



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name SIDDHARTHA SPECTRO, PLOT NO.20, NEW MANDOLI INDUSTRIAL AREA, SHAHDARA, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-7270 Page No. : 1 / 12

Validity 13/05/2018 to 12/05/2020 Last Amended on 27/05/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
Permanent Facility					
1	CHEMICAL- CORROSION TESTS	Ferrous & Non-Ferrous Metals & Alloys	Salt Spray Test	ASTM B 117: 2018	Qualitative
2	CHEMICAL- CORROSION TESTS	Polymer Components	Salt Spray Test	ASTM B 117: 2018	Qualitative
3	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Chromium	ASTM E 1251: 2017	0.01 % to 0.25 %
4	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Copper	ASTM E 1251: 2017	0.05 % to 8.0 %
5	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Iron	ASTM E 1251: 2017	0.003 % to 2.0 %
6	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Lead	ASTM E 1251: 2017	0.04 % to 0.35 %
7	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Magnesium	ASTM E 1251: 2017	0.02 % to 2.0 %
8	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Manganese	ASTM E 1251: 2017	0.03 % to 1.0 %
9	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Nickel	ASTM E 1251: 2017	0.03 % to 0.5 %
10	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Silicon	ASTM E 1251: 2017	0.01 % to 18.0 %
11	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Tin	ASTM E 1251: 2017	0.03 % to 0.20 %
12	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Titanium	ASTM E 1251: 2017	0.002 % to 0.25 %
13	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Vanadium	ASTM E 1251: 2017	0.007 % to 0.05 %



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14	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Zinc	ASTM E 1251: 2017	0.05 % to 1.0 %
15	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	ASTM E 999: 2018	1.8 % to 3.5 %
16	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	ASTM E 999: 2018	0.5 % to 1.6 %
17	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	ASTM E 999: 2018	0.07 % to 0.5 %
18	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	ASTM E 999: 2018	0.1 % to 1.00 %
19	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	ASTM E 999: 2018	0.07 % to 0.15 %
20	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	ASTM E 999: 2011	0.8 % to 2.5 %
21	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	ASTM E 999: 2011	0.03 % to 0.35 %
22	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	ASTM E 999: 2018	0.8 % to 3.0 %
23	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	ASTM E 999: 2018	0.03 % to 0.10 %
24	CHEMICAL- METALS & ALLOYS	Cast Iron	Tin	ASTM E 999: 2018	0.01 % to 0.10 %
25	CHEMICAL- METALS & ALLOYS	Cast Iron	Titanium	ASTM E 999: 2018	0.01 % to 0.10 %
26	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Aluminium	IS EN 15079: 2015	0.002 % to 1.0 %
27	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Antimony	IS EN 15079: 2015	0.003 % to 0.35 %



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28	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Arsenic	IS EN 15079: 2015	0.007 % to 0.40 %
29	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Bismuth	IS EN 15079: 2015	0.003 % to 0.25 %
30	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Iron	IS EN 15079: 2015	0.003 % to 1.0 %
31	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Lead	IS EN 15079: 2015	0.005 % to 12 %
32	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Manganese	IS EN 15079: 2015	0.003 % to 2.0 %
33	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Nickel	IS EN 15079: 2015	0.007 % to 1.0 %
34	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Phosphorus	IS EN 15079: 2015	0.001 % to 0.25 %
35	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Sulphur	IS EN 15079: 2015	0.001 % to 0.25 %
36	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Tin	IS EN 15079: 2015	0.001 % to 12.0 %
37	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Zinc	IS EN 15079: 2015	0.001 % to 45.0 %
38	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 9879: 2015	0.01 % to 0.1 %
39	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 9879: 2015	10.0 % to 20.0 %
40	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	IS 9879: 2015	0.05 % to 0.65 %
41	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 9879: 2015	0.1 % to 2.0 %



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42	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS 9879: 2015	0.09 % to 2.5 %
43	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 9879: 2015	0.5 % to 12.0 %
44	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	IS 9879: 2015	0.01 % to 0.04 %
45	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 9879: 2015	0.2 % to 0.7 %
46	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	IS 9879: 2015	0.001 to 0.05
47	CHEMICAL- METALS & ALLOYS	Steel (Low Alloys & Carbon Steel)	Aluminium	ASTM E 415: 2017	0.006 % to 0.15 %
48	CHEMICAL- METALS & ALLOYS	Steel (Low Alloys & Carbon Steel)	Carbon	ASTM E 415: 2017	0.001 % to 1.5 %
49	CHEMICAL- METALS & ALLOYS	Steel (Low Alloys & Carbon Steel)	Chromium	ASTM E 415: 2017	0.001 % to 1.5 %
50	CHEMICAL- METALS & ALLOYS	Steel (Low Alloys & Carbon Steel)	Cobalt	ASTM E 415: 2017	0.001 % to 0.2 %
51	CHEMICAL- METALS & ALLOYS	Steel (Low Alloys & Carbon Steel)	Copper	ASTM E 415: 2017	0.005 % to 0.5 %
52	CHEMICAL- METALS & ALLOYS	Steel (Low Alloys & Carbon Steel)	Manganese	ASTM E 415: 2017	0.05 % to 2.0 %
53	CHEMICAL- METALS & ALLOYS	Steel (Low Alloys & Carbon Steel)	Molybdenum	ASTM E 415: 2017	0.001 % to 1.3 %
54	CHEMICAL- METALS & ALLOYS	Steel (Low Alloys & Carbon Steel)	Nickel	ASTM E 415: 2017	0.006 % to 1.5 %
55	CHEMICAL- METALS & ALLOYS	Steel (Low Alloys & Carbon Steel)	Niobium	ASTM E 415: 2017	0.008 % to 0.15 %



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56	CHEMICAL- METALS & ALLOYS	Steel (Low Alloys & Carbon Steel)	Phosphorus	ASTM E 415: 2017	0.001 to 0.1 %
57	CHEMICAL- METALS & ALLOYS	Steel (Low Alloys & Carbon Steel)	Silicon	ASTM E 415: 2017	0.001 % to 1.6 %
58	CHEMICAL- METALS & ALLOYS	Steel (Low Alloys & Carbon Steel)	Sulphur	ASTM E 415: 2017	0.001 % to 0.1 %
59	CHEMICAL- METALS & ALLOYS	Steel (Low Alloys & Carbon Steel)	Tin	ASTM E 415: 2017	0.001 % to 0.5 %
60	CHEMICAL- METALS & ALLOYS	Steel (Low Alloys & Carbon Steel)	Titanium	ASTM E 415: 2017	0.001 % to 0.5 %
61	CHEMICAL- METALS & ALLOYS	Steel (Low Alloys & Carbon Steel)	Vanadium	ASTM E 415: 2017	0.001 % to 0.5 %
62	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Aluminium	IS:2599: 1983	0.01 % to 7.0 %
63	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Cadmium	IS:2599: 1983	0.006 % to 0.10 %
64	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Copper	IS:2599: 1983	0.008 % to 2.0 %
65	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Iron	IS:2599: 1983	0.007 % to 0.5 %
66	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Lead	IS:2599: 1983	0.001 % to 1.5 %
67	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Magnesium	IS:2599: 1983	0.001 % to 0.15 %
68	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Manganese	S.S/SOP/Zn-1: 2018	0.001 % to 0.1 %
69	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Nickel	S.S/SOP/Zn-1: 2018	0.001 % to 0.10 %



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70	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Tin	IS:2599: 1983	0.001 % to 0.1 %
71	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper & its Alloys	0.2% Proof Stress	ASTM E8/E8M: 2016a	10 kN to 200 kN load
72	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper & its Alloys	0.2% Proof Stress	IS:1608-1: 2018	10 kN to 200 kN load
73	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper & its Alloys	Bend Test	IS:1599: 2012	Qualitative(Mandrel dia 4, 6, 8, 10, 12, 16, 20 and 24 mm.)
74	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper & its Alloys	Brinell Hardness Test	IS:1500 (Pt-1): 2013	95.5 to 653 HBW 10/3000, 95.5 to 653 HBW 5/750, 95.5 to 229 HBW 2.5/187.5
75	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper & its Alloys	Elongation	IS:1608-1: 2018	2 % to 70 %
76	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper & its Alloys	Elongation	ASTM E8/E8M: 2016a	2 % to 70 %
77	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper & its Alloys	Reduction of Area	ASTM E-8/8M: 2016	20 % to 80 %



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78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper & its Alloys	Reduction of Area	ASTM E8/E8M: 2016a	20 % to 80 %
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper & its Alloys	Rockwell Hardness Test (C-Scale)	IS:1586 (Pt-1): 2018	20 HRC to 67 HRC
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper & its Alloys	Rockwell Hardness Test (HRBW)	IS:1586 (Pt-1): 2018	20 HRBW to 95 HRBW
81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper & its Alloys	Tensile Strength	IS:1608-1: 2018	10 kN to 200 kN load
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper & its Alloys	Tensile Strength	ASTM E8/E8M: 2016a	10 kN to 200 kN
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper & its Alloys	Yield Stress	IS:1608-1: 2018	10 kN to 200 kN load
84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper & its Alloys	Yield Stress	ASTM E8/E8M: 2016a	10 kN to 200 kN load



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85	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper Metals & Alloys	Vickers Hardness Test	IS:1501 (Pt-1): 2013	80 HV1, HV5, HV10, HV30 to 900 HV1, HV5, HV10, HV30
86	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	0.2% Proof Stress	IS:1608-1: 2018	10 kN to 200 kN
87	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	0.2% Proof Stress	ASTM E8/E8M: 2016a	10 MPa to 200 MPa
88	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Brinell Hardness Test	IS:1500 (Pt-1): 2013	95.5 to 653 HBW 10/3000, 95.5 to 653 HBW 5/750, 95.5 to 229 HBW 2.5/187.5
89	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Elongation	ASTM E8/E8M: 2016a	2 % to 70 %
90	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Elongation	IS:1608-1: 2018	2 % to 70 %
91	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Proof Load Test	IS:1367(Pt-3&6): 2002	Qualitative



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92	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Reduction of Area	ASTM E8/E8M: 2016a	20 % to 80 %
93	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Reduction of Area	IS 1608-1: 2018	2 % to 80 %
94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Rockwell Hardness Test (HRBW)	IS:1586 (Pt-1): 2018	20 HRBW to 95 HRBW
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Rockwell hardness Test (HRC)	IS 1586 (Pt-1): 2018	20 HRC to 67 HRC
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Tensile Strength	IS 1608-1: 2018	10 kN to 200 kN load
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Tensile Strength	ASTM E8/E8M: 2016a	10 kN to 200 kN load
98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Vickers Hardness Test	IS:1501 (Pt-1): 2013	80 HV1, HV5, HV10, HV30 to 900 HV1, HV5, HV10, HV30



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99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Yield Stress	IS 1608-1: 2018	10 kN to 200 kN load
100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Yield Stress	ASTM E8/E8M: 2016a	10 kN to 200 kN load
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals and Alloys	Bend Test	IS:1599: 2012	Qualitative(Mandrel dia. 4, 6, 8, 10, 12, 16, 20 and 24 mm.)
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Tube	Flattening Test	IS 2328: 2018	Qualitative
103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Tube	Flattening Test	IS:2328: 2018	Qualitative
104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Tube	Flattening Test	IS 2328: 2018	Qualitative
105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals & Alloys	0.2% Proof Stress	IS 1608-1: 2018	10 kN to 200 kN load



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106	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals & Alloys	0.2% Proof Stress	ASTM E8/E8M: 2016a	10 kN to 200 kN load
107	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals & Alloys	Bend Test	IS 1599: 2012	Qualitative(Mandrel dia. 4, 6, 8, 10, 12, 16, 20 and 24 mm.)
108	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals & Alloys	Brinell Hardness Test	IS:1500 (Pt-1): 2013	95.5 to 653 HBW 10/3000, 95.5 to 653 HBW 5/750, 95.5 to 229 HBW 2.5/187.5
109	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals & Alloys	Elongation	IS 1608-1: 2018	2 % to 70 %
110	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals & Alloys	Elongation	ASTM E8/E8M: 2016a	2 % to 70 %
111	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals & Alloys	Reduction of Area	IS 1608-1: 2018	10 % to 80 %
112	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals & Alloys	Reduction of Area	ASTM E8/E8M: 2016a	10 % to 80 %



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113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals & Alloys	Rockwell Hardness Test (HRBW)	IS 1586 (Pt-1): 2018	20 HRBW to 95 HRBW
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals & Alloys	Rockwell Hardness Test (HRC)	IS 1586 (Pt-1): 2018	20 HRC to 67 HRC
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals & Alloys	Tensile Strength	ASTM E8/E8M: 2016a	10 MPa to 200 MPa
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals & Alloys	Tensile Strength	IS 1608-1: 2018	10 kN to 200 kN load
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals & Alloys	Vickers Hardness Test	IS 1501 (Pt-1): 2013	80 HV1, HV5, HV10, HV30 to 900 HV1, HV5, HV10, HV30
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals & Alloys	Yield Stress	IS 1608-1: 2018	10 kN to 200 kN load
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals & Alloys	Yield Stress	ASTM E8/E8M: 2016a	10 kN to 200 kN load