National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : NATIONAL INSTITUTE OF SECONDARY STEEL TECHNOLOGY, G.T. ROAD, MANDI, GOBINDGARH, FATEHGARH SAHIB, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7026 **Page No** 1 of 4

Validity 27/04/2021 to 26/04/2023 **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 (low carbon, medium carbon & high carbon steel)	NICKEL	IS:228 (PART-5), RA 2019
2	CHEMICAL- METALS & ALLOYS	Carbon Steel low alloy steel, high alloy steel & stainless steel.	Cobalt	ASTM E-350
3	CHEMICAL- METALS & ALLOYS	Carbon Steel low alloys steel, high alloy steel & stainless steel	Calcium	ASTM E-350-18
4	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloys Steel & Stainless Steel	Aluminium	ATSM E350
5	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloys Steel & Stainless Steel	Carbon	IS:228 (Part-1), RA-2018
6	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloys Steel & Stainless Steel	Chromium	IS:228 (Part-6),RA-2018
7	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloys Steel & Stainless Steel	Manganese	IS:228 (Part-2),RA-2018
8	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloys Steel & Stainless Steel	Molybdenum	IS:12473(Part-4), RA-2018
9	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloys Steel & Stainless Steel	Molybdenum	IS:228(Part-7),RA-2018
10	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloys Steel & Stainless Steel	Nitrogen	IS:228(Part-19),RA-2016
11	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloys Steel & Stainless Steel	Phosphorus	IS:228 (Part-3),RA:2018
12	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloys Steel & Stainless Steel	Silicon	IS:228 (Part-8),RA:2019
13	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloys Steel & Stainless Steel	Sulphur	IS:228 (Part-9),RA:2019
14	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloys Steel & Stainless Steel	Titanium	IS:12473(Part-4),RA 2018
15	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloys Steel & Stainless Steel	Vanadium	ASTM E350 -18
16	CHEMICAL- METALS & ALLOYS	Carbon, Low Alloys Steels & Stainless Steel	Copper	Astm E350
17	CHEMICAL- METALS & ALLOYS	Ferro Alloys	Chromium	IS:1559, RA:2018
18	CHEMICAL- METALS & ALLOYS	Ferro Alloys	Manganese	IS:1559 (Part-7), RA:2018

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7026 **Page No** 2 of 4

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19	CHEMICAL- METALS & ALLOYS	Ferro Alloys	Silicon	IS:1559 (Part-1), RA:2019
20	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel	Mass of zinc coating	IS:6745, RA:2016
21	CHEMICAL- METALS & ALLOYS	Plain Carbon, Low Alloys Steel	Boron	ASTM E350
22	CHEMICAL- METALS & ALLOYS	Plain Carbon, Low Alloys Steel	Niobium	ISO:9441,RA:2016
23	CHEMICAL- METALS & ALLOYS	Plain Carbon, Low Alloys Steel	Tin	ASTM E350-18
24	CHEMICAL- METALS & ALLOYS	plain Carbon, Low Alloys Steel	Tungsten	IS:228(Part-16),RA:2019
25	MECHANICAL- BUILDINGS MATERIALS	Bond in Reinforced Concrete	Pull Out (LOAD RANGE 10KN TO 500 KN)	IS:2770(Part-1), RA 2017
26	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength deformed steel bars and wires for concrete reinforcement	Mass per meter	IS:1786, RA:2018
27	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength deformed steel bars and wires for concrete reinforcement	Re-Bend	IS:1786, RA:2018
28	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel and Alloy steel	Brinell Hardness (HBW)	IS:1500 (Part-1)
29	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel and Alloy Steel	Charpy Impact (- 40 degree Celsius)	IS:1757 (Part-1)
30	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel and Alloy Steel	Izod Impact	IS:1598, RS:2015
31	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel and Alloy Steel	Rockwell Hardness (HRB)	IS:1586 (Part-1)
32	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel and Alloy Steel	Rockwell Hardness (HRC)	IS:1586 (Part-1)
33	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel and Alloy Steel	Scleroscope Hardness	IS:7096, RA:2017

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7026 **Page No** 3 of 4

Validity 27/04/2021 to 26/04/2023 **Last Amended on** -

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34	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel and Alloy Steel (bars/sheet/high strength bars and wires foe concrete reinforcement)	Bend Test for Steel tubes	IS:2329, RA:2017
35	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel and Alloy Steel (bars/sheet/high strength bars and wires foe concrete reinforcement)	Drift Expansion Test of tubes	IS:2335, RA:2017
36	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel and Alloy Steel (bars/sheet/high strength bars and wires foe concrete reinforcement)	Flattening Test of Steel Tubes	IS:2328
37	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel and Alloy Steel (bars/sheet/high strength bars and wires foe concrete reinforcement)	Plastic Strain Ratio (r)	IS:11999, RA:2017
38	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel and Alloy Steel (bars/sheet/high strength bars and wires foe concrete reinforcement)	Surface Roughness (RA)	IS:15262, RA:2019
39	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel and Alloy Steel (bars/sheet/high strength bars and wires foe concrete reinforcement)	Tensile Strain Value (n value)	IS:15756, RA:2017
40	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel and Alloy Steel (bars/sheet/high strength bars and wires foe concrete reinforcement)	Y Groove Weld Crack Ability Test	IS:10842 (Part-1)
41	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel and Alloy Steel (bars/sheet/high strength bars and wires for concrete reinforcement	Yield strength (Load Range 10-1000KN)	IS:1608 (Part-1)
42	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel and Alloy Steel (bars/sheet/high strength bars and wires for concrete reinforcement)	% Elongation	IS:1608 (Part-1)
43	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel and Alloy Steel (bars/sheet/high strength bars and wires for concrete reinforcement)	Bend	IS:1599
44	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel and Alloy steel (bars/sheet/high strength bars and wires for concrete reinforcement)	COLD UPSETTING TEST	IS: 10167, (RA:2017)
45	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel and Alloy Steel (bars/sheet/high strength bars and wires for concrete reinforcement)	Cupping Test	IS:10175
46	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel and Alloy Steel (bars/sheet/high strength bars and wires for concrete reinforcement)	Tensile Strength (Load Range : 10-1000 KN)	IS:1608, (Part-1)
47	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel and Alloy steel (bars/sheet/high strength bars and wires for concrete reinforcement)	VICKERS HARDNESS TEST (HV)	IS:1501 (Part-1)

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Certificate Number TC-7026 **Page No** 4 of 4

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48	MECHANICAL-METALLOGRAPHY TEST	Carbon Steel, Low Alloys Steel, High Alloy Steel & Stainless Steel	DECARBURIZATION	IS 6396, RA:2018
49	MECHANICAL-METALLOGRAPHY TEST	Carbon Steel, Low Alloys Steel, High Alloy Steel & Stainless Steel	GRAIN SIZE OF STEEL	IS 4748, RA 2017
50	MECHANICAL-METALLOGRAPHY TEST	Carbon Steel, Low Alloys Steel, High Alloy Steel & Stainless Steel	HARDENABILITY BY JOMINY END QUENCH TEST (Distance 1.5 mm to 15 mm)	IS 3848, RA:2020
51	MECHANICAL-METALLOGRAPHY TEST	Carbon Steel, Low Alloys Steel, High Alloy Steel & Stainless Steel	Macro Examination of Wrought Steel	IS:11371, RA:2018
52	MECHANICAL-METALLOGRAPHY TEST	Carbon Steel, Low Alloys Steel, High Alloy Steel & Stainless Steel	Microstructure Study	IS:7739 (Part-5), RA:2018 & ASM Vol.9
53	MECHANICAL-METALLOGRAPHY TEST	Carbon Steel, Low Alloys Steel, High Alloy Steel & Stainless Steel	NON METALLIC INCLUSION	IS 4163, RA:2017
54	MECHANICAL-METALLOGRAPHY TEST	Carbon Steel, Low Alloys Steel, High Alloy Steel & Stainless Steel	Sulphur Print Test	IS:12037, RA:2018
55	MECHANICAL-METALLOGRAPHY TEST	Steel and Alloy steel (bars/sheet/high strength bars and wires for concrete reinforcement)	BLUE FRACTURE TEST	IS:10138, (RA:2017)