



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name KRISHNA METALLURGICAL LABORATORIES PVT LTD, PLOT NO 353, SEC 37, PHASE VI, GURGAON, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-8028 Page No. : 1 / 20

Validity 20/10/2018 to 19/10/2020 Last Amended on 23/10/2018

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- METALLIC COATINGS & TREATMENT SOLUTIONS	Metallic Coating & Treatment Solution	Corrosion Test Salt Spray Test(Natural Salt Spray Test	ASTM B 117: 2016	Qualitative
2	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Metallic Coating & Treatment Solution	Corrosion Test Salt Spray Test(Natural Salt Spray Test	JIS Z 2371 : 1994	Qualitative
3	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Metallic Coating & Treatment Solution	Mass of Zinc Coating	IS 6745(RA 2011): 1972	5.0 g/m ² to 1500 g/m ²
4	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Aluminium	ASTM E 415,SOP KML-QM-18 (By Optical Emission Spectrometer), 2017 Issue No 01, Issue date 23.08.2016:: 2016	0.001 % to 0.40 %
5	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Aluminium	KML/SOP/18(By optical Emission Spectrometer) Issue No 01, Issue date 23.08.2016: 2016	0.001 % to 0.40 %
6	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Aluminium	ASTM E 1086-2014(By optical Emission Spectrometer): 2014	0.001 % to 0.40 %
7	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Aluminium	ASTM E 1999(By Optical Emission Spectrometer): 2018	0.001 % to 0.40 %



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8	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Antimony	ASTM E 1251 (By Optical Emission Spectrometer): 2017	0.007 % to 0.15 %
9	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Arsenic	ASTM E 415,SOP KML-QM-18 (By Optical Emission Spectrometer), 2017 Issue No 01, Issue date 23.08.2016:: 2016	0.004 % to 0.055 %
10	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Arsenic	KML/SOP/18(By optical Emission Spectrometer) Issue No 01, Issue date 23.08.2016: 2016	0.004 % to 0.055 %
11	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Arsenic	ASTM E 1086-2014(By optical Emission Spectrometer): 2014	0.004 % to 0.27 %
12	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Beryllium	ASTM E 1251 (By Optical Emission Spectrometer): 2017	0.0004 % to 0.010 %
13	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Boron	ASTM E 415,SOP KML-QM-18 (By Optical Emission Spectrometer),2017, Issue No 01, Issue date 23.08.2016: 2016	0.0004 % to 0.025 %
14	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Boron	ASTM E 1086-2014(By optical Emission Spectrometer): 2014	0.0004 % to 0.025 %



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15	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Boron	ASTM E 1999(By Optical Emission Spectrometer): 2018	0.0004 % to 0.025 %
16	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Cadmium	ASTM E 1251 (By Optical Emission Spectrometer): 2017	0.0009 % to 0.010 %
17	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Cadmium	IEC 62321: 2008	10 mg/kg to 300000 mg/kg
18	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Carbon	ASTM E 415,SOP KML-QM-18 (By Optical Emission Spectrometer), 2017 Issue No 01, Issue date 23.08.2016:: 2016	0.01 % to 2.20 %
19	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Carbon	KML/SOP/18(By optical Emission Spectrometer) Issue No 01, Issue date 23.08.2016: 2016	0.01 % to 2.20 %
20	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Carbon	ASTM E 1086-2014(By Optical Emission Spectrometer): 2014	0.01 % to 0.25 %
21	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Carbon	ASTM E 1999(By optical Emission Spectrometer): 2018	1.90 % to 4.10 %
22	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Chromium	ASTM E 415,SOP KML-QM-18 (By Optical Emission Spectrometer) Issue No 01, Issue date 23.08.2016:: 2016	0.045 % to 10.0 %



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23	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Chromium	KML/SOP/18(By optical Emission Spectrometer) Issue No 01, Issue date 23.08.2016: 2016	0.045 % to 13.0 %
24	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Chromium	ASTM E 1086-2014(By Optical Emission Spectrometer): 2014	0.045 % to 21.0 %
25	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Chromium	ASTM E 1999(By Optical Emission Spectrometer): 2018	0.045 % to 2.0 %
26	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Chromium	ASTM E 1251 (By Optical Emission Spectrometer): 2017	0.03 % to 0.40 %
27	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Chromium	IEC 62321 : 2008	1.0 mg/kg to 2000 mg/kg
28	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Cobalt	ASTM E 415,SOP KML-QM-18 (By Optical Emission Spectrometer), 2017 Issue No 01, Issue date 23.08.2016:: 2016	0.001 % to 2.60 %
29	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Cobalt	KML/SOP/18(By optical Emission Spectrometer) Issue No 01, Issue date 23.08.2016: 2016	0.001 % to 4.60 %
30	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Cobalt	ASTM E 1086-2014(By optical Emission Spectrometer): 2014	0.001 % to 0.50 %



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31	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Cobalt	ASTM E 1251 (By Optical Emission Spectrometer): 2017	0.015 % to 0.12 %
32	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Copper	ASTM E 415,SOP KML-QM-18 (By Optical Emission Spectrometer), 2017 Issue No 01, Issue date 23.08.2016: 2016	0.01 % to 0.52 %
33	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Copper	KML/SOP/18(By optical Emission Spectrometer) Issue No 01, Issue date 23.08.2016: 2016	0.01 % to 0.52 %
34	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Copper	ASTM E 1086-2014(By optical Emission Spectrometer): 2014	0.01 % to 0.52 %
35	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Copper	ASTM E 1999(By Optical Emission Spectrometer): 2018	0.01 % to 0.52 %
36	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Copper	ASTM E 1251 (By Optical Emission Spectrometer): 2017	0.07 % to 5.50 %
37	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Iron	ASTM E 1251 (By Optical Emission Spectrometer): 2017	0.25 % to 1.05 %



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38	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Lead	ASTM E 415,SOP KML-QM-18 (By Optical Emission Spectrometer), 2017 Issue No 01, Issue date 23.08.2016: 2016	0.0001 % to 0.21 %
39	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Lead	KML/SOP/18(By optical Emission Spectrometer) Issue No 01, Issue date 23.08.2016: 2016	0.0001 % to 0.21 %
40	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Lead	ASTM E 1086-2014(By optical Emission Spectrometer): 2014	0.004 % to 0.055 %
41	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Lead	ASTM E 1999(By Optical Emission Spectrometer): 2018	0.0001 % to 0.21 %
42	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Lead	ASTM E 1251 (By Optical Emission Spectrometer): 2017	0.05 % to 0.30 %
43	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Lead	IEC 62321 : 2008	10 mg/kg to 300000 mg/kg
44	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Magnesium	ASTM E 1251 (By Optical Emission Spectrometer): 2017	0.09 % to 4.60 %
45	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Manganese	ASTM E 415,SOP KML-QM-18 (By Optical Emission Spectrometer), 2017 Issue No 01, Issue date 23.08.2016:: 2016	0.10 % to 2.00 %



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46	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Manganese	KML/SOP/18(By optical Emission Spectrometer) Issue No 01, Issue date 23.08.2016: 2016	0.10 % to 2.00 %
47	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Manganese	ASTM E 1086-2014(By Optical Emission Spectrometer): 2014	0.10 % to 12.20 %
48	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Manganese	ASTM E 1999(By Optical Emission Spectrometer): 2018	0.10 % to 1.80 %
49	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Manganese	ASTM E 1251 (By Optical Emission Spectrometer): 2017	0.15 % to 0.90 %
50	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Mercury	IEC 62321 : 2008	4.0 mg/kg to 1000 mg/kg
51	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Molybdenum	ASTM E 415,SOP KML-QM-18 (By Optical Emission Spectrometer),2017 Issue No 01, Issue date 23.08.2016: 2016	0.005 % to 1.15 %
52	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Molybdenum	KML/SOP/18(By optical Emission Spectrometer) Issue No 01, Issue date 23.08.2016: 2016	0.005 % to 1.15 %
53	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Molybdenum	ASTM E 1086-2014(By Optical Emission Spectrometer): 2014	0.005 % to 1.15 %



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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
54	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Molybdenum	ASTM E 1999(By Optical Emission Spectrometer): 2018	0.005 % to 1.15 %
55	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Neobium	ASTM E 415,SOP KML-QM-18 (By Optical Emission Spectrometer), 2017 Issue No 01, Issue date 23.08.2016:: 2016	0.001 % to 0.050 %
56	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Neobium	KML/SOP/18(By optical Emission Spectrometer) Issue No 01, Issue date 23.08.2016: 2016	0.001 % to 0.050 %
57	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Neobium	ASTM E 1086-2014(By optical Emission Spectrometer): 2014	0.001 % to 0.050 %
58	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Nickel	ASTM E 415,SOP KML-QM-18 (By Optical Emission Spectrometer), 2017 Issue No 01, Issue date 23.08.2016:: 2016	0.01 % to 5.0 %
59	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Nickel	KML/SOP/18(By optical Emission Spectrometer) Issue No 01, Issue date 23.08.2016: 2016	0.01 % to 5.0 %
60	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Nickel	ASTM E 1086-2014(By Optical Emission Spectrometer): 2014	0.01 % to 9.6 %



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61	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Nickel	ASTM E 1999(By Optical Emission Spectrometer): 2018	0.01 % to 2.0 %
62	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Nickel	ASTM E 1251 (By Optical Emission Spectrometer): 2017	0.075 % to 1.70 %
63	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Nitrogen	ASTM E 415,SOP KML-QM-18 (By Optical Emission Spectrometer), 2017 Issue No 01, Issue date 23.08.2016:: 2016	0.004 % to 0.025 %
64	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Phosphorus	ASTM E 415,SOP KML-QM-18 (By Optical Emission Spectrometer), 2017 Issue No 01, Issue date 23.08.2016:: 2016	0.005 % to 0.15 %
65	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Phosphorus	KML/SOP/18(By optical Emission Spectrometer) Issue No 01, Issue date 23.08.2016: 2016	0.005 % to 0.15 %
66	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Phosphorus	ASTM E 1086-2014(By Optical Emission Spectrometer): 2014	0.005 % to 0.50 %
67	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Phosphorus	ASTM E 1999(By Optical Emission Spectrometer): 2018	0.005 % to 1.0 %



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68	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Silicon	ASTM E 415,SOP KML-QM-18 (By Optical Emission Spectrometer), 2017 Issue No 01, Issue date 23.08.2016:: 2016	0.003 % to 2.00 %
69	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Silicon	KML/SOP/18(By optical Emission Spectrometer) Issue No 01, Issue date 23.08.2016: 2016	0.003 % to 2.00 %
70	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Silicon	ASTM E 1086-2014(By Optical Emission Spectrometer): 2014	0.003 % to 2.20 %
71	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Silicon	ASTM E 1999(By Optical Emission Spectrometer): 2018	0.003 % to 3.20 %
72	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Silicon	ASTM E 1251 (By Optical Emission Spectrometer): 2017	0.15 % to 25.00 %
73	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Sulphur	ASTM E 415,SOP KML-QM-18 (By Optical Emission Spectrometer), 2017 Issue No 01, Issue date 23.08.2016:: 2016	0.0015 % to 0.36 %
74	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Sulphur	KML/SOP/18(By optical Emission Spectrometer) Issue No 01, Issue date 23.08.2016: 2016	0.0015 % to 0.36 %



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75	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Sulphur	ASTM E 1086-2014(By Optical Emission Spectrometer): 2014	0.0015 % to 0.36 %
76	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Sulphur	ASTM E 1999(By Optical Emission Spectrometer): 2018	0.0015 % to 0.36 %
77	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Tin	ASTM E 415,SOP KML-QM-18 (By Optical Emission Spectrometer), 2017 Issue No 01, Issue date 23.08.2016:: 2016	0.002 % to 0.015 %
78	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Tin	KML/SOP/18(By optical Emission Spectrometer) Issue No 01, Issue date 23.08.2016: 2016	0.002 to 0.015 %
79	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Tin	ASTM E 1086-2014(By optical Emission Spectrometer): 2014	0.002 % to 0.015 %
80	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Tin	ASTM E 1999(By Optical Emission Spectrometer): 2018	0.002 % to 0.015 %
81	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Tin	ASTM E 1251 (By Optical Emission Spectrometer): 2017	0.035 % to 0.30 %



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82	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Titanium	ASTM E 415,SOP KML-QM-18 (By Optical Emission Spectrometer),2017 Issue No 01, Issue date 23.08.2016: 2016	0.0005 % to 0.50 %
83	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Titanium	KML/SOP/18(By optical Emission Spectrometer) Issue No 01, Issue date 23.08.2016: 2016	0.0005 % to 0.50 %
84	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Titanium	ASTM E 1086-2014(By optical Emission Spectrometer): 2014	0.0005 % to 0.10 %
85	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Titanium	ASTM E 1999(By Optical Emission Spectrometer): 2018	0.0005 % to 0.10 %
86	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Titanium	ASTM E 1251 (By Optical Emission Spectrometer): 2017	0.004 % to 0.30 %
87	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Tungsten	ASTM E 415,SOP KML-QM-18 (By Optical Emission Spectrometer), 2017 Issue No 01, Issue date 23.08.2016:: 2016	0.001 % to 2.45 %
88	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Tungsten	KML/SOP/18(By optical Emission Spectrometer) Issue No 01, Issue date 23.08.2016: 2016	0.001 % to 4.45 %



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89	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Vanadium	ASTM E 415,SOP KML-QM-18 (By Optical Emission Spectrometer),2017 Issue No 01, Issue date 23.08.2016: 2016	0.001 % to 2.30 %
90	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Vanadium	KML/SOP/18(By optical Emission Spectrometer) Issue No 01, Issue date 23.08.2016: 2016	0.001 % to 2.30 %
91	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Vanadium	ASTM E 1086-2014(By optical Emission Spectrometer): 2014	0.001 % to 2.30 %
92	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Vanadium	ASTM E 1999(By Optical Emission Spectrometer): 2018	0.001 % to 1.00 %
93	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Vanadium	ASTM E 1251 (By Optical Emission Spectrometer): 2017	0.004 % to 0.018 %
94	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Zinc	ASTM E 1251 (By Optical Emission Spectrometer): 2017	0.05 % to 2.50 %
95	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Zirconium	ASTM E 415,SOP KML-QM-18 (By Optical Emission Spectrometer), 2017 Issue No 01, Issue date 23.08.2016.: 2016	0.0008 % to 0.03 %



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96	CHEMICAL- METALS & ALLOYS	Metals & Alloys	Zirconium	ASTM E 1086-2014(By optical Emission Spectrometer): 2014	0.0008 % to 0.03 %
97	CHEMICAL- PLASTIC & RESINS	Plastic	Polymer Identification by Infrared Spectroscopy	KML/SOP NO .19/: 2016	Qualitative
98	CHEMICAL- PLASTIC & RESINS	Plastic	Polymer Identification by Infrared Spectroscopy	ASTM E 1252:98 : 2013	Qualitative
99	CHEMICAL- PLASTIC & RESINS	Plastic And Resins	Ash Content	ASTM D 5630: 2013	0.1 % to 90.0 %
100	CHEMICAL- PLASTIC & RESINS	Plastic And Resins	Ash Content	ASTM D 297: 2015	0.1 % to 90.0 %
101	CHEMICAL- PLASTIC & RESINS	Plastic And Resins	Ash Content	IS 3400(Part 22)(RA 2001): 1984	0.1 % to 90.0 %
102	CHEMICAL- PLASTIC & RESINS	Plastic And Resins	Cadmium	IEC 62321 : 2008	10 mg/kg to 300000 mg/kg
103	CHEMICAL- PLASTIC & RESINS	Plastic And Resins	ChromiumVI	IEC 62321 : 2008	1.0 mg/kg to 2000 mg/kg
104	CHEMICAL- PLASTIC & RESINS	Plastic And Resins	Lead	IEC 62321 : 2008	10 mg/kg to 300000 mg/kg
105	CHEMICAL- PLASTIC & RESINS	Plastic And Resins	Mercury	IEC 62321 : 2008	4.0 mg/kg to 1000 mg/kg
106	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber & Rubber Products	Ash Content	ASTM D 5630: 2013	0.1 % to 0.90 %
107	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber & Rubber Products	Ash Content	ASTM D 297: 2015	0.1 % to 90.0 %



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108	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber & Rubber Products	Ash Content	IS 3400(Part 22)(RA 2001): 1984	0.1 % to 90.0 %
109	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber & Rubber products	Cadmium	IEC 62321: 2008	10 mg/kg to 300000 mg/kg
110	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber & Rubber Products	Chromium VI	IEC 62321: 2008	1.0 mg/kg to 2000 mg/kg
111	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber & Rubber products	Lead	IEC 62321: 2008	10 mg/kg to 300000 mg/kg
112	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber & Rubber Products	Mercury	IEC 62321: 2008	4.0 mg/kg to 1000 mg/kg
113	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Metal Alloys	Micro Vicker Hardness test	IS 1501(Part 1,3): 2013	100 HV0.1,HV 0.2,HV0.3,HV 1.0 to 800 HV0.1,HV0.2,HV0.3,H V1.0
114	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Metals & Alloys	Vicker Hardness Test	IS 1501(Part 1,2,3): 2013	100 HV5,HV10,HV30 to 700 HV5,HV10,HV30
115	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Metals Alloys	Bend Test Mandrel Dia(12,24,30,32,36,40, 44,48,60,64,80,100,12 5,160mm	IS 1599: 2015	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
116	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Metals Alloys	Brinell Hardness Test	IS1500(Part 1,2,3): 2013	5 /750HBW(180-350) to 10 HBW10/3000(180-350)
117	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Metals Alloys	Impact Testing Charpy V Notch	IS 1757(Part 1): 2014	2 J at room temp. to 300 J at room Temp.
118	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Bend & Rebend 4.0 TO 32.0mm(12,16,18,22,3 2mm)	IS 1786 : 2013	Qualitative
119	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Drift Expansion 15 TO 50 mm Dia (1 to 8 mm)Thickness	IS 2335: 2011	Qualitative
120	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Flattening Test 15 TO 50 mm Dia (1 to 8 mm)Thickness	IS 2328: 2011	Qualitative
121	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & alloys	Hardness Test (Rockwell)	IS 1586 (PART 1,2 & 3): 2012	45 HRA45-88,HRBW 40-100,HRC 20- 70,HR15N 78- 88,HR30N 55-80,HR 30T 57-70 to 88
122	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Metals & Alloys	Weight per Meter	IS 1786: 2013	1 gm to 30.0 gm/1gm



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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
123	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metals & Alloys (Ferrous 40 mm Dia Rod,20 mm Sheet Thick	Breaking Load 1 kN To 900 kN/50N	IS 1608: 2018	Qualitative
124	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metals & Alloys (Ferrous 40 mm Dia Rod,20 mm Sheet Thick	Breaking Load 1 kN To 900 kN/50N	IS 1608: 2018	Qualitative
125	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metals & Alloys (Ferrous 40 mm Dia Rod,20 mm Sheet Thick	Breaking Load 1kN To 900 kN/50 N	IS 1608: 2018	Qualitative()
126	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metals & Alloys (Ferrous 40 mm Dia Rod,20 mm Sheet Thick	Percentage ELongation	IS 1608: 2011	0.01 to 300 mm/(1 to 80 %)/0.01mm
127	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metals & Alloys (Ferrous 40 mm Dia Rod,20 mm Sheet Thick	Percentage ELongation	IS 1608: 2018	0.01 to 300 mm/(1 to 80 %)/0.01mm
128	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metals & Alloys (Ferrous 40 mm Dia Rod,20 mm Sheet Thick	Percentage Reduction	IS 1608: 2011	0.01 to 300 mm/(1 to 80 %)/0.01mm
129	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metals & Alloys (Ferrous 40 mm Dia Rod,20 mm Sheet Thick	Percentage Reduction	IS 1608: 2011	0.01 mm(1 to 80%)/0.01mm to 300 mm



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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
130	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metals & Alloys (Ferrous 40 mm Dia Rod,20 mm Sheet Thick	Tensile Strength	IS 1608: 2011	1,4,20 kN to 90,350,900 kN,5,20,50N
131	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metals & Alloys (Ferrous 40 mm Dia Rod,20 mm Sheet Thick	Tensile Strength	IS 1608: 2018	1,4,20 to 90,350,900 kN,5,20,50N
132	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metals & Alloys (Ferrous 40 mm Dia Rod,20 mm Sheet Thick	Yield Stress	IS 1608: 2011	1,4,20 to 90,350,900 kN,5,20,50N
133	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metals & Alloys (Ferrous 40 mm Dia Rod,20 mm Sheet Thick	Yield Stress	IS 1608: 2018	1,4,20 kN to 90,350,900 kN,5,20,50N
134	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous & Metal Alloys	Brinell Hardness Test	IS 1500(Part 1,2,3): 2013	5 /750 HBW(180-350) to 10
135	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non ferrous & Metals & Alloys	Vicker Hardness Test	IS 1501(Part 1,2,3): 2013	100 HV5,HV10,HV30 to 700 HV5,HV10,HV30
136	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous & Metals Alloys	Micro Vicker HardnessTest	IS 1501(Part 1,3): 2013	100 HV0.1,HV 0.2,HV 0.3,HV 1.0 to 800 HV0.1,HV0.2,HV0.3,H V1.0



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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
137	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous Metals & alloys	Hardness Test (Rockwell)	IS 1586(Part 1,2 & 3): 2012	45 HRA45/HRB 40/ HRC 20/ HR15N 78/HR30N 55/HR30T 57 to 78 HRA 88/HRB 100/HRC 70/HR 15N 88/HR30N 80/HR 30T 70/0.1 HRA/HRB/HRC/HR15N /HR30N/HR30T
138	MECHANICAL- METALLOGRAPHY TEST	Ferrous Metals & Alloys	Case Depth by Microscopic Method	IS 6416: 2018	0.001 mm to 1.00 mm/0.001mm
139	MECHANICAL- METALLOGRAPHY TEST	Ferrous Metals & Alloys	Decarburized Layer by Microstructure Method	IS 6396: 2018	0.01 mm to 2.0 mm/0.001mm
140	MECHANICAL- METALLOGRAPHY TEST	Ferrous Metals & Alloys	Decarburized Layer by Microstructure Method	ASTM E 1077: 2014	0.01 mm to 2.0 mm/0.001mm
141	MECHANICAL- METALLOGRAPHY TEST	Ferrous Metals & Alloys	Estimation of Grain Size by Microscopic Method ASTM(1-9)at 100X	ASTM E 112: 2013	Qualitative
142	MECHANICAL- METALLOGRAPHY TEST	Ferrous Metals & Alloys	Estimation of Grain Size by Microscopic Method ASTM(1-9)at 100X	IS 4748(RA 2003): 2009	Qualitative
143	MECHANICAL- METALLOGRAPHY TEST	Ferrous Metals & Alloys	Inclusion Rating 100 X	IS 4163: 2010	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
144	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals & Alloys	Inclusion Rating 100 X	ASTM E45: 2018	Qualitative
145	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals & Alloys	Measurement of Coating Thickness By Microscopy	ASTM B487-85(Ra): 2013	0.005 mm to 0.5 mm/0.001mm
146	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals & Alloys	Microstructure Of Graphite in iron casting 100X TO 1000X	IS7754 :(RA): 2018	Qualitative
147	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals & Alloys	Microstructure Of Graphite in iron casting 100X TO 1000X	ASTM A 247: 2017	Qualitative
148	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals & Alloys	Microstructure of metallic material 100 X to 1000X	ASM METALLOGRAPH (VOLUME-9): 2001	Qualitative
149	MECHANICAL-METALLOGRAPHY TEST	Non Ferrous Metals & Alloys	Measurement of Coating Thickness By Microscopy	ASTM B487-85(Ra): 2013	0.005 mm to 0.5 mm/0.001mm
150	MECHANICAL-METALLOGRAPHY TEST	Non Ferrous Metals & Alloys	Microstructure of metallic material 100 X to 1000X	ASM METALLOGRAPH (VOLUME-9): 2001: 2001	Qualitative