National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : IRC ENGINEERING SERVICES INDIA PVT. LTD., A-53, SECTOR-63, GAUTAM BUDDHA NAGAR, NOIDA, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 24/11/2022 to 23/11/2024 **Last Amended on** 14/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- CORROSION TESTS	Stainless Steel Bars, Plates, Sheets, Wires, Tubes, Castings, Shapes, Forgings and Pipes	IGC PRACTICE B	ASTM A 262
2	CHEMICAL- CORROSION TESTS	Stainless Steel Bars, Plates, Sheets, Wires, Tubes, Castings, Shapes, Forgings and Pipes	IGC PRACTICE C	ASTM A 262
3	CHEMICAL- CORROSION TESTS	Stainless Steel Bars, Plates, Sheets, Wires, Tubes, Castings, Shapes, Forgings and Pipes	IGC TEST PRACTICE A	ASTM A - 262
4	CHEMICAL- CORROSION TESTS	Stainless Steel Bars, Plates, Sheets, Wires, Tubes, Castings, Shapes, Forgings and Pipes	IGC TEST PRACTICE E	ASTM A262
5	CHEMICAL- CORROSION TESTS	Wrought, Nickel - rich & Chromium - bearing Alloys	Susceptibility to Intergranular Corrosion	ASTM G 28 METHOD A
6	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Zinc Coated Mild Steel/Carbon Steel Article	ADHESION TEST	IS 2629
7	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Zinc Coated Mild Steel/Carbon Steel Article	MASS OF ZINC COATING	IS 6745
8	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Zinc Coated Mild Steel/Carbon Steel Article	UNIFORMITY OF ZINC COATING	IS 2633
9	CHEMICAL- METALS & ALLOYS	Aluminium or Aluminium Alloys Rolled bars, Plates, Sheets, Coils, Wires, Tubes, Castings and Shapes.	CHROMIUM	ASTM E1251 - 17a
10	CHEMICAL- METALS & ALLOYS	Aluminium or Aluminium Alloys Rolled bars, Plates, Sheets, Coils, Wires, Tubes, Castings and Shapes.	COPPER	ASTM E1251-17a
11	CHEMICAL- METALS & ALLOYS	Aluminium or Aluminium Alloys Rolled bars, Plates, Sheets, Coils, Wires, Tubes, Castings and Shapes.	IRON	ASTM E1251-17a
12	CHEMICAL- METALS & ALLOYS	Aluminium or Aluminium Alloys Rolled bars, Plates, Sheets, Coils, Wires, Tubes, Castings and Shapes.	LEAD	ASTM E1251-17a
13	CHEMICAL- METALS & ALLOYS	Aluminium or Aluminium Alloys Rolled bars, Plates, Sheets, Coils, Wires, Tubes, Castings and Shapes.	MAGNESIUM	ASTM E1251-17a
14	CHEMICAL- METALS & ALLOYS	Aluminium or Aluminium Alloys Rolled bars, Plates, Sheets, Coils, Wires, Tubes, Castings and Shapes.	MANGANESE	ASTM E1251-17a
15	CHEMICAL- METALS & ALLOYS	Aluminium or Aluminium Alloys Rolled bars, Plates, Sheets, Coils, Wires, Tubes, Castings and Shapes.	NICKEL	ASTM E1251-17a
16	CHEMICAL- METALS & ALLOYS	Aluminium or Aluminium Alloys Rolled bars, Plates, Sheets, Coils, Wires, Tubes, Castings and Shapes.	SILICON	ASTM E1251-17a
17	CHEMICAL- METALS & ALLOYS	Aluminium or Aluminium Alloys Rolled bars, Plates, Sheets, Coils, Wires, Tubes, Castings and Shapes.	TIN	ASTM E1251-17a

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18	CHEMICAL- METALS & ALLOYS	Aluminium or Aluminium Alloys Rolled bars, Plates, Sheets, Coils, Wires, Tubes, Castings and Shapes.	ZINC	ASTM E1251-17a
19	CHEMICAL- METALS & ALLOYS	Carbon Steel Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel	CARBON	ASTM E415
20	CHEMICAL- METALS & ALLOYS	Carbon Steel Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel	CHROMIUM	ASTM E415
21	CHEMICAL- METALS & ALLOYS	Carbon Steel Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel	MANGANESE	ASTM E415
22	CHEMICAL- METALS & ALLOYS	Carbon Steel Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel	MOLYBDENUM	ASTM E415
23	CHEMICAL- METALS & ALLOYS	Carbon Steel Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel	NICKEL	ASTM E415
24	CHEMICAL- METALS & ALLOYS	Carbon Steel Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel	PHOSPHORUS	ASTM E415
25	CHEMICAL- METALS & ALLOYS	Carbon Steel Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel	SILICON	ASTM E415
26	CHEMICAL- METALS & ALLOYS	Carbon Steel Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel	SULPHUR	ASTM E415
27	CHEMICAL- METALS & ALLOYS	Carbon Steel Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel	VANADIUM	ASTM E415
28	CHEMICAL- METALS & ALLOYS	COPPER BASE METALS AND ALLOY(Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	COPPER BY XRF METHOD	ASTM E-1476-04
29	CHEMICAL- METALS & ALLOYS	COPPER BASE METALS AND ALLOY(Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	IRON BY XRF METAL	ASTM E1476-04
30	CHEMICAL- METALS & ALLOYS	COPPER BASE METALS AND ALLOY(Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	TIN BY XRF METHOD	ASTM E-1476-04
31	CHEMICAL- METALS & ALLOYS	COPPER BASE METALS AND ALLOYS(Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	LEAD BY XRF METHOD	ASTM E1476-04
32	CHEMICAL- METALS & ALLOYS	COPPER BASE METALS AND ALLOYS(Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	NICKEL BY XRF METHOD	ASTM E1476-04
33	CHEMICAL- METALS & ALLOYS	COPPER BASE METALS AND ALLOYS(Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	ZINC BY XRF METHOD	ASTM E1476-04
34	CHEMICAL- METALS & ALLOYS	Copper or Copper Alloy Rolled bars, Plates, Sheets, Coils, Wires, Tubes, Castings and Shapes	IRON	BS EN 15079
35	CHEMICAL- METALS & ALLOYS	Copper or Copper Alloy Rolled bars, Plates, Sheets, Coils, Wires, Tubes, Castings and Shapes	LEAD	BS EN 15079
36	CHEMICAL- METALS & ALLOYS	Copper or Copper Alloy Rolled bars, Plates, Sheets, Coils, Wires, Tubes, Castings and Shapes	MANGANESE	BS EN 15079

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37	CHEMICAL- METALS & ALLOYS	Copper or Copper Alloy Rolled bars, Plates, Sheets, Coils, Wires, Tubes, Castings and Shapes	NICKEL	BS EN 15079
38	CHEMICAL- METALS & ALLOYS	Copper or Copper Alloy Rolled bars, Plates, Sheets, Coils, Wires, Tubes, Castings and Shapes	PHOSPHOROUS	BS EN 15079
39	CHEMICAL- METALS & ALLOYS	Copper or Copper Alloy Rolled bars, Plates, Sheets, Coils, Wires, Tubes, Castings and Shapes	SILICON	BS EN 15079
40	CHEMICAL- METALS & ALLOYS	Copper or Copper Alloy Rolled bars, Plates, Sheets, Coils, Wires, Tubes, Castings and Shapes	TIN	BS EN 15079
41	CHEMICAL- METALS & ALLOYS	Copper or Copper Alloy Rolled bars, Plates, Sheets, Coils, Wires, Tubes, Castings and Shapes	ZINC	BS EN 15079
42	CHEMICAL- METALS & ALLOYS	Copper or Copper Alloy Rolled bars, Plates, Sheets, Coils, Wires, Tubes, Castings and Shapes	ALUMINIUM	BS EN 15079
43	CHEMICAL- METALS & ALLOYS	Fe BASE METALS AND ALLOYS (Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	CHROMIUM BY XRF METHOD	ASTM E1476-04
44	CHEMICAL- METALS & ALLOYS	Fe BASE METALS AND ALLOYS (Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	COPPER BY XRF METHOD	ASTM E1476-04
45	CHEMICAL- METALS & ALLOYS	Fe BASE METALS AND ALLOYS (Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	MANGANESE BY XRF METHOD	ASTM E1476-04
46	CHEMICAL- METALS & ALLOYS	Fe BASE METALS AND ALLOYS (Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	MOLYBDENUM BY XRF METHOD	ASTM E1476-04
47	CHEMICAL- METALS & ALLOYS	Fe BASE METALS AND ALLOYS (Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	NICKEL BY XRF METHOD	ASTM E1476-04
48	CHEMICAL- METALS & ALLOYS	Fe BASE METALS AND ALLOYS (Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	VANADIUM BY XRF METHOD	ASTM E1476-04
49	CHEMICAL- METALS & ALLOYS	Fe BASE METALS AND ALLOYS(Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	CHROMIUM BY XRF METHOD	ASTM E1476-04
50	CHEMICAL- METALS & ALLOYS	Fe BASE METALS AND ALLOYS(Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	COPPER BY XRF METHOD	ASTM E1476-04
51	CHEMICAL- METALS & ALLOYS	Fe BASE METALS AND ALLOYS(Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	MANGANESE BY XRF METHOD	ASTM E1476-04
52	CHEMICAL- METALS & ALLOYS	Fe BASE METALS AND ALLOYS(Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	MOLYBDENUM BY XRF METHOD	ASTM E1476-04
53	CHEMICAL- METALS & ALLOYS	Fe BASE METALS AND ALLOYS(Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	NICKEL BY XRF METHOD	ASTM E1476-04
54	CHEMICAL- METALS & ALLOYS	Fe BASE METALS AND ALLOYS(Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	NIOBIUM BY XRF METHOD	ASTM E1476-04
55	CHEMICAL- METALS & ALLOYS	Fe BASE METALS AND ALLOYS(Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	TITANIUM BY XRF METHOD	ASTM E1476-04

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56	CHEMICAL- METALS & ALLOYS	Fe BASE METALS AND ALLOYS(Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	VANADIUM BY XRF METHOD	ASTM E1476-04
57	CHEMICAL- METALS & ALLOYS	NICKEL BASE METALS AND ALLOYS (Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	COBALT BY XRF METHOD	ASTM E1476-04
58	CHEMICAL- METALS & ALLOYS	NICKEL BASE METALS AND ALLOYS (Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	COPPER BY XRF METHOD	ASTM E1476-04
59	CHEMICAL- METALS & ALLOYS	NICKEL BASE METALS AND ALLOYS (Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	IRON BY XRF METHOD	ASTM E1476-04
60	CHEMICAL- METALS & ALLOYS	NICKEL BASE METALS AND ALLOYS (Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	MANGANESE BY XRF METHOD	ASTM E1476-04
61	CHEMICAL- METALS & ALLOYS	NICKEL BASE METALS AND ALLOYS (Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	TITANIUM BY XRF METHOD	ASTM E1476-04
62	CHEMICAL- METALS & ALLOYS	NICKEL BASE METALS AND ALLOYS(Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	CHROMIUM BY XRF METHOD	ASTM E1476-04
63	CHEMICAL- METALS & ALLOYS	NICKEL BASE METALS AND ALLOYS(Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	MOLYBDENUM BY XRF METHOD	ASTM E1476-04
64	CHEMICAL- METALS & ALLOYS	NICKEL BASE METALS AND ALLOYS(Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	NICKEL BY XRF METHOD	ASTM E1476-04
65	CHEMICAL- METALS & ALLOYS	NICKEL BASE METALS AND ALLOYS(Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	NIOBIUM BY XRF METHOD	ASTM E1476-04
66	CHEMICAL- METALS & ALLOYS	Stainless Steel Bars, Plates, Sheets, Wires, Tubes, Castings, Shapes, Forgings and Pipes	BORON	IRC/SOP/01
67	CHEMICAL- METALS & ALLOYS	Stainless Steel Bars, Plates, Sheets, Wires, Tubes, Castings, Shapes, Forgings and Pipes	CARBON	ASTM E1086
68	CHEMICAL- METALS & ALLOYS	Stainless Steel Bars, Plates, Sheets, Wires, Tubes, Castings, Shapes, Forgings and Pipes	CARBON	IS 9879
69	CHEMICAL- METALS & ALLOYS	Stainless Steel Bars, Plates, Sheets, Wires, Tubes, Castings, Shapes, Forgings and Pipes	CHROMIUM	ASTM E1086
70	CHEMICAL- METALS & ALLOYS	Stainless Steel Bars, Plates, Sheets, Wires, Tubes, Castings, Shapes, Forgings and Pipes	CHROMIUM	IS 9879
71	CHEMICAL- METALS & ALLOYS	Stainless Steel Bars, Plates, Sheets, Wires, Tubes, Castings, Shapes, Forgings and Pipes	COPPER	ASTM E1086
72	CHEMICAL- METALS & ALLOYS	Stainless Steel Bars, Plates, Sheets, Wires, Tubes, Castings, Shapes, Forgings and Pipes	COPPER	IS 9879
73	CHEMICAL- METALS & ALLOYS	Stainless Steel Bars, Plates, Sheets, Wires, Tubes, Castings, Shapes, Forgings and Pipes	MANGANESE	ASTM E1086
74	CHEMICAL- METALS & ALLOYS	Stainless Steel Bars, Plates, Sheets, Wires, Tubes, Castings, Shapes, Forgings and Pipes	MANGANESE	IS 9879

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75	CHEMICAL- METALS & ALLOYS	Stainless Steel Bars, Plates, Sheets, Wires, Tubes, Castings, Shapes, Forgings and Pipes	MOLYBDENUM	ASTM E1086
76	CHEMICAL- METALS & ALLOYS	Stainless Steel Bars, Plates, Sheets, Wires, Tubes, Castings, Shapes, Forgings and Pipes	MOLYBDENUM	IS 9879
77	CHEMICAL- METALS & ALLOYS	Stainless Steel Bars, Plates, Sheets, Wires, Tubes, Castings, Shapes, Forgings and Pipes	NICKEL	ASTM E1086
78	CHEMICAL- METALS & ALLOYS	Stainless Steel Bars, Plates, Sheets, Wires, Tubes, Castings, Shapes, Forgings and Pipes	NICKEL	IS 9879
79	CHEMICAL- METALS & ALLOYS	Stainless Steel Bars, Plates, Sheets, Wires, Tubes, Castings, Shapes, Forgings and Pipes	NITROGEN	IRC/SOP/01
80	CHEMICAL- METALS & ALLOYS	Stainless Steel Bars, Plates, Sheets, Wires, Tubes, Castings, Shapes, Forgings and Pipes	PHOSPHOROUS	IS 9879
81	CHEMICAL- METALS & ALLOYS	Stainless Steel Bars, Plates, Sheets, Wires, Tubes, Castings, Shapes, Forgings and Pipes	PHOSPHORUS	ASTM E1086
82	CHEMICAL- METALS & ALLOYS	Stainless Steel Bars, Plates, Sheets, Wires, Tubes, Castings, Shapes, Forgings and Pipes	SILICON	ASTM E1086
83	CHEMICAL- METALS & ALLOYS	Stainless Steel Bars, Plates, Sheets, Wires, Tubes, Castings, Shapes, Forgings and Pipes	SILICON	IS 9879
84	CHEMICAL- METALS & ALLOYS	Stainless Steel Bars, Plates, Sheets, Wires, Tubes, Castings, Shapes, Forgings and Pipes	SULPHUR	ASTM E1086
85	CHEMICAL- METALS & ALLOYS	Stainless Steel Bars, Plates, Sheets, Wires, Tubes, Castings, Shapes, Forgings and Pipes	SULPHUR	IS 9879
86	CHEMICAL- METALS & ALLOYS	Stainless Steel Bars, Plates, Sheets, Wires, Tubes, Castings, Shapes, Forgings and Pipes	TITANIUM	IRC/SOP/01
87	CHEMICAL- METALS & ALLOYS	Tool Steel Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel	CARBON	IRC/SOP/02
88	CHEMICAL- METALS & ALLOYS	Tool Steel Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel	CHROMIUM	IRC/SOP/02
89	CHEMICAL- METALS & ALLOYS	Tool Steel Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel	COPPER	IRC/SOP/02
90	CHEMICAL- METALS & ALLOYS	Tool Steel Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel	MANGANESE	IRC/SOP/02
91	CHEMICAL- METALS & ALLOYS	Tool Steel Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel	MOLYBDENUM	IRC/SOP/02
92	CHEMICAL- METALS & ALLOYS	Tool Steel Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel	NICKEL	IRC/SOP/02
93	CHEMICAL- METALS & ALLOYS	Tool Steel Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel	NIOBIUM	IRC/SOP/02

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94	CHEMICAL- METALS & ALLOYS	Tool Steel Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel	PHOSPHORUS	IRC/SOP/02
95	CHEMICAL- METALS & ALLOYS	Tool Steel Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel	SILICON	IRC/SOP/02
96	CHEMICAL- METALS & ALLOYS	Tool Steel Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel	SULPHUR	IRC/SOP/02
97	CHEMICAL- METALS & ALLOYS	Tool Steel Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel	VANADIUM	IRC/SOP/02
98	CHEMICAL- METALS & ALLOYS	Zinc or Zinc Alloy Rolled bars, Plates, Sheets, Coils, Wires, Tubes, Castings and Shapes	CADMIUM	IS2599
99	CHEMICAL- METALS & ALLOYS	Zinc or Zinc Alloy Rolled bars, Plates, Sheets, Coils, Wires, Tubes, Castings and Shapes	COPPER	IS 2599
100	CHEMICAL- METALS & ALLOYS	Zinc or Zinc Alloy Rolled bars, Plates, Sheets, Coils, Wires, Tubes, Castings and Shapes	IRON	IS2599
101	CHEMICAL- METALS & ALLOYS	Zinc or Zinc Alloy Rolled bars, Plates, Sheets, Coils, Wires, Tubes, Castings and Shapes	LEAD	IS2599
102	CHEMICAL- METALS & ALLOYS	Zinc or Zinc Alloy Rolled bars, Plates, Sheets, Coils, Wires, Tubes, Castings and Shapes	TIN	IS2599
103	MECHANICAL- MECHANICAL PROPERTIES OF METALS	NON-FERROUS METALS AND ALLOYS PLATE, SHEET, ROD, CASTINGS & FORGINGS, TUBES, PIPES	ROCKWELL HARDNESS HRBW (1/16 " dia ball, 100 kgf load)	ASTM E18
104	MECHANICAL- MECHANICAL PROPERTIES OF METALS	NON-FERROUS METALS AND ALLOYS PLATE, SHEET, ROD, CASTINGS & FORGINGS, TUBES, PIPES	ROCKWELL HARDNESS HRBW (1/16 " dia ball, 100 kgf load)	IS 1586 PART 1
105	MECHANICAL- MECHANICAL PROPERTIES OF METALS	NON-FERROUS METALS AND ALLOYS PLATE, SHEET, ROD, CASTINGS & FORGINGS, TUBES, PIPES	VICKERS HARDNESS HV10	IS 1501 PART1
106	MECHANICAL- MECHANICAL PROPERTIES OF METALS	NON-FERROUS METALS AND ALLOYS PLATE, SHEET,ROD, CASTINGS & FORGINGS	BRINELL HARDNESS (10 mm dia. Ball, 500 kgf and 1500 kgf Load)	ASTM E10
107	MECHANICAL- MECHANICAL PROPERTIES OF METALS	NON-FERROUS METALS AND ALLOYS PLATE, SHEET,ROD, CASTINGS & FORGINGS, TUBES AND PIPES	VICKERS HARDNESS HV10	ASTM E92
108	MECHANICAL- MECHANICAL PROPERTIES OF METALS	NON-FERROUS METALS AND ALLOYS PLATES, SHEETS, RODS, CASTING AND FORGINGS	MEASUREMENT OF REDUCTION IN AREA IN TENSION TEST.	ASTM E8
109	MECHANICAL- MECHANICAL PROPERTIES OF METALS	NON-FERROUS METALS AND ALLOYS PLATES, SHEETS, RODS, CASTINGS AND FORGINGS	MEASUREMENT OF ELONGATION IN TENSION TEST.	ASTM E8

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110	MECHANICAL-MECHANICAL PROPERTIES OF METALS	NON-FERROUS METALS AND ALLOYS PLATES,SHEETS,RODS, CASTINGS AND FORGINGS	ULTIMATE STRESS IN TENSION TEST	ASTM E8
111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	NON-FERROUS METALS AND ALLOYS PLATES,SHEETS,RODS, CASTINGS AND FORGINGS	ULTIMATE STRESS IN TENSION TEST	IS:1608 Part 1
112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	NON-FERROUS METALS AND ALLOYS PLATES,SHEETS,RODS,CASTINGS AND FORGINGS	MEASUREMENT OF ELONGATION IN TENSILE TEST	IS 1608 Part 1
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	NON-FERROUS METALS AND ALLOYS WELDED METALLIC MATERIAL FOR PLATES, PIPES AND TUBES	TRANSVERSE SIDE BEND TEST MANDREL SIZE - 6, 8, 10, 12, 14, 16, 18, 20, 24, 28, 30, 32, 36, 38, 40, 44, 48, 50, 52, 60, 70, 80 AND 90 MM.	IS 3600 PART 6
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel and Alloy steel - Bolts and Studs	TENSILE PROOF LOAD TEST	IS 1367 (PART 3)
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel and Alloy Steel - Threaded nuts	PROOF LOAD TEST. IN COMPRESSION BY AXIAL COMPRESSIVE LOADING	IS 1367(PART 6)
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	COPPER or COPPER ALLOYS PLATE, SHEET, ROD, CASTINGS & FORGINGS, TUBES, PIPES	ROCKWELL HARDNESS HRBW (1/16 " dia ball, 100 kgf load)	IS 1586 PART 1
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	COPPER or COPPER ALLOYS PLATE, SHEET, ROD, CASTINGS & FORGINGS, TUBES, PIPES	VICKERS HARDNESS HV10	ASTM E 92
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	COPPER or COPPER ALLOYS PLATE, SHEET, ROD, CASTINGS & FORGINGS, TUBES, PIPES	VICKERS HARDNESS HV10	IS 1501 PART1
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	COPPER or COPPER ALLOYS PLATE, SHEET, ROD, CASTINGS & FORGINGS, TUBES, PIPES	VICKERS HARDNESS HV5	ASTM E 92
120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	COPPER or COPPER ALLOYS PLATE, SHEET, ROD, CASTINGS & FORGINGS, TUBES, PIPES	VICKERS HARDNESS HV5	IS:1501 Part 1
121	MECHANICAL-MECHANICAL PROPERTIES OF METALS	COPPER or COPPER ALLOYS PLATES, SHEETS, RODS, CASTINGS AND FORGINGS	ULTIMATE STRESS IN TENSION TEST	IS:1608 Part 1
122	MECHANICAL-MECHANICAL PROPERTIES OF METALS	COPPER or COPPER ALLOYS PLATES, SHEETS, RODS, CASTINGS AND FORGINGS	MEASUREMENT OF ELONGATION IN TENSION TEST.	ASTM E8

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123	MECHANICAL-MECHANICAL PROPERTIES OF METALS	COPPER or COPPER ALLOYS PLATES, SHEETS, RODS, CASTINGS AND FORGINGS	MEASUREMENT OF REDUCTION IN AREA IN TENSION TEST.	ASTM E 8
124	MECHANICAL-MECHANICAL PROPERTIES OF METALS	COPPER or COPPER ALLOYS PLATES, SHEETS, RODS, CASTINGS AND FORGINGS	MEASUREMENT OF REDUCTION IN AREA IN TENSION TEST.	ASTM E8
125	MECHANICAL-MECHANICAL PROPERTIES OF METALS	COPPER or COPPER ALLOYS PLATES, SHEETS, RODS, CASTINGS AND FORGINGS	YIELD STRESS & PROOF STRESS IN TENSION TEST	ASTM E8
126	MECHANICAL-MECHANICAL PROPERTIES OF METALS	COPPER or COPPER ALLOYS PLATES, SHEETS, RODS, CASTINGS AND FORGINGS	YIELD STRESS & PROOF STRESS IN TENSION TEST	IS:1608 Part 1
127	MECHANICAL-MECHANICAL PROPERTIES OF METALS	COPPER or COPPER ALLOYS PLATES,SHEETS,RODS TOR STEEL,TMT BARS,CAST IRON,STEEL CASTINGS AND FORGINGS.	MEASUREMENT OF REDUCTION IN AREA IN TENSION TEST.	IS 1608 PART 1
128	MECHANICAL-MECHANICAL PROPERTIES OF METALS	COPPER or COPPER ALLOYS PLATES,SHEETS,RODS,CASTINGS AND FORGINGS.	MEASUREMENT OF ELONGATION IN TENSILE TEST	IS 1608 Part 1
129	MECHANICAL-MECHANICAL PROPERTIES OF METALS	COPPER or COPPER ALLOYS WELDED PLATE, PIPE AND TUBES	TRANSVERSE ROOT AND FACE BEND TEST MANDREL SIZE - 6, 8, 10, 12, 14, 16, 18, 20, 24, 28, 30, 32, 36, 38, 40, 44, 48, 50, 52, 60, 70, 80 AND 90 MM	IS 3600 PART 5
130	MECHANICAL-MECHANICAL PROPERTIES OF METALS	COPPER or COPPER ALLOYS WELDED PLATE, PIPE AND TUBES	TRANSVERSE SIDE BEND TEST MANDREL SIZE - 6, 8, 10, 12, 14, 16, 18, 20, 24, 28, 30, 32, 36, 38, 40, 44, 48, 50, 52, 60, 70, 80 AND 90 MM.	IS 3600 PART 6
131	MECHANICAL-MECHANICAL PROPERTIES OF METALS	COPPER or COPPER ALLOYS WELDED PLATES & PIPES, TUBE JOINTS	ULTIMATE STRESS IN TRANSVERSE TENSILE TEST.	AWS B 4.0
132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	COPPER or COPPER ALLOYS WELDED PLATES & PIPES, TUBES	ULTIMATE STRESS IN TRANSVERSE TENSILE TEST.	IS 3600 PART 3
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS AND ALLOYS ROLLED BAR,PLATES,SHEET,PIPES,FORGINGS,STEEL CASTINGS,WELDED/FABRICATED COMPONENTS.	CHARPY V Notch Impact Test at room temperature, (+) 50 ° C TO (-)101° C and (-) 196° C	ASTM E23
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS AND ALLOYS - PLATES AND BARS	HOT TENSILE TEST UPTO 800 °C	EN 6892-2

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135	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS AND ALLOYS - Plates and Sheets	BEND TEST, MANDREL SIZE-4,8,10,12,14,16,18,20,24,28,30,32,36,40,44,48,50,52,60,70, 80 and 90mm	ISO 7438
136	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS AND ALLOYS BOLT	TENSILE PROOF LOAD TEST BY AXIAL TENSILE LOADING	ASME SA 370
137	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS AND ALLOYS BUTT WELDED PLATE	ULTIMATE STRESS IN LONGITUDINAL TENSILE TEST	IS 3600 PART 4
138	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS AND ALLOYS FOR PIPES AND TUBES	FLATTENING TEST UNDER COMPRESSIVE LOAD.	ASME SA - 370
139	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS AND ALLOYS FOR PIPES AND TUBES	FLATTENING TEST UNDER COMPRESSIVE LOAD.	ASME SA - 450
140	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS AND ALLOYS FOR PIPES AND TUBES	FLATTENING TEST UNDER COMPRESSIVE LOAD.	ASME SA - 530
141	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS AND ALLOYS FOR PIPES AND TUBES	FLATTENING TEST UNDER COMPRESSIVE LOAD.	IS 2328
142	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS AND ALLOYS NUT	PROOF LOAD TEST IN COMPRESSION BY AXIAL COMPRESSIVE LOADING	ASME SA 370
143	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS AND ALLOYS ROLLED BAR,PLATES,SHEET,PIPES,FORGINGS,STEEL CASTINGS,WELDED/FABRICATED COMPONENTS.	CHARPY V Notch Impact Test at room temperature, (+) 50 ° C TO (-)101° C and (-) 196° C	IS 1757
144	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS AND ALLOYS TUBES	FLARING TEST	ASTM A370
145	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS AND ALLOYS WELDED MATERIALS FOR PLATES TO PLATE AND PLATE TO PIPE	FRACTURE (Fillet weld break) TEST	AWS B 4.0
146	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS AND ALLOYS WELDED PLATE	YIELD STRESS & PROOF STRESS IN ALL WELD TENSION TEST	AWS B 4.0
147	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS AND ALLOYS WELDED PLATE .	MEASUREMENT OF ELONGATION IN TENSION TEST.	AWS B4.0

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148	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS AND ALLOYS WELDED PLATE .	MEASUREMENT OF REDUCTION IN AREA IN TENSION TEST.	AWS B4.0
149	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS AND ALLOYS WELDED PLATE .	ULTIMATE STRESS IN ALL WELD TENSION TEST	AWS B 4.0
150	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS AND ALLOYS WELDED PLATE TO PLATE , PLATE TO PIPE AND PLATE TO TUBE	FRACTURE TEST COMPRESSIVE LOADING	ASME SEC IX QW-182
151	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS AND ALLOYS WELDED PLATE, PIPE AND TUBES	CHARPY V Notch Impact Test at room temperature, (+) 50 ° C TO (-)101° C and (-) 196° C	IS 3600 PART 2
152	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS AND ALLOYS WELDED PLATE, PIPE AND TUBES	CHARPY V Notch Impact Test at room temperature, (+) 50 ° C TO (-)101° C and (-) 196° C	ISO 148-1
153	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS AND ALLOYS WELDED PLATE, PIPE AND TUBES	GUIDED BEND TEST(TRANSVERSE ROOT & FACE BEND),TRANSVERSE SIDE BEND. MANDREL SIZE - 6, 8, 10, 12, 14, 16, 18, 20, 24, 28, 30, 32, 36, 38, 40, 44, 48, 50, 52, 60, 70, 80 AND 90 MM	AWS B 4.0
154	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS AND ALLOYS WELDED PLATE, PIPE AND TUBES	NICK BREAK TEST BY COMPRESSIVE LOADING	IS 3600 PART 8
155	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS AND ALLOYS WELDED PLATE, PIPE AND TUBES	TRANSVERSE ROOT AND FACE BEND TEST	IS 3600 PART 5
156	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS AND ALLOYS WELDED PLATE, PIPE AND TUBES	TRANSVERSE SIDE BEND TEST	IS 3600 PART 6
157	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS AND ALLOYS WELDED PLATE, PIPE AND TUBES	ULTIMATE STRESS IN TRANSVERSE TENSILE TEST	IS 3600 PART 3
158	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS AND ALLOYS WELDED PLATES, PIPES & TUBES	GUIDED BEND TEST(TRANSVERSE ROOT & FACE BEND),TRANSVERSE SIDE BEND. MANDREL SIZE - 6, 8, 10, 12, 14, 16, 18, 20, 24, 28, 30, 32, 36, 38, 40, 44, 48, 50, 52, 60, 70, 80 AND 90 MM	ASTM E190

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159	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS AND ALLOYS WELDED PLATES, PIPES AND TUBES	BEND TEST, MANDREL SIZE-38.1,50.8 and 63.5 MM	AWS B 4.0
160	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS AND ALLOYS WELDED PLATES, PIPES AND TUBES	ULTIMATE STRESS IN TRANSVERSE TENSION TEST	AWS B 4.0
161	MECHANICAL-MECHANICAL PROPERTIES OF METALS	HIGH STRENGTH DEFORMED STEEL BAR OR TMT BAR	RE-BEND, MANDREL SIZE- 20, 25, 30, 40, 50, 84, 96, 112, 140, 175, 196, 224, 252 AND 280 MM	IS 1786
162	MECHANICAL-MECHANICAL PROPERTIES OF METALS	NON-FERROUS METALS AND ALLOYS PLATE, SHEET,ROD, CASTINGS & FORGINGS	BRINELL HARDNESS (10 mm dia. Ball, 500 kgf and 1500 kgf Load)	IS1500 PART1
163	MECHANICAL-MECHANICAL PROPERTIES OF METALS	NON-FERROUS METALS AND ALLOYS PLATE, SHEET,ROD, CASTINGS & FORGINGS, TUBES AND PIPES	VICKERS HARDNESS HV5	IS 1501 PART1
164	MECHANICAL-MECHANICAL PROPERTIES OF METALS	NON-FERROUS METALS AND ALLOYS PLATE, SHEET,ROD, CASTINGS & FORGINGS, TUBES AND PIPES.	VICKERS HARDNESS AT HV 5	ASTM E92
165	MECHANICAL-MECHANICAL PROPERTIES OF METALS	NON-FERROUS METALS AND ALLOYS PLATES,SHEETS,RODS, CASTINGS AND FORGINGS	MEASUREMENT OF REDUCTION IN AREA IN TENSION TEST.	ASTM E8
166	MECHANICAL-MECHANICAL PROPERTIES OF METALS	NON-FERROUS METALS AND ALLOYS PLATES,SHEETS,RODS, CASTINGS AND FORGINGS	MEASUREMENT OF REDUCTION IN AREA IN TENSION TEST.	IS:1608 Part 1
167	MECHANICAL-MECHANICAL PROPERTIES OF METALS	NON-FERROUS METALS AND ALLOYS PLATES,SHEETS,RODS, CASTINGS AND FORGINGS	YIELD STRESS & PROOF STRESS IN TENSION TEST	ASTM E8
168	MECHANICAL-MECHANICAL PROPERTIES OF METALS	NON-FERROUS METALS AND ALLOYS PLATES,SHEETS,RODS, CASTINGS AND FORGINGS	YIELD STRESS & PROOF STRESS IN TENSION TEST.	IS:1608 Part 1
169	MECHANICAL-MECHANICAL PROPERTIES OF METALS	NON-FERROUS METALS AND ALLOYS PLATES,SHEETS,RODS, CASTINGS AND FORGINGS.	MEASUREMENT OF REDUCTION IN AREA IN TENSION TEST.	IS 1608 PART 1
170	MECHANICAL-MECHANICAL PROPERTIES OF METALS	NON-FERROUS METALS AND ALLOYS WELDED METALLIC MATERIAL FOR PLATES, PIPES AND TUBES	TRANSVERSE ROOT AND FACE BEND TEST MANDREL SIZE - 6, 8, 10, 12, 14, 16, 18, 20, 24, 28, 30, 32, 36, 38, 40, 44, 48, 50, 52, 60, 70, 80 AND 90 MM.	IS 3600 PART 5
171	MECHANICAL-MECHANICAL PROPERTIES OF METALS	NON-FERROUS METALS AND ALLOYS WELDED METALLIC MATERIALS FOR PLATE, PIPE AND TUBES	ULTIMATE STRESS IN TRANSVERSE TENSILE TEST.	AWS B 4.0

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172	MECHANICAL-MECHANICAL PROPERTIES OF METALS	NON-FERROUS METALS AND ALLOYS WELDED METALLIC MATERIALS FOR PLATE, PIPE AND TUBES	ULTIMATE STRESS IN TRANSVERSE TENSILE TEST.	IS 3600 PART 3
173	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PLATE	THROUGH THICKNESS TENSILE TEST	ASTM A770
174	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PLATE, SHEET, ROD, TOR STEEL, STEEL CASTINGS & FORGINGS, TUBES, PIPES	BRINELL HARDNESS (10 mm dia. Ball, 3000 kgf Load)	ISO 6506-1
175	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PLATE, SHEET, ROD, TOR STEEL, STEEL CASTINGS & FORGINGS, TUBES, PIPES	ROCKWELL HARDNESS HRBW (1/16 " dia ball, 100 kgf load)	ASTM E18
176	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PLATE, SHEET, ROD, TOR STEEL, STEEL CASTINGS & FORGINGS, TUBES, PIPES	ROCKWELL HARDNESS HRBW (1/16 " dia ball, 100 kgf load)	ISO 6508 - 1
177	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PLATE, SHEET, ROD, TOR STEEL, STEEL CASTINGS & FORGINGS, TUBES, PIPES	ROCKWELL HARDNESS HRBW (1/16 " dia ball, 100 kgf load)	IS 1586 PART 1
178	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PLATE, SHEET, ROD, TOR STEEL, STEEL CASTINGS & FORGINGS, TUBES, PIPES	ROCKWELL HARDNESS HRC (Diamond penetrator, 150 kgf load)	ASTM E18
179	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PLATE, SHEET, ROD, TOR STEEL, STEEL CASTINGS & FORGINGS, TUBES, PIPES	ROCKWELL HARDNESS HRC (Diamond penetrator, 150 kgf load)	IS 1586 PART 1
180	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PLATE, SHEET, ROD, TOR STEEL, STEEL CASTINGS & FORGINGS, TUBES, PIPES	ROCKWELL HARDNESS HRC DIAMOND PENETRATOR 150 Kgf LOAD	ISO 6508-1
181	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PLATE, SHEET, ROD, TOR STEEL, STEEL CASTINGS & FORGINGS, TUBES, PIPES	VICKERS HARDNESS HV10	ASTM E92
182	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PLATE, SHEET, ROD, TOR STEEL, STEEL CASTINGS & FORGINGS, TUBES, PIPES	VICKERS HARDNESS HV10	IS 1501 Part 1
183	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PLATE, SHEET, ROD, TOR STEEL, STEEL CASTINGS & FORGINGS, TUBES, PIPES	VICKERS HARDNESS HV5	ASTM E92
184	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PLATE, SHEET, ROD, TOR STEEL, STEEL CASTINGS & FORGINGS, TUBES, PIPES	VICKERS HARDNESS TEST AT HV 10	ISO 6507 - 1
185	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PLATE, SHEET,ROD,TOR STEEL, STEEL CASTINGS & FORGINGS	BRINELL HARDNESS (10 mm dia. Ball, 3000 kgf Load)	ASTM E10

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186	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PLATE, SHEET,ROD,TOR STEEL, STEEL CASTINGS & FORGINGS	BRINELL HARDNESS (10 mm dia. Ball, 3000 kgf Load)	IS 1500 Part 1
187	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PLATE, SHEET,ROD,TOR STEEL, STEEL CASTINGS & FORGINGS	VICKERS HARDNESS HV30	ASTM E92
188	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PLATE, SHEET,ROD,TOR STEEL, STEEL CASTINGS & FORGINGS, TUBES AND PIPES	VICKERS HARDNESS HV5	IS 1501 PART 1
189	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PLATE, SHEET,ROD,TOR STEEL, STEEL CASTINGS & FORGINGS, TUBES, PIPES	VICKERS HARDNESS HV30	IS 1501 Part - 1
190	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PLATE,SHEET,ROD,TOR STEEL,STEEL CASTINGS & FORGINGS	BEND TEST, MANDREL SIZE-4,8,10,12,14,16,18,20,24,28,30,32,36,40,44,48,50,52,60,70, 80 and 90mm	IS 1599
191	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PLATE,SHEET,ROD,TOR STEEL,STEEL CASTINGS & FORGINGS.	BEND TEST, MANDREL SIZE-4,8,10,12,14,16,18,20,24,28,30,32,36,40,44,48,50,52,60,70, 80 and 90mm	ASTM E290
192	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PLATES,SHEETS,RODS TOR STEEL,TMT BARS,CAST IRON,STEEL CASTINGS AND FORGINGS.	MEASUREMENT OF ELONGATION IN TENSION TEST.	ASTM E21
193	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PLATES,SHEETS,RODS TOR STEEL,TMT BARS,CAST IRON,STEEL CASTINGS AND FORGINGS.	MEASUREMENT OF ELONGATION IN TENSION TEST.	ASTM E8
194	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PLATES,SHEETS,RODS TOR STEEL,TMT BARS,CAST IRON,STEEL CASTINGS AND FORGINGS.	MEASUREMENT OF ELONGATION IN TENSION TEST.	IS 1608 Part 1
195	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PLATES,SHEETS,RODS TOR STEEL,TMT BARS,CAST IRON,STEEL CASTINGS AND FORGINGS.	MEASUREMENT OF REDUCTION IN AREA IN TENSION TEST.	ASTM E21
196	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PLATES,SHEETS,RODS TOR STEEL,TMT BARS,CAST IRON,STEEL CASTINGS AND FORGINGS.	MEASUREMENT OF REDUCTION IN AREA IN TENSION TEST.	ASTM E8
197	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PLATES,SHEETS,RODS TOR STEEL,TMT BARS,CAST IRON,STEEL CASTINGS AND FORGINGS.	MEASUREMENT OF REDUCTION IN AREA IN TENSION TEST.	IS 1608 Part 1
198	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PLATES,SHEETS,RODS TOR STEEL,TMT BARS,CAST IRON,STEEL CASTINGS AND FORGINGS.	ULTIMATE STRESS IN TENSION TEST.	ASTM E8

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199	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PLATES,SHEETS,RODS TOR STEEL,TMT BARS,CAST IRON,STEEL CASTINGS AND FORGINGS.	ULTIMATE STRESS IN TENSION TEST.	IS 1608 Part 1
200	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PLATES,SHEETS,RODS TOR STEEL,TMT BARS,CAST IRON,STEEL CASTINGS AND FORGINGS.	ULTIMATE STRESS UPTO 800 DEG.C TEMP. IN TENSION TEST	ASTM E21
201	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PLATES,SHEETS,RODS TOR STEEL,TMT BARS,CAST IRON,STEEL CASTINGS AND FORGINGS.	YIELD STRESS & PROOF STRESS IN TENSION TEST.	ASTM E8
202	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PLATES,SHEETS,RODS TOR STEEL,TMT BARS,CAST IRON,STEEL CASTINGS AND FORGINGS.	YIELD STRESS & PROOF STRESS IN TENSION TEST.	IS 1608 Part 1
203	MECHANICAL-MECHANICAL PROPERTIES OF METALS	STEEL PLATES,SHEETS,RODS TOR STEEL,TMT BARS,CAST IRON,STEEL CASTINGS AND FORGINGS.	YIELD STRESS UPTO 800 DEG.C TEMP. IN TENSION TEST.	ASTM E21
204	MECHANICAL-METALLOGRAPHY TEST	FERROUS MATERIAL or FERROUS ALLOYS WELDED PLATES, PIPES AND TUBES	MACRO ETCH TEST	IS 3600 PART 9
205	MECHANICAL-METALLOGRAPHY TEST	FERROUS MATERIALS AND ALLOYS	MICRO STRUCTURE EXAMINATION	ASM HANDBOOK VOLUME 9
206	MECHANICAL-METALLOGRAPHY TEST	OTHER NON- FERROUS METALS AND ALLOYS	MICRO STRUCTURE EXAMINATION	ASM HANDBOOK VOLUME 9
207	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials (Castings, Forgings, Welds, Rolled materials)	Magnetic Particle Testing (Yoke, Nonfluorescent, Fluorescent, Wet, Dry)	ASME SEC - V ARTICLE - 7
208	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials (Castings, Forgings, Welds, Rolled materials)	Magnetic Particle Testing (Yoke, Nonfluorescent, Fluorescent, Wet, Dry)	ASME SEC-V ARTICLE 25 SE 709
209	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials (Steel Structure Welds)	Magnetic Particle Testing (Yoke, Nonfluorescent, Fluorescent, Dry, Wet)	AWS D 1.1
210	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials (Welds)	Magnetic Particle Testing (Yoke, Coil, Visible, Fluorescent, Dry, Wet)	BS EN ISO 17638
211	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous and Non ferrous Materials (Welds, Castings, Forgings, Rolled materials)	Liquid penetrant testing (Water washable, Solvent removable, Visible, Fluorescent)	BS EN ISO 3452
212	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous and Non Ferrous materials (castings, Forgings, Welds, Rolled Materials)	Liquid Penetrant Testing (Water washable, Solvent Removable, Visible, Fluorescent)	ASME SEC V ARTICLE 24 SE 165

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
213	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous and Non ferrous Materials (Castings, Forgings, Welds, Rolled Materials)	Liquid Penetrant Testing (Water washable, Solvent Removable, Visible, Fluorescent)	ASME SEC V ARTICLE 6
214	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous and Non Ferrous materials (Castings, Plates, Forgings, Rolled Materials, Pipes, Tubes)	Ultrasonic Thickness measurement (Manual, Contact method)	ASME SEC - V ARTICLE 23 SE 797
215	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous Materials (Castings, Forgings, Rolled Materials)	Ultrasonic Testing (Manual, Contact method)	ASME SEC V ARTICLE 5
216	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous Materials (Plate welds)	Radiography Testing (X-Rays, Ir-192, Film)	IS 1182
217	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous Materials (Rolled Steel plates)	Ultrasonic Testing (Manual, Contact Method)	ASME SEC V ARTICLE 23 SA 435
218	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous Materials (Rolled Steel Plates)	Ultrasonic Testing (Manual, Contact method)	ASME SEC V ARTICLE 23 SA 578
219	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous materials (Steel Castings)	Ultrasonic Testing (Manual, Contact method)	ASME SEC-V ARTICLE 23 SA 609
220	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous Materials (Steel Forgings)	Ultrasonic Testing (Manual, Contact Method)	ASME SEC - V ARTICLE 23 SA : 388
221	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous materials (Steel Structure Welds)	Liquid Penetrant Testing (Water washable, Solvent Removable, Visible, Fluorescent)	AWS D 1.1
222	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous Materials (Steel Structure Welds)	Ultrasonic Testing (Manual, Contact method)	AWS D1.1
223	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous Materials (Welds and Castings)	Radiography Testing (X-rays, Ir-192, Film)	ASME SEC-V ARTICLE-2
224	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous Materials (Welds and Castings)	Radiography Testing (X-ray, Ir-192, Film)	ASME SEC-V ATRICLE 22, SE-94
225	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous Materials (Welds of Pipes and Tubes)	Radiography Testing (X-rays, Ir-192, Film)	IS 4853
226	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous Materials (Welds of Sheets, Pipes and Tubes)	Radiography Testing (X-rays, Ir-192, Film)	IS 2595
227	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous Materials (Welds of Sheets, Pipes and Tubes)	Radiography Testing (X-rays, Ir-192,Film)	EN 1435
228	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous Materials (Welds)	Ultrasonic Testing (Manual, Contact method)	ASME SEC V ARTICLE 4

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Site Facility				
1	CHEMICAL- METALS & ALLOYS	COPPER BASE METALS AND ALLOY(Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	COPPER BY XRF METHOD	ASTM E-1476-04
2	CHEMICAL- METALS & ALLOYS	COPPER BASE METALS AND ALLOY(Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	IRON BY XRF METAL	ASTM E1476-04
3	CHEMICAL- METALS & ALLOYS	COPPER BASE METALS AND ALLOY(Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	TIN BY XRF METHOD	ASTM E-1476-04
4	CHEMICAL- METALS & ALLOYS	COPPER BASE METALS AND ALLOYS(Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	LEAD BY XRF METHOD	ASTM E1476-04
5	CHEMICAL- METALS & ALLOYS	COPPER BASE METALS AND ALLOYS(Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	NICKEL BY XRF METHOD	ASTM E1476-04
6	CHEMICAL- METALS & ALLOYS	COPPER BASE METALS AND ALLOYS(Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	ZINC BY XRF METHOD	ASTM E1476-04
7	CHEMICAL- METALS & ALLOYS	Fe BASE METALS AND ALLOYS (Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	CHROMIUM BY XRF METHOD	ASTM E1476-04
8	CHEMICAL- METALS & ALLOYS	Fe BASE METALS AND ALLOYS (Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	COPPER BY XRF METHOD	ASTM E1476-04
9	CHEMICAL- METALS & ALLOYS	Fe BASE METALS AND ALLOYS (Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	MANGANESE BY XRF METHOD	ASTM E1476-04
10	CHEMICAL- METALS & ALLOYS	Fe BASE METALS AND ALLOYS (Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	MOLYBDENUM BY XRF METHOD	ASTM E1476-04
11	CHEMICAL- METALS & ALLOYS	Fe BASE METALS AND ALLOYS (Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	NICKEL BY XRF METHOD	ASTM E1476-04
12	CHEMICAL- METALS & ALLOYS	Fe BASE METALS AND ALLOYS (Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	VANADIUM BY XRF METHOD	ASTM E1476-04
13	CHEMICAL- METALS & ALLOYS	Fe BASE METALS AND ALLOYS(Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	CHROMIUM BY XRF METHOD	ASTM E1476-04
14	CHEMICAL- METALS & ALLOYS	Fe BASE METALS AND ALLOYS(Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	COPPER BY XRF METHOD	ASTM E1476-04
15	CHEMICAL- METALS & ALLOYS	Fe BASE METALS AND ALLOYS(Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	MANGANESE BY XRF METHOD	ASTM E1476-04
16	CHEMICAL- METALS & ALLOYS	Fe BASE METALS AND ALLOYS(Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	MOLYBDENUM BY XRF METHOD	ASTM E1476-04
17	CHEMICAL- METALS & ALLOYS	Fe BASE METALS AND ALLOYS(Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	NICKEL BY XRF METHOD	ASTM E1476-04
18	CHEMICAL- METALS & ALLOYS	Fe BASE METALS AND ALLOYS(Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	NIOBIUM BY XRF METHOD	ASTM E1476-04

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
19	CHEMICAL- METALS & ALLOYS	Fe BASE METALS AND ALLOYS(Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	TITANIUM BY XRF METHOD	ASTM E1476-04
20	CHEMICAL- METALS & ALLOYS	Fe BASE METALS AND ALLOYS(Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	VANADIUM BY XRF METHOD	ASTM E1476-04
21	CHEMICAL- METALS & ALLOYS	NICKEL BASE METALS AND ALLOYS (Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	COBALT BY XRF METHOD	ASTM E1476-04
22	CHEMICAL- METALS & ALLOYS	NICKEL BASE METALS AND ALLOYS (Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	COPPER BY XRF METHOD	ASTM E1476-04
23	CHEMICAL- METALS & ALLOYS	NICKEL BASE METALS AND ALLOYS (Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	IRON BY XRF METHOD	ASTM E1476-04
24	CHEMICAL- METALS & ALLOYS	NICKEL BASE METALS AND ALLOYS (Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	MANGANESE BY XRF METHOD	ASTM E1476-04
25	CHEMICAL- METALS & ALLOYS	NICKEL BASE METALS AND ALLOYS (Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	TITANIUM BY XRF METHOD	ASTM E1476-04
26	CHEMICAL- METALS & ALLOYS	NICKEL BASE METALS AND ALLOYS(Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	CHROMIUM BY XRF METHOD	ASTM E1476-04
27	CHEMICAL- METALS & ALLOYS	NICKEL BASE METALS AND ALLOYS(Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	MOLYBDENUM BY XRF METHOD	ASTM E1476-04
28	CHEMICAL- METALS & ALLOYS	NICKEL BASE METALS AND ALLOYS(Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	NICKEL BY XRF METHOD	ASTM E1476-04
29	CHEMICAL- METALS & ALLOYS	NICKEL BASE METALS AND ALLOYS(Bars, Plates, Tubes, Castings, Shapes, Forgings and Structure Steel)	NIOBIUM BY XRF METHOD	ASTM E1476-04
30	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials (Castings, Forgings, Welds, Rolled materials)	Magnetic Particle Testing (Yoke, Nonfluorescent, Fluorescent, Wet, Dry)	ASME SEC - V ARTICLE - 7
31	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials (Castings, Forgings, Welds, Rolled materials)	Magnetic Particle Testing (Yoke, Nonfluorescent, Fluorescent, Wet, Dry)	ASME SEC-V ARTICLE 25 SE 709
32	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials (Steel Structure Welds)	Magnetic Particle Testing (Yoke, Nonfluorescent, Fluorescent, Dry, Wet)	AWS D 1.1
33	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials (Welds)	Magnetic Particle Testing (Yoke, Coil, Visible, Fluorescent, Dry, Wet)	BS EN ISO 17638
34	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous and Non ferrous Materials (Welds, Castings, Forgings, Rolled materials)	Liquid penetrant testing (Water washable, Solvent removable, Visible, Fluorescent)	BS EN ISO 3452

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35	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous and Non Ferrous materials (castings, Forgings, Welds, Rolled Materials)	Liquid Penetrant Testing (Water washable, Solvent Removable, Visible, Fluorescent)	ASME SEC V ARTICLE 24 SE 165
36	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous and Non ferrous Materials (Castings, Forgings, Welds, Rolled Materials)	Liquid Penetrant Testing (Water washable, Solvent Removable, Visible, Fluorescent)	ASME SEC V ARTICLE 6
37	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous and Non Ferrous materials (Castings, Plates, Forgings, Rolled Materials, Pipes, Tubes)	Ultrasonic Thickness measurement (Manual, Contact method)	ASME SEC - V ARTICLE 23 SE 797
38	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous Materials (Castings, Forgings, Rolled Materials)	Ultrasonic Testing (Manual, Contact method)	ASME SEC V ARTICLE 5
39	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous Materials (Plate welds)	Radiography Testing (X-Rays, Ir-192, Film)	IS 1182
40	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous Materials (Rolled Steel plates)	Ultrasonic Testing (Manual, Contact Method)	ASME SEC V ARTICLE 23 SA 435
41	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous Materials (Rolled Steel Plates)	Ultrasonic Testing (Manual, Contact method)	ASME SEC V ARTICLE 23 SA 578
42	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous materials (Steel Castings)	Ultrasonic Testing (Manual, Contact method)	ASME SEC-V ARTICLE 23 SA 609
43	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous Materials (Steel Forgings)	Ultrasonic Testing (Manual, Contact Method)	ASME SEC - V ARTICLE 23 SA : 388
44	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous materials (Steel Structure Welds)	Liquid Penetrant Testing (Water washable, Solvent Removable, Visible, Fluorescent)	AWS D 1.1
45	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous Materials (Steel Structure Welds)	Ultrasonic Testing (Manual, Contact method)	AWS D1.1
46	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous Materials (Welds and Castings)	Radiography Testing (X-rays, Ir-192, Film)	ASME SEC-V ARTICLE-2
47	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous Materials (Welds and Castings)	Radiography Testing (X-ray, Ir-192, Film)	ASME SEC-V ATRICLE 22, SE-94
48	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous Materials (Welds of Pipes and Tubes)	Radiography Testing (X-rays, Ir-192, Film)	IS 4853
49	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous Materials (Welds of Sheets, Pipes and Tubes)	Radiography Testing (X-rays, Ir-192, Film)	IS 2595
50	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous Materials (Welds of Sheets, Pipes and Tubes)	Radiography Testing (X-rays, Ir-192,Film)	EN 1435

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51	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous Materials (Welds)	Ultrasonic Testing (Manual, Contact method)	ASME SEC V ARTICLE 4