National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : MANJULA LABORATORIES, A DIVISION OF PIONEER NUTS & BOLTS (P) LTD, 13-B FRIENDS INDUSTRIAL ESTATE FOCAL POINT, LUDHIANA, PUNJAB, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7820 **Page No** 1 of 4

Validity 20/10/2021 to 19/10/2023 **Last Amended on** 25/11/2021

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	Ferrous base Plain carbon steel Mild steel Low alloy steel	Al	ASTM E415
2	CHEMICAL- METALS & ALLOYS	Ferrous base Plain carbon steel Mild steel Low alloy steel	B	ASTM E415
3	CHEMICAL- METALS & ALLOYS	Ferrous base Plain carbon steel Mild steel Low alloy steel	Cr	ASTM E415
4	CHEMICAL- METALS & ALLOYS	Ferrous base Plain carbon steel Mild steel Low alloy steel	Cu	ASTM E415
5	CHEMICAL- METALS & ALLOYS	Ferrous base Plain carbon steel Mild steel Low alloy steel	Mo	ASTM E415
6	CHEMICAL- METALS & ALLOYS	Ferrous base Plain carbon steel Mild steel Low alloy steel	Ni	ASTM E415
7	CHEMICAL- METALS & ALLOYS	Ferrous base Plain carbon steel Mild steel Low alloy steel	Si	ASTM E415
8	CHEMICAL- METALS & ALLOYS	Ferrous base Plain carbon steel Mild steel Low alloy steel	V	ASTM E415
9	CHEMICAL- METALS & ALLOYS	Ferrous base Plain carbon steel Mild steel Low alloy steel	C	ASTM E415
10	CHEMICAL- METALS & ALLOYS	Ferrous base Plain carbon steel Mild steel Low alloy steel	Mn	ASTM E415
11	CHEMICAL- METALS & ALLOYS	Ferrous base Plain carbon steel Mild steel Low alloy steel	P	ASTM E415
12	CHEMICAL- METALS & ALLOYS	Ferrous base Plain carbon steel Mild steel Low alloy steel	S	ASTM E415
13	CHEMICAL- METALS & ALLOYS	Ferrous base plain carbon steel mild steel low alloy steel	Al	IS 8811
14	CHEMICAL- METALS & ALLOYS	Ferrous base plain carbon steel mild steel low alloy steel	B	IS 8811
15	CHEMICAL- METALS & ALLOYS	Ferrous Base Plain carbon steel mild steel low alloy steel	C	IS 8811
16	CHEMICAL- METALS & ALLOYS	Ferrous base plain carbon steel mild steel low alloy steel	Cr	IS 8811
17	CHEMICAL- METALS & ALLOYS	Ferrous base plain carbon steel mild steel low alloy steel	Cu	IS 8811
18	CHEMICAL- METALS & ALLOYS	Ferrous base plain carbon steel mild steel low alloy steel	Mn	IS 8811

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19	CHEMICAL- METALS & ALLOYS	Ferrous base plain carbon steel mild steel low alloy steel	Mo	IS 8811
20	CHEMICAL- METALS & ALLOYS	Ferrous base plain carbon steel mild steel low alloy steel	Ni	IS 8811
21	CHEMICAL- METALS & ALLOYS	Ferrous base plain carbon steel mild steel low alloy steel	P	IS 8811
22	CHEMICAL- METALS & ALLOYS	Ferrous base plain carbon steel mild steel low alloy steel	S	IS 8811
23	CHEMICAL- METALS & ALLOYS	Ferrous base plain carbon steel mild steel low alloy steel	Si	IS 8811
24	CHEMICAL- METALS & ALLOYS	Ferrous base plain carbon steel mild steel low alloy steel	V	IS 8811
25	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Brinell Hardness (HBW)	IS 1500 Part1
26	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Charpy Impact (At 0°C & Room Temp)	ASTM A370
27	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Charpy Impact (AT 0°C & Room Temp)	IS 1757 Part1
28	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Charpy Impact (at -20 degree C)	BS EN ISO 148 Part1
29	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Charpy Impact (at -20 degree)	IS 1757 Part1
30	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Elongation	ASTM A370
31	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Elongation	IS 1608 Part1
32	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Proof Load For Nut	1367 Part6
33	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Proof Load Test (Nut)	ASTM F606

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34	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Reduction Area	ASTM A370
35	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Reduction Area	IS 1608 Part1
36	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Rockwell Hardness (HRB)	ASTM A370
37	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Rockwell Hardness (HRB)	IS 1586 Part1
38	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Rockwell Hardness (HRC)	ASTM A370
39	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Rockwell Hardness (HRC)	IS 1586 Part1
40	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Tensile Load Under Wedge Loading	ASTM A370
41	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Tensile Load Under Wedge Loading	IS 1367 Part 3
42	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Tensile Strength	ASTM A370
43	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Tensile Strength	IS 1608 Part1
44	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Vicker's Hardness (HV)	IS 1501 Part 1
45	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Yield Strength	ASTM A370
46	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel	Yield Strength	IS 1608 Part1
47	MECHANICAL-METALLOGRAPHY TEST	Steel	Coating Thickness	IS 3203

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48	MECHANICAL-METALLOGRAPHY TEST	Steel	Decarburization Depth (Microscopic method) (Magnification 100X)	IS 6396
49	MECHANICAL-METALLOGRAPHY TEST	Steel	Grain Size (Microscopic method) (Magnification 100X)	IS 4748
50	MECHANICAL-METALLOGRAPHY TEST	Steel	Inclusion Rating (Microscopic Method)	IS 4163