National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : INSPECTION & TESTING ENGINEERS (LAB DIVISION), F 22-23, SITE C, SURAJPUR INDUSTRIAL AREA, UPSIDC, GREATER NOIDA, UTTAR PRADESH, 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
Permanent Facility				
1	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel Materials	Manganese	ASTM E 415
2	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel Materials	Manganese	IS 8811
3	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel Materials	Vanadium	ASTM E 415
4	CHEMICAL- METALS & ALLOYS	Carbon & Low Alloy Steel Materials	Vanadium	IS 8811
5	CHEMICAL- METALS & ALLOYS	Low Alloy Steel & Carbon Steel	Carbon	ASTM E 415
6	CHEMICAL- METALS & ALLOYS	Low Alloy Steel & Carbon Steel	Carbon	IS 8811
7	CHEMICAL- METALS & ALLOYS	Low Alloy Steel & Carbon Steel	Chromium	ASTEM E 415
8	CHEMICAL- METALS & ALLOYS	Low Alloy Steel & Carbon Steel	Chromium	IS 8811
9	CHEMICAL- METALS & ALLOYS	Low Alloy Steel & Carbon Steel	Copper	ASTM E 415
10	CHEMICAL- METALS & ALLOYS	Low Alloy Steel & Carbon Steel	Copper	IS 8811
11	CHEMICAL- METALS & ALLOYS	Low Alloy Steel & Carbon Steel	Manganese	ASTM E 415
12	CHEMICAL- METALS & ALLOYS	Low Alloy Steel & Carbon Steel	Manganese	IS 8811
13	CHEMICAL- METALS & ALLOYS	Low Alloy Steel & Carbon Steel	Molybdenum	ASTM E 415
14	CHEMICAL- METALS & ALLOYS	Low Alloy Steel & Carbon Steel	Molybdenum	ASTM E 415
15	CHEMICAL- METALS & ALLOYS	Low Alloy Steel & Carbon Steel	Molybdenum	IS 8811
16	CHEMICAL- METALS & ALLOYS	Low Alloy Steel & Carbon Steel	Nickel	ASTM E 415
17	CHEMICAL- METALS & ALLOYS	Low Alloy Steel & Carbon Steel	Nickel	IS 8811
18	CHEMICAL- METALS & ALLOYS	Low Alloy Steel & Carbon Steel	Phosphorus	ASTM E 415

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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	Low Alloy Steel & Carbon Steel	Phosphorus	IS 8811
20	CHEMICAL- METALS & ALLOYS	Low Alloy Steel & Carbon Steel	Silicon	ASTM E 415
21	CHEMICAL- METALS & ALLOYS	Low Alloy Steel & Carbon Steel	Silicon	IS 8811
22	CHEMICAL- METALS & ALLOYS	Low Alloy Steel & Carbon Steel	Sulphur	ASTM E 415
23	CHEMICAL- METALS & ALLOYS	Low Alloy Steel & Carbon Steel	Sulphur	IS 8811
24	CHEMICAL- METALS & ALLOYS	Low Alloy Steel & Carbon Steell	Sulphur	ASTM E 415
25	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E 1086
26	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 9879
27	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E 1086
28	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 9879
29	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 9879
30	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E 1086
31	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	IS 9879
32	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E 1086
33	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E 1086
34	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 9879
35	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 9879
36	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM E 1086
37	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS 9879

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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	Stainless Steel	Nickel	ASTM E 1086
39	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E 1086
40	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 9879
41	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 9879
42	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM E 1086
43	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	IS 9879
44	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E 1086
45	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 9879
46	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM E 1086
47	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	IS 9879
48	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials	% Elongation	ISO 6892-1
49	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials	% Reduction in Area	ASTM A 370
50	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials	% Reduction in Area	IS 1608 (Part 1)
51	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials	% Reduction in Area	ISO 6892-1
52	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials	Bend Test	IS 1599
53	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials	Bend Test	ISO 7438

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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 & Non Ferrous Materials	Charpy V Notch Impact Test (Ambient to - 50 degree C)	ISO 148-1
55	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials	Charpy V Notch Impact Test (Ambient to - 80 degree C)	ISO 9016
56	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials	Fracture Test	ISO 9017
57	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials	Rockwell Hardness Test - Scale B	ISO 6508-1
58	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials	Rockwell Hardness Test - Scale C	ISO 6508-1
59	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials	Tensile Strength	ISO 6892-1
60	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials	Ultimate tensile load	IS 1608 (Part 1)
61	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials	Vickers Hardness Test (at 10 kgf)	IS 1501 (Part 1)
62	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials	Vickers Hardness Test (at 10 kgf)	ISO 6507-1
63	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials	Vickers Hardness Test (at 5 kgf)	IS 1501 (Part 1)
64	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials	Vickers Hardness Test (at 5 kgf)	ISO 6507-1
65	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials	Yield Strength	ISO 6892-1
66	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Bend Test	IS 3600 (Part 5)
67	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Bend Test	ISO 5173

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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
68	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Nick Break	IS 3600 (Part 8)
69	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials	Ultimate tensile load	ASTM A 370
70	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys and products	Bend Test	ASTM A 370
71	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys and products	Bend Test	IS 1599
72	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys and products	Charpy Impact- U notch, V notch (Ambient to -80 degree C)	ASTM A 370
73	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys and products	Charpy Impact- U notch, V notch (Ambient to -80 degree C)	IS 1757 (Part 1)
74	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys and products	Elongation	ASTM A 370
75	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys and products	Elongation	IS 1608
76	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys and products	Flattening Test	ASTM A 530
77	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys and products	Flattening Test	IS 2328
78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys and products	IZOD Impact	IS 1598
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys and products	Re-bend Test	IS 1786
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys and products	Rockwell Hardness- Scale B	ASTM A 370
81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys and products	Rockwell Hardness- Scale B	IS 1586 (Part 1)

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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
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys and products	Rockwell Hardness- Scale C	ASTM A 370
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys and products	Rockwell Hardness- Scale C	IS 1586 (Part 1)
84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys and products	Tensile Strength	ASTM A 370
85	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys and products	Tensile Strength	IS 1608
86	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys and products	Vickers Hardness	ASTM A 370
87	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys and products	Vickers Hardness	IS 1501 (Part 1)
88	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys and products	Yield Strength	ASTM A 370
89	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys and products	Yield Strength	IS 1608
90	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals, Aluminium, Copper and Nickel alloys	Elongation	IS 1608
91	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals, Aluminium, Copper and Nickel alloys	Tensile Strength	IS 1608
92	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals, Aluminium, Copper and Nickel alloys	Vickers Hardness	IS 1501 (Part 1)
93	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Metals, Aluminium, Copper and Nickel alloys	Yield Strength	IS 1608
94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nut	Proof Load	IS 1367 (Part 6)
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nut	Proof Load	ISO 898-2

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96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Bar, TMT	Mass per meter	IS 1786
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded metals	Charpy V Notch Impact Test (Ambient to - 50 degree C)	AWS B4.0
98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded metals	Nick Break	AWS B4.0
99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded metals	Tensile Strength	AWS B4.0
100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Pipes	Bend Test	API 1104 (CL. 5,6,12)
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Pipes	Nick Break Test	API 1104 (CL. 5,6)
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Pipes	Transverse Tensile Test	API 1104 (Cl. 5, 6)
103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and welded test specimens of ferrous materials	Bend Test	ASME Section IX
104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and welded test specimens of ferrous materials	Bend Test	AWS D1.1
105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and welded test specimens of ferrous materials	Charpy Impact- U notch, V notch (Ambient to -80 degree C)	ASME Section IX
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and welded test specimens of ferrous materials	Charpy Impact- U notch, V notch (Ambient to -80 degree C)	AWS D1.1
107	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and welded test specimens of ferrous materials	Elongation	ASME Section IX
108	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and welded test specimens of ferrous materials	Elongation	AWS D1.1
109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and welded test specimens of ferrous materials	Fracture Test	ASME Section IX

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110	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and welded test specimens of ferrous materials	Fracture Test	AWS D1.1
111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and welded test specimens of ferrous materials	Macro Examination	ASME Section IX
112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and welded test specimens of ferrous materials	Macro Examination	AWS D1.1
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and welded test specimens of ferrous materials	Tensile Strength	ASME Section IX
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and welded test specimens of ferrous materials	Tensile Strength	AWS D1.1
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and welded test specimens of ferrous materials	Yield Strength	ASME Section IX
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and welded test specimens of ferrous materials	Yield Strength	AWS D1.1
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and welded test specimens of non-ferrous materials, Aluminium and Nickel alloys	Elongation	ASME Section IX
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and welded test specimens of non-ferrous materials, Aluminium and Nickel alloys	Elongation	AWS D1.1
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and welded test specimens of non-ferrous materials, Aluminium and Nickel alloys	Tensile Strength	ASME Section IX
120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and welded test specimens of non-ferrous materials, Aluminium and Nickel alloys	Tensile strength	AWS D1.1
121	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and welded test specimens of non-ferrous materials, Aluminium and Nickel alloys	Yield Strength	ASME Section IX
122	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds and welded test specimens of non-ferrous materials, Aluminium and Nickel alloys	Yield Strength	AWS D1.1
123	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Materials	Macro Test	BS EN ISO 17639

SCOPE OF ACCREDITATION

Laboratory Name :	INSPECTION & TESTING ENGINEERS (LAB DIVISION), F 22-23, SITE C, SURAJPUR INDUSTRIAL AREA, UPSIDC, GREATER NOIDA, UTTAR PRADESH, INDIA		
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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
124	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials	Macro Examination	IS 3600 Part 9
125	MECHANICAL-METALLOGRAPHY TEST	Welded Pipes	Macro test	API 1104 (Annex. B)