National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CHEMICAL & METALLURGICAL SERVICES, T.S.NO. 63, SIDCO INDUSTRIAL ESTATE, EKKADUTHANGAL, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5039 **Page No** 1 of 12

Validity 14/02/2023 to 13/02/2025 **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	ALIMINIUM & 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	PHOUSPHROUS	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
17	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	SULPHUR	IS 8811
18	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	VANADIUM	IS 8811

SCOPE OF ACCREDITATION

Laboratory Name : CHEMICAL & METALLURGICAL SERVICES, T.S.NO. 63, SIDCO INDUSTRIAL ESTATE, EKKADUTHANGAL, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5039 **Page No** 2 of 12

Validity 14/02/2023 to 13/02/2025 **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
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
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

SCOPE OF ACCREDITATION

Laboratory Name : CHEMICAL & METALLURGICAL SERVICES, T.S.NO. 63, SIDCO INDUSTRIAL ESTATE, EKKADUTHANGAL, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5039 **Page No** 3 of 12

Validity 14/02/2023 to 13/02/2025 **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
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 8811
43	CHEMICAL- METALS & ALLOYS	CARBON STEEL	SULPHUR	IS:228 Part 9
44	CHEMICAL- METALS & ALLOYS	CAST IRON	CARBON	IS 15338
45	CHEMICAL- METALS & ALLOYS	CAST IRON	CHROMIUM	IS 15338
46	CHEMICAL- METALS & ALLOYS	CAST IRON	COPPER	IS 15338
47	CHEMICAL- METALS & ALLOYS	CAST IRON	MANGANESE	IS 15338
48	CHEMICAL- METALS & ALLOYS	CAST IRON	MOLYBDENUM	IS 15338
49	CHEMICAL- METALS & ALLOYS	CAST IRON	NICKEL	IS 15338
50	CHEMICAL- METALS & ALLOYS	CAST IRON	PHOSPHOROUS	IS 15338
51	CHEMICAL- METALS & ALLOYS	CAST IRON	SILICON	IS 15338
52	CHEMICAL- METALS & ALLOYS	CAST IRON	SULFUR	IS 15338
53	CHEMICAL- METALS & ALLOYS	COPPER & ITS ALLOYS	ALUMINIUM	BS EN 15079
54	CHEMICAL- METALS & ALLOYS	COPPER & ITS ALLOYS	ANTIMONY	BS EN 15079
55	CHEMICAL- METALS & ALLOYS	COPPER & ITS ALLOYS	ARSENIC	BS EN 15079
56	CHEMICAL- METALS & ALLOYS	COPPER & ITS ALLOYS	IRON	BS EN 15079

SCOPE OF ACCREDITATION

Laboratory Name : CHEMICAL & METALLURGICAL SERVICES, T.S.NO. 63, SIDCO INDUSTRIAL ESTATE, EKKADUTHANGAL, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5039 **Page No** 4 of 12

Validity 14/02/2023 to 13/02/2025 **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
57	CHEMICAL- METALS & ALLOYS	COPPER & ITS ALLOYS	LEAD	BS EN 15079
58	CHEMICAL- METALS & ALLOYS	COPPER & ITS ALLOYS	MANGANESE	BS EN 15079
59	CHEMICAL- METALS & ALLOYS	COPPER & ITS ALLOYS	NICKEL	BS EN 15079
60	CHEMICAL- METALS & ALLOYS	COPPER & ITS ALLOYS	PHOSPHORUS	BS EN 15079
61	CHEMICAL- METALS & ALLOYS	COPPER & ITS ALLOYS	SILICON	BS EN 15079
62	CHEMICAL- METALS & ALLOYS	COPPER & ITS ALLOYS	SULFUR	BS EN 15079
63	CHEMICAL- METALS & ALLOYS	COPPER & ITS ALLOYS	ZINC	BS EN 15079
64	CHEMICAL- METALS & ALLOYS	COPPER& ITS ALLOYS	TIN	BS EN 15079
65	CHEMICAL- METALS & ALLOYS	NICKEL & ITS ALLOYS	ALUMINIUM	ASTM E3047
66	CHEMICAL- METALS & ALLOYS	NICKEL & ITS ALLOYS	CARBON	ASTM E3047
67	CHEMICAL- METALS & ALLOYS	NICKEL & ITS ALLOYS	COBALT	ASTM E3047
68	CHEMICAL- METALS & ALLOYS	NICKEL & ITS ALLOYS	IRON	ASTM E3047
69	CHEMICAL- METALS & ALLOYS	NICKEL & ITS ALLOYS	SILICON	ASTM E3047
70	CHEMICAL- METALS & ALLOYS	NICKEL& ITS ALLOYS	COPPER	ASTM E3047
71	CHEMICAL- METALS & ALLOYS	NICKEL& ITS ALLOYS	MANGANESE	ASTM E3047
72	CHEMICAL- METALS & ALLOYS	STAINLESS STEEEL	COPPER	IS 9879
73	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	CARBON	IS 9879
74	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	CHROMIUM	IS 9879
75	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	MANGANESE	IS 9879

SCOPE OF ACCREDITATION

Laboratory Name : CHEMICAL & METALLURGICAL SERVICES, T.S.NO. 63, SIDCO INDUSTRIAL ESTATE, EKKADUTHANGAL, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5039 **Page No** 5 of 12

Validity 14/02/2023 to 13/02/2025 **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
76	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	MOLYBDENUM	IS 9879
77	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	NICKEL	IS 9879
78	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	PHOSPHORUS	IS 9879
79	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	SILICON	IS 9879
80	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	SULFUR	IS 9879
81	CHEMICAL- METALS & ALLOYS	TOOL STEEL	CARBON	ASTM E 352
82	CHEMICAL- METALS & ALLOYS	TOOL STEEL	CHROMIUM	ASTM E 352
83	CHEMICAL- METALS & ALLOYS	TOOL STEEL	COBALT	ASTM E352
84	CHEMICAL- METALS & ALLOYS	TOOL STEEL	MANGANESE	ASTM E352
85	CHEMICAL- METALS & ALLOYS	TOOL STEEL	MOLYBDENUM	ASTM E352
86	CHEMICAL- METALS & ALLOYS	TOOL STEEL	PHOSPHORUS	ASTM E352
87	CHEMICAL- METALS & ALLOYS	TOOL STEEL	SILICON	ASTM E352
88	CHEMICAL- METALS & ALLOYS	TOOL STEEL	SULPHUR	ASTM E352
89	CHEMICAL- METALS & ALLOYS	TOOL STEEL	TUNGSTEN	ASTM E352
90	CHEMICAL- METALS & ALLOYS	TOOL STEEL	VANADIUM	ASTM E352
91	CHEMICAL- PAINTS & SURFACE COATING	PAINT & ENAMELS	ABRASION RESISTANCE	ASTM D4060
92	CHEMICAL- PAINTS & SURFACE COATING	PAINT & ENAMELS	Adhesion (Cross Cut Tape) Test	ASTM D3359
93	CHEMICAL- PAINTS & SURFACE COATING	PAINT & ENAMELS	DRYING TIME - TACK FREE DRY	IS 101 (PART 3/SEC 1))
94	CHEMICAL- PAINTS & SURFACE COATING	PAINT & ENAMELS	DRYING TIME (A) SURFACE DRY	IS 101 (PART 3 / SEC 1)

SCOPE OF ACCREDITATION

Laboratory Name : CHEMICAL & METALLURGICAL SERVICES, T.S.NO. 63, SIDCO INDUSTRIAL ESTATE, EKKADUTHANGAL, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5039 **Page No** 6 of 12

Validity 14/02/2023 to 13/02/2025 **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
95	CHEMICAL- PAINTS & SURFACE COATING	PAINT & ENAMELS	FILM HARDNESS BY PENCIL TEST	ASTM D3363
96	CHEMICAL- PAINTS & SURFACE COATING	PAINT & ENAMELS	GLOSS AT 20 º	IS 101 (PART4 / SEC4)
97	CHEMICAL- PAINTS & SURFACE COATING	PAINT & ENAMELS	GLOSS AT 60 DEGREE	IS 101 (PART 4 / SEC 4)
98	CHEMICAL- PAINTS & SURFACE COATING	PAINT & ENAMELS	GLOSS AT 85 º	IS 101 (PART4 / SEC4)
99	CHEMICAL- PAINTS & SURFACE COATING	PAINT & ENAMELS	HUMIDITY RESISTANCE	ASTM D2247
100	CHEMICAL- PAINTS & SURFACE COATING	PAINT & ENAMELS	IMPACT TEST	ASTM D2794-1993 RA
101	CHEMICAL- PAINTS & SURFACE COATING	PAINT & ENAMELS	NON VOLATILE MATTER	IS 101 (PART 8/ SEC 2)
102	CHEMICAL- PAINTS & SURFACE COATING	PAINT & ENAMELS	POT LIFE AT 40 º C	RDSO-M&C/PCN/100-APPENDIX-II
103	CHEMICAL- PAINTS & SURFACE COATING	PAINT & ENAMELS	POT LIFE AT 27º C	RDSO -M&C /PCN/100-APPENDIX-II
104	CHEMICAL- PAINTS & SURFACE COATING	PAINT & ENAMELS	PULL-OFF STRENGTH OF COATINGS	ASTM D4541
105	CHEMICAL- PAINTS & SURFACE COATING	PAINT & ENAMELS	UV ACCELERATED WEATHERING TEST	ASTM G 154
106	CHEMICAL- PAINTS & SURFACE COATING	PAINT & ENAMELS	WET OPACITY	CHEQUARE BOARD METHOD
107	CHEMICAL- PAINTS & SURFACE COATING	PAINT & VARNISHES	RESISTANCE TO HUMIDITY UNDER CONDITIONS OF CONDENSATION	IS 101 (PART 6/ SEC 1) 1988 RA
108	CHEMICAL- PAINTS & SURFACE COATING	PAINT & VARNISHES	WATER CONTENT	IS 101 (PART 2/ SEC 1)
109	CHEMICAL- PAINTS & SURFACE COATING	PAINT& ENAMEL	SCRATCH HARDNESS	IS 101PART5/SEC2
110	CHEMICAL- PAINTS & SURFACE COATING	PAINT& VARNISHES	CONSISTANCY	IS 101 (PART 1 / SEC 5)
111	CHEMICAL- PAINTS & SURFACE COATING	PAINTS & ENAMELS	ACCELEARATED STORAGE STABILITY	IS 8662-ANNEX-F
112	CHEMICAL- PAINTS & SURFACE COATING	PAINTS & ENAMELS	DRY FILM THICKNESS	ASTM D7091

SCOPE OF ACCREDITATION

Laboratory Name : CHEMICAL & METALLURGICAL SERVICES, T.S.NO. 63, SIDCO INDUSTRIAL ESTATE, EKKADUTHANGAL, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5039 **Page No** 7 of 12

Validity 14/02/2023 to 13/02/2025 **Last Amended on** -

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113	CHEMICAL- PAINTS & SURFACE COATING	PAINTS & ENAMELS	RESISTANCE TO ACID	IS 9862-APPENDIX-B
114	CHEMICAL- PAINTS & SURFACE COATING	PAINTS & ENAMELS	RESISTANCE TO ALKALI	IS 9862-APPENDIX-C
115	CHEMICAL- PAINTS & SURFACE COATING	PAINTS & VANISHES	SALTS SPRAY(FOG)	ASTM B117
116	CHEMICAL- PAINTS & SURFACE COATING	PAINTS & VARNISHES	COLOUR	IS 101 (PART 4 / SEC 2) Clause 2.5.1 (Visual Method)
117	CHEMICAL- PAINTS & SURFACE COATING	PAINTS & VARNISHES	DRYING TIME (B) HARD DRY	IS 101 (PART 3 / SEC 1)
118	CHEMICAL- PAINTS & SURFACE COATING	PAINTS & VARNISHES	FILM THICKNESS	IS 101 (PART 3 / SEC 2)
119	CHEMICAL- PAINTS & SURFACE COATING	PAINTS & VARNISHES	FINENESS OF GRIND	IS 101 (PART 3 / SEC 5)
120	CHEMICAL- PAINTS & SURFACE COATING	PAINTS & VARNISHES	FINISH	IS 101 (PART 3 / SEC 4)
121	CHEMICAL- PAINTS & SURFACE COATING	PAINTS & VARNISHES	FLASH POINT	IS 101 (PART 1 / SEC 6)
122	CHEMICAL- PAINTS & SURFACE COATING	PAINTS & VARNISHES	FLEXIBILITY & ADHESSION	IS 101 (PART 5 / SEC 2)
123	CHEMICAL- PAINTS & SURFACE COATING	PAINTS & VARNISHES	MASS IN KG/10 LITER	IS 101 (PART 1 / SEC 7)
124	CHEMICAL- PAINTS & SURFACE COATING	PAINTS & VARNISHES	PIGMENT CONTENT	IS 101 (PART 8/ SEC 2)
125	CHEMICAL- PAINTS & SURFACE COATING	PAINTS & VARNISHES	RESISTANCE TO HEAT	IS 101 (PART 7 / SEC 3)
126	CHEMICAL- PAINTS & SURFACE COATING	PAINTS & VARNISHES	RESISTANCE TO WATER	IS 101 (PART 7 / SEC 1)
127	CHEMICAL- PAINTS & SURFACE COATING	PAINTS & VARNISHES	VISCOSITY (FORD CUP NO-4)	IS 101 (PART 1 / SEC 5)
128	CHEMICAL- PAINTS & SURFACE COATING	PAINTS & VARNISHES	VOLATILE MATTER	IS 101 (PART 2 / SEC 2)
129	CHEMICAL- PAINTS & SURFACE COATING	PAINTS & VARNISHES	VOLUME SOLIDS	IS 101 (PART 8 / SEC 6)
130	MECHANICAL- BUILDINGS MATERIALS	BRICKS	COMPRESSIVE STRENGTH	IS 3495 (PART 1)
131	MECHANICAL- BUILDINGS MATERIALS	BRICKS	WATER ABSORPTION	IS 3495 (PART-2)

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5039 **Page No** 8 of 12

Validity 14/02/2023 to 13/02/2025 **Last Amended on** -

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132	MECHANICAL- BUILDINGS MATERIALS	CEMENT CONCRETE CUBE	COMPRESSIVE STRENGTH	IS 516
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PRODUCTS	TENSILE STRENGTH	ASTM A370
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS	SPRING COMPRESSION	SOP No. 02 Issue No.01 6 October
135	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METAL SPECIMENS	BEND TEST	ASTM E290
136	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	IMPACT IZOD V NOTCH TEST	IS 1598
137	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	BEND TEST	IS 1599
138	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	ELONGATION %	ASTM E8/E8M
139	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	ELONGATION %	IS 1608 (PART 1)
140	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	Hardness - HBW (10/1000 kg)	IS 1500 (Part 1)
141	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	HARDNESS - HBW (10/3000 kg)	IS 1500 (PART 1)
142	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	HARDNESS 10/1000Kg	ASTM E10
143	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	HARDNESS -HBW (10/3000Kg)	ASTM E10
144	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	HARDNESS -HRBW	ASTM E18
145	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	HARDNESS -HRBW	IS 1586 (PART 1)

SCOPE OF ACCREDITATION

Laboratory Name : CHEMICAL & METALLURGICAL SERVICES, T.S.NO. 63, SIDCO INDUSTRIAL ESTATE, EKKADUTHANGAL, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5039 **Page No** 9 of 12

Validity 14/02/2023 to 13/02/2025 **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
146	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	HARDNESS-HRC	ASTM E18
147	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	HARDNESS-HRC	IS 1586 (PART 1)
148	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	HBW (5/ 750Kg)	IS 1500(PART 1)
149	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	IMPACT CHARPY V NOTCH (FROM AMBIENT TEMPERATURE TO -40 DEGREE CELSIUS)	IS 1757 (PART 1)
150	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	IMPACT CHARPY U NOTCH (FROM AMBIENT TEMPERATURE TO -40 DEGREE CELSIUS)	IS 1757 (PART 1)
151	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	IMPACT CHARPY V NOTCH(FROM AMBIENT TEMPERATURE TO -40 DEGRRE CELCIUS)	ISO 148PART-1
152	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	PROOF STRESS	IS 1608 (PART 1)
153	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	REDUCTION AREA	ASTM E8/E8M
154	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	REDUCTION AREA	IS 1608 (PART 1)
155	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	SPRING EXTENSION	CMS/SOP/EXTENSION
156	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	TENSILE STRENGTH	IS 1608 (PART 1)
157	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	TENSILE STRENGTH	ASTM E8/E8M
158	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	VICKER HARDNESS -HV-30	ASTM E92
159	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	VICKER HARDNESS -HV-5	ASTM E92

SCOPE OF ACCREDITATION

Laboratory Name : CHEMICAL & METALLURGICAL SERVICES, T.S.NO. 63, SIDCO INDUSTRIAL ESTATE, EKKADUTHANGAL, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5039 **Page No** 10 of 12

Validity 14/02/2023 to 13/02/2025 **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
160	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	VICKERS HARDNESS HV 10	IS 1501 (PART 1)
161	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	VICKERS HARDNESS HV 30	IS 1501 (PART 1)
162	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	VICKERS HARDNESS HV 5	IS 1501 (PART 1)
163	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	VIVCKER HARDNESS -HV-10	ASTM E92
164	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	YIELD STRENGTH	ASTM E8/E8M
165	MECHANICAL-MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	YIELD STRENGTH	IS 1608 (PART 1)
166	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PRODUCTS	ELONGATION %	ASTM A370
167	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PRODUCTS	YIELD STRENGTH	ASTM A370
168	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL BARS AND WIRES	MASS PER METER	IS 1786
169	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PRODUCTS	REDUCTION AREA	ASTM A370
170	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELD METALS (PLATE, PIPE ,DIAMETER)	TRANSVERSE TENSILE STRENGTH	ASME SEC IX
171	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELD & WELDED SPECIMEN	MACROETCH TEST	ASME sec -IX
172	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELDS IN METALLIC MATERIALS	TRANSVERSE STRENGTH	EN ISO 4136
173	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELDS & WELDED METALS	BEND TEST	ASME SEC IX

SCOPE OF ACCREDITATION

Laboratory Name : CHEMICAL & METALLURGICAL SERVICES, T.S.NO. 63, SIDCO INDUSTRIAL ESTATE, EKKADUTHANGAL, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5039 **Page No** 11 of 12

Validity 14/02/2023 to 13/02/2025 **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
174	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELDS & WELDED METALS	FILLET WELD FRACTURE TEST	ASME SEC IX
175	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELDS IN METALLIC MATERIALS	BEND TEST	ISO 5173
176	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELDS IN METALLIC MATERIALS	FILLET WELD FRACTURE TEST	EN ISO 9017
177	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELDS IN METALLIC MATERIALS	IMPACT CHARPY V NOTCH (FROM AMBIENT TEMPERATURE TO -40 DEGREE CELSIUS)	ISO9016
178	MECHANICAL-METALLOGRAPHY TEST	AUSTENITIC STAINLESS STEEL	INTERGRANULAR CORROSION TEST (IGC) PRACTICE-A	ASTM A262
179	MECHANICAL-METALLOGRAPHY TEST	ALUMINIUM & ITS ALLOYS	MACRO ETCH TEST	IS 12573
180	MECHANICAL-METALLOGRAPHY TEST	AUSTENITIC STAINLESS STEEL	INTERGRANULAR CORROSION TEST (IGC) PRACTICE-B	ASTM A262
181	MECHANICAL-METALLOGRAPHY TEST	AUSTENITIC STAINLESS STEEL	INTERGRANULAR CORROSION TEST (IGC) PRACTICE-C	ASTM A262
182	MECHANICAL-METALLOGRAPHY TEST	AUSTENITIC STAINLESS STEEL	INTERGRANULAR CORROSION TEST (IGC) PRACTICE-E	ASTM A262
183	MECHANICAL-METALLOGRAPHY TEST	COPPER & COPPER ALLOYS	MACRO ETCH TEST	IS 13484
184	MECHANICAL-METALLOGRAPHY TEST	GRAPHITE IN CAST IRON	TYPE ,SIZE & DISTRIBUTION	IS 7754
185	MECHANICAL-METALLOGRAPHY TEST	GRAPHITE IN IRON CASTINGS	TYPE, SIZE & DISTRIBUTION	ASTM A 247
186	MECHANICAL-METALLOGRAPHY TEST	METALLIC MATERIALS	ESATIMATION OF AVERAGE GRAIN SIZE	ASTM E112
187	MECHANICAL-METALLOGRAPHY TEST	METALLIC COATING	COATING THICKNESS (MICROSCOPY METHOD)	IS 3203
188	MECHANICAL-METALLOGRAPHY TEST	METALS & ITS ALLOYS	MICROSTRUCTURE ANALYSIS (BY OPTICAL MICROSCOPE)	ASME VOLUME 9
189	MECHANICAL-METALLOGRAPHY TEST	NON FARROUS & ALLOY SAMPLE	MICROSTRUCTURE ANALYSIS (BY OPTICAL MICROSCOPE)	ASME VOLUME 9
190	MECHANICAL-METALLOGRAPHY TEST	STEEL	DEPTH OF DECARBURIZATION (MICROSCOPY METHOD)	IS 6396

SCOPE OF ACCREDITATION

Laboratory Name : CHEMICAL & METALLURGICAL SERVICES, T.S.NO. 63, SIDCO INDUSTRIAL ESTATE, EKKADUTHANGAL, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5039 **Page No** 12 of 12

Validity 14/02/2023 to 13/02/2025 **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
191	MECHANICAL-METALLOGRAPHY TEST	STEEL	DETERMINATION OF CASE DEPTH (MICROSCOPY METHOD)	IS 6416
192	MECHANICAL-METALLOGRAPHY TEST	STEEL	ESTIMATION OF AVERAGE GRAIN SIZE	IS 4748
193	MECHANICAL-METALLOGRAPHY TEST	STEEL	NON METALIC INCLUSION RATING (MICROSCOPY METHOD)	IS 4163
194	MECHANICAL-METALLOGRAPHY TEST	STEEL	NON METALIC INCLUSIONRATING (MICROSCOPY METHOD)	ASTM E 45
195	MECHANICAL-METALLOGRAPHY TEST	STEEL BARS , BILLETES, BLOOMS& FORGINGS	MACRO EATCH TEST	ASTM E381
196	MECHANICAL-METALLOGRAPHY TEST	STEEL SPECIMENS	DEPTH OF DECARBURIZATION (MICROSCOPY METHOD)	ASTM E1077
197	MECHANICAL-METALLOGRAPHY TEST	WELDS IN METALLIC MATERIALS	MACRO ETCH TEST	EN ISO 17639
198	MECHANICAL-METALLOGRAPHY TEST	WROUGHT STEEL PRODUCTS	MACRO ETCH TEST	IS 11371
199	MECHANICAL- RUBBER AND RUBBER PRODUCTS	SYNTHETIC RUBBER & PRODUCTS	ELONGATION %	ASTM D412
200	MECHANICAL- RUBBER AND RUBBER PRODUCTS	SYNTHETIC RUBBER & ITS PRODUCT	TENSILE STRENGTH	ASTM D412
201	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Synthetic rubber & Products	HARDNESS - SHORE D	ASTM D2240
202	MECHANICAL- RUBBER AND RUBBER PRODUCTS	synthetic rubber and products	HARDNESS -SHORE A	ASTM D2240