National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TTP TECHNOLOGIES PVT LTD (TESTING LABORATORY), #36 KIADB INDUSTRIAL AREA HIREHALLI, TUMKUR, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 08/02/2023 to 07/02/2025 **Last Amended on** 16/02/2023

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- CORROSION TESTS	1. Metal & its alloys, Coated/ Plated materials 2. Painted and powder coated articles 3. Hot Dip Galvanized items	Salt spray test	ASTM B117
2	CHEMICAL- CORROSION TESTS	1. Metal & its alloys, Coated/ Plated materials 2. Painted and powder coated articles 3. Hot Dip Galvanized items	Salt Spray Test	ISO 9227
3	CHEMICAL- METALS & ALLOYS	Austenitic & Ferrite Stainless Steels	C	IS 9879
4	CHEMICAL- METALS & ALLOYS	Austenitic & Ferrite Stainless Steels	Co	TTP/OES/SOP03 Issue Np.00 October 10:2017
5	CHEMICAL- METALS & ALLOYS	Austenitic & Ferrite Stainless Steels	Cr	IS 9879
6	CHEMICAL- METALS & ALLOYS	Austenitic & Ferrite Stainless Steels	Cr	TTP/OES/SOP03 Issue No.00 October 10:2017
7	CHEMICAL- METALS & ALLOYS	Austenitic & Ferrite Stainless Steels	Cu	TTP/OES/SOP03 Issue No.00 October 10:2017
8	CHEMICAL- METALS & ALLOYS	Austenitic & Ferrite Stainless Steels	Mo	TTP/OES/SOP03 Issue No.00 October 10:2017
9	CHEMICAL- METALS & ALLOYS	Austenitic & Ferrite Stainless Steels	N	TTP/OES/SOP03 Issue No.00 October 10:2017
10	CHEMICAL- METALS & ALLOYS	Austenitic & Ferrite Stainless Steels	Nb	TTP/OES/SOP03 Issue No.00 October 10:2017
11	CHEMICAL- METALS & ALLOYS	Austenitic & Ferrite Stainless Steels	Ni	IS 9879
12	CHEMICAL- METALS & ALLOYS	Austenitic & Ferrite Stainless Steels	Ni	TTP/OES/SOP03 Issue No.00 October 10:2017
13	CHEMICAL- METALS & ALLOYS	Austenitic & Ferrite Stainless Steels	P	IS 9879
14	CHEMICAL- METALS & ALLOYS	Austenitic & Ferrite Stainless Steels	S	IS 9879
15	CHEMICAL- METALS & ALLOYS	Austenitic & Ferrite Stainless Steels	S	TTP/OES/SOP03 Issue No.00 October 10:2017
16	CHEMICAL- METALS & ALLOYS	Austenitic & Ferrite Stainless Steels	Si	IS 9879
17	CHEMICAL- METALS & ALLOYS	Austentic & Ferrite Stainless Steels	Al	TTP/OES/SOP03 Issue No.00 October 10:2017
18	CHEMICAL- METALS & ALLOYS	Austentic & Ferrite Stainless Steels.	Cu	IS 9879

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19	CHEMICAL- METALS & ALLOYS	Austentic & Ferrite Stainless Steels.	Mn	IS 9879
20	CHEMICAL- METALS & ALLOYS	Austentic & Ferrite Stainless Steels.	Mo	IS 9879
21	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Ag	BS EN 15079
22	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Al	BS EN 15079
23	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Cr	BS EN 15079
24	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Fe	BS EN 15079
25	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Ni	BS EN 15079
26	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	P	BS EN 15079
27	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Pb	BS EN 15079
28	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	S	BS EN 15079
29	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Sn	BS EN 15079
30	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Zr	BS EN 15079
31	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steels	Al	IS 8811
32	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steels	C	IS 8811
33	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steels	Cr	IS 8811
34	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steels	Cu	IS 8811
35	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steels	Mn	IS 8811
36	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steels	Mo	IS 8811
37	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steels	Mo	TTP/OES/SOP02 Issue No.00 October:2017

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38	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steels	Ni	TTP/OES/SOP02 Issue No.00 October 10:2017
39	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steels	P	IS 8811
40	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steels	S	IS 8811
41	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steels	S	TTP/OES/SOP02 Issue No.00 October 10:2017
42	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steels	Si	IS 8811
43	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steels	Si	TTP/OES/SOP02 Issue No.00 October 10:2017
44	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steels	Sn	IS 8811
45	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steels	Sn	TTP/OES/SOP02 Issue No.00 October 10:2017
46	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steels.	Ni	IS 8811
47	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Al	IS 2599
48	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Al	TTP/OES/SOP01 Issue No.00 June 16:2016
49	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Cd	TTP/OES/SOP01 Issue No.00 June 16:2016
50	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Cu	IS 2599
51	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Cu	TTP/OES/SOP01 Issue No.00 June 16
52	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Fe	TTP/OES/SOP01 Issue No.00 June 16
53	CHEMICAL- METALS & ALLOYS	Zinc & its alloys	Pb	IS 2599
54	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Pb	TTP/OES/SOP01 Issue No.00 June 16:2016
55	CHEMICAL- METALS & ALLOYS	Zinc & its alloys	Sn	IS 2599
56	CHEMICAL- METALS & ALLOYS	Zinc & its Alloys	Sn	TTP/OES/SOP01 Issue No.00 June 16

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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
57	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Fe	IS 2599
58	CHEMICAL- METALS & ALLOYS	Zinc& its alloys	Cd	IS 2599
59	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Destructive Test on Welded Products	Bend Test	ASME BPVC Section IX (QW-160)
60	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Destructive test on Welded Products	Bend Test	BS EN ISO 5173:2010 Amd 1
61	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Destructive Test on Welded Products	Bend Test	ISO 15614-1 (7.4.2)
62	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Destructive test on Welded Products	Tensile Strength (Load Range: 0.5kN to 200kN)	ASME BPVC Section IX (QW-150)
63	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Destructive test on Welded Products	Tensile Strength (Load Range: 0.5kN to 200kN)	ISO 15614-1
64	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Destructive test on Welded Products	Tensile Strength (Load Range: 0.5kN to 200kN)	ISO 4136
65	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Destructive Test on Welded Products	Vickers Hardness -HV10	ISO 9015-1
66	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Destructive test on Welded Products.	Peel Test (resistance spot, seam and embossed projection welds)	ISO 14270
67	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Destructive test on Welded Products.	Tensile Shear Test (Resistance spot and embossed projection welds)	ISO 14273
68	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Destructive test on Welded Products.	Tensile Strength (Load Range: 0.5kN to 200kN)	ISO 15614-12
69	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials, alloys & products	Rockwell Hardness - HRBW	IS 1586-1
70	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials, alloys & products	Rockwell Hardness - HRC	IS 1586-1

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71	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials, alloys & products	Vickers Hardness - HV10	IS 1501-1
72	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous metals, alloys and products	Superficial Rockwell - HR30TW	IS 1586-1
73	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Products	% Reduction of Area	ASTM E8/E8M
74	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Products	% Reduction of Area	ASTM A370
75	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Products	% Reduction of Area	IS 1608-1
76	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Products	% Reduction of Area	ISO 6892-1 (Method B)
77	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Products	Bend Test	ASTM A370
78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Products	Bend Test	IS 1599 (Method a)
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Products	Bend Test	ISO 7438 (Method a)
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Products	Elongation after fracture	ASTM A370
81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Products	Elongation after fracture	ASTM E8/E8M
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Products	Elongation after fracture	IS 1608-1
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Products	Elongation after fracture	ISO 6892-1 (Method B)
84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Products	Proof strength, Rp0.2 (Load Range: 4kN to 200kN)	IS 1608-1

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85	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Products	Proof strength, Rp0.2 (Load Range: 4kN to 200kN)	ISO 6892-1 (Method B)
86	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Products	Tensile Strength (Load Range: 0.5kN to 200kN)	ASTM A370
87	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Products	Tensile Strength (Load Range: 0.5kN to 200kN)	ASTM E8/E8M
88	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Products	Tensile Strength (Load Range: 0.5kN to 200kN)	IS 1608-1
89	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Products	Tensile Strength (Load Range: 0.5kN to 200kN)	ISO 6892-1 B
90	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Products	Yield strength (Load Range: 4kN to 200kN)	ASTM E8/E8M
91	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Products	Yield strength (Load Range: 4kN to 200kN)	IS 1608-1
92	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Products	Yield strength (Load Range: 4kN to 200kN)	ISO 6892-1
93	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Products	Yield strength (0.2% offset) (Load Range: 4kN to 200kN)	ASTM A370
94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Products	Yield strength (Load Range: 4kN to 200kN)	ASTM A370
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast Products	Yield strength (offset=0.2%) (Load Range: 4kN to 200kN)	ASTM E8/E8M
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast products / Welded Products	Charpy impact test RT to -80 Deg C	IS 1757-1
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought and Cast products / Welded Products	Charpy impact test RT to -80 Deg C	ISO 148-1
98	MECHANICAL-METALLOGRAPHY TEST	Weld and Weld test Specimens (Aluminium, Stainless Steel, Hot and Cold rolled products)	Macrostructural Analysis	ISO 17639

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99	MECHANICAL-METALLOGRAPHY TEST	Welds & welded test specimens (Stainless Steel, Hot and Cold rolled products)	Macrostructural Analysis	ASME BPVC Section IX
100	MECHANICAL-METALLOGRAPHY TEST	Welds & welded test specimens (Stainless Steel, Hot and Cold rolled products)	Macrostructural Analysis	ISO 15614-1
101	MECHANICAL-METALLOGRAPHY TEST	Welds & welded test specimens (Aluminum, Alloys and products)	Macrostructural Analysis	ISO 15614-2
102	MECHANICAL-METALLOGRAPHY TEST	Welds & welded test specimens (Stainless Steel, Hot and Cold rolled products)	Assessment of macrostructural analysis of weld joints for quality level	EN ISO 5817