



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name SRI RAGHAVENDRA MATERIAL TESTING SERVICES, # R-32, KSSIDC INDUSTRIAL ESTATE, 2ND STAGE, JIGANI LINK ROAD, BOMMASANDRA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5482 Page No. : 1 / 18

Validity 24/04/2019 to 23/04/2021 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 Articles	Neutral Salt spray Test	ASTM b117-18 IS 9844- 1981(RA 2015): 2016	Qualitative(VISUAL)
2	CHEMICAL- METALS & ALLOYS	Aluminium	Iron	ASTM E 1251 : 2011	0.2 % to 1.3 %
3	CHEMICAL- METALS & ALLOYS	Aluminium	Zinc	ASTM E 1251 : 2011	0.57 % to 7.80 %
4	CHEMICAL- METALS & ALLOYS	Aluminium & it Alloys	Nickel	ASTM E 1251 : 2011	0.003 % to 1.00 %
5	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Chromium	ASTM E 1251 : 2011	0.030 % to 0.37 %
6	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Cobalt	ASTM E 1251 : 2011	0.008 % to 0.560 %
7	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Copper	ASTM E 1251 : 2011	0.010 % to 4.60 %
8	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Lead	ASTM E 1251 : 2011	0.013 % to 0.31 %
9	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Magnesium	ASTM E 1251 : 2011	0.02 % to 4.80 %
10	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Manganese	ASTM E 1251 : 2011	0.040 % to 0.50 %
11	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Silicon	ASTM E 1251 : 2011	0.15 % to 12 %
12	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Tin	ASTM E 1251 : 2011	0.005 % to 0.24 %
13	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Vanadium	ASTM E 1251 : 2011	0.007 % to 0.440 %



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14	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Titanium	ASTM E 1251 : 2011	0.025 % to 0.20 %
15	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	Lead	IS 8811-1998(RA 2012)/ JIS G 1253 2002: 2013	0.010 % to 0.20 %
16	CHEMICAL- METALS & ALLOYS	carbon & low alloy steel	Tungsten	IS 8811-1998(RA 2012)/ JIS G 1253 2002: 2013	0.0003 % to 0.001 %
17	CHEMICAL- METALS & ALLOYS	CARBON & ALLOY STEEL	Manganese	IS 8811-1998(RA 2012)/ JIS G 1253 2002: 2013	0.20 % to 1.70 %
18	CHEMICAL- METALS & ALLOYS	CARBON & ALLOY STEEL	NIOBIUM	IS 8811-1998(RA 2012)/ JIS G 1253 2002: 2013	0.001 % to 0.003 %
19	CHEMICAL- METALS & ALLOYS	CARBON & ALLOY STEEL	Silicon	IS 8811-1998(RA 2012)/ JIS G 1253 2002: 2013	0.10 % to 1.70 %
20	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	Chromium	IS 8811-1998(RA 2012)/ JIS G 1253 2002: 2013	0.050 % to 3.03 %
21	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	Aluminium	IS 8811-1998(RA 2012)/ JIS G 1253 2002: 2013	0.002 % to 0.40 %
22	CHEMICAL- METALS & ALLOYS	Carbon & low Alloy steel	Arsenic	IS 8811 1998 (RA 2012) /JIS G 1253 :2002(RA 2013): 2013	0.003 % to 0.005 %
23	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy steel	Boron	IS 8811-1998(RA 2012)/ JIS G 1253 2002: 2013	0.0003 % to 0.001 %



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24	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	Carbon	IS 8811 1998 (RA 2012) / JIS G 1253: 2013	0.045 % to 1.30 %
25	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	Copper	IS 8811-1998(RA 2012)/ JIS G 1253 2002: 2013	0.020 % to 0.70 %
26	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	Molybdenum	IS 8811-1998(RA 2012)/ JIS G 1253 2002: 2013	0.010 % to 3.03 %
27	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	Nickel	IS 8811-1998(RA 2012)/ JIS G 1253 2002: 2013	0.010 % to 4.10 %
28	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	Phosphorous	IS 8811-1998(RA 2012)/ JIS G 1253 2002: 2013	0.005 % to 0.090 %
29	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	Sulphur	IS 8811-1998(RA 2012)/ JIS G 1253 2002: 2013	0.005 % to 0.32 %
30	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	Tin	IS 8811-1998(RA 2012)/ JIS G 1253 2002: 2013	0.003 % to 0.02 %
31	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	Titanium	IS 8811-1998(RA 2012)/ JIS G 1253 2002: 2013	0.003 % to 0.009 %
32	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	Vanadium	IS 8811-1998(RA 2012)/ JIS G 1253 2002: 2013	0.010 % to 0.50 %
33	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steels	Cobalt	IS 8811 1998(RA 2012)/ JIS G 1253 2002 (RA 2013): 2013	0.002 % to 0.100 %



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34	CHEMICAL- METALS & ALLOYS	Cast Iron	Aluminium	IS 15338-2003(RA 2008): 2008	0.004 % to 0.030 %
35	CHEMICAL- METALS & ALLOYS	Cast Iron	Arsenic	IS 15338-2003(RA 2008): 2008	0.027 % to 0.044 %
36	CHEMICAL- METALS & ALLOYS	Cast Iron	carbon	is 15338 2003(RA 2008): 2008	1.90 % to 3.75 %
37	CHEMICAL- METALS & ALLOYS	Cast Iron	chromium	IS 15338-2003(RA 2008): 2008	0.020 % to 0.97 %
38	CHEMICAL- METALS & ALLOYS	Cast Iron	Cobalt	IS 15338-2003(RA 2008): 2008	0.010 % to 0.050 %
39	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	IS 15338-2003(RA 2008): 2008	0.010 % to 0.75 %
40	CHEMICAL- METALS & ALLOYS	Cast Iron	Magnesium	IS 15338-2003(RA 2008): 2008	0.01 % to 0.020 %
41	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	IS 15338-2003(RA 2008): 2008	0.1 % to 2.00 %
42	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	IS 15338-2003(RA 2008): 2008	0.005 % to 0.061 %
43	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	IS 15338-2003(RA 2008): 2008	0.100 % to 0.450 %
44	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorous	IS 15338-2003(RA 2008): 2008	0.010 % to 0.33 %
45	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	IS 15338-2003(RA 2008): 2008	0.47 % to 2.63 %
46	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	IS 15338-2003(RA 2008): 2008	0.006 % to 0.081 %
47	CHEMICAL- METALS & ALLOYS	Cast Iron	Tin	IS 15338-2003(RA 2008): 2008	0.005 % to 0.019 %



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48	CHEMICAL- METALS & ALLOYS	Cast iron	Titanium	IS 15338-2003(RA 2008): 2008	0.001 % to 0.020 %
49	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium	IS 15338-2003(RA 2008): 2008	0.020 % to 0.50 %
50	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Aluminium	BS EN 15079 : 2015	0.007 % to 8.80 %
51	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Arsenic	BS EN 15079 : 2015	0.0001 % to 0.25 %
52	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Chromium	BS EN 15079 : 2015	0.001 % to 0.040 %
53	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Iron	BS EN 15079 : 2015	0.005 % to 4.50 %
54	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Lead	BS EN 15079: 2015	0.005 % to 12 %
55	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Manganese	BS EN 15079 : 2015	0.004 % to 5.20 %
56	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Nickel	BS EN 15079 : 2015	0.010 % to 3.20 %
57	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Phosphorous	BS EN 15079 : 2015	0.001 % to 0.70 %
58	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Silicon	BS EN 15079 : 2015	0.006 % to 0.90 %
59	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Sulphur	BS EN 15079 : 2015	0.001 % to 0.16 %
60	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Tin	BS EN 15079: 2015	0.05 % to 11 %
61	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Zinc	BS EN 15079 : 2015	0.006 % to 38.0 %



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62	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Aluminium	ASTM E 3047: 2016	0.040 % to 1.65 %
63	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Carbon	ASTM E 3047: 2016	0.010 % to 0.15 %
64	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Chromium	ASTM E 3047: 2016	17.48 % to 20.50 %
65	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Cobalt	ASTM E 3047: 2016	0.01 % to 20 %
66	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Copper	ASTM E 3047: 2016	0.025 % to 0.25 %
67	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Iron	ASTM E 3047: 2016	0.19 % to 18.80 %
68	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Manganese	ASTM E 3047: 2016	0.020 % to 0.70 %
69	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Molybdenum	ASTM E 3047: 2016	0.010 % to 18.00 %
70	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Niobium	ASTM E 3047: 2016	2.10 % to 5.14 %
71	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Phosphorous	ASTM E 3047: 2016	0.006 % to 0.11 %
72	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Silicon	ASTM E 3047: 2016	0.096 % to 1.21 %
73	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Sulphur	ASTM E 3047: 2016	0.002 % to 0.01 %
74	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Titanium	ASTM E 3047: 2016	0.087 % to 2.63 %
75	CHEMICAL- METALS & ALLOYS	Nickel & its Alloys	Tungsten	ASTM E 3047: 2016	0.038 % to 4.42 %



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76	CHEMICAL- METALS & ALLOYS	Stainless steel	Silicon	IS 9879-1998(RA 2015)/ JIS G 1253 2002 (RA 2013): 2013	0.20 % to 1.22 %
77	CHEMICAL- METALS & ALLOYS	Stainless Steel	Aluminium	IS 9879 1998(RA 2015)/ JIS G 1253 2002 (RA 2013): 2013	0.003 % to 0.50 %
78	CHEMICAL- METALS & ALLOYS	Stainless steel	Boron	IS 9879 1998(RA 2015)/ JIS G 1253 2002 (RA 2013): 2013	0.0005 % to 0.0030 %
79	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 9879 / JIS G 1253: 2013	0.015 % to 1.53 %
80	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 9879 1998(RA 2015)/ JIS G 1253 2002 (RA 2013): 2013	11.40 % to 25.0 %
81	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cobalt	IS 9879 1998(RA 2015)/ JIS G 1253 2002 (RA 2013): 2013	0.020 % to 1.0 %
82	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	IS 9879 1998(RA 2015)/ JIS G 1253 2002 (RA 2013): 2013	0.003 % to 3.95 %
83	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 9879-1998(RA 2015) / JIS G 1253: 2013	0.38 % to 10.0 %
84	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS 9879 1998(RA 2105) JIS G 1253 (RA 2013): 2015	0.070 % to 2.10 %
85	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 9879 1998(RA 2015)/ JIS G 1253 2002 (RA 2013): 2013	0.1 % to 35.0 %



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86	CHEMICAL- METALS & ALLOYS	Stainless Steel	Niobium	IS 9879 1998(RA 2015)/ JIS G 1253 2002 (RA 2013): 2013	0.004 % to 0.60 %
87	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	IS 9879 / JIS G 1253: 2013	0.010 % to 0.050 %
88	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	IS 9879 / JIS G 1253: 2015	0.001 % to 0.030 %
89	CHEMICAL- METALS & ALLOYS	Stainless Steel	Titanium	IS 9879 1998(RA 2015)/ JIS G 1253 2002 (RA 2013): 2013	0.003 % to 0.50 %
90	CHEMICAL- METALS & ALLOYS	Stainless steel	Tungsten	IS 9879 1998(RA 2015)/ JIS G 1253 2002 (RA 2013): 2013	0.010 % to 0.075 %
91	CHEMICAL- METALS & ALLOYS	Stainless Steel	Vanadium	IS 9879 1998(RA 2015)/ JIS G 1253 2002 (RA 2013): 2013	0.040 % to 0.90 %
92	CHEMICAL- METALS & ALLOYS	Tool Steel	Carbon	JIS. G 1253 - 2002 RA: 2013	0.6 % to 1.00 %
93	CHEMICAL- METALS & ALLOYS	Tool Steel	Chromium	JIS G 1253-2002RA: 2013	2.90 % to 4.50 %
94	CHEMICAL- METALS & ALLOYS	Tool Steel	cobalt	JIS G 1253-2001RA: 2013	0.080 % to 8.00 %
95	CHEMICAL- METALS & ALLOYS	Tool Steel	Manganese	JIS G 1253 -2002 RA: 2013	0.20 % to 0.40 %
96	CHEMICAL- METALS & ALLOYS	Tool Steel	Molybdenum	JIS G 1253 -2002 RA: 2013	0.18 % to 9.41 %
97	CHEMICAL- METALS & ALLOYS	Tool steel	Phosphorous	JIS G 1253 -2002RA: 2013	0.020 % to 0.040 %



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98	CHEMICAL- METALS & ALLOYS	Tool Steel	Silicon	SRMTS/SOP/02 (R1, Issue1,02.07.2014: 2014	0.15 % to 0.30 %
99	CHEMICAL- METALS & ALLOYS	Tool Steel	Sulphur	JIS G 1253-2002RA: 2013	0.020 % to 0.050 %
100	CHEMICAL- METALS & ALLOYS	Tool Steel	Tungsten	JIS. G 1253-2002 RA: 2013	1.80 % to 17.80 %
101	CHEMICAL- METALS & ALLOYS	tool steel	vanadium	JIS G 1253 -2002 RA: 2013	0.22 % to 1.80 %
102	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Aluminium	SRMTS/SOP/03 (R0 ssue1 02.07.2014): 2014	0.005 % to 8.05 %
103	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Cadmium	SRMTS/SOP/03 (R0 ssue1 02.07.2014): 2014	0.001 % to 0.010 %
104	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Chromium	SRMTS/SOP/03 (R0 ssue1 02.07.2014): 2014	0.0007 % to 0.005 %
105	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Copper	SRMTS/SOP/03 (R0 ssue1 02.07.2014): 2014	0.001 % to 6.05 %
106	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Iron	SRMTS/SOP/03 (R0 ssue1 02.07.2014): 2014	0.001 % to 0.030 %
107	CHEMICAL- METALS & ALLOYS	Zinc & Its Alloys	Lead	SRMTS/SOP/04 (R0 ssue1 02.07.2014): 2014	0.004 % to 0.12 %
108	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Magnesium	SRMTS/SOP/03 (R0 ssue1 02.07.2014): 2014	0.005 % to 0.88 %



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109	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Manganese	SRMTS/SOP/03 (R0 ssue1 02.07.2014): 2014	0.001 % to 0.015 %
110	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Nickel	SRMTS/SOP/03 (R0 ssue1 02.07.2014): 2014	0.001 % to 0.26 %
111	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Tin	SRMTS/SOP/03 (R0 ssue1 02.07.2014): 2014	0.001 % to 0.005 %
112	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Titanium	SRMTS/SOP/03 (R0 ssue1 02.07.2014): 2014	0.001 % to 0.0014 %
113	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metals & Alloys	Hardness- HBW(2.5/187.5)	ASTM E10-15a: 2015	50 HBW to 450 HBW
114	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Material , Alloys & Products	Tensile test (0.2 % offset Yeild)	ASTM E8-16a, ASTM A370-17, IS:1608-2005(RA 2011): 2017	0.6 kN to 600 kN
115	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials , Alloys & products	Tensile Test(Elongation)	ASTM E8-16a ASTM A370-17 IS 1608 2005(RA 2011): 2017	0 % to 80 %
116	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials Alloys & products	BEND TEST(Sheets & Plates)	ASTM E8-16A ASTM A370-17 IS 1608-2005: 2017	Qualitative(0-4T, Mandrel size: 12mm, 16mm, 32mm, 40mm, 48mm)



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117	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials Alloys & products	TENSILE TEST (TENSILE STRENGTH)	ASTM E8-16A, ASTM A370-17 IS 1608- 2005 RA 2011: 2017	0.6 kN to 600 kN
118	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Materials Alloys & Products	Tensile Test (Yield Strength)	ASTM E8-16a, ASTM A370-17, IS:1608- 2005(RA 2011): 2017	0.6 kN to 600 kN
119	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials Alloys & products	Tensile Test(Reduction Area)	ASTM E8-16a ASTM A370-17 IS 1608 2005(RA 2011): 2017	0 % to 80 %
120	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metal & Alloys	HARDNESS -HRA	ASTM E18: 2019	30 HRA to 95 HRA
121	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metals & Alloys	Hardness HV, HV5	ASTM E92: 2016	20 HV to 1500 HV
122	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metals & Alloys	Hardness -HV ,HV20	ASTM E92: 2016	20 HV to 1500 HV
123	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metals & Alloys	Hardness HV, H10	ASTM E92: 2016	20 HV to 1500 HV



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124	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metals & Alloys	Hardness HV, HV30	ASTM E 92: 2016	20 HV to 1500 HV
125	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metals & Alloys	Hardness -mHV HV0.2	ASTM E384: 2016	20 HV to 1500 HV
126	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metals & Alloys	HARDNESS -mHV HV1	ASTM E384: 2017	20 HV to 1500 HV
127	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metals & Alloys	Hardness mHV, HV 0.5	ASTM E 384: 2016	20 HV to 1500 HV
128	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metals & Alloys	HARDNESS-HBW ,HBW (10/3000)	ASTM E10-15a: 2015	50 HBW to 450 HBW
129	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metals & Alloys	Hardness-HBW HBW(5/750)	ASTM E10-15a: 2015	50 HBW to 450 HBW
130	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metals & Alloys	HARDNESS-HRBW	ASTM E18: 2016	30 HRBW to 99 HRBW



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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
131	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metals & Alloys	Hardness-HRC	ASTM E18: 2017	10 HRC to 75 HRC
132	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metals & Alloys	Hardness-mHV, HV 0.3	ASTM E 384: 2016	20 HV to 1500 HV
133	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metals & Alloys	Hardness-mHV, HV0.1	ASTM E384: 2016	20 HV to 1500 HV
134	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metals & Alloys	Hardness-mHV. HV0.05	ASTM E 384: 2016	20 HV to 1500 hv
135	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metals & alloys	IMPACT TEST -IZOD	IS 1598 1977 RA: 2015	2 J to 170 J
136	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metals & Alloys	IMPACT TEST- CHARPY(U Notch) (TEMP:AMBIENT TO - 60 DEGC)	IS 1499 -1977 RA(2015): 2015	2 J to 300 J
137	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metals & alloys	IMPACT TEST- CHARPY(V NOTCH)(TEMP:AMBIENT To - 60 deg c)	IS 1751 (Pt1): 2014	2 J to 300 J



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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
138	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous Metals Alloys & Products	Bend Test	ASTM E290 ASTM E 190: 2014	Qualitative(Mandrel Size : 12mm, 16mm, 32mm, 40mm, 48mm , 0- 4T)
139	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non -Ferrous metals Alloys & products	Tensile Test(Tensile strength)	ASTM E8-16a ASTM A370-17 IS 1608 2005(RA 2011): 2011	0.6 kN to 600 kN
140	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metal Alloys & Products	Tensile Test(Yield Strength)	ASTM E8-16a ASTM A370-17 IS 1608 2005(RA 2011): 2011	0.6 kN to 600 kN
141	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals Alloy & Products	Tensile Test (0.2% off yield)	ASTM E8-16a, ASTM A370-17, IS:1608- 2005(RA 2011): 2017	0.6 kN to 600 kN
142	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals Alloys & Products	Tensile Test(Reduction of Area)	ASTM E8-16a ASTM A370-17 IS 1608 2005(RA 2011): 2011	0.6 kN to 600 kN
143	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals, alloys & products	Tensile Test(Elongation)	ASTM E8-16a ASTM A370-17 IS 1608 2005(RA 2011): 2011	0.6 kN to 600 kN
144	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Weld in Metals	Tensile	ASME Sec IX 2017, AWS D 17.1 2010 ,EN 895, ISO 4136-2001: 2017	0.6 kN to 600 kN



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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
145	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Weld in Metals	Bend Test	ASME SEC IX, AWS D 17.1, EN 910, ASTM E 190-14, ISO 5173-2009: 2017	Qualitative(Mandrel Size: 12mm, 16mm, 32mm,40mm, 48mm)
146	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Weld in Metals	Fracture Test	ASME Sec IX,AWS D 17.1 IS 3600-Pt8-1985(RA 2003, ISO 9017-01: 2017	Qualitative
147	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Weld in Metals	Hardness Test on Arc Welded Joints	EN 1043-1: 1996	Qualitative
148	MECHANICAL- MECHANICAL PROPERTIES OF METALS	welds & Welded Test Specimen	Bend Test	ASTM E290 ASTM E 190: 2014	Qualitative(Mandrel Size: 12mm, 16mm,32mm,40mm,48 mm0-4T)
149	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test Specimen	Shear Testing	EN ISO 14273-2016, ASTM A 370-17: 2016	0 kN to 50 kN
150	MECHANICAL- METALLOGRAPHY TEST	Aluminium Metal & Alloys	Microstructure	ASM Metals Hand Book Vol9, ASTM E3-11 ASTM E407-7e1(RA 2015) IS 7739 (pt 1 to 9) 1976 (RA 2007): 2007	Qualitative(Magnifications : 50 X,100 X,200 X, 500 X,1000X)
151	MECHANICAL- METALLOGRAPHY TEST	Cast Iron	Graphite Flake type & size Nodularity	IS 7754 1975 (Ra 2013): 2013	Qualitative(Magnifications : 50 X,100 X,200 X, 500 X,1000X)



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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
152	MECHANICAL-METALLOGRAPHY TEST	Copper Metal & alloys	Microstructure	ASM Metals Hand Book Vol9, ASTM E3-11 ASTM E407-7e1(RA 2015) IS 7739 (pt 1 to 9) 1976 (RA 2007): 2007	Qualitative(Magnifications : 50 X,100 X,200 X, 500 X,1000X)
153	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials , alloy & Products	Case Depth(by Hardness Traverse method)	IS 6416-1988 (RA 2012): 2012	Qualitative(0.05mm to 10mm/0.1 mm (HV 0.1 to HV1))
154	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials , Alloys & products	Grain size	ASTM E 112-13 IS 4748 2009: 2009	Qualitative(0 to 10/100X)
155	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, Alloys &nproducts	Case Depth(by microscopic Method)	IS 6416-1988(RA 2012): 2012	0 mm to 10 mm
156	MECHANICAL-METALLOGRAPHY TEST	Ferrouss Material Alloys & products	Macroetch	ASTM E 381-01(RA2012) IS12573 2010: 2012	Qualitative(Visual 6.2 to 50 X)
157	MECHANICAL-METALLOGRAPHY TEST	Galvanised Articles	Zinc Coating mass by stripping	IS 6745 -1972 (RA 2016): 2016	Qualitative(1 gsm to 300 gsm)
158	MECHANICAL-METALLOGRAPHY TEST	Metals & Alloys	Coating Thickness	ASTM B487-85(RA 2013) is 3203-1982(RA 2014): 2014	Qualitative(1 micron 200 micron)
159	MECHANICAL-METALLOGRAPHY TEST	Metals & Alloys	Grain Size	ASTME 1382-97(RA 2015): 2015	0 to 15
160	MECHANICAL-METALLOGRAPHY TEST	Metals & Alloys	Volume Fraction	ASTM E 562: 2011	0 % to 100 %



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161	MECHANICAL-METALLOGRAPHY TEST	Stainless steel	IGC Practice E	ASTM A 262: 2015	Qualitative
162	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	IGC Practice F	ASTM A 262: 2015	Qualitative(0.5 mpy to 150 mpy)
163	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	IGC Test ,Practice C	ASTM A262: 2015	Qualitative(0.5 mpy to 150 mpy)
164	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	IGC Test Practice :B	ASTM A 262: 2015	Qualitative(0.5 mpy to 150 mpy)
165	MECHANICAL-METALLOGRAPHY TEST	Steel	Microstructure	ASM Metals Hand Book Vol9, ASTM E3-11 ASTM E407-7e1(RA 2015) IS 7739 (pt 1 to 9) 1976 (RA 2007): 2011	Qualitative(Magnifications : 50 X,100 X,200 X, 500 X,1000X)
166	MECHANICAL-METALLOGRAPHY TEST	Steel(Plain Carbon & Alloy Steel)	Inclusion Rating	IS 4163-2004(RA 2010) ASTM E45: 2018	Qualitative((Magn: 100X)Type A:(Thin/Thick): 0 to 3Type B:(Thin/Thick): 0 to 3Type C:(Thin/Thick): 0 to 3Type D:(Thin/Thick): 0 to 3Type DS:(Thin/Thick): 0 to 3)
167	MECHANICAL-METALLOGRAPHY TEST	Steels	Decarb Depth	ASTM E1077-14 IS 6396 2000(RA 2012): 2012	0.01 mm to 1 mm



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168	MECHANICAL-METALLOGRAPHY TEST	Steels	Decarb Depth	IS 6396 :2000(RA 2012) ASTM E 1077: 2014	Qualitative(0.01 mm to 1 mm/0.01 mm(100 X))
169	MECHANICAL-METALLOGRAPHY TEST	Weld & welded test specimen	Microstructure	ASM Metals Hand Book Vol9, ASTM E3-11 ASTM E407-7e1(RA 2015) IS 7739 (pt 1 to 9) 1976 (RA 2007): 2011	Qualitative(Magnifications:50X, 100 X, 200X , 500 X, 1000 X)
170	MECHANICAL-METALLOGRAPHY TEST	Weld in Metals	Hardness Test on Arc Welded Joints	EN 1043-1: 1997	Qualitative
171	MECHANICAL-METALLOGRAPHY TEST	Weld in Metals	Macroscopic & Microscopic Examination	ASME sec IX-2017, EN 1321-1997, IS 3600-p9-1985 (Ra 2003): 2017	Qualitative
172	MECHANICAL-METALLOGRAPHY TEST	Weld in Metals	Micro Hardness Test of welded Joints	EN 1043-2: 1997	Qualitative
173	MECHANICAL-METALLOGRAPHY TEST	Welds & welded Test Specimens	Macro Etch	ASTM E340-15: 2015	Qualitative(Visual 6.2 X to 50 X)