National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : KIDAO LABORATORIES, A-3, MOGAPPAIR INDUSTRIAL ESTATE, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

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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- CORROSION TESTS	Austenitic stainless steel	Intergranular Corrosion (IGC)-Practice B	ASTM A 262
2	CHEMICAL- CORROSION TESTS	Austenitic stainless steel	Intergranular Corrosion (IGC)-Practice C	ASTM A 262
3	CHEMICAL- CORROSION TESTS	Austenitic stainless steel	Intergranular Corrosion (IGC)-Practice E	ASTM A 262
4	CHEMICAL- METALS & ALLOYS	Aluminium Metal	Lead	ASTM E 1251
5	CHEMICAL- METALS & ALLOYS	Aluminium Metal	Chromium	ASTM E 1251
6	CHEMICAL- METALS & ALLOYS	Aluminium Metal	Copper	ASTM E 1251
7	CHEMICAL- METALS & ALLOYS	Aluminium Metal	Iron	ASTM E 1251
8	CHEMICAL- METALS & ALLOYS	Aluminium Metal	Magnesium	ASTM E 1251
9	CHEMICAL- METALS & ALLOYS	Aluminium Metal	Manganese	ASTM E 1251
10	CHEMICAL- METALS & ALLOYS	Aluminium Metal	Nickel	ASTM E 1251
11	CHEMICAL- METALS & ALLOYS	Aluminium metal	Silicon	ASTM E 1251
12	CHEMICAL- METALS & ALLOYS	Aluminium Metal	Tin	ASTM E 1251
13	CHEMICAL- METALS & ALLOYS	Aluminium Metal	Titanium	ASTM E 1251
14	CHEMICAL- METALS & ALLOYS	Aluminium Metal	Zinc	ASTM E 1251
15	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloys steel	Aluminium	ASTM E 415
16	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloys steel	Boron	ASTM E 415
17	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloys steel	Carbon	ASTM E 415
18	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloys steel	Chromium	ASTM E 415

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19	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloys steel	Copper	ASTM E 415
20	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloys steel	Manganese	ASTM E 415
21	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloys steel	Molybdenum	ASTM E 415
22	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloys steel	Nickel	ASTM E 415
23	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloys steel	Niobium	ASTM E 415
24	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloys steel	Phosphorus	ASTM E 415
25	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloys steel	Silicon	ASTM E 415
26	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloys steel	Sulphur	ASTM E 415
27	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloys steel	Titanium	ASTM E 415
28	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloys steel	Vanadium	ASTM E 415
29	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	ASTM E1999
30	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	ASTM E 1999
31	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	ASTM E 1999
32	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	ASTM E 1999
33	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	ASTM E 1999
34	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorous	ASTM E 1999
35	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	ASTM E1999
36	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	ASTM E 1999
37	CHEMICAL- METALS & ALLOYS	Cast Iron	Tin	ASTM E 1999

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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
38	CHEMICAL- METALS & ALLOYS	Cast Iron	Titanium	ASTM E 1999
39	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium	ASTM E 1999
40	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Carbon	SOP-KL/CHE/MET-03: 2017
41	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Chromium	SOP-KL/CHE/MET-03: 2017
42	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Cobalt	SOP-KL/CHE/MET-03: 2017
43	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Copper	SOP-KL/CHE/MET-03: 2017
44	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Lead	SOP-KL/CHE/MET-03: 2017
45	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Manganese	SOP-KL/CHE/MET-03: 2017
46	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Molybdenum	SOP-KL/CHE/MET-03: 2017
47	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Nickel	SOP-KL/CHE/MET-03: 2017
48	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Phosphorus	SOP-KL/CHE/MET-03: 2017
49	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Silicon	SOP-KL/CHE/MET-03: 2017
50	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Sulphur	SOP-KL/CHE/MET-03: 2017
51	CHEMICAL- METALS & ALLOYS	Free Cutting Steel	Vanadium	SOP-KL/CHE/MET-03: 2017
52	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E 1086
53	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E 1086
54	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E 1086
55	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E 1086
56	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM E 1086

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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
57	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E 1086
58	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM E 1086
59	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E 1086
60	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM E 1086
61	CHEMICAL- METALS & ALLOYS	Tool Steel	Tungsten	SOP-KL/CHE/MET-03: 2017
62	CHEMICAL- METALS & ALLOYS	Tool Steel	Aluminium	SOP-KL/CHE/MET-03: 2017
63	CHEMICAL- METALS & ALLOYS	Tool Steel	Carbon	SOP-KL/CHE/MET-03: 2017
64	CHEMICAL- METALS & ALLOYS	Tool steel	Chromium	OP-KL/CHE/MET-03: 2017
65	CHEMICAL- METALS & ALLOYS	Tool Steel	Cobalt	SOP-KL/CHE/MET-03: 2017
66	CHEMICAL- METALS & ALLOYS	Tool Steel	Copper	SOP-KL/CHE/MET-03: 2017
67	CHEMICAL- METALS & ALLOYS	Tool Steel	Manganese	SOP-KL/CHE/MET-03: 2017
68	CHEMICAL- METALS & ALLOYS	Tool Steel	Molybdenum	SOP-KL/CHE/MET-03: 2017
69	CHEMICAL- METALS & ALLOYS	Tool Steel	Nickel	SOP-KL/CHE/MET-03: 2017
70	CHEMICAL- METALS & ALLOYS	Tool Steel	Phosphorus	SOP-KL/CHE/MET-03: 2017
71	CHEMICAL- METALS & ALLOYS	Tool Steel	Silicon	SOP-KL/CHE/MET-03: 2017
72	CHEMICAL- METALS & ALLOYS	Tool Steel	Sulphur	SOP-KL/CHE/MET-03: 2017
73	CHEMICAL- METALS & ALLOYS	Tool Steel	Tin	SOP-KL/CHE/MET-03: 2017
74	CHEMICAL- METALS & ALLOYS	Tool Steel	Titanium	SOP-KL/CHE/MET-03:2017
75	CHEMICAL- METALS & ALLOYS	Tool Steel	Vanadium	SOP-KL/CHE/MET-03: 2017

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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
76	CHEMICAL- PAINTS & SURFACE COATING	Paints & Enamels	Flexibility and adhesion	IS 101 Part 5/Sec 2
77	CHEMICAL- PAINTS & SURFACE COATING	Paints & Enamels	Mass	IS 101 Part 1/Sec 7
78	CHEMICAL- PAINTS & SURFACE COATING	Paints & Enamels	Acid Value	IS 101 Part 9/Sec 1
79	CHEMICAL- PAINTS & SURFACE COATING	Paints & Enamels	Ash content	IS 101 Part 8/ Sec 3
80	CHEMICAL- PAINTS & SURFACE COATING	Paints & Enamels	Colour	IS 101 Part 4/ Sec 2
81	CHEMICAL- PAINTS & SURFACE COATING	Paints & Enamels	Consistency	IS 101 Part 1/Sec 5
82	CHEMICAL- PAINTS & SURFACE COATING	Paints & Enamels	Film thickness	IS 101 Part 3/Sec 2
83	CHEMICAL- PAINTS & SURFACE COATING	Paints & Enamels	Fineness of Grind	IS 101 Part 3/ Sec 5
84	CHEMICAL- PAINTS & SURFACE COATING	Paints & Enamels	Finish	IS 101 Part 3/ Sec 4
85	CHEMICAL- PAINTS & SURFACE COATING	Paints & Enamels	Gloss	IS 101 Part 4/Sec 4
86	CHEMICAL- PAINTS & SURFACE COATING	Paints & Enamels	Non Volatile Matter	IS 101
87	CHEMICAL- PAINTS & SURFACE COATING	Paints & Enamels	Phthalic Anhydride	IS 101 Part 8/Sec 4
88	CHEMICAL- PAINTS & SURFACE COATING	Paints & Enamels	Pigments	IS 101 Part 8/Sec 2
89	CHEMICAL- PAINTS & SURFACE COATING	Paints & Enamels	Protection against corrosion	S 101 Part 4/Sec 1
90	CHEMICAL- PAINTS & SURFACE COATING	Paints & Enamels	Residue on sieve	S 101 Part 8/Sec 1
91	CHEMICAL- PAINTS & SURFACE COATING	Paints & Enamels	Resistance to Acid & Alkali	IS 8662
92	CHEMICAL- PAINTS & SURFACE COATING	Paints & Enamels	Resistance to Heat	IS 101 Part 7/Sec 3
93	CHEMICAL- PAINTS & SURFACE COATING	Paints & Enamels	Rosin Test	IS 101 Part 9/Sec 2
94	CHEMICAL- PAINTS & SURFACE COATING	Paints & Enamels	Scratch Hardness Test	IS 101 Part 5/Sec 1

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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
95	CHEMICAL- PAINTS & SURFACE COATING	Paints & Enamels	Viscosity	IS 101 Part 1/Sec 5
96	CHEMICAL- PAINTS & SURFACE COATING	Paints & Enamels	Volatile Matter	IS 101 Part 2/Sec 2
97	CHEMICAL- PAINTS & SURFACE COATING	Paints & Enamels	Volume Solids	IS 101 Part 8/ Sec 6
98	CHEMICAL- PAINTS & SURFACE COATING	Paints & Enamels	Water Content	IS 101 Part 2/Sec 1
99	CHEMICAL- PAINTS & SURFACE COATING	Paints & Enamels	Wet Opacity	IS 101 Part 4/Sec 1
100	CHEMICAL- PAINTS & SURFACE COATING	PANELS	COATING THICKNESS	IS 101 PART 3 /SEC 2
101	CHEMICAL- PLASTIC & RESINS	Sheet, Laminated sheet, rod and bars, Tubes, plastic and molded item	Water absorption of plastics	ASTM D 570
102	CHEMICAL- PLASTIC & RESINS	Sheets, Lamination sheets, Rod & Bars, Tubes Plastic and molded item	Density	ASTM D 792
103	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber & Rubber Products	Pyrolysis Test	IS 3400 Part 22
104	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber & Rubber Products	Resistance to Liquids	IS 3400 Part 6
105	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber Products	Density	IS 3400 Part 9
106	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials alloys & products	SURFACE ROUGHNESS	IS 3073
107	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metal & Alloys	Bend Test	IS 1599
108	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metal & alloys	Brinell Hardness Test - HBW 10/3000	ASTM E 10
109	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metal & alloys	Brinell Hardness Test - HBW 10/3000	IS 1500 Part 1
110	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metal & alloys	Brinell Hardness Test - HBW 2.5/187.5	ASTM E10
111	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metal & alloys	Brinell Hardness Test - HBW 2.5/187.5	IS 1500 Part 1

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112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & alloys	Brinell Hardness Test - HBW 5/750	ASTM E 10
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & alloys	Brinell Hardness Test - HBW 5/750	IS 1500 Part 1
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & alloys	Vickers Hardness Test HV 10 kg	ASTM E 92
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & alloys	Vickers Hardness Test HV 10 kg	IS 1501 Part 1
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & alloys	Vickers Hardness Test HV 30 kg	ASTM E 92
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal & alloys	Vickers Hardness Test HV 30 kg	IS 1501 Part 1
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Tubes	Flattening Test	IS 2328
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals & Alloys	Charpy Impact Test- V Notch (RT to -40 Deg C)	IS 1757
120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals &Alloys	Rockwell Hardness Test- HRB	IS 1586 Part 1
121	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals &Alloys	Rockwell Hardness Test-HRB	ASTM E18
122	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals &Alloys	Rockwell Hardness Test-HRC	ASTM E 18
123	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals &Alloys	Rockwell Hardness Test-HRC	IS 1586 Part 1
124	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals, Alloys & Wires	Elongation	IS 1608
125	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals, Alloys & Wires	Reduction Area	IS 1608

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126	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals, Alloys & Wires	Tensile Strength	IS 1608
127	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals, Alloys &Wires	%Reduction Area	ASTM A370
128	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals,Alloys & Wires	% Elongation	ASTM A370
129	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals,Alloys & Wires	Tensile Test	ASTM A370
130	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals,Alloys & Wires	Yield Strength	ASTM A370
131	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals,Alloys&Wires	Yield Strength	IS 1608
132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	TMT Bar	Re-Bend Test	S 1786
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld Component	Bend Test	ASME SEC IX 2019 QW-160
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld Component	Charpy Impact Test V (Room Temp) Joules	ASME SEC IX-2019 QW-170
135	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld Component	Tensile Test	ASME SEC IX 2019- QW-150
136	MECHANICAL-METALLOGRAPHY TEST	Austenitic & ferritic steels - Ferrous Alloys	Average Grain Size Measurement of austenitic & ferritic steels	ASTM E 112
137	MECHANICAL-METALLOGRAPHY TEST	Austenitic & ferritic steels - Ferrous Alloys	Average Grain Size Measurement of austenitic & ferritic steels	IS 4748
138	MECHANICAL-METALLOGRAPHY TEST	Ferrous Alloys	Determination of depth of Decarburization By Microscopic method	IS 6396
139	MECHANICAL-METALLOGRAPHY TEST	Ferrous alloys	Determination of Inclusion content	ASTM E 45

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140	MECHANICAL-METALLOGRAPHY TEST	Ferrous alloys	Determination of Inclusion Content	IS 4163
141	MECHANICAL-METALLOGRAPHY TEST	Ferrous Alloys	Macro Etching Test	ASME SEC IX
142	MECHANICAL-METALLOGRAPHY TEST	Ferrous Alloys	Macro Etching Test	ASTM E 340
143	MECHANICAL-METALLOGRAPHY TEST	Ferrous Alloys	Macro Etching Test	ASTM E 381
144	MECHANICAL-METALLOGRAPHY TEST	Ferrous Alloys	Macro Etching Test	IS 11371
145	MECHANICAL-METALLOGRAPHY TEST	Ferrous Alloys	Micro-structural analysis, Metallographic Examination	ASM Hand Book volume 9
146	MECHANICAL-METALLOGRAPHY TEST	Ferrous Alloys	Micro-structural analysis, Metallographic Examination	IS 7754
147	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & Prodcuts	Estimate of Case depth -by Microscopic method @ 100x	IS 6416
148	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Material & Products	Determination of Shore D Hardness	ASTM D 2240
149	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Products	Compression set	IS 3400 Part 10
150	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Products	Shore A Hardness	ASTM D 2240
151	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Products	Tear Strength	IS 3400 Part 17
152	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Products	Tensile Strength	IS 3400 Part 1