National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : JINDAL STEEL & POWER LIMITED, ANGUL, TECHNICAL SERVICES DEPARTMENT, CHHENDIPADA ROAD, VILLAGE : NISHA, STATE HIGHWAY (SH) 63, P.O.: JINDAL NAGAR, ANGUL, ODISHA, INDIA

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Validity 28/02/2023 to 27/02/2025 **Last Amended on** -

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 Steel & Alloy Steel	Aluminum	IS 8811
2	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Aluminum	ASTM E415
3	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Boron	ASTM E415
4	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Boron	IS 8811
5	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Calcium	ASTM E415
6	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Carbon	ASTM E415
7	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Carbon	IS 8811
8	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Chromium	ASTM E415
9	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Chromium	IS 8811
10	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Copper	ASTM E415
11	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Copper	IS 8811
12	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Hydrogen	ASTM E1019
13	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Manganese	ASTM E415
14	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Manganese	IS 8811
15	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Molybdenum	ASTM E415
16	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Molybdenum	IS 8811
17	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Nickel	ASTM E415
18	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Nickel	IS 8811

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19	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Niobium	ASTM E415
20	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Niobium	IS 8811
21	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Nitrogen	ASTM E1019
22	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Nitrogen	ASTM E415
23	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Nitrogen	JIS-G-1253
24	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Oxygen	ASTM E1019
25	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Phosphorus	ASTM E415
26	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Phosphorus	IS 8811
27	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Silicon	ASTM E415
28	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Silicon	IS 8811
29	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Sulphur	ASTM E415
30	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Sulphur	IS 8811
31	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Titanium	ASTM E415
32	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Titanium	IS 8811
33	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Vanadium	ASTM E415
34	CHEMICAL- METALS & ALLOYS	Carbon Steel & Alloy Steel	Vanadium	IS 8811
35	CHEMICAL- METALS & ALLOYS	Carbon Steel / Low Alloy Steel	Zirconium	IS 8811
36	CHEMICAL- METALS & ALLOYS	Carbon Steel / Low Alloy Steel	Arsenic	IS 8811
37	CHEMICAL- METALS & ALLOYS	Carbon Steel / Low Alloy Steel	Lead	ASTM E415

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38	CHEMICAL- METALS & ALLOYS	Carbon Steel / Low Alloy Steel	Tin	IS 8811
39	CHEMICAL- SOLID FUELS	Coal	Ash on Air Dried Basis / Ash on Dry Basis / Ash on Equilibrated Basis	IS 1350 (Part-1)
40	CHEMICAL- SOLID FUELS	Coal	Equilibrated Moisture	IS 1350 (Part-1)
41	CHEMICAL- SOLID FUELS	Coal	Fixed Carbon on Air Dried Basis/ Fixed Carbon on Dry Basis / Fixed Carbon on Equilibrated Basis	IS 1350 (Part-1)
42	CHEMICAL- SOLID FUELS	Coal	Gross Calorific Value (GCV) / E GCV	ASTM D5865
43	CHEMICAL- SOLID FUELS	Coal	Gross Calorific Value (GCV) / E GCV	IS 1350 (Part-2)
44	CHEMICAL- SOLID FUELS	Coal	Moisture in analysis sample (IM) / Air-dried Moisture / Dry Basis Moisture	IS 1350 (Part-1)
45	CHEMICAL- SOLID FUELS	Coal	Total Moisture	ASTM D2961/D2961M
46	CHEMICAL- SOLID FUELS	Coal	Volatile Matter on Air Dried Basis / Volatile Matter on Dry Basis/ Volatile Matter on Equilibrated Basis	IS 1350 (Part-1)
47	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Tensile Strength	ASTM A370
48	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	% Elongation	DIN EN ISO 6892-1
49	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	% Reduction of Area	ASTM A370
50	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	% Reduction of Area	ASTM E8M
51	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	% Reduction of Area	DIN EN ISO 6892-1
52	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	% Reduction of Area	IS 1608 (Part 1)

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53	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Bend	ASTM E290
54	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Bend	IS 1599
55	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Brinell Hardness (HBW) 10/3000Kgf	IS 1500 (Part 1)
56	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Brinell Hardness (HBW) 5/750Kgf	ASTM E10
57	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Charpy Impact (V-notch) @ -60 °C	ASTM A370
58	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Charpy Impact (V-notch) @ -60 °C	DIN EN ISO 148-1
59	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Charpy Impact (V-notch) @ -60 °C	ASTM E23
60	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Charpy Impact (V-notch) @ -60 °C	IS 1757 (Part 1)
61	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Charpy Impact (V-notch) @ Room Temperature	DIN EN ISO 148-1
62	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Rockwall Hardness (HRBW)	ASTM E18
63	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Rockwall Hardness (HRBW)	IS 1586 (Part 1)
64	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Rockwall Hardness (HRC)	ASTM E18
65	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Rockwall Hardness (HRC)	IS 1586 (Part 1)
66	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Tensile Strength	ASTM E8M

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67	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Tensile Strength	DIN EN ISO 6892-1
68	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Tensile Strength	IS 1608 (Part 1)
69	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Vickers Hardness (HV10)	IS 1501 (Part 1)
70	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Vickers Hardness (HV30)	IS 1501 (Part 1)
71	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Vickers Hardness (HV5)	ASTM E384
72	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Vickers Hardness (HV5)	IS 1501 (Part 1)
73	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Yield Strength @ 0.2 % Proof Stress	DIN EN ISO 6892-1
74	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Yield Strength @ 0.2 % Proof Stress	IS 1608 (Part 1)
75	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Yield Strength @ 0.5% Extension Under Load Method	ASTM A370
76	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Yield Strength @ 0.5% Extension Under Load Method	DIN EN ISO 6892-1
77	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Yield Strength @ 0.5% Extension Under Load Method	IS 1608 (Part 1)
78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Yield Strength @ 0.5% Extension Under Load Method	ASTM E8M
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Yield Strength by extensometer method	ASTM A370
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Yield Strength by extensometer method	ASTM E8M

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81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	% Elongation at Elevated Temperature (50°c to 900°c)	IS 1608 (Part 2)
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	% Elongation at Elevated Temperature	ASTM E21
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	% Elongation at Elevated Temperature	ISO 6892-2
84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	% Reduction of Area at Elevated Temperature (50°c to 900°c)	IS 1608 (Part 2)
85	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	% Reduction of Area at Elevated Temperature	ASTM E21
86	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	% Reduction of Area at Elevated Temperature	ISO 6892-2
87	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Brinell Hardness(HBW) 10/3000 Kgf	ISO 6506-1
88	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Brinell Hardness(HBW) 5/750 Kgf	ISO 6506-1
89	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Rockwall Hardness	ISO 6508-1
90	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Rockwall Hardness	ISO 6508-1
91	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Tensile Strength at Elevated Temperature (0.1 to 600)KN	ASTM E21
92	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Tensile Strength at Elevated Temperature (0.1 to 600)KN	ISO 6892-2
93	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Vickers Hardness	ISO 6507-1
94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Vickers Hardness	ISO 6507-1

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95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Vickers Hardness	ISO 6507-1
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Yield Strength @ 0.2 % Proof Stress at Elevated Temperature (50°c to 900°c)	IS 1608 (Part 2)
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Yield Strength @ 0.2 % Proof Stress at Elevated Temperature	ISO 6892-2
98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Yield Strength @ 0.2 % Proof Stress at Elevated Temperature	ASTM E21
99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Yield Strength 'ReH' at Elevated Temperature (50°c to 900°c)	IS 1608 (Part 2)
100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Yield Strength 'ReH' at Elevated Temperature	ASTM E21
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Yield Strength 'ReH' at Elevated Temperature	ISO 6892-2
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	% Elongation	ASTM A370
103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	% Elongation	ASTM E8M
104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	% Elongation	IS 1608 (Part 1)
105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Brinell Hardness (HBW) 10/3000Kgf	ASTM E10
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Brinell Hardness (HBW) 5/750Kgf	IS 1500 (Part 1)
107	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Charpy Impact (V-notch) @ Room Temp.	IS 1757 (Part 1)
108	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Charpy Impact (V-notch) @ Room Temperature	ASTM E23

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109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Charpy Impact (V-notch) @ Room Temperature	ASTM A370
110	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Charpy Impact (V-notch) @ Room Temperature	IS 1757 (Part 1)
111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Tensile Strength at Elevated Temperature (0.1 to 600)KN (50°c to 900°c)	IS 1608 (Part 2)
112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Vickers Hardness (HV10)	ASTM E384
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Flat Products : Plates	Vickers Hardness (HV30)	ASTM E384
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and Wires	% Elongation	IS 1608 (Part 1)
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and Wires	% Elongation	ISO 6892-1
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and wires	% Total Elongation at Max. force	IS 1608 (Part 1)
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and wires	% Total Elongation at Max. force	ISO 6892-1
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and Wires	Bend	IS 1599
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and Wires	Mass Per Metre	IS 1786
120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and wires	Mass Per Metre	IS 1786
121	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and wires	Re bend	IS 1786
122	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and wires	Tensile Strength	IS 1608 (Part 1)

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123	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and wires	Tensile Strength	ISO 6892-1
124	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and wires	Yield strength @ 0.2 % Proof Stress	IS 1608 (Part 1)
125	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and wires	Yield strength @ 0.2 % Proof Stress	ISO 6892-1
126	MECHANICAL-METALLOGRAPHY TEST	Flat Products : Plates & High Strength Deformed Steel Bars and Wires	Determination of Non-Metallic Inclusion content by Method-A	ASTM E45
127	MECHANICAL-METALLOGRAPHY TEST	Flat Products : Plates & High Strength Deformed Steel Bars and wires	Determination of Non-Metallic Inclusion content by Method-A	IS 4163
128	MECHANICAL-METALLOGRAPHY TEST	Flat Products : Plates & High Strength Deformed Steel Bars and wires	Estimation of average Grain size by comparison method	ASTM E112
129	MECHANICAL-METALLOGRAPHY TEST	Flat Products : Plates & High Strength Deformed Steel Bars and wires	Estimation of average Grain size by comparison method	IS 4748