



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name R.K. INSPECTION & TESTING SERVICES, C-196/2, MAYAPURI INDUSTRIAL AREA, PHASE II, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5251 Page No. : 1 / 50

Validity 21/04/2019 to 20/04/2021 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- BUILDING MATERIAL	Admixture	Ash Content	IS 9103: 2013	1 % to 30 %
2	CHEMICAL- BUILDING MATERIAL	Admixture	Dry Material Content	IS 9103: 2013	5 % to 50 %
3	CHEMICAL- BUILDING MATERIAL	Admixture	pH	IS 9103: 2013	4 to 12
4	CHEMICAL- BUILDING MATERIAL	Admixture	Relative Density	IS 9103: 2013	0.8 g/cc to 1.5 g/cc
5	CHEMICAL- BUILDING MATERIAL	Aggregates	Alkali Reactivity	IS 2386 Part 7: 1963	Qualitative
6	CHEMICAL- BUILDING MATERIAL	Aggregates	Alkali Reactivity (Dissolved Silica)	IS 2386 Part 7: 1963	1 millimoles/liter to 500 millimoles/liter
7	CHEMICAL- BUILDING MATERIAL	Aggregates	Alkali Reactivity (Reduction in alkalinity)	IS 2386 Part 7: 1963	1 millimoles/liter to 500 millimoles/liter
8	CHEMICAL- BUILDING MATERIAL	Cement	Alumina Oxide	IS 4032: 1985	0.5 % to 10 %
9	CHEMICAL- BUILDING MATERIAL	Cement	Calcium Oxide	IS 4032: 1985	20 % to 70 %
10	CHEMICAL- BUILDING MATERIAL	Cement	Chloride	IS 4032: 1985	0.0005 % to 1 %
11	CHEMICAL- BUILDING MATERIAL	Cement	Insoluble Residue	IS 4032: 1985	1 % to 35 %
12	CHEMICAL- BUILDING MATERIAL	Cement	Iron Oxide	IS 4032: 1985	0.5 % to 10 %
13	CHEMICAL- BUILDING MATERIAL	Cement	Magnesium Oxide	IS 4032: 1985	0.5 % to 5 %



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14	CHEMICAL- BUILDING MATERIAL	Cement	Silica	IS 4032 : 1985	10 % to 40 %
15	CHEMICAL- BUILDING MATERIAL	Cement	Sulphuric Anhydride	IS 4032: 1985	0.5 % to 5 %
16	CHEMICAL- BUILDING MATERIAL	Cement	Total Loss on Ignition	IS 4032: 1985	0.5 % to 10 %
17	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Galvanised items	Mass of Zinc Coating	IS 6745: 1972	20 g/m ² to 1500 g/m ²
18	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Galvanised items	Mass of Zinc Coating	IS 6745: 1972	20 g/m ² to 1500 g/m ²
19	CHEMICAL- METALS & ALLOYS	Alloy Steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Aluminium	ASTM E 415: 2017	0.005 % to 0.10 %
20	CHEMICAL- METALS & ALLOYS	Alloy Steel- Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats, Bolts	Aluminium	JIS G 1253: 2002	0.005 % to 1.50 %
21	CHEMICAL- METALS & ALLOYS	Alloy Steel- Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats, Bolts	Boron	JIS G 1253: 2002	0.0004 % to 0.003 %



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22	CHEMICAL- METALS & ALLOYS	Alloy Steel- Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats, Bolts	Carbon	JIS G 1253: 2002	0.010 % to 1.50 %
23	CHEMICAL- METALS & ALLOYS	Alloy Steel- Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats, Bolts	Chromium	JIS G 1253: 2002	0.01 % to 10.0 %
24	CHEMICAL- METALS & ALLOYS	Alloy Steel- Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats, Bolts	Cobalt	JIS G 1253: 2002	0.001 % to 0.5 %
25	CHEMICAL- METALS & ALLOYS	Alloy Steel- Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats, Bolts	Copper	JIS G 1253: 2002	0.002 % to 0.8 %
26	CHEMICAL- METALS & ALLOYS	Alloy Steel- Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats, Bolts	Lead	JIS G 1253: 2002	0.0001 % to 0.010 %
27	CHEMICAL- METALS & ALLOYS	Alloy Steel- Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats, Bolts	Manganese	JIS G 1253: 2002	0.1 % to 2.0 %



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28	CHEMICAL- METALS & ALLOYS	Alloy Steel- Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats, Bolts	Molybdenum	JIS G 1253: 2002	0.01 % to 1.50 %
29	CHEMICAL- METALS & ALLOYS	Alloy Steel- Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats, Bolts	Nickel	JIS G 1253: 2002	0.01 % to 5.0 %
30	CHEMICAL- METALS & ALLOYS	Alloy Steel- Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats, Bolts	Nitrogen	JIS G 1253: 2002	0.004 % to 0.03 %
31	CHEMICAL- METALS & ALLOYS	Alloy Steel- Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats, Bolts	Phosphorus	JIS G 1253: 2002	0.004 % to 0.13 %
32	CHEMICAL- METALS & ALLOYS	Alloy Steel- Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats, Bolts	Silicon	JIS G 1253: 2002	0.05 % to 2.0 %
33	CHEMICAL- METALS & ALLOYS	Alloy Steel- Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats, Bolts	Sulphur	JIS G 1253: 2002	0.006 % to 0.20 %



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34	CHEMICAL- METALS & ALLOYS	Alloy Steel- Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats, Bolts	Tantalum	JIS G 1253: 2002	0.020 % to 0.06 %
35	CHEMICAL- METALS & ALLOYS	Alloy Steel- Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats, Bolts	Tin	JIS G 1253: 2002	0.003 % to 0.15 %
36	CHEMICAL- METALS & ALLOYS	Alloy Steel- Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats, Bolts	Titanium	JIS G 1253: 2002	0.001 % to 0.25 %
37	CHEMICAL- METALS & ALLOYS	Alloy Steel- Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats, Bolts	Tungsten	JIS G 1253: 2002	0.01 % to 0.25 %
38	CHEMICAL- METALS & ALLOYS	Alloy Steel- Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats, Bolts	Vanadium	JIS G 1253: 2002	0.003 % to 1.0 %
39	CHEMICAL- METALS & ALLOYS	Alloy Steel- Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats, Bolts	Zirconium	JIS G 1253: 2002	0.001 % to 0.30 %



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40	CHEMICAL- METALS & ALLOYS	Alloy Steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Boron	ASTM E 415: 2017	0.0002 to 0.007
41	CHEMICAL- METALS & ALLOYS	Alloy Steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Carbon	ASTM E 415: 2017	0.010 % to 1.15 %
42	CHEMICAL- METALS & ALLOYS	Alloy Steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Chromium	ASTM E 415: 2017	0.01 % to 8.25 %
43	CHEMICAL- METALS & ALLOYS	Alloy Steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Cobalt	ASTM E 415: 2017	0.001 % to 0.20 %
44	CHEMICAL- METALS & ALLOYS	Alloy Steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Copper	ASTM E 415: 2017	0.002 % to 0.50 %



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45	CHEMICAL- METALS & ALLOYS	Alloy Steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Manganese	ASTM E 415: 2017	0.05 % to 2.0 %
46	CHEMICAL- METALS & ALLOYS	Alloy Steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Molybdenum	ASTM E 415: 2017	0.01 % to 1.30 %
47	CHEMICAL- METALS & ALLOYS	Alloy Steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Nickel	ASTM E 415: 2017	0.005 % to 5.0 %
48	CHEMICAL- METALS & ALLOYS	Alloy Steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Niobium	ASTM E 415: 2017	0.001 % to 0.120 %
49	CHEMICAL- METALS & ALLOYS	Alloy Steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Nitrogen	ASTM E 415: 2017	0.005 % to 0.015 %



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50	CHEMICAL- METALS & ALLOYS	Alloy Steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Phosphorus	ASTM E 415: 2017	0.001 % to 0.085 %
51	CHEMICAL- METALS & ALLOYS	Alloy Steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Silicon	ASTM E 415: 2017	0.01 % to 1.54 %
52	CHEMICAL- METALS & ALLOYS	Alloy Steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Sulphur	ASTM E 415: 2017	0.001 % to 0.085 %
53	CHEMICAL- METALS & ALLOYS	Alloy Steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Tin	ASTM E 415: 2017	0.004 % to 0.061 %
54	CHEMICAL- METALS & ALLOYS	Alloy Steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Titanium	ASTM E 415: 2017	0.001 % to 0.20 %



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55	CHEMICAL- METALS & ALLOYS	Alloy Steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Vanadium	ASTM E 415: 2017	0.002 % to 0.30 %
56	CHEMICAL- METALS & ALLOYS	Alloy Steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Zirconium	ASTM E 415: 2017	0.001 % to 0.220 %
57	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting, Tubes	Chromium	ASTM E 1251: 2017	0.001 % to 0.10 %
58	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting, Tubes	Copper	ASTM E 1251: 2017	0.001 % to 13.0 %
59	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting, Tubes	Iron	ASTM E 1251: 2017	0.12 % to 0.5 %
60	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting, Tubes	Lead	ASTM E 1251: 2017	0.04 % to 0.20 %



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61	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting, Tubes	Magnesium	ASTM 1251: 2017	0.03 % to 2.2 %
62	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting, Tubes	Manganese	ASTM E 1251: 2017	0.02 % to 0.5 %
63	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting, Tubes	Nickel	ASTM E 1251: 2017	0.01 % to 2.6 %
64	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting, Tubes	Silicon	ASTM E 1251: 2017	0.07 % to 16.0 %
65	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting, Tubes	Tin	ASTM E 1251: 2017	0.03 % to 0.50 %
66	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting, Tubes	Titanium	ASTM E 1251: 2017	0.001 % to 0.180 %



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67	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting, Tubes	Zinc	ASTM E 1251: 2017	0.005 % to 5.70 %
68	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Aluminium	ASTM E 415: 2017	0.005 % to 0.10 %
69	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Boron	ASTM E 415: 2017	0.0004 % to 0.007 %
70	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Carbon	ASTM E 415: 2017	0.01 % to 1.15 %



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71	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Chromium	ASTM E 415: 2017	0.01 % to 8.25 %
72	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Cobalt	ASTM E 415: 2017	0.001 % to 0.20 %
73	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Copper	ASTM E 415: 2017	0.004 % to 0.50 %
74	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Manganese	ASTM E 415: 2017	0.10 % to 2.0 %



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75	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Molybdenum	ASTM E 415: 2017	0.01 % to 1.30 %
76	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Nickel	ASTM E 415: 2017	0.01 % to 5.0 %
77	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Niobium	ASTM E 415: 2017	0.002 % to 0.120 %
78	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Nitrogen	ASTM E 415: 2017	0.005 % to 0.015 %



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79	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Phosphorous	ASTM E 415: 2017	0.003 % to 0.085 %
80	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Silicon	ASTM E 415: 2017	0.01 % to 1.5 %
81	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Sulphur	ASTM E 415: 2017	0.001 % to 0.085 %
82	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Tin	ASTM E 415: 2017	0.004 % to 0.061 %



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83	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Titanium	ASTM E 415: 2017	0.001 % to 0.20 %
84	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Vanadium	ASTM E 415: 2017	0.005 % to 0.30 %
85	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Zirconium	ASTM E 415: 2017	0.001 % to 0.05 %
86	CHEMICAL- METALS & ALLOYS	Copper & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting, Tubes	Aluminium	BS EN 15079: 2015	0.005 % to 9.5 %



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87	CHEMICAL- METALS & ALLOYS	Copper & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting, Tubes	Antimony	BS EN 15079: 2015	0.01 % to 0.5 %
88	CHEMICAL- METALS & ALLOYS	Copper & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting, Tubes	Arsenic	BS EN 15079: 2015	0.007 % to 0.25 %
89	CHEMICAL- METALS & ALLOYS	Copper & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting, Tubes	Bismuth	BS EN 15079: 2015	0.002 % to 0.75 %
90	CHEMICAL- METALS & ALLOYS	Copper & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting, Tubes	Chromium	BS EN 15079: 2015	0.002 % to 0.01 %
91	CHEMICAL- METALS & ALLOYS	Copper & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting, Tubes	Iron	BS EN 15079: 2015	0.01 % to 4.5 %
92	CHEMICAL- METALS & ALLOYS	Copper & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting, Tubes	Lead	BS EN 15079: 2015	0.01 % to 16.0 %



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93	CHEMICAL- METALS & ALLOYS	Copper & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting, Tubes	Magnesium	BS EN 15079: 2015	0.001 % to 0.20 %
94	CHEMICAL- METALS & ALLOYS	Copper & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting, Tubes	Manganese	BS EN 15079: 2015	0.01 % to 0.08 %
95	CHEMICAL- METALS & ALLOYS	Copper & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting, Tubes	Nickel	BS EN 15079: 2015	0.05 % to 2.5 %
96	CHEMICAL- METALS & ALLOYS	Copper & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting, Tubes	Phosphorus	BS EN 15079: 2015	0.001 % to 0.2 %
97	CHEMICAL- METALS & ALLOYS	Copper & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting, Tubes	Silicon	BS EN 15079: 2015	0.001 % to 5.0 %
98	CHEMICAL- METALS & ALLOYS	Copper & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting, Tubes	Sulphur	BS EN 15079: 2015	0.001 % to 0.20 %



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99	CHEMICAL- METALS & ALLOYS	Copper & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting, Tubes	Tin	BS EN 15079: 2015	0.005 % to 8.0 %
100	CHEMICAL- METALS & ALLOYS	Copper & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting, Tubes	Zinc	BS EN 15079: 2015	0.2 % to 42.0 %
101	CHEMICAL- METALS & ALLOYS	High Manganese steel : Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars	Phosphorus	ASTM E 2209: 2013	0.02 % to 0.080 %
102	CHEMICAL- METALS & ALLOYS	High Manganese steel : Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars	Aluminium	ASTM E 2209: 2013	0.01 % to 0.15 %
103	CHEMICAL- METALS & ALLOYS	High Manganese steel : Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars	Carbon	ASTM E 2209: 2013	0.20 % to 2.0 %
104	CHEMICAL- METALS & ALLOYS	High Manganese steel : Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars	Chromium	ASTM E 2209: 2013	0.25 % to 2.0 %



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105	CHEMICAL- METALS & ALLOYS	High Manganese steel : Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars	Manganese	ASTM E 2209: 2013	8.0 % to 16.0 %
106	CHEMICAL- METALS & ALLOYS	High Manganese steel : plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars	Molybdenum	ASTM E 2209: 2013	0.2 % to 2.5 %
107	CHEMICAL- METALS & ALLOYS	High Manganese steel : Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars	Nickel	ASTM 2209: 2013	0.05 % to 4.0 %
108	CHEMICAL- METALS & ALLOYS	High Manganese steel : Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars	Silicon	ASTM E 2209: 2013	0.2 % to 1.50 %
109	CHEMICAL- METALS & ALLOYS	Nickel & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting	Aluminium	ASTM E 3047: 2016	0.010 % to 0.8 %
110	CHEMICAL- METALS & ALLOYS	Nickel & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting	Carbon	ASTM E 3047: 2016	0.007 % to 0.15 %



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111	CHEMICAL- METALS & ALLOYS	Nickel & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting	Chromium	ASTM E 3047: 2016	0.08 % to 25.0 %
112	CHEMICAL- METALS & ALLOYS	Nickel & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting	Cobalt	ASTM E 3047: 2016	0.05 % to 2.0 %
113	CHEMICAL- METALS & ALLOYS	Nickel & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting	Copper	ASTM E 3047: 2016	0.01 % to 31.5 %
114	CHEMICAL- METALS & ALLOYS	Nickel & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting	Iron	ASTM E 3047: 2016	3.5 % to 35.0 %
115	CHEMICAL- METALS & ALLOYS	Nickel & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting	Manganese	ASTM E 3047: 2016	0.05 % to 1.5 %
116	CHEMICAL- METALS & ALLOYS	Nickel & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting	Molybdenum	ASTM E 3047: 2016	0.01 % to 20.0 %



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117	CHEMICAL- METALS & ALLOYS	Nickel & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting	Niobium	ASTM E 3047: 2016	0.01 % to 5.0 %
118	CHEMICAL- METALS & ALLOYS	Nickel & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting	Phosphorus	ASTM E 3047: 2016	0.002 % to 0.05 %
119	CHEMICAL- METALS & ALLOYS	Nickel & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting	Silicon	ASTM E 3047: 2016	0.02 % to 1.5 %
120	CHEMICAL- METALS & ALLOYS	Nickel & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting	Sulphur	ASTM E 3047: 2016	0.0005 % to 0.01 %
121	CHEMICAL- METALS & ALLOYS	Nickel & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting	Titanium	ASTM E 3047: 2016	0.001 % to 1.8 %
122	CHEMICAL- METALS & ALLOYS	Nickel & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting	Tungsten	ASTM E 3047: 2016	0.01 % to 5 %



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123	CHEMICAL- METALS & ALLOYS	Nickel & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting	Vanadium	ASTM E 3047: 2016	0.01 % to 0.35 %
124	CHEMICAL- METALS & ALLOYS	Nickel & its alloys- Plates, Pipes, Sheets, Bars, forgings, Fittings, Welding, Casting	Zirconium	ASTM E 3047: 2016	0.002 % to 0.01 %
125	CHEMICAL- METALS & ALLOYS	Stainless steel- Structural Steel, Plates, Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Boron	JIS G 1253: 2002	0.0005 % to 0.0030 %
126	CHEMICAL- METALS & ALLOYS	Stainless steel- Structural Steel, Plates, Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Carbon	JIS G 1253: 2002	0.005 % to 0.30
127	CHEMICAL- METALS & ALLOYS	Stainless steel- Structural Steel, Plates, Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Carbon	ASTM E 1086: 2014	0.005 % to 0.30 %



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128	CHEMICAL- METALS & ALLOYS	Stainless steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Chromium	ASTM E 1086: 2014	17.0 % to 26.0 %
129	CHEMICAL- METALS & ALLOYS	Stainless steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Chromium	JIS G 1253: 2002	0.20 % to 28.0 %
130	CHEMICAL- METALS & ALLOYS	Stainless steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Cobalt	JIS G 1253: 2002	0.004 % to 1.5 %
131	CHEMICAL- METALS & ALLOYS	Stainless steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Copper	ASTM E 1086: 2014	0.01 % to 0.5 %
132	CHEMICAL- METALS & ALLOYS	Stainless steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Copper	JIS G 1253: 2002	0.01 % to 1.0 %



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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
133	CHEMICAL- METALS & ALLOYS	Stainless steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Manganese	JIS G 1253: 2002	0.3 % to 16.0 %
134	CHEMICAL- METALS & ALLOYS	Stainless steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Manganese	ASTM E 1086: 2014	0.3 % to 2.5 %
135	CHEMICAL- METALS & ALLOYS	Stainless steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Molybdenum	JIS G 1253: 2002	0.20 % to 28.0 %
136	CHEMICAL- METALS & ALLOYS	Stainless steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Molybdenum	ASTM E 1086: 2014	0.01 % to 3.8 %
137	CHEMICAL- METALS & ALLOYS	Stainless steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Nickel	ASTM E 1086: 2014	7.0 % to 15.0 %



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138	CHEMICAL- METALS & ALLOYS	Stainless steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Nickel	JIS G 1253: 2002	0.20 % to 24.0 %
139	CHEMICAL- METALS & ALLOYS	Stainless steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Niobium	JIS G 1253: 2002	0.002 % to 1.5 %
140	CHEMICAL- METALS & ALLOYS	Stainless steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Nitrogen	JIS G 1253: 2002	0.01 % to 0.25 %
141	CHEMICAL- METALS & ALLOYS	Stainless steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Phosphorus	ASTM E 1086: 2014	0.01 % to 0.2 %
142	CHEMICAL- METALS & ALLOYS	Stainless steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Phosphorus	JIS G 1253: 2002	0.01 % to 0.20 %



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143	CHEMICAL- METALS & ALLOYS	Stainless steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Silicon	JIS G 1253: 2002	0.2 % to 0.9 %
144	CHEMICAL- METALS & ALLOYS	Stainless steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Silicon	ASTM E 1086: 2014	0.2 % to 2.0 %
145	CHEMICAL- METALS & ALLOYS	Stainless steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Sulphur	ASTM E 1086: 2014	0.003 % to 0.10 %
146	CHEMICAL- METALS & ALLOYS	Stainless steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Sulphur	JIS G 1253: 2002	0.001 % to 0.31 %
147	CHEMICAL- METALS & ALLOYS	Stainless steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Tin	JIS G 1253: 2002	0.005 % to 0.020 %



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148	CHEMICAL- METALS & ALLOYS	Stainless steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Titanium	JIS G 1253: 2002	0.001 % to 1.0 %
149	CHEMICAL- METALS & ALLOYS	Stainless steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Tungsten	JIS G 1253: 2002	0.010 % to 0.10 %
150	CHEMICAL- METALS & ALLOYS	Stainless steel- Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars, Bolts	Vanadium	JIS G 1253: 2002	0.01 % to 0.25 %
151	CHEMICAL- PAINTS & SURFACE COATING	Enamel paint,	Fineness of Grind	IS 101 Part 3: 1987	5 Micron to 100 Micron
152	CHEMICAL- PAINTS & SURFACE COATING	Enamel paint,	Flash Point	IS 101 Part 1: 1987	15 Degree C to 90 Degree C
153	CHEMICAL- PAINTS & SURFACE COATING	Enamel paint,	Non Volatile Matter	IS 101 Part 8: 1987	1 % to 90 %
154	CHEMICAL- PAINTS & SURFACE COATING	Enamel paint,	Volume solids	IS 13213: 1991 Reff 2012	5 % to 90 %
155	CHEMICAL- PAINTS & SURFACE COATING	Enamel Paints	Consistency by Ford Cup(B 4)	ASTM D 1200: 2014	20 Second to 200 Second
156	CHEMICAL- PAINTS & SURFACE COATING	Enamel paints	Consistency by Ford Cup (B 4)	IS 101 Part 1 Sec 5: 1989	20 Second to 200 Second



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157	CHEMICAL- PAINTS & SURFACE COATING	Enamel Paints	Dry Film Thickness	IS 101 part 3 sec 2: 1987	10 Micron to 500 Micron
158	CHEMICAL- PAINTS & SURFACE COATING	Enamel Paints	Drying Time(Hard dry)	IS 101 Part 3 Sec 1: 1986	Qualitative
159	CHEMICAL- PAINTS & SURFACE COATING	Enamel paints	Flexibility & Adhesion	IS 101 Part 5 Sec 2: 1988	Qualitative
160	CHEMICAL- PAINTS & SURFACE COATING	Enamel paints	Flexibility and Adhesion	ASTM D 522 (Ann. A): 2017	Qualitative
161	CHEMICAL- PAINTS & SURFACE COATING	Enamel paints	Gloss	IS 101 Part 4 Sec 4: 1988	Qualitative(10 to 95 GU)
162	CHEMICAL- PAINTS & SURFACE COATING	Enamel paints	Pot Life	IS 13213: 1991	Qualitative
163	CHEMICAL- PAINTS & SURFACE COATING	Enamel paints	Resistance to Acid & Alcohol	IS 13213: 1991	Qualitative
164	CHEMICAL- PAINTS & SURFACE COATING	Enamel paints	Resistance to Alkali	IS 8662: 2004	Qualitative
165	CHEMICAL- PAINTS & SURFACE COATING	Enamel paints	Scratch Hardness	IS 101 Part sec 1: 1988	Qualitative
166	CHEMICAL- PAINTS & SURFACE COATING	Enamel paints	Weight kg / 10l	IS 101 Part 1: 1987	1 kg to 20 kg
167	CHEMICAL- PAINTS & SURFACE COATING	Enamel paints	Wet film Thickness	IS 101 Part 3: 1989	5 Micron to 80 Micron
168	CHEMICAL- PAINTS & SURFACE COATING	Galvanised items	Mass of Zinc Coating	IS 6745;1972: 1972	20 g/m ² to 1500 g/m ²
169	MECHANICAL- BUILDINGS MATERIALS	Bricks	Compressive Strength	IS 3495 Part 1RA 2016: 1992	3 N/mm ² to 30 N/mm ²



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170	MECHANICAL-BUILDINGS MATERIALS	Bricks	Dimension	IS 1077 RA 2016: 1992	3800 mm to 5800 mm
171	MECHANICAL-BUILDINGS MATERIALS	Bricks	Efflorescence	IS 3495 Part 3 RA 2016: 1992	Qualitative
172	MECHANICAL-BUILDINGS MATERIALS	Bricks	Water Absorption	IS 3495 Part 2 RA 2016: 1992	3 % to 30 %
173	MECHANICAL-BUILDINGS MATERIALS	Castable Cube	Bulk Density	IS 10570: 2017	1 g/cc to 5 g/cc
174	MECHANICAL-BUILDINGS MATERIALS	Castable Cube	Compressive Strength	ASTM C133: 2016	1 N/mm ² to 50 N/mm ²
175	MECHANICAL-BUILDINGS MATERIALS	Castable Cube	Compressive Strength	IS 10570: 2017	1 N/mm ² to 50 N/mm ²
176	MECHANICAL-BUILDINGS MATERIALS	Castable Cube	Permanent Linear Change	ASTM C 113: 2014	150 mm to 250 mm
177	MECHANICAL-BUILDINGS MATERIALS	Castable Cubes	Bulk Density	ASTM C134: 2016	1 g/cc to 5 g/cc
178	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregates	Abrasion Value Los Angeles	IS 2386 Part 4 RA 2016: 1963	5 % to 50 %
179	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregates	Bulk Density	IS 2386 Part 3 RA 2016: 1963	1 kg/l to 5 kg/l



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SCOPE OF ACCREDITATION

Laboratory Name R.K. INSPECTION & TESTING SERVICES, C-196/2, MAYAPURI INDUSTRIAL AREA, PHASE II, NEW DELHI, DELHI, INDIA

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
180	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregates	Crushing Value	IS 2386 Part 4 RA2016: 1963	5 % to 50 %
181	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregates	Elongation Index	IS 2386 Part 1 RA 2016: 1963	3 % to 50 %
182	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregates	Flakiness Index	IS 2386 Part 1: 1963	3 % to 50 %
183	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregates	Impact Value	IS 2386 Part 4 RA 2016: 1963	3 % to 50 %
184	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregates	Sieve Analysis	IS 2386 Part 1: 1963	4.75 mm to 80 mm
185	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregates	Soundness Test	IS 2386 Part 5 RA 2016: 1963	0.5 % to 20 %
186	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregates	Water Absorption	IS 2386 Part 3 RA 2016: 1963	0.2 % to 5 %
187	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregates	10% Fine Value	IS 2386 Part 5 RA 2016: 1963	5 Tonnes to 50 Tonnes
188	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregates	Specific Gravity	IS 2386 Part 3 RA 2016: 1963	1.5 to 4
189	MECHANICAL-BUILDINGS MATERIALS	Cube & Core	Compressive strength	IS 516 RA 2013: 1959	5 N/mm ² to 80 N/mm ²



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190	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 Part 3 RA 2016: 1963	1.5 to 4
191	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregates	Bulk Density	IS 2386 Part 3 RA 2016: 1963	1 kg/l to 3 kg/l
192	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregates	Sieve Analysis	IS 2386 Part 1 RA 2016: 1963	150 Micron to 10 mm
193	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregates	Soundness	IS 2386 part 5 RA 2016: 1963	0.5 % to 20 %
194	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregates	Water Absorption	IS 2386 Part 3 RA 2016: 1963	0.5 % to 5 %
195	MECHANICAL-BUILDINGS MATERIALS	OPC, PPC, PSC	Fineness by Blaine	IS 4031 Part 2: 2013	150 m ² /kg to 400 m ² /kg
196	MECHANICAL-BUILDINGS MATERIALS	OPC,PPC,PSC	Compressive Strength	IS 4031 Part 6: 1988	5 N/mm ² to 70 N/mm ²
197	MECHANICAL-BUILDINGS MATERIALS	OPC,PPC,PSC	Consistency	IS 4031 Part 5: 1988	20 % to 40 %
198	MECHANICAL-BUILDINGS MATERIALS	OPC,PPC,PSC	Final Setting Time	IS 4031 Part 5: 1988	30 Minutes to 700 Minutes
199	MECHANICAL-BUILDINGS MATERIALS	OPC,PPC,PSC	Initial Setting Time	IS 4031 Part 5: 1988	10 Minutes to 400 Minutes



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200	MECHANICAL-BUILDINGS MATERIALS	OPC,PPC,PSC	Soundness by Autoclave	IS 4031 Part 4: 1988	0.01 % to 5.0 %
201	MECHANICAL-BUILDINGS MATERIALS	OPC,PPC,PSC	Soundness by Le chatelier	IS 4031 Part 3: 1988	0.2 mm to 10 mm
202	MECHANICAL-BUILDINGS MATERIALS	Paver Block	Compressive Strength	IS 15658 RA 2017: 2006	5 N/mm ² to 60 N/mm ²
203	MECHANICAL-BUILDINGS MATERIALS	Paver Block	Water Absorption	IS 15658 RA 2016: 2006	3 % to 30 %
204	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pipe	Flattening	ASTM A 450: 2015	Qualitative
205	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats	Intergranular Corrosion Test Practice A	ASTM A 262: 2015	Qualitative
206	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Conveyor Chain	Breaking Load	IS 6834 Part 1: 2010	6 kN to 600 kN
207	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Electrode, Flux and Rod	Impact Test (CVN)	AWS B4.0: 2016	4 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
208	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Electrode, Flux and Rod	Macro and Fracture	AWS B4.0: 2016	Qualitative
209	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Electrode, Flux and Rod	Tensile Test	AWS B 4.0: 2016	50 N/mm2 to 1000 N/mm2
210	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Electrode, Rod & Flux	All weld Tensile 0.2% PS/YS,UTS, %E, %R	ASME Section 2 Part C: 2017	50 N/mm2 to 800 N/mm2
211	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Electrode, Rods, Fluxes	Macro and Fracture	ASME Section 2 Part C: 2017	Qualitative
212	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferritic, austenitic and ferritic-austenitic (Duplex) Stainless Steels	Intergranular Corrosion Test	ISO 3651: 1998	Qualitative
213	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Forgings, Bars	Macro Examination	ASTM A 340: 2015	Qualitative
214	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Forgings, Plates , Tubes	Tube to tubesheet Mockup Macro Examination	ASME Sec IX: 2017	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
215	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Forgings, Plates , Tubes	Tube to tubesheet Mockup Pullout test	ASME Sec IX: 2017	6 kN to 600 kN
216	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Hooks & Shank	Proof Load	IS 15560: 2010	Qualitative
217	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Nut	Proof Load	IS 1367 Part 6: 2015	Qualitative
218	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Nut	Proof Load	ASME A370: 2017	Qualitative
219	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Paint & GI coated (Structural Steel, Plates , Pipes, Fitting, Sheet, Tubes, Bars)	Coating Thickness	ASTM E 376: 2017	15 Micron to 700 Micron
220	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Pipes	Flattening	API 5L: 2013	Qualitative((73mm NB to 690mm NB))
221	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Pipes & Tubes	Flattening	ASTM A 370: 2017	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
222	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Pipes, Plates	Nick Break	API 1104: 2013	Qualitative
223	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plate	All weld Tensile 0.2% PS/YS,UTS, %E, %R	PD 5500: 2018	20 N/mm2 to 1200 N/mm2
224	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plate	All weld Tensile 0.2% PS/YS,UTS, %E, %R	IRS Rules: 2018	20 N/mm2 to 1200 N/mm2
225	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plate	All weld Tensile 0.2% PS/YS,UTS, %E, %R	ABS SPEC. : 2014	20 N/mm2 to 1200 N/mm2
226	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plate	Bend, Macro & Fracture	ABS SPEC.: 2014	Qualitative
227	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plate	Bend, Macro & Fracture	LRA Rules: 2016	Qualitative
228	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plate	Bend, Macro & Fracture	IRS Rules: 2018	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
229	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plate	Transverse Tensile	IRS Rules: 2018	100 N/mm ² to 1500 N/mm ²
230	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plate , Pipe	Bend	ASME Sec Part A: 2017	Qualitative
231	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plate , Pipes, Tubes	Vickers Hardness	ASTM E 384: 2017	10 VPN to 800 VPN
232	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates	All weld Tensile 0.2% PS/YS,UTS, %E, %R	IS 2825: 2007	20 N/mm ² to 1200 N/mm ²
233	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates	All weld Tensile 0.2% PS/YS,UTS, %E, %R	LRA Rules: 2016	20 N/mm ² to 1200 N/mm ²
234	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates	Bend & Macro	PD 5500: 2018	Qualitative
235	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates	Bend , Macro and Fracture	LRA Rules: 2016	Qualitative



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236	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates	Through Tensile	ASME A 770: 2017	3 % to 90 %
237	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates	Transverse Tensile	LRA Rules: 2016	100 N/mm ² to 1500 N/mm ²
238	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates	Transverse Tensile	ABS SPEC.: 2014	100 N/mm ² to 1500 N/mm ²
239	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates & Pipes	Bend & Macro	IS 2825: 2007	Qualitative
240	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates , Pipes, Forgings, casting, Fitting, Sheet, Tubes, Bars, Flats	Transverse Tensile	ASME Section IX: 2017	100 N/mm ² to 1200 N/mm ²
241	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates , Pipes, Forgings, casting, Fitting, Sheet, Tubes, Flats	Impact Test (CVN)	ISO 9016: 2012	2 J to 300 J
242	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates , Pipes, Forgings, casting, Fitting, Sheet, Tubes, Bars, Flats	Bend ,Macro and Fracture	IS 7307: 1974	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
243	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates , Pipes, Forgings, casting, Fitting, Sheet, Tubes, Bars, Flats	Bend Test	ISO 5173: 2017	Qualitative
244	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates , Pipes, Forgings, casting, Fitting, Sheet, Tubes, Bars, Flats	Bend, Macro & Fracture Test	ISO 15614 : 2017	Qualitative
245	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates , Pipes, Forgings, casting, Fitting, Sheet, Tubes, Bars, Flats	Bend, Macro & Fracture Test	AWS D1.1: 2015	Qualitative
246	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates , Pipes, Forgings, casting, Fitting, Sheet, Tubes, Bars, Flats	Hardness	ISO 9015: 2016	80 VPN to 800 VPN
247	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates , Pipes, Forgings, casting, Fitting, Sheet, Tubes, Bars, Flats	Macroscopic & Microscopic Examination	ISO 17639: 2013	Qualitative
248	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates , Pipes, Forgings, casting, Fitting, Sheet, Tubes, Bars, Flats	Transverse Tensile	ISO 15614 part 1: 2017	100 N/mm2 to 1200 N/mm2
249	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates , Pipes, Forgings, casting, Fitting, Sheet, Tubes, Bars, Flats	Transverse Tensile	ISO 4136: 2012	100 N/mm2 to 1200 N/mm2



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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
250	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates , Pipes, Forgings, casting, Fitting, Sheet, Tubes, Bars, Flats	Transverse Tensile	IS 7307: 1974	100 N/mm ² to 1200 N/mm ²
251	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates , Pipes, Forgings, casting, Fitting, Sheet, Tubes, Bars, Flats	Transverse Tensile Test	AWD D1.1: 2015	100 N/mm ² to 1500 N/mm ²
252	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates , Pipes, Forgings, casting, Welding, Sheet, Tubes	Bend & Macro Examination	ISO 9606 Part1: 2017	Qualitative
253	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Flats	Nick Break & Fracture	IS 3600 Part 8: 2013	Qualitative
254	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats	All weld Tensile 0.2% PS/YS,UTS, %E, %R	IS 3600 Part 4: 2011	20 N/mm ² to 1200 N/mm ²
255	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats	Bend Test	IS 3600 Part 5: 2018	Qualitative
256	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats	Bend Test	IBR: 1950	Qualitative



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257	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats	Delta Ferrite	ASTM E 562: 2015	Qualitative
258	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats	Delta Ferrite (Ferrit No. & Ferrit %)	AWS A4.2: 2006	Qualitative
259	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats	Intergranular Corrosion Test Practice A & B	ASTM G 28: 2015	0.01 mils/ year to 200 mils/ year
260	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats	Intergranular Corrosion Test Practice B & C	ASTM A 262: 2015	0.01 mils/year to 300 mils/year
261	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats	Intergranular Corrosion Test Practice E	ASTM A 262: 2015	Qualitative
262	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats	Intermetallic Phase Method A & C	ASTM A 923: 2014	Qualitative
263	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats	Macro Examination	IS 3600 Part 9: 2013	Qualitative



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264	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats	Macro Examination	IBR: 1950	Qualitative
265	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats	Pitting and Crevice Corrosion Method A & B	ASTN G 48: 2015	Qualitative
266	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats	Side Bend	IS 3600 Part 6: 2013	Qualitative
267	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats	Tensile Test	IBR: 1950	20 N/mm2 to 1000 N/mm2
268	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats	Transverse Tensile	IS 3600 Part 3: 2018	20 N/mm2 to 1200 N/mm2
269	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates ,Pipes, Forgings, Fittings	Bend and Macro Examination	IBR: 1950	Qualitative
270	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates, Pipes	Transverse Tensile	IS 2825: 2007	100 N/mm2 to 1500 N/mm2



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271	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates, Pipes, Forgings, Fittings, Welding	Hydrogen Induced Cracking	NACE: 2016	Qualitative
272	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Plates, Pipes, Forgings, Fittings, Welding	Sulphide Stress Corrosion Cracking	NACE 0177: 2016	Qualitative
273	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural steel, Bars, Plates, CI,Pipes, Fittings, Forgings,Castings, TMT,Sheets, Tubes,Bolts, Nuts, Wire rope, Hooks, Conveyor Chains,Delta ferrite	Tensile Test	IS 1608 (Part 1): 2018	20 N/mm2 to 1500 N/mm2
274	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, TMT, Tubes, Bars	Bend Test	ASTM A 370: 2017	Qualitative
275	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars	Tensile Test- UTS	ASTM A 370: 2017	100 N/mm2 to 1200 N/mm2
276	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, CI, Tubes, Bars	Tensile Test % Reduction	IS 1608 Part 1: 2018	5 % to 85 %



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277	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, CI, TMT, Tubes,	Tensile Test at Elevated Temperature +50 to 650 degree C - Yield Strength	ASTM E 21: 2009	50 N/mm2 to 700 N/mm2
278	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, CI, TMT, Tubes,	Ultimate Tensile Strength	ASTM A 370: 2017	50 N/mm2 to 1500 N/mm2
279	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, CI, TMT, Tubes, Bars	Tensile Test - % Elongation	ISO 6892 Part 1: 2009	3 % to 80 %
280	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, CI, TMT, Tubes, Bars	Tensile Test - 0.2- 1% PS / YS,	IS 1608 (Part 1): 2018	20 N/mm2 to 1200 N/mm2
281	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, CI, TMT, Tubes, Bars	Tensile Test % Elongation	IS 1608 part 1: 2018	3 % to 80 %
282	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, CI, TMT, Tubes, Bars	Tensile Test % Reduction	ISO 6892 Part 1: 2009	5 % to 85 %



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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
283	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, CI, TMT, Tubes, Bars	Tensile Test (% Reduction)	ASTM A 370: 2017	5 % to 85 %
284	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, CI, TMT, Tubes, Bars	Tensile Test (0.2-1% PS/YS)	ISO 6892: 2009	20 N/mm2 to 1200 N/mm2
285	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, CI, TMT, Tubes, Bars	Tensile Test (Elongation)	ASTM A 370: 2017	2 % to 80 %
286	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, CI, TMT, Tubes, Bars	Tensile Test (UTS)	1608 Part 1: 2018	50 N/mm2 to 1500 N/mm2
287	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, CI, Tubes, Bars	Tensile Test - UTS	ISO 6892: 2009	50 N/mm2 to 1500 N/mm2
288	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, CI, Tubes, Bars	Tensile Test -% Elongation	ASTM E 8: 2013	3 % to 80 %



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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
289	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, CI, Tubes, Bars	Tensile Test -% Reduction	ASTM E 8: 2013	5 % to 85 %
290	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, CI, Tubes, Bars	Tensile Test 0.2% PS/ YS	ASTM E 8: 2013	20 N/mm2 to 1200 N/mm2
291	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, CI, Tubes, Bars	Tensile Test -UTS	ASTM E 8: 2013	80 N/mm2 to 1500 N/mm2
292	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes,	Fracture,Bend & Macro Test	IS 7310: 2011	Qualitative
293	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes,	Tensile Test at Elevated Temperature +50 to 650 degree C - UTS	ASTM E 21: 2009	75 N/mm2 to 1000 N/mm2
294	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars	% Elongation	ASTM A 370: 2017	2 % to 80 %



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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
295	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars	Bend Test	IS 1599: 2012	Qualitative
296	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars	Tensile Test 0.2% PS/ YS	ASTM A 370: 2017	50 N/mm2 to 800 N/mm2
297	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats	Brinell Hardness 5mm/750kgf and 10mm/3000 kgf	IS 1500 Part 1: 2013	80 HBW to 500 HBW
298	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats	Brinell Hardness 5mm/750kgf and 10mm/3000 kgf	ASTM E 10: 2014	80 HBW to 500 HBW
299	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats	Rockwell Hardness Scale B	ASTM E 18: 2018	20 HRBW to 98 HRBW
300	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats	Rockwell Hardness Scale B	IS 1586: 2006	20 HRBW to 98 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
301	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats	Rockwell Hardness Scale C	IS 1586: 2006	20 HRc to 70 HRC
302	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats	Rockwell Hardness Scale C	ASTM E 18: 2018	20 HRC to 70 HRC
303	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats	Vickers Hardness	ASTM E92: 2017	80 VPN to 800 VPN
304	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats	Vickers Hardness (at 5 kgf, 10 kgf, 30 kgf)	IS 1501: 2013	30 HV to 800 HV
305	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats, Bolts	Charpy V Notch Impact Test ((+)50 Deg C To (-) 196 Deg. C)	ASTM E 23 : 2016	2 J to 300 J
306	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats, Bolts	Charpy V Notch Impact Test ((+)50 Deg C To (-) 196 Deg. C)	ASTM A 370: 2017	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
307	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel, Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats, Bolts	Charpy V Notch Impact Test ((+)-50 Deg C To (-) 196 Deg. C)	ISO 148-1: 2016	2 J to 300 J
308	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel, TMT, Plates, Bars, Pipes, Forgings, Fittings, Castings, Welding,	0.2% Proof Stress/ Yield Strength	ASTM A370: 2017	20 N/mm2 to 1200 N/mm2
309	MECHANICAL- MECHANICAL PROPERTIES OF METALS	TMT	Re bend	IS 1786: 2012	Qualitative
310	MECHANICAL- MECHANICAL PROPERTIES OF METALS	TMT & Structural Steel	Mass per meter	IS 1786: 2013	0.050 kg to 15.0 kg
311	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Tubes & Pipes	Flattening	IS 2328: 2005	Qualitative
312	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Tubes & Pipes	Flattening	IS 2328: 2005	Qualitative((3" to 30"))
313	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welded Pipe	Bend, Macro	ASME B 31.3: 2016	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
314	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welded Pipes	Bend, Nick break, Macro Examination	API 1104: 2013	Qualitative
315	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welded Pipes	Transverse Tensile	API 1104: 2013	100 N/mm ² to 1200 N/mm ²
316	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welded Pipes	Transverse Tensile	ASME B 31.3: 2016	100 N/mm ² to 1500 N/mm ²
317	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Wire Ropes & Strands	Breaking Load	IS 6594: 2017	6 kN to 600 kN
318	MECHANICAL- METALLOGRAPHY TEST	Casting	Ferrite Content	ASTM A800 M: 2014	Qualitative
319	MECHANICAL- METALLOGRAPHY TEST	Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats	Delta Ferrite	ASTM A 562: 2011	Qualitative
320	MECHANICAL- METALLOGRAPHY TEST	Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats	Grain Size	ASTM E 112: 2013	Qualitative
321	MECHANICAL- METALLOGRAPHY TEST	Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats	IGC Practice A	ASTM A 262: 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
322	MECHANICAL- METALLOGRAPHY TEST	Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats	Intermetallic Phase	ASTM A 923: 2014	Qualitative
323	MECHANICAL- METALLOGRAPHY TEST	Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats	Macro & Micro Examination	BS EN ISO 17639: 2013	Qualitative
324	MECHANICAL- METALLOGRAPHY TEST	Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats	Macro Examination	ASME Sec II Part C: 2017	Qualitative
325	MECHANICAL- METALLOGRAPHY TEST	Plates , Pipes, Forgings, casting, Welding, Fitting, Sheet, Tubes, Bars, Flats	Micro Structure	ASM Volume 9: 1992	Qualitative
326	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 Part 16: 1987	0.5 % to 60 %
327	MECHANICAL- SOIL AND ROCK	Soil	Maximum Dry Density	IS 2720 Part 8 RA 2015: 1983	1.2 g/cc to 3 g/cc
328	MECHANICAL- SOIL AND ROCK	Soil	Maximum Dry Density	IS 2720 Part 7 RA 2016: 1980	1.2 g/cc to 2.5 g/cc
329	MECHANICAL- SOIL AND ROCK	Soil	Optimum Moisture Content	IS 2720 Part 8 RA 2015: 1983	5 % to 30 %
330	MECHANICAL- SOIL AND ROCK	Soil	Optimum Moisture Content	IS 2720 Part 7 RA 2016: 1980	5 % to 30 %