



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

**NATIONAL INSTITUTE OF SECONDARY STEEL
TECHNOLOGY**

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at

G.T. ROAD, MANDI, GOBINDGARH, FATEHGARH SAHIB, PUNJAB, INDIA

in the field of

TESTING

Certificate Number: TC-7026

Issue Date: 27/04/2021

Valid Until:

26/04/2023

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Identity : NATIONAL INSTITUTE OF SECONDARY STEEL TECHNOLOGY

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer



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

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Validity

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Last Amended on

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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 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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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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34	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel and Alloy Steel (bars/sheet/high strength bars and wires for 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 for 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 for 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 for 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 for 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 for 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 for 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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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)