL- PAINTS & SURFACE COATING	PAINT & ENAMELS	IMPACT TEST	ASTM D2794
127	CHEMICAL- PAINTS & SURFACE COATING	PAINT & ENAMELS	NON VOLATILE MATTER	IS 101 (PART 8/SEC 2)
128	CHEMICAL- PAINTS & SURFACE COATING	PAINT & ENAMELS	POT LIFE AT 40 ° C	IS 14209 (ANNEXURE-B)



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129	CHEMICAL- PAINTS & SURFACE COATING	PAINT & ENAMELS	POT LIFE AT 27° C	IS 14209 (ANNEXURE-B)
130	CHEMICAL- PAINTS & SURFACE COATING	PAINT & ENAMELS	PULL-OFF STRENGTH OF COATINGS	ASTM D4541
131	CHEMICAL- PAINTS & SURFACE COATING	PAINT & ENAMELS	UV ACCELERATED WEATHERING TEST	ASTM G154
132	CHEMICAL- PAINTS & SURFACE COATING	paint & organic coating	Cupping Test	IS 101 (PART 5/SEC 2)
133	CHEMICAL- PAINTS & SURFACE COATING	Paint & Organic Coatings	BEND TEST (Conical Mandrel Test)	ASTM D522
134	CHEMICAL- PAINTS & SURFACE COATING	PAINT & VARNISHES	RESISTANCE TO HUMIDITY UNDER CONDITIONS OF CONDENSATION	IS 101 (PART 6/SEC 1)
135	CHEMICAL- PAINTS & SURFACE COATING	PAINT & VARNISHES	WATER CONTENT	IS 101 (PART 2/ SEC 1)
136	CHEMICAL- PAINTS & SURFACE COATING	Paint& coatings	GLOSS AT45 DEGREE ANGLE OF INCIDENCE	IS 101 (PART 4/SEC 4)
137	CHEMICAL- PAINTS & SURFACE COATING	PAINT& ENAMEL	SCRATCH HARDNESS	IS 101 (PART 5/SEC 2)
138	CHEMICAL- PAINTS & SURFACE COATING	PAINT& VARNISHES	CONSISTANCY	IS 101 (PART 1/SEC 5)
139	CHEMICAL- PAINTS & SURFACE COATING	PAINTS & ENAMELS	ACCELEARATED STORAGE STABILITY	IS 8662 (ANNEXURE-F)
140	CHEMICAL- PAINTS & SURFACE COATING	PAINTS & ENAMELS	DRY FILM THICKNESS	ASTM D7091
141	CHEMICAL- PAINTS & SURFACE COATING	PAINTS & ENAMELS	RESISTANCE TO ACID	IS 9862 (APPENDIX-B)
142	CHEMICAL- PAINTS & SURFACE COATING	PAINTS & ENAMELS	RESISTANCE TO ALKALI	IS 9862 (APPENDIX-C)
143	CHEMICAL- PAINTS & SURFACE COATING	PAINTS & VANISHES	SALTS SPRAY(FOG)	ASTM B117
144	CHEMICAL- PAINTS & SURFACE COATING	PAINTS & VARNISHES	COLOUR	IS 101 (PART 4/SEC 2) Clause 2.5.1 (Visual Method)



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145	CHEMICAL- PAINTS & SURFACE COATING	PAINTS & VARNISHES	DRYING TIME (B) HARD DRY	IS 101 (PART 3/SEC 1)
146	CHEMICAL- PAINTS & SURFACE COATING	PAINTS & VARNISHES	FILM THICKNESS	IS 101 (PART 3/SEC 2)
147	CHEMICAL- PAINTS & SURFACE COATING	PAINTS & VARNISHES	FINENESS OF GRIND	IS 101 (PART 3/SEC 5)
148	CHEMICAL- PAINTS & SURFACE COATING	PAINTS & VARNISHES	FINISH	IS 101 (PART 3/SEC 4)
149	CHEMICAL- PAINTS & SURFACE COATING	PAINTS & VARNISHES	FLASH POINT	IS 101 (PART 1/SEC 6)
150	CHEMICAL- PAINTS & SURFACE COATING	PAINTS & VARNISHES	FLEXIBILITY & ADHESSION	IS 101 (PART 5/SEC 2)
151	CHEMICAL- PAINTS & SURFACE COATING	PAINTS & VARNISHES	MASS IN KG/10 LITER	IS 101 (PART 1/SEC 7)
152	CHEMICAL- PAINTS & SURFACE COATING	PAINTS & VARNISHES	PIGMENT CONTENT	IS 101 (PART 8/ SEC 2)
153	CHEMICAL- PAINTS & SURFACE COATING	PAINTS & VARNISHES	RESISTANCE TO HEAT	IS 101 (PART 7/SEC 3)
154	CHEMICAL- PAINTS & SURFACE COATING	PAINTS & VARNISHES	RESISTANCE TO WATER	IS 101 (PART 7/SEC 1)
155	CHEMICAL- PAINTS & SURFACE COATING	PAINTS & VARNISHES	VISCOSITY (FORD CUP NO-4)	IS 101 (PART 1/SEC 5)
156	CHEMICAL- PAINTS & SURFACE COATING	PAINTS & VARNISHES	VOLATILE MATTER	IS 101 (PART 2/SEC 2)
157	CHEMICAL- PAINTS & SURFACE COATING	PAINTS & VARNISHES	VOLUME SOLIDS	IS 101 (PART 8/SEC 6)
158	CHEMICAL- PAINTS & SURFACE COATING	Ready mix paint, Bitumen, Black Japan Exterior,	Resistance to Patrol & Lubricating Oil	IS 142
159	CHEMICAL- PAINTS & SURFACE COATING	Solvents & thinner	Dry point Distillation test	IS 1448 (PART 18)
160	CHEMICAL- PAINTS & SURFACE COATING	Solvents & thinner	Final Distillation test	IS 1448 (PART 18)



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161	CHEMICAL- PAINTS & SURFACE COATING	Solvents & thinner	Initial Distillation test	IS 1448 (PART 18)
162	MECHANICAL- BUILDINGS MATERIALS	AAC BLOCK	BULK DENSITY	IS 6441 (PART 1)
163	MECHANICAL- BUILDINGS MATERIALS	AAC BLOCK	COMPRESSIVE STRENGTH	IS 6441 (PART 5)
164	MECHANICAL- BUILDINGS MATERIALS	AAC BLOCK	DIMENSION TEST IN HEIGHT	IS 2185 (PART 3)
165	MECHANICAL- BUILDINGS MATERIALS	AAC BLOCK	DIMENSION TEST IN LENGTH	IS 2185 (PART 3)
166	MECHANICAL- BUILDINGS MATERIALS	AAC BLOCK	DIMENSION TEST IN WIDTH	IS 2185 (PART 3)
167	MECHANICAL- BUILDINGS MATERIALS	AAC BLOCK	MOISTURE CONTENT	IS 6441 (PART 1)
168	MECHANICAL- BUILDINGS MATERIALS	APP MEMBRANE	TENSILE STRENGTH (TRANSVERSE DIRECTION)	IS 13826 (PART 1)
169	MECHANICAL- BUILDINGS MATERIALS	APP MEMBRANE	COLD FLEXIBILITY (0 TO -20 ° C)	IS 13826 (PART 2)
170	MECHANICAL- BUILDINGS MATERIALS	APP MEMBRANE	HEAT RESISTANCE AT 120° C	IS 13826 (PART 5)
171	MECHANICAL- BUILDINGS MATERIALS	APP MEMBRANE	PRESSURE HEAD TEST	IS 13826 (PART 6)
172	MECHANICAL- BUILDINGS MATERIALS	APP MEMBRANE	TEAR STRENGTH (LONGITUDINAL DIRECTION)	ASTM D5147



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173	MECHANICAL-BUILDINGS MATERIALS	APP MEMBRANE	TEAR STRENGTH (TRANSVERSE DIRECTION)	ASTM D5147
174	MECHANICAL-BUILDINGS MATERIALS	APP MEMBRANE	TENSILE STRENGTH (LONGITUDINAL DIRECTION)	IS 13826 (PART 1)
175	MECHANICAL-BUILDINGS MATERIALS	APP MEMBRANE	WATER ABSORPTION	IS 13826 (PART 6)
176	MECHANICAL-BUILDINGS MATERIALS	APPMEMBRANE	TENSILE STRENGTH	ASTM D5147/5147M
177	MECHANICAL-BUILDINGS MATERIALS	BITUMEN	PENETRATION @25° C ,100g,5S	IS 1203
178	MECHANICAL-BUILDINGS MATERIALS	BITUMEN	SOFTENING POINT	IS 1205
179	MECHANICAL-BUILDINGS MATERIALS	BRICKS	COMPRESSIVE STRENGTH	IS 3495 (PART 1)
180	MECHANICAL-BUILDINGS MATERIALS	BRICKS	WATER ABSORPTION	IS 3495 (PART 2)
181	MECHANICAL-BUILDINGS MATERIALS	CEMENT (OPC/PPC)	NORMAL CONSISTANCY	IS 4031 (PART 4)
182	MECHANICAL-BUILDINGS MATERIALS	CEMENT (OPC/PPC)	COMPRESSIVE STRENGTH	IS 4031 (PART 6)
183	MECHANICAL-BUILDINGS MATERIALS	CEMENT (OPC/PPC)	FINENESS BY BLANES METHOD	IS 4031 (PART 2)
184	MECHANICAL-BUILDINGS MATERIALS	CEMENT (OPC/PPC)	INITIAL SETTING TIME	IS 4031 (PART 5)



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185	MECHANICAL-BUILDINGS MATERIALS	CEMENT (OPC/PPC)	SOUNDNESS(Le-Chatelier Method)	IS 4031 (PART 3)
186	MECHANICAL-BUILDINGS MATERIALS	CEMENT(OPC/PPC)	FINAL SETTING TIME	IS 4031 (PART 5)
187	MECHANICAL-BUILDINGS MATERIALS	COARSE AGGREGATE	AGGREGATE IMPACT VALUE	IS 2386 (PART 4)
188	MECHANICAL-BUILDINGS MATERIALS	COARSE AGGREGATE	BULK DENSITY (Loose)	IS 2386 (PART 3)
189	MECHANICAL-BUILDINGS MATERIALS	COARSE AGGREGATE	BULK DESNITY (Rodded)	IS 2386 (PART 3)
190	MECHANICAL-BUILDINGS MATERIALS	COARSE AGGREGATE	CRUSHING STRENGTH	IS 2386 (PART 4)
191	MECHANICAL-BUILDINGS MATERIALS	COARSE AGGREGATE	LOS ANGELES ABRASION VALUE	IS 2386 (PART 4)
192	MECHANICAL-BUILDINGS MATERIALS	COARSE AGGREGATE	MOISTURE CONTENT	IS 2386 (PART 3)
193	MECHANICAL-BUILDINGS MATERIALS	COARSE AGGREGATE	SIEVE ANALYSIS (2.36mm, 4.75mm, 10mm, 12.5mm, 20mm, 40mm, 63mm, 80mm)	IS 2386 (PART 1)
194	MECHANICAL-BUILDINGS MATERIALS	COARSE AGGREGATE	SPECIFIC GRAVITY	IS 2386 (PART 3)
195	MECHANICAL-BUILDINGS MATERIALS	COARSE AGGREGATE	WATER ABSORPTION	IS 2386 (PART 3)



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196	MECHANICAL-BUILDINGS MATERIALS	FINE AGGREGATE	BULK DENSITY (Loose)	IS 2386 (PART 3)
197	MECHANICAL-BUILDINGS MATERIALS	FINE AGGREGATE	BULK DENSITY (Rodded)	IS 2383 (PART 3)
198	MECHANICAL-BUILDINGS MATERIALS	FINE AGGREGATE	MOISTURE CONTENT	IS 13826 (PART 3)
199	MECHANICAL-BUILDINGS MATERIALS	FINE AGGREGATE	SIEVE ANALYSIS (90 μ , 150 μ , 300 μ , 1.18mm, 2.36mm, 4.75mm)	IS 2386 (PART 1)
200	MECHANICAL-BUILDINGS MATERIALS	FINE AGGREGATE	SILT CONTENT	IS 2386 (PART 2)
201	MECHANICAL-BUILDINGS MATERIALS	FINE AGGREGATE	SPECIFIC GRAVITY	IS 2386 (PART 3)
202	MECHANICAL-BUILDINGS MATERIALS	FINE AGGREGATE	WATER ABSORPTION	IS 2386 (PART 3)
203	MECHANICAL-BUILDINGS MATERIALS	HARDENED CONCRETE CUBE	COMPRESSIVE STRENGTH	IS 516 (PART 1/SEC 1)
204	MECHANICAL-BUILDINGS MATERIALS	HARDENED CONCRETE CYLINDER	COMPRESSIVE STRENGTH	IS 516 (PART 1/ SEC 1)
205	MECHANICAL-BUILDINGS MATERIALS	PAVER BLOCK	COMPRESSIVE STRENGTH	IS 15658
206	MECHANICAL-BUILDINGS MATERIALS	PAVER BLOCK	DIMENSION TEST IN LENGTH	IS 15658
207	MECHANICAL-BUILDINGS MATERIALS	PAVER BLOCK	DIMENSION TEST IN THICKNESS	IS 15658



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208	MECHANICAL-BUILDINGS MATERIALS	PAVER BLOCK	DIMENSION TEST IN WIDTH	IS 15658
209	MECHANICAL-BUILDINGS MATERIALS	PAVER BLOCK	WATER ABSORPTION	IS 15658
210	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PRODUCTS	TENSILE STRENGTH	ASTM A370
211	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS	SPRING COMPRESSION	SOP No. 02 Issue No.01 6 October
212	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METAL SPECIMENS	BEND TEST (Mandrel Size Dia: 4mm, 6mm, 8mm, 10mm, 12mm, 16mm, 20mm, 24mm, 32mm, 40mm and 50mm)	ASTM E290
213	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	IMPACT IZOD V NOTCH TEST	IS 1598
214	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	BEND TEST (Mandrel Size Dia: 4mm, 6mm, 8mm, 10mm, 12mm, 16mm, 20mm, 24mm, 32mm, 40mm and 50mm)	IS 1599
215	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	ELONGATION %	ASTM E8/E8M
216	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	ELONGATION %	IS 1608 (PART 1)



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217	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	Hardness - HBW (10/1000 kg)	IS 1500 (Part 1)
218	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	HARDNESS - HBW (10/3000 kg)	IS 1500 (PART 1)
219	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	HARDNESS 10/1000Kg	ASTM E10
220	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	HARDNESS -HBW (10/3000Kg)	ASTM E10
221	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	HARDNESS -HRBW	ASTM E18
222	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	HARDNESS -HRBW	IS 1586 (PART 1)
223	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	HARDNESS-HRC	ASTM E18
224	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	HARDNESS-HRC	IS 1586 (PART 1)
225	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	HBW (5/ 750Kg)	IS 1500 (PART 1)



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226	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	IMPACT CHARPY V NOTCH (FROM AMBIENT TEMPERATURE TO -40 DEGREE CELSIUS)	IS 1757 (PART 1)
227	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	IMPACT CHARPY U NOTCH (FROM AMBIENT TEMPERATURE TO -40 DEGREE CELSIUS)	IS 1757 (PART 1)
228	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	IMPACT CHARPY V NOTCH(FROM AMBIENT TEMPERATURE TO -40 DEGREE CELCIUS)	ISO 148 (PART 1)
229	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	PROOF STRESS	IS 1608 (PART 1)
230	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	REDUCTION AREA	ASTM E8/E8M
231	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	REDUCTION AREA	IS 1608 (PART 1)
232	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	TENSILE STRENGTH	IS 1608 (PART 1)
233	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	TENSILE STRENGTH	ASTM E8/E8M
234	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	VICKER HARDNESS - HV-30	ASTM E92



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235	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	VICKER HARDNESS -HV-5	ASTM E92
236	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	VICKERS HARDNESS HV 10	IS 1501 (PART 1)
237	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	VICKERS HARDNESS HV 30	IS 1501 (PART 1)
238	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	VICKERS HARDNESS HV 5	IS 1501 (PART 1)
239	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	VIVCKER HARDNESS - HV-10	ASTM E92
240	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	YIELD STRENGTH	ASTM E8/E8M
241	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	YIELD STRENGTH	IS 1608 (PART 1)
242	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PRODUCTS	ELONGATION %	ASTM A370
243	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PRODUCTS	YIELD STRENGTH	ASTM A370



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244	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL BARS AND WIRES	MASS PER METER	IS 1786
245	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PRODUCTS	REDUCTION AREA	ASTM A370
246	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL TUBES	% ELONGATION	IS 1608 (PART 1)
247	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL TUBES	FLATTENING	IS 2328
248	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL TUBES	TENSILE STRENGTH	IS 1608 (PART 1)
249	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL TUBES	WEIGHT/ METER	IS 1161
250	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL TUBES	YIELD STRESS	IS 1608 (PART 1)
251	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELD METALS (PLATE, PIPE ,DIAMETER)	TRANSVERSE TENSILE STRENGTH	ASME SEC IX
252	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELD & WELDED SPECIMENS	BEND TEST (Mandrel Size Dia: 4mm, 6mm, 8mm, 10mm, 12mm, 16mm, 20mm, 24mm, 32mm, 40mm)	AWS D1.1



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253	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELD & WELDED SPECIMENS	MACRO TEST	AWS D1.1
254	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELD & WELDED SPECIMENS	TENSILE STRENGTH	AWS D1.1
255	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELD & WELDED SPECIMENS	VICKERS HARDNESS (HV10KG)	BS EN ISO 9015 (PART 1)
256	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELD & WELDED SPECIMENS	VICKERS HARDNESS (HV30KG)	BS EN ISO 9015 (PART 1)
257	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELD & WELDED SPECIMENS	VICKERS HARDNESS (HV-5KG)	BS EN ISO 9015 (PART 1)
258	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELD & WELDED SPECIMEN	MACROETCH TEST	ASME SEC IX
259	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELDS IN METALLIC MATERIALS	TRANSVERSE STRENGTH	EN ISO 4136
260	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELDS & WELDED METALS	BEND TEST (Mandrel Size Dia: 4mm, 6mm, 8mm, 10mm, 12mm, 16mm, 20mm, 24mm, 32mm, 40mm)	ASME SEC IX
261	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELDS & WELDED METALS	FILLET WELD FRACTURE TEST	ASME SEC IX



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262	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELDS IN METALLIC MATERIALS	BEND TEST (Mandrel Size Dia: 4mm, 6mm, 8mm, 10mm, 12mm, 16mm, 20mm, 24mm, 32mm, 40mm)	ISO 5173
263	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELDS IN METALLIC MATERIALS	FILLET WELD FRACTURE TEST	EN ISO 9017
264	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELDS IN METALLIC MATERIALS	IMPACT CHARPY V NOTCH (FROM AMBIENT TEMPERATURE TO -40 DEGREE CELSIUS)	ISO 9016
265	MECHANICAL-METALLOGRAPHY TEST	AUSTENITIC STAINLESS STEEL	INTERGRANULAR CORROSION TEST (IGC) PRACTICE-A	ASTM A262
266	MECHANICAL-METALLOGRAPHY TEST	ALUMINIUM & ITS ALLOYS	MACRO ETCH TEST	IS 12573
267	MECHANICAL-METALLOGRAPHY TEST	AUSTENITIC STAINLESS STEEL	INTERGRANULAR CORROSION TEST (IGC) PRACTICE-B	ASTM A262
268	MECHANICAL-METALLOGRAPHY TEST	AUSTENITIC STAINLESS STEEL	INTERGRANULAR CORROSION TEST (IGC) PRACTICE-C	ASTM A262
269	MECHANICAL-METALLOGRAPHY TEST	AUSTENITIC STAINLESS STEEL	INTERGRANULAR CORROSION TEST (IGC) PRACTICE-E	ASTM A262
270	MECHANICAL-METALLOGRAPHY TEST	COPPER & COPPER ALLOYS	MACRO ETCH TEST	IS 13484
271	MECHANICAL-METALLOGRAPHY TEST	GRAPHITE IN CAST IRON	TYPE ,SIZE & DISTRIBUTION	IS 7754



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272	MECHANICAL-METALLOGRAPHY TEST	GRAPHITE IN IRON CASTINGS	TYPE, SIZE & DISTRIBUTION	ASTM A247
273	MECHANICAL-METALLOGRAPHY TEST	METALLIC MATERIALS	ESTIMATION OF AVERAGE GRAIN SIZE	ASTM E112
274	MECHANICAL-METALLOGRAPHY TEST	METALLIC COATING	COATING THICKNESS (MICROSCOPY METHOD)	IS 3203
275	MECHANICAL-METALLOGRAPHY TEST	METALS & ITS ALLOYS	MICROSTRUCTURE ANALYSIS (BY OPTICAL MICROSCOPE)	ASME VOLUME 9
276	MECHANICAL-METALLOGRAPHY TEST	NON FERRIC & ALLOY SAMPLE	MICROSTRUCTURE ANALYSIS (BY OPTICAL MICROSCOPE)	ASME VOLUME 9
277	MECHANICAL-METALLOGRAPHY TEST	STEEL	DEPTH OF DECARBURIZATION (MICROSCOPY METHOD)	IS 6396
278	MECHANICAL-METALLOGRAPHY TEST	STEEL	DETERMINATION OF CASE DEPTH (MICROSCOPY METHOD)	IS 6416
279	MECHANICAL-METALLOGRAPHY TEST	STEEL	ESTIMATION OF AVERAGE GRAIN SIZE	IS 4748
280	MECHANICAL-METALLOGRAPHY TEST	STEEL	NON METALLIC INCLUSION RATING (MICROSCOPY METHOD)	IS 4163
281	MECHANICAL-METALLOGRAPHY TEST	STEEL	NON METALLIC INCLUSION RATING (MICROSCOPY METHOD)	ASTM E45
282	MECHANICAL-METALLOGRAPHY TEST	STEEL BARS , BILLETES, BLOOMS& FORGINGS	MACRO ETCH TEST	ASTM E381
283	MECHANICAL-METALLOGRAPHY TEST	STEEL SPECIMENS	DEPTH OF DECARBURIZATION (MICROSCOPY METHOD)	ASTM E1077



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284	MECHANICAL-METALLOGRAPHY TEST	WELDS IN METALLIC MATERIALS	MACRO ETCH TEST	EN ISO 17639
285	MECHANICAL-METALLOGRAPHY TEST	WROUGHT STEEL PRODUCTS	MACRO ETCH TEST	IS 11371
286	MECHANICAL-RUBBER AND RUBBER PRODUCTS	SYNTHETIC RUBBER	TENSILE STRENGTH	ASTM D412
287	MECHANICAL-RUBBER AND RUBBER PRODUCTS	SYNTHETIC RUBBER & PRODUCTS	ELONGATION %	ASTM D412
288	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Synthetic rubber & Products	HARDNESS - SHORE D	ASTM D2240
289	MECHANICAL-RUBBER AND RUBBER PRODUCTS	synthetic rubber and products	HARDNESS -SHORE A	ASTM D2240
290	MECHANICAL-RUBBER AND RUBBER PRODUCTS	VALCUNIZED RUBBER	COMPRESSION SET	IS 3400 (PART 10)
291	MECHANICAL-RUBBER AND RUBBER PRODUCTS	VALCUNIZED RUBBER	TENSILE STRENGTH	IS 3400 (PART 1)
292	MECHANICAL-RUBBER AND RUBBER PRODUCTS	VULCANIZED RUBBERS	ASH CONTENT	IS 3400 (PART 22)
293	MECHANICAL-RUBBER AND RUBBER PRODUCTS	VULCANIZED RUBBERS	DENSITY	IS 3400 (PART 9)
294	MECHANICAL-RUBBER AND RUBBER PRODUCTS	VULCANIZED RUBBERS	HARDNESS (DUROMETER SHORE A)	IS 3400 (PART 2)