



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name MASCOT LABORATORY SERVICES, #93, 7TH MAIN, 3RD PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5385 Page No. : 1 / 16

Validity 20/02/2019 to 19/02/2021 Last Amended on -

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	Coated/plated items (Ferrous & Non Ferrous base), Anodized products, Painted and Powder coated articles, Galvanized items, Electrical and Electronic items	Resistance at required humidity & temperature conditions	IS 101 (Part 7:Sec 1): 1989	Qualitative
2	CHEMICAL-CORROSION TESTS	Coated/plated items (Ferrous & Non Ferrous base), Anodized products, Painted and Powder coated articles, Galvanized items, Electrical and Electronic items	Neutral Salt spray tests	ASTM B-117-11: 2011	Qualitative
3	CHEMICAL-CORROSION TESTS	Coated/plated items (Ferrous & Non Ferrous base), Anodized products, Painted and Powder coated articles, Galvanized items, Electrical and Electronic items	Neutral Salt Spray tests	IS 9844: 1981	Qualitative



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4	CHEMICAL- CORROSION TESTS	Coated/plated items (Ferrous & Non Ferrous base), Anodized products, Painted and Powder coated articles, Galvanized items, Electrical and Electronic items	Resistance at required humidity & temperature conditions	IS 9000 (Part 6) : 1978	Qualitative
5	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Beryllium	ASTM E 1251-17a: 2017	0.001 % to 0.002 %
6	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Bismuth	ASTM E 1251-17a: 2017	0.02 % to 0.13 %
7	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Chromium	ASTM E 1251-17a: 2017	0.005 % to 0.17 %
8	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	ASTM E 1251-17a: 2017	0.008 % to 0.40 %
9	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Gallium	ASTM E 1251-17a: 2017	0.008 % to 0.01 %
10	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron	ASTM E 1251-17a: 2017	0.4 % to 1.0 %
11	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lead	ASTM E 1251-17a: 2017	0.002 % to 0.08 %
12	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium	ASTM E 1251-17a: 2017	0.04 % to 0.80 %
13	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	ASTM E 1251-17a: 2017	0.01 to 1.00
14	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel	ASTM E 1251-17a: 2017	0.18 % to 0.35 %



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15	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon	ASTM E 1251-17a: 2017	0.10 to 13.5
16	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Tin	ASTM E 1251-17a: 2017	0.004 % to 0.12 %
17	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Titanium	ASTM E 1251-17a: 2017	0.01 % to 0.12 %
18	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Vanadium	ASTM E 1251-17a: 2017	0.008 % to 0.02 %
19	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	ASTM E 1251-17a: 2017	0.06 % to 0.43 %
20	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zirconium	ASTM E 1251-17a: 2017	0.0006 to 0.001
21	CHEMICAL- METALS & ALLOYS	Cast Iron	Aluminium	IS 15338: 2003	0.002 % to 0.04 %
22	CHEMICAL- METALS & ALLOYS	Cast Iron	Boron	IS 15338: 2003	0.001 % to 0.003 %
23	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	IS 15338: 2003	1.9 % to 4.6 %
24	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	IS 15338: 2003	0.09 % to 0.62 %
25	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	IS 15338: 2003	0.01 % to 0.16 %
26	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	IS15338: 2003	0.17 % to 2.20 %
27	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	IS15338: 2003	0.005 % to 0.52 %
28	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	IS15338: 2003	0.03 % to 2.4 %



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29	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorous	IS 15338: 2003	0.002 % to 0.15 %
30	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	IS15338: 2003	0.4 % to 2.42 %
31	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	IS 15338: 2003	0.001 % to 0.10 %
32	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium	IS 15338: 2003	0.001 % to 0.14 %
33	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Aluminium	BS EN 15079: 2015	0.008 % to 13.8 %
34	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Antimony	BS EN 15079: 2015	0.02 % to 0.20 %
35	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	BS EN 15079: 2015	0.01 % to 7.3 %
36	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Lead	BS EN 15079: 2015	0.01 % to 3.6 %
37	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Magnesium	BS EN 15079: 2015	0.002 % to 0.01 %
38	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Manganese	BS EN 15079: 2015	0.01 % to 7.7 %
39	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel	BS EN 15079: 2015	0.02 % to 4.6 %
40	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Phosphorous	BS EN 15079: 2015	0.008 % to 0.60 %
41	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silicon	BS EN 15079: 2015	0.005 % to 0.30 %
42	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Sulphur	BS EN 15079: 2015	0.02 % to 0.08 %



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43	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Tin	BS EN 15079: 2015	0.01 % to 13.6 %
44	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Zinc	BS EN 15079: 2015	0.20 % to 37.8 %
45	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Aluminium	IS 8811: 1998	0.01 % to 0.4 %
46	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Carbon	IS 8811: 1998	0.04 % to 1.12 %
47	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Chromium	IS 8811: 1998	0.09 % to 2.4 %
48	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Cobalt	IS 8811: 1998	0.003 % to 0.005 %
49	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Copper	IS 8811: 1998	0.02 % to 0.85 %
50	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Manganese	IS 8811: 1998	0.3 % to 1.44 %
51	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Molybdenum	IS 8811: 1998	0.02 % to 1.20 %
52	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nickel	IS 8811: 1998	0.01 % to 4.96 %
53	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Phosphorous	IS 8811: 1998	0.005 % to 0.07 %
54	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Silicon	IS 8811: 1998	0.18 % to 1.35 %
55	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Sulphur	IS 8811: 1998	0.006 % to 0.07 %
56	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Vanadium	IS 8811: 1998	0.008 % to 0.600 %



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57	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Aluminium	MLS/OES/SOP/01 Issue No.02 march 14: 2016	0.17 % to 0.26 %
58	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Carbon	MLS/OES/SOP/01 Issue No.02 march 14 : 2016	0.02 % to 0.03 %
59	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Chromium	MLS/OES/SOP/01 Issue No.02 march 14: 2016	17.4 % to 21.0 %
60	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Cobalt	MLS/OES/SOP/01 Issue No.02 march 14: 2016	0.03 % to 0.04 %
61	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Iron	MLS/OES/SOP/01 Issue No.02 march 14: 2016	3.00 % to 4.50 %
62	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Manganese	MLS/OES/SOP/01 Issue No.02 march 14: 2016	0.02 % to 0.03 %
63	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Molybdenum	MLS/OES/SOP/01 Issue No.02 march 14: 2016	7.1 % to 10.7 %
64	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Niobium	MLS/OES/SOP/01 Issue No.02 march 14: 2016	2.8 % to 4.2 %
65	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Phosphorous	MLS/OES/SOP/01 Issue No.02 march 14: 2016	0.002 % to 0.005 %
66	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Silicon	MLS/OES/SOP/01 Issue No.02 march 14: 2016	0.07 % to 0.08 %



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67	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Sulphur	MLS/OES/SOP/01 Issue No.02 march 14: 2016	0.005 % to 0.007 %
68	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Titanium	MLS/OES/SOP/01 Issue No.02 march 14: 2016	0.20 to 0.30
69	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Copper	MLS/OES/SOP/01 Issue No.02 march 14: 2016	0.01 % to 0.02 %
70	CHEMICAL- METALS & ALLOYS	Stainless steel	Carbon	IS 9879: 1998	0.01 % to 1.20 %
71	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 9879: 1998	10.4 % to 22.00 %
72	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	IS 9879: 1998	0.03 % to 0.55 %
73	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 9879: 1998	0.28 % to 2.11 %
74	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS 9879: 1998	0.10 % to 2.50 %
75	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS9879: 1998	0.10 % to 12.4 %
76	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorous	IS 9879: 1998	0.01 % to 0.04 %
77	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 9879: 1998	0.30 % to 0.76 %
78	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	IS9879: 1998	0.01 % to 0.40 %



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79	CHEMICAL- METALS & ALLOYS	Tool steel	Carbon	MLS/OES/SOP/01 Issue No.2 March 14: 2016	0.50 % to 1.10 %
80	CHEMICAL- METALS & ALLOYS	Tool steel	Chromium	MLS/OES/SOP/01 Issue No.2 March 14: 2016	2.7 % to 4.8 %
81	CHEMICAL- METALS & ALLOYS	Tool steel	Cobalt	MLS/OES/SOP/01 Issue No.2 March 14: 2016	0.25 % to 4.97 %
82	CHEMICAL- METALS & ALLOYS	Tool steel	Manganese	MLS/OES/SOP/01 Issue No.2 March 14: 2016	0.20 % to 0.50 %
83	CHEMICAL- METALS & ALLOYS	Tool steel	Molybdenum	MLS/OES/SOP/01 Issue No.2 March 14: 2016	0.20 % to 0.80 %
84	CHEMICAL- METALS & ALLOYS	Tool steel	Phosphorous	MLS/OES/SOP/01 Issue No.2 March 14: 2016	0.02 % to 0.05 %
85	CHEMICAL- METALS & ALLOYS	Tool steel	Silicon	MLS/OES/SOP/01 Issue No.2 March 14: 2016	0.10 % to 0.40 %
86	CHEMICAL- METALS & ALLOYS	Tool steel	Sulphur	MLS/OES/SOP/01 Issue No.2 March 14: 2016	0.02 % to 0.05 %
87	CHEMICAL- METALS & ALLOYS	Tool steel	Tungsten	MLS/OES/SOP/01 Issue No.2 March 14: 2016	11.20 to 17.80
88	CHEMICAL- METALS & ALLOYS	Tool steel	Vanadium	MLS/OES/SOP/01 Issue No.2 March 14: 2016	0.45 to 1.20



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89	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	0.2percent proof stress	IS 1608 part1: 2018	180 MPa to 700 MPa
90	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Brinell Hardness ,HBW(2.5/187.5)	IS 1500 (Part 1): 2013	100 HBW to 550 HBW
91	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper materials,alloys & products	Brinell Hardness ,HBW(5/750)	IS 1500 (Part 1): 2013	100 HBW to 300 HBW
92	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper materials,alloys & products	Brinell Hardness,HBW(10/300 0)	IS 1500 (Part 1): 2013	190 HBW to 370 HBW
93	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper materials,alloys & products	Percentage Elongation at gauge length	IS1608 part1: 2018	2 % to 50 %
94	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper materials,alloys & products	Rockwell Hardness, HRC	IS 1586 (Part 1): 2018	20 HRC to 60 HRC
95	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper materials,alloys & products	Rockwell Hardness,HRB	IS 1586 (Part 1): 2018	40 HRBW to 90 HRBW



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96	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper materials,alloys & products	Tensile strength	IS 1608 part1: 2018	10 MPa to 800 MPa
97	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper materials,alloys & products	Vickers Hardness (HV 10)	IS 1501 (Part 1): 2013	50 HV10 to 700 HV10
98	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper materials,alloys & products	Vickers Hardness (HV 1)	IS 1501 (Part 1): 2013	50 HV1 to 700 HV1
99	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper materials,alloys & products	Vickers Hardness (HV 30)	IS 1501 (Part 1): 2013	50 HV30 to 750 HV 30
100	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper materials,alloys & products	Vickers Hardness (HV5)	IS 1501 (Part 1): 2013	50 HV5 to 700 HV5
101	MECHANICAL- MECHANICAL PROPERTIES OF METALS	ferrous alloys & products	Tensile Strength	IS 1608 part1: 2018	10 MPa to 500 MPa
102	MECHANICAL- MECHANICAL PROPERTIES OF METALS	ferrous lloys & products	Percentage Elongation after fracture	IS 1608 part1: 2018	2 % to 50 %



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103	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & Products	Brinell Hardness (5/750)	IS 1500 (Part 1): 2013	200 HBW to 300 HBW
104	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & Products	Brinell Hardness HBW(10/3000)	IS 1500 (Part 1): 2013	190 HBW to 370 HBW
105	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & Products	Brinell Hardness HBW(2.5/187.5)	IS 1500 (Part 1): 2013	200 HBW to 550 HBW
106	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & Products	CHARPY Impact test @23 +/- 5°C	IS 1757 part1: 2014	30 J to 300 J
107	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & Products	IZOD Impact test @23 +/- 5°C	IS 1598: 1977	30 J to 168 J
108	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & Products	Percentage Elongation after fracture	IS 1608 part1: 2018	2 % to 50 %
109	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & Products	Rockwell Hardness (HRB)	IS 1586 (Part 1): 2018	80 HRBW to 90 HRBW



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110	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & Products	Rockwell Hardness, HRC	IS 1586 (Part 1): 2012	20 HRC to 60 HRC
111	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & Products	Tensile strength	IS 1608 part1: 2018	10 kN to 180 kN
112	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & Products	Tensile Strength	IS 1608 part1: 2018	40 kN to 1000 kN
113	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & Products	Vickers Hardness (HV1)	IS 1501 (Part 1): 2013	200 HV1 to 700 HV1
114	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & Products	Vickers Hardness (HV10)	IS 1501 (Part 1): 2013	110 HV10 to 700 HV10
115	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & Products	Vickers Hardness (HV30)	IS 1501(Part 1): 2013	200 HV30 to 750 HV30
116	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & Products	Vickers Hardness (HV5)	IS 1501 (Part 1): 2013	200 HV5 to 700 HV5



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117	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & Products	Yield Strength	IS 1608 part1: 2018	40 kN to 1000 kN
118	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & Products	Yield Strength	IS 1608 part1: 2018	10 kN to 180 kN
119	MECHANICAL- MECHANICAL PROPERTIES OF METALS	-Ferrous metals,alloys & products	Yield Strength	IS 1608 part1: 2018	10 MPa to 700 MPa
120	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals & alloys & products	0.2 Percent Proof Stress	IS 1500 (Part 1): 2013	10 Mpa to 700 MPa
121	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals & alloys & products	Brinell Hardness,HBW (10/3000)	IS 1500 (Part 1): 2013	100 HBW to 370 HBW
122	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals & alloys & products	Brinell Hardness,HBW (2.5/187.5)	IS 1500 (Part 1): 2013	100 HBW to 550 HBW
123	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals & alloys & products	Brinell Hardness,HBW(5/750)	IS 1500 (Part 1): 2013	100 HBW to 300 HBW



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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
124	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals & alloys & products	Rockwell Hardness, HRC	IS 1586 (Part 1): 2018	20 HRC to 60 HRC
125	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals & alloys & products	Rockwell Hardness,HRBW	IS 1586 (Part 1): 2018	40 HRBW to 90 HRBW
126	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals & alloys & products	Vickers Hardness (HV1)	IS 1501 (Part 1): 2013	100 HV1 to 700 HV1
127	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals & alloys & products	Vickers Hardness (HV10)	IS 1501 (Part 1): 2013	110 HV10 to 700 HV10
128	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals & alloys & products	Vickers Hardness (HV30)	IS 1501 (Part 1): 2013	100 HV30 to 750 HV30
129	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals & alloys & products	Vickers Hardness (HV5)	IS 1501 (Part 1): 2013	100 HV5 to 700 HV5
130	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Tensile Strength	IS 1608 part1: 2018	40 kN to 1000 kN
131	MECHANICAL- METALLOGRAPHY TEST	Ferrous materials and products	Inclusion rating	IS 4163: 2004	Qualitative



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SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

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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
132	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Total Case depth by microscopic method	IS 6416: 1988	0.05 mm to 1.0 mm
133	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & Products	Decarburisation depth (by microscopic method)	IS 6396: 2000	0.01 mm to 1.0 mm
134	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & Products	Grain size by comparison method	IS 4748: 2009	Qualitative
135	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Inspection & rating (Macro etch test)	IS 13015: 1991	Qualitative
136	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & Products	Micro-structure designation	IS 7739 (Part 5): 1976	Qualitative
137	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & Products	Micro-structure designation (Cast Iron)	IS 7754: 1975	Qualitative
138	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Macro-etch of wrought steel product	IS 11371: 1985	Qualitative
139	MECHANICAL-METALLOGRAPHY TEST	Metallic coatings	Coating/Plating thickness by microscope	IS 3203: 1982	2 microns to 100 microns
140	MECHANICAL-METALLOGRAPHY TEST	Welds & welded test specimens	Fillet weld testing	AWS D1.1: 2000	Qualitative
141	MECHANICAL-METALLOGRAPHY TEST	Welds & welded test specimens	Fillet weld testing	ISO 5817: 2014	Qualitative



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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
142	MECHANICAL- METALLOGRAPHY TEST	Welds & welded test specimens	Resistance Spot welding	AWS D17.2 & D17.2M: 2013	Qualitative
143	MECHANICAL- METALLOGRAPHY TEST	Welds & welded test specimens	Weld macro, Weld penetration, Fusion & H.A.Z. (Tensile strength, Bend tests, Macro structure)	IS 7318 (Part 1 & 2): 1974	Qualitative