National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	JINDAL SAW LIMITED (IPU) LABORATORY, SAW PIPE LABORATORY, SAMAGHOGHA, MUNDRA, KUTCH, GUJARAT, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
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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
LOCATION 1-SAW PIPE LABORATORY, SAMAGHOGHA, MUNDRA, KUTCH, GUJARAT, INDIA Permanent Facility				
1	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Low Alloy Steel	Charpy Impact Test (35 °C to -60 °C) ASTM A370	ASTM A370
2	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Low Alloy Steel	Charpy Impact Test (-60°C to 35°C) ASTM E23	ASTM E23
3	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Low Alloy Steel	Drop Weight Tear Test API RP 5L3	API RP 5L3
4	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Low Alloy Steel	Elongation ASTM A370	ASTM A370
5	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Low Alloy Steel	Elongation ASTM E8	ASTM E8
6	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Low Alloy Steel	Full Ring ovalization - Capsis Test OTI 95 635	OTI 95 635
7	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Low Alloy Steel	Full Ring Ovaliztion - Capsis Test BS 8701	BS 8701
8	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Low Alloy Steel	Guided Bend Test ASTM A370	ASTM A370
9	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Low Alloy Steel	Guided Bend Test ASTM E190	ASTM E190
10	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Low Alloy Steel	Guided Bend Test ASTM E290	ASTM E290
11	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Low alloy Steel	Guided Bend Test ISO 5173	ISO 5173
12	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Low Alloy Steel	Guided Bend Test ISO 7438	ISO 7438
13	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Low Alloy Steel	Hydrogen Induced Cracking NACE TM 0284	NACE TM 0284

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14	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Low Alloy Steel	Macro Examination of Pipe Weld ASTM E340	ASTM E340
15	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Low Alloy Steel	Microscopic Examination (Eatching of Specimen) ASTM E407	ASTM E407
16	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Low alloy Steel	Microscopic Examination (For Polishing of Specimen) ASTM E3	ASTM E3
17	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Low Alloy Steel	Microscopic Examination (Grain Size Number- Comparison Method) ASTM E112	ASTM E112
18	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Low Alloy Steel	Sulfide stress corrosion (4 Point Bend Test) ASTM G39	ASTM G39
19	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Low Alloy steel	Sulfide Stress Corrosion Method B-NACE standard Bent-Beam Test NACE TM 0177	NACE TM 0177
20	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Low Alloy Steel	Ultimate tensile Strength ASTM A370	ASTM A370
21	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Low Alloy Steel	Ultimate Tensile Strength ASTM E8	ASTM E8
22	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Low Alloy Steel	Ultimate Tensile Strength ISO 4136	ISO 4136
23	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Low Alloy Steel	Vickers Hardness Test (HV10) ASTM E92	ASTM E92
24	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Low Alloy Steel	Vicker's Hardness Test (HV5) ASTM E92	ASTM E92
25	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Low Alloy Steel	Yield Strength (0.5% Extension under load method) ASTM A370	ASTM A370:
26	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Low Alloy Steel	Yield Strength (0.5% Extension under Load Method) ASTM E8	ASTM E8

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27	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Low Aloy Steel	Sulfide Stress corrosion Cracking Test Method A-NACE standard Tensile NACE TM 0177	NACE TM 0177
28	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Loy Alloy Steel	Hardness Test ISO 6507-1	ISO 6507-1
29	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Chromium-Nickel Steel Clad	Bond Shear Strength ASTM A264	ASTM A264
30	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Charpy Impact Test (-196°C & -60°C to 35°C) ASTM A370	ASTM A370
31	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Charpy Impact Test (-196°C & -60°C to 35°C) ASTM E23	ASTM E23
32	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Charpy Impact Test (-196°C & -60°C to 35°C) ISO 148-1	ISO 148-1
33	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Drift-Expanding Test ISO 8493	ISO 8493
34	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Elongation ASTM A370	ASTM A370
35	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Elongation ASTM E8	ASTM E8
36	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Elongation ISO 6892-1	ISO 6892-1
37	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Ferrite Measurement - FE% (By Ferrite scope) ASTM A800/800M	ASTM A800/800M
38	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Ferrite Measurement - FN (By Ferrite Scope) ASTM A 800/800M	ASTM A 800/800M
39	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Ferrite Measurement (Manual Point Count Method) ASTM E562	ASTM E562

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40	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Flaring test ASTM A370	ASTM A370
41	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Flattening Test ASTM A370	ASTM A370
42	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Guided Bend Test ASME SEC-IX	ASME SEC-IX
43	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Guided Bend Test ASTM A370	ASTM A370
44	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Guided Bend Test ASTM E190	ASTM E190
45	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Guided Bend Test ASTM E290	ASTM E290
46	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Guided Bend Test ISO 5173	ISO 5173
47	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Guided Bend Test ISO 7438	ISO 7438
48	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Hardness Test ASTM E18 HRC	ASTM E18
49	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Hardness test ASTM E18 HRB	ASTM E18
50	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	hardness Test ISO 6508-1 HRB	ISO 6508-1
51	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Hardness Test ISO 6508-1 HRC	ISO 6508-1
52	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Lateral Expansion ASTM A 370	ASTM A 370
53	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	lateral expansion ISO 148-1	ISO 148-1

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54	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Macro Examination of weld ASTM E340	ASTM E340
55	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Macro Examination of weld ISO 17639	ISO 17639
56	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Micro Examination of Weld ISO 17639	ISO 17639
57	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Microscopic Examination (Grain Size Number- Comparison Method) ASTM E112	ASTM E112
58	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Ultimate Tensile Strength ASME SEC-IX	ASME SEC-IX
59	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Ultimate Tensile Strength ASTM A370	ASTM A370:
60	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Ultimate Tensile Strength ASTM E8	ASTM E8
61	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Ultimate Tensile Strength ISO 4136	ISO 4136
62	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Ultimate Tensile Strength ISO 6892-1	ISO 6892-1
63	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Vicker's Hardness Test (HV 10) E 92	ASTM E92
64	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Vicker's Hardness Test (HV10) ISO 6507-1	ISO 6507-1
65	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Yield Strength (0.2% Proof Stress) ASTM E8	ASTM E8
66	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Yield Strength (0.5% extension under load method) ASTM A370	ASTM A370
67	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Yield Strength (0.5% Extension Under Load Method) ASTM E8	ASTM E8

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68	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Yield Strength (0.5% Extension Under Load Method) ISO 6892-1	ISO 6892-1
69	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Yield Strength (1.0% proof Strength) ASTM E8	ASTM E8
70	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	yield strength @ 0.2 % proof stress ASTM A370	ASTM A370
71	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Yield strength @ 0.2 % proof stress ISO 6892-1	ISO 6892-1
72	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Yield Strength @ 1.0 % proof stress ASTM A 370	ASTM A 370
73	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel	Yield strength @ 1.0 % proof stressISO 6892-1	ISO 6892-1
74	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Intergranular Corrosion Test - Method A ISO 3651-2	ISO 3651-2
75	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Intergranular Corrosion Test - Method C ISO 3651-2	ISO 3651-2
76	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Intergranular Corrosion Test - Practice A ASTM A262	ASTM A262
77	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Intergranular Corrosion Test - Practice B ASTM A262	ASTM A262
78	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Intergranular Corrosion Test - Practice C ASTM A262	ASTM A262
79	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Intergranular Corrosion Test - Practice E ASTM A262	ASTM A262
80	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Intergranular Corrosion Test Method B ISO 3651-2	ISO 3651-2
81	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Test Method A - Sodium Hydroxide Etch Test ASTM A923	ASTM A923
82	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Test Method B - Charpy Impact Test ASTM A923	ASTM A923
83	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Test Method C (Ferric Chloride Corrosion Test) ASTM A923	ASTM A923

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84	MECHANICAL-METALLOGRAPHY TEST	Stainless steel and Nickel Base Alloy	Pitting Corrosion Test Method A ASTM G48	ASTM G48
85	MECHANICAL-METALLOGRAPHY TEST	Wrought, Nickel-Rich, Chromium-Bearing Alloys	Intergranular Corrosion Test - METHOD A (Ferric Sulfate - Sulfuric Acid Test) ASTM G28	ASTM G28

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LOCATION 2 - SAW PIPE COATING LABORATORY SAMAGHOGHA, MUNDRA, KUTCH, GUJARAT, INDIA Permanent Facility				
1	CHEMICAL- PLASTIC & RESINS	3Layer Polyethylene / Polypropylene Coated Sample	Cathodic Disbondment Test	ASTM G42(Temp. upto 95°C)
2	CHEMICAL- PLASTIC & RESINS	3Layer Polyethylene / Polypropylene Coated Sample	Cathodic Disbondment Test	CSA Z245.21 (Temp. upto 95°C)
3	CHEMICAL- PLASTIC & RESINS	3Layer Polyethylene / Polypropylene Coated Sample	Cathodic Disbondment Test	NF A49-711(Temp. upto 95°C)
4	CHEMICAL- PLASTIC & RESINS	3Layer Polyethylene /Polypropylene Coated Sample	Cathodic Disbondment Test	ASTM G8 (Temp. upto 95°C)
5	CHEMICAL- PLASTIC & RESINS	Epoxy Powder Sample	Density	CSA Z245.20 (Procedure A)
6	CHEMICAL- PLASTIC & RESINS	Epoxy Powder Sample	Gel Time	CSA Z 245.20
7	CHEMICAL- PLASTIC & RESINS	Epoxy Powder Sample	Moisture Content	CSA Z245.20 (Procedure A)
8	CHEMICAL- PLASTIC & RESINS	Fusion Bonded Epoxy Coated Sample	Cathodic Disbondment Test	CSA Z245.20 (Temp. up to 95°C)
9	CHEMICAL- PLASTIC & RESINS	Fusion Bonded Epoxy Coated Sample	Cathodic Disbondment Test	NACE SP0394
10	CHEMICAL- PLASTIC & RESINS	HDPE,PP,LDPE,MDPE,LLDPE,Molded Material Sample / Sheet	24 Hrs. Water Absorption of Thermoplastics	ASTM D570
11	CHEMICAL- PLASTIC & RESINS	Liquid Epoxy Coated Sample	Curing	ISO 15741
12	CHEMICAL- PLASTIC & RESINS	Liquid Epoxy Coated Sample	Curing	ISO 2812-1
13	CHEMICAL- PLASTIC & RESINS	Liquid Epoxy Coated Sample	Pin Hole	API RP5L2
14	CHEMICAL- PLASTIC & RESINS	Liquid Epoxy Coated Sample	Pin Hole	ISO 15741
15	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Fusion Bonded Epoxy Coated Samples	Adhesion (Hot Water Soak)	CSA Z245.20
16	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Fusion Bonded Epoxy Coated Samples	Cross Section & Interface Porosity	CSA Z 245.20
17	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Fusion Bonded Epoxy Coated Samples	Flexibility	CSA Z.245.20
18	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	HDPE,LDPE,MDPE,LLDPE,Molded Material Samples / Sheet	Indentation Hardness of Thermoplastics	DIN 30670

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19	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	HDPE,PP,LDPE,MDPE,LLDPE,Molded Material Samples / Sheet	Percent Elongation	ASTM D638
20	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	HDPE,PP,LDPE,MDPE,LLDPE,Molded Material Samples / Sheet	Percent Elongation	ISO 527
21	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	HDPE,PP,LDPE,MDPE,LLDPE,Molded Material Samples / Sheet	Tensile Strength	ASTM D638
22	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	HDPE,PP,LDPE,MDPE,LLDPE,Molded Material Samples / Sheet	Tensile Strength	ISO 527
23	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	HDPE,PP,LDPE,MDPE,LLDPE,Molded Material Samples / Sheet	Vicat Softening Point	ASTM D1525
24	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	HDPE,PP,LDPE,MDPE,LLDPE,Molded Material Samples/Sheet	Melt Flow Rate	ASTM D1238
25	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	HDPE,PP,LDPE,MDPE,LLDPE,Molded Material Samples/Sheet	Specific Gravity / Density	ASTM D792
26	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	HDPP,LDPP,MDPP,LLDPP,Molded Material Samples / Sheet	Indentation Hardness of Thermoplastics	DIN 30678
27	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Liquid Epoxy Coated Sample	Adhesion	API RP 5L2
28	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Liquid Epoxy Coated Sample	Adhesion	ISO 15741
29	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Liquid Epoxy Coated Sample	Adhesion	ISO 2409
30	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Liquid Epoxy Coated Sample	Adhesion (Pull off Method) TYPE V (TEST METHOD E)	ASTM D4541
31	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Liquid Epoxy Coated Sample	Bend	ISO 15741
32	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Liquid Epoxy Coated Sample	Bend	ISO 6860
33	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Liquid Epoxy Coated Sample	Buchholz Indentation (Hardness)	ISO 15741
34	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Liquid Epoxy Coated Sample	Buchholz Indentation (Hardness)	ISO 2815

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LOCATION 3 - DI LAB SAMAGHOGHA, MUNDRA, KUTCH, GUJARAT, INDIA Permanent Facility				
1	CHEMICAL- METALS & ALLOYS	Ferrous -Ductile iron & Cast iron	Chromium	ASTM E1999
2	CHEMICAL- METALS & ALLOYS	Ferrous- Ductile Iron & Cast iron	Manganese	ASTM E1999
3	CHEMICAL- METALS & ALLOYS	Ferrous- Ductile Iron & Cast iron	Phosphorus	JIS G 1253
4	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron & Cast iron	Carbon	JIS G 1253
5	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron & Cast iron	Chromium	JIS G 1253
6	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile Iron & Cast Iron	Magnesium	ASTM E 1999
7	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron & Cast iron	Magnesium	JIS G 1253
8	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron & Cast iron	Manganese	JIS G 1253
9	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron & Cast iron	Phosphorus	ASTM E1999
10	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron & Cast Iron	Silicon	ASTM E1999
11	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron & Cast iron	Silicon	JIS G 1253
12	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron & Cast iron	Sulphur	ASTM E1999
13	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron & Cast iron	Sulphur	JIS G 1253
14	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile Iron & Cast Iron	Titanium	ASTM E1999
15	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron & Cast iron	Titanium	JIS G 1253
16	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron,Cast Iron	Carbon	ASTM E1999
17	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metal - Ductile iron pipes	Tensile strength	ISO 6892-1

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18	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous-Ductile iron pipes	%Elongation	AS 1391
19	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous-Ductile iron pipes	%Elongation	IS 1608 Part1
20	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous-Ductile iron pipes	%Elongation	ISO 6892-1
21	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous-Ductile iron pipes	Brinell Hardness	AS 1816.1
22	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous-Ductile iron pipes	Brinell Hardness	IS 1500(Part-1)
23	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous-Ductile iron pipes	Brinell Hardness	ISO 6506-1
24	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous-Ductile iron pipes	Tensile strength	AS 1391
25	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous-Ductile iron pipes	Tensile strength	IS 1608 Part1
26	MECHANICAL-METALLOGRAPHY TEST	Ferrous- Ductile iron pipes	Micro structure	ASM METAL HANDBOOK VOLUME9
27	MECHANICAL-METALLOGRAPHY TEST	Ferrous-Ductile iron pipes	Micro structure of Graphite(Designation)	ASTM A247
28	MECHANICAL-METALLOGRAPHY TEST	Ferrous-Ductile iron pipes	Micro structure of Graphite(Designation)	IS 7754
29	MECHANICAL-METALLOGRAPHY TEST	Ferrous-Ductile iron pipes	Micro structure of Graphite(Designation)	ISO 945-1

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LOCATION 4 - SDP-1 LAB SAMAGHOGHA, MUNDRA, KUTCH, GUJARAT, INDIA Permanent Facility				
1	CHEMICAL- METALS & ALLOYS	Ferrous -Ductile iron & Cast iron	Carbon	JIS G 1253
2	CHEMICAL- METALS & ALLOYS	Ferrous -Ductile iron & Cast iron	Silicon	ASTM E1999
3	CHEMICAL- METALS & ALLOYS	Ferrous- Ductile iron & Cast iron	Silicon	JIS G 1253
4	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron & Cast iron	Carbon	ASTM E1999
5	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron & Cast iron	Chromium	ASTM E1999
6	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron & Cast iron	Chromium	JIS G 1253
7	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron & Cast iron	Magnesium	ASTM E1999
8	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron & Cast iron	Magnesium	JIS G 1253
9	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron & Cast iron	Manganese	ASTM E1999
10	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron & Cast iron	Manganese	JIS G 1253
11	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron & Cast iron	Phosphorus	ASTM E1999
12	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron & Cast iron	Phosphorus	JIS G 1253
13	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron & Cast iron	Sulphur	ASTM E1999
14	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron & Cast iron	Sulphur	JIS G 1253
15	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron & Cast iron	Titanium	ASTM E1999
16	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron & Cast iron	Titanium	JIS G 1253

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LOCATION 5 - SDP-2 LAB SAMAGHOGHA, MUNDRA, KUTCH, GUJARAT, INDIA Permanent Facility				
1	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron & Cast iron	Carbon	ASTM E1999
2	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron & Cast iron	Carbon	JIS G 1253
3	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron & Cast iron	Chromium	ASTM E1999
4	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron & Cast iron	Chromium	JIS G 1253
5	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron & Cast iron	Magnesium	ASTM E1999
6	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron & Cast iron	Magnesium	JIS G 1253
7	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron & Cast iron	Manganese	ASTM E1999
8	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron & Cast iron	Manganese	JIS G 1253
9	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron & Cast iron	Phosphorus	ASTM E1999
10	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron & Cast iron	Phosphorus	JIS G 1253
11	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron & Cast iron	Silicon	ASTM E1999
12	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron & Cast iron	Silicon	JIS G 1253
13	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron & Cast iron	Sulphur	ASTM E1999
14	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron & Cast iron	Sulphur	JIS G 1253
15	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron & Cast iron	Titanium	ASTM E1999
16	CHEMICAL- METALS & ALLOYS	Ferrous-Ductile iron & Cast iron	Titanium	JIS G 1253
17	CHEMICAL- METALS & ALLOYS	Ferrous-Low Alloy steel	Aluminium	ASTM E415
18	CHEMICAL- METALS & ALLOYS	Ferrous-Low Alloy Steel	Boron	ASTM E415

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19	CHEMICAL- METALS & ALLOYS	Ferrous-Low Alloy Steel	Calcium	ASTM E415
20	CHEMICAL- METALS & ALLOYS	Ferrous-Low alloy steel	Carbon	ASTM E415
21	CHEMICAL- METALS & ALLOYS	Ferrous-Low Alloy Steel	Chromium	ASTM E415
22	CHEMICAL- METALS & ALLOYS	Ferrous-Low Alloy Steel	Copper	ASTM E415
23	CHEMICAL- METALS & ALLOYS	Ferrous-Low Alloy Steel	Manganese	ASTM E415
24	CHEMICAL- METALS & ALLOYS	Ferrous-Low Alloy Steel	Molybdenum	ASTM E415
25	CHEMICAL- METALS & ALLOYS	Ferrous-Low Alloy Steel	Nickel	ASTM E415
26	CHEMICAL- METALS & ALLOYS	Ferrous-Low Alloy Steel	Niobium	ASTM E415
27	CHEMICAL- METALS & ALLOYS	Ferrous-Low alloy steel	Nitrogen	ASTM E415
28	CHEMICAL- METALS & ALLOYS	Ferrous-Low Alloy Steel	Phosphorus	ASTM E415
29	CHEMICAL- METALS & ALLOYS	Ferrous-Low Alloy Steel	Silicon	ASTM E415
30	CHEMICAL- METALS & ALLOYS	Ferrous-Low Alloy Steel	Sulphur	ASTM E415
31	CHEMICAL- METALS & ALLOYS	Ferrous-Low Alloy Steel	Titanium	ASTM E415
32	CHEMICAL- METALS & ALLOYS	Ferrous-Low Alloy Steel	Vanadium	ASTM E415
33	CHEMICAL- METALS & ALLOYS	Ferrous-Stainless steel	Carbon	ASTM A751-2021, JISG 1253
34	CHEMICAL- METALS & ALLOYS	Ferrous-Stainless steel	Chromium	ASTM A751-2021, JISG 1253
35	CHEMICAL- METALS & ALLOYS	Ferrous-Stainless steel	Copper	ASTM A751-2021, JISG 1253
36	CHEMICAL- METALS & ALLOYS	Ferrous-Stainless steel	Lead	ASTM A751
37	CHEMICAL- METALS & ALLOYS	Ferrous-Stainless steel	Manganese	ASTM A751-2021, JISG 1253

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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
38	CHEMICAL- METALS & ALLOYS	Ferrous-Stainless steel	Molybdenum	ASTM A751-2021, JISG 1253
39	CHEMICAL- METALS & ALLOYS	Ferrous-Stainless steel	Nickel	ASTM A751-2021, JISG 1253
40	CHEMICAL- METALS & ALLOYS	Ferrous-Stainless steel	Niobium	ASTM A751
41	CHEMICAL- METALS & ALLOYS	Ferrous-Stainless steel	Nitrogen	ASTM A751
42	CHEMICAL- METALS & ALLOYS	Ferrous-Stainless steel	Phosphorus	ASTM A751-2021, JISG 1253
43	CHEMICAL- METALS & ALLOYS	Ferrous-Stainless steel	Silicon	ASTM A751-2021, JISG 1253
44	CHEMICAL- METALS & ALLOYS	Ferrous-Stainless steel	Sulphur	ASTM A751-2021, JISG 1253
45	CHEMICAL- METALS & ALLOYS	Ferrous-Stainless steel	Titanium	ASTM A751
46	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous-Ductile iron pipes	%Elongation	AS 1391
47	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous-Ductile iron pipes	%Elongation	IS 1608 Part1
48	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous-Ductile iron pipes	%Elongation	ISO 6892-1
49	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous-Ductile iron pipes	Brinell Hardness	AS 1816.1
50	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous-Ductile iron pipes	Brinell Hardness	IS 1500 (Part-1)
51	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous-Ductile iron pipes	Brinell Hardness	ISO 6506-1
52	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous-Ductile iron pipes	Tensile strength	AS 1391
53	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous-Ductile iron Pipes	Tensile strength	IS 1608 Part1

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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
54	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous-Ductile iron pipes	Tensile Strength	ISO 6892-1
55	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous-Ductile iron pipes	Yield / 0.2% Proof stress	ISO 6892-1
56	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous-Ductile iron pipes	Yield / 0.2%Proof stress	AS 1391
57	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous-Ductile iron pipes	Yield / 0.2%Proof stress	IS 1608Part1
58	MECHANICAL-METALLOGRAPHY TEST	Ferrous-Ductile iron pipes	Micro Structure	ASM METAL HANDBOOK VOLUME9
59	MECHANICAL-METALLOGRAPHY TEST	Ferrous-Ductile iron pipes	Micro structure of Graphite(Designation)	ASTM A247
60	MECHANICAL-METALLOGRAPHY TEST	Ferrous-Ductile iron pipes	Micro structure of Graphite(Designation)	IS 7754
61	MECHANICAL-METALLOGRAPHY TEST	Ferrous-Ductile iron pipes	Micro structure of Graphite(Designation)	ISO 945-1