National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SHIV NDT AND INDUSTRIAL INSPECTION SERVICES, PLOT NO.122/7, SHOP NO. 2 & 6, PREETI PLAZA, PURNANAGAR, CHINCHWAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6655 **Page No** 1 of 10

Validity 16/02/2023 to 15/02/2025 **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 (Low Carbon, Medium Carbon & High Carbon Steel)	Cobalt	ASTM E 415
2	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low Carbon, Medium Carbon & High Carbon Steel)	Cobalt	IS 8811
3	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low Carbon, Medium Carbon & High Carbon Steel)	Niobium	ASTM E 415
4	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low Carbon, Medium Carbon & High Carbon Steel)	Niobium	IS 8811
5	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low Carbon, Medium Carbon & High Carbon Steel)	Nitrogen	ASTM E 415
6	CHEMICAL- METALS & ALLOYS	carbon Steel (Low Carbon, Medium Carbon & High Carbon Steel)	Silicon	IS 8811
7	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low Carbon, Medium Carbon & High Carbon Steel)	Titanium	ASTM E 415
8	CHEMICAL- METALS & ALLOYS	carbon Steel (Low Carbon, Medium Carbon & High Carbon Steel)	Titanium	IS 8811
9	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low carbon, medium carbon & high carbon steel)	Carbon	IS 8811
10	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low carbon, medium carbon & high carbon steel)	Chromium	IS 8811
11	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low carbon, medium carbon & high carbon steel)	Manganese	IS 8811
12	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low carbon, medium carbon & high carbon steel)	Nickel	IS 8811
13	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low carbon, medium carbon & high carbon steel)	Phosphorous	IS 8811
14	CHEMICAL- METALS & ALLOYS	Carbon Steel (Low carbon, medium carbon & high carbon steel)	Sulphur	IS 8811
15	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon)	Aluminum	ASTM E 415
16	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon)	Aluminum	IS 8811
17	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon)	Boron	ASTM E 415
18	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon)	Boron	IS 8811

SCOPE OF ACCREDITATION

Laboratory Name : SHIV NDT AND INDUSTRIAL INSPECTION SERVICES, PLOT NO.122/7, SHOP NO. 2 & 6, PREETI PLAZA, PURNANAGAR, CHINCHWAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6655 **Page No** 2 of 10

Validity 16/02/2023 to 15/02/2025 **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
19	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon)	Carbon	ASTM E 415
20	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon)	Chromium	ASTM E 415
21	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon)	Copper	ASTM E 415
22	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon)	Copper	IS 8811
23	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon)	Manganese	ASTM E 415
24	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon)	Molybdenum	ASTM E 415
25	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon)	Molybdenum	IS 8811
26	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon)	Nickel	ASTM E 415
27	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon)	Phosphorous	ASTM E 415
28	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon)	Silicon	ASTM E 415
29	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon)	Sulphur	ASTM E 415
30	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon)	Vanadium	ASTM E 415
31	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon)	Vanadium	IS 8811
32	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Aluminum	ASTM E 3047
33	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Boron	ASTM E 3047
34	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Carbon	ASTM E 3047
35	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Chromium	ASTM E 3047
36	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Cobalt	ASTM E 3047
37	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Copper	ASTM E 3047

SCOPE OF ACCREDITATION

Laboratory Name : SHIV NDT AND INDUSTRIAL INSPECTION SERVICES, PLOT NO.122/7, SHOP NO. 2 & 6, PREETI PLAZA, PURNANAGAR, CHINCHWAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6655 **Page No** 3 of 10

Validity 16/02/2023 to 15/02/2025 **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
38	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Iron	ASTM E 3047
39	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Manganese	ASTM E 3047
40	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Molybdenum	ASTM E 3047
41	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Niobium	ASTM E 3047
42	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Phosphorous	ASTM E 3047
43	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Silicon	ASTM E 3047
44	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Sulphur	ASTM E 3047
45	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Titanium	ASTM E 3047
46	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Tungsten	ASTM E 3047
47	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Vanadium	ASTM E 3047
48	CHEMICAL- METALS & ALLOYS	Stainless steel	Boron	SOP SNIIS/TP-C/02
49	CHEMICAL- METALS & ALLOYS	Stainless steel	Carbon	ASTM E 1086
50	CHEMICAL- METALS & ALLOYS	Stainless steel	Carbon	IS 9879
51	CHEMICAL- METALS & ALLOYS	Stainless steel	Chromium	ASTM E 1086
52	CHEMICAL- METALS & ALLOYS	Stainless steel	Chromium	IS 9879
53	CHEMICAL- METALS & ALLOYS	Stainless steel	Cobalt	SOP SNIIS/TP-C/02
54	CHEMICAL- METALS & ALLOYS	Stainless steel	Copper	ASTM E 1086
55	CHEMICAL- METALS & ALLOYS	Stainless steel	Copper	IS 9879
56	CHEMICAL- METALS & ALLOYS	Stainless steel	Manganese	ASTM E 1086

SCOPE OF ACCREDITATION

Laboratory Name : SHIV NDT AND INDUSTRIAL INSPECTION SERVICES, PLOT NO.122/7, SHOP NO. 2 & 6, PREETI PLAZA, PURNANAGAR, CHINCHWAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6655 **Page No** 4 of 10

Validity 16/02/2023 to 15/02/2025 **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
57	CHEMICAL- METALS & ALLOYS	Stainless steel	Manganese	IS 9879
58	CHEMICAL- METALS & ALLOYS	Stainless steel	Molybdenum	ASTM E 1086
59	CHEMICAL- METALS & ALLOYS	Stainless steel	Molybdenum	IS 9879
60	CHEMICAL- METALS & ALLOYS	Stainless steel	Nickel	ASTM E 1086
61	CHEMICAL- METALS & ALLOYS	Stainless steel	Nickel	IS 9879
62	CHEMICAL- METALS & ALLOYS	Stainless steel	Nitrogen	SOP SNIIS/TP-C/02
63	CHEMICAL- METALS & ALLOYS	Stainless steel	Phosphorous	ASTM E 1086
64	CHEMICAL- METALS & ALLOYS	Stainless steel	Phosphorous	IS 9879
65	CHEMICAL- METALS & ALLOYS	Stainless steel	Silicon	ASTM E 1086
66	CHEMICAL- METALS & ALLOYS	Stainless steel	Silicon	IS 9879
67	CHEMICAL- METALS & ALLOYS	Stainless steel	Sulphur	ASTM E 1086
68	CHEMICAL- METALS & ALLOYS	Stainless steel	Sulphur	IS 9879
69	CHEMICAL- METALS & ALLOYS	Stainless steel	Titanium	SOP SNIIS/TP-C/02
70	CHEMICAL- METALS & ALLOYS	Stainless steel	Vanadium	SOP SNIIS/TP-C/02
71	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non ferrous Material	Cupping Test	IS 10175
72	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials – Tubes	Flanging Test	ASTM A 450
73	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials – Tubes	Drift Expansion	ASTM A 450

SCOPE OF ACCREDITATION

Laboratory Name : SHIV NDT AND INDUSTRIAL INSPECTION SERVICES, PLOT NO.122/7, SHOP NO. 2 & 6, PREETI PLAZA, PURNANAGAR, CHINCHWAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6655 **Page No** 5 of 10

Validity 16/02/2023 to 15/02/2025 **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
74	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials – Tubes	Flanging Test	ASTM A 370
75	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials – Tubes	Flattening Test	ASTM A370
76	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials – Tubes	Flattening Test	ASTM A450
77	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials – Tubes	Flattening Test	IS 2328
78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Stainless steel Tubes	Drift Expansion	ASTM A370
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel & Stainless steel Tubes	Drift Expansion	IS 2335
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel	Charpy Impact Test (‘V’ Notch) (-)196°C & (-) 110°C To 35°C	ASTM A370
81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel	Charpy Impact Test (‘V’ Notch) (-)196°C & (-) 110°C To 35°C	ASTM E23
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel	Charpy Impact Test (‘V’ Notch) (-)196°C & (-) 110°C To 35°C	IS 1757 (Part 1)
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel	Charpy Impact Test (‘V’ Notch) (-)196°C & (-) 110°C To 35°C	ISO 148 (Part 1
84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment	% Elongation	ASTM A370
85	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment	% Reduction Area	ASTM A370
86	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment	Bend Test	ASTM A370
87	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment	Brinelll hardness Test	ASTM A370

SCOPE OF ACCREDITATION

Laboratory Name : SHIV NDT AND INDUSTRIAL INSPECTION SERVICES, PLOT NO.122/7, SHOP NO. 2 & 6, PREETI PLAZA, PURNANAGAR, CHINCHWAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6655 **Page No** 6 of 10

Validity 16/02/2023 to 15/02/2025 **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
88	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment	Rockwell hardness Test	ASTM A370
89	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment	Rockwell hardness Test	ASTM A370
90	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment	Ultimate Tensile Strength	ASTM A370
91	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment	Yield Stress by software	ASTM A370
92	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment	Yield Stress by 0.1% extension	ASTM A 370
93	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment, Aluminium & copper alloys	% Elongation	ASME SEC II SA370
94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment, Aluminium & copper alloys	% Elongation	ASTM E8/E8M
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment, Aluminium & copper alloys	% Elongation	ASTM SEC IX
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment, Aluminium & copper alloys	% Elongation	IS 1608-Part 1
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment, Aluminium & copper alloys	% Reduction Area	ASME SEC II SA370
98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment, Aluminium & copper alloys	% Reduction Area	ASTM E8/E8M
99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment, Aluminium & copper alloys	% Reduction Area	ASTM SEC IX
100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment, Aluminium & copper alloys	% Reduction Area	IS 1608-Part 1
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment, Aluminium & copper alloys	0.2% Proof Stress	IS 1608-Part 1

SCOPE OF ACCREDITATION

Laboratory Name : SHIV NDT AND INDUSTRIAL INSPECTION SERVICES, PLOT NO.122/7, SHOP NO. 2 & 6, PREETI PLAZA, PURNANAGAR, CHINCHWAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6655 **Page No** 7 of 10

Validity 16/02/2023 to 15/02/2025 **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
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment, Aluminium & copper alloys	0.5% Proof Stress	ASTM A 370
103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment, Aluminium & copper alloys	Bend Test	ASME SEC IX
104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment, Aluminium & copper alloys	Bend Test	ASTM SEC IX
105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment, Aluminium & copper alloys	Bend Test	IS 1599
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment, Aluminium & copper alloys	Brinelll hardness Test	ASTM E10
107	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment, Aluminium & copper alloys	Brinelll hardness Test	IS 1500 (Part 1)
108	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment, Aluminium & copper alloys	Flanging Test	IS 2330
109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment, Aluminium & copper alloys	Rockwell hardness Test	ASTM E18
110	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment, Aluminium & copper alloys	Rockwell hardness Test	ASTM E18
111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment, Aluminium & copper alloys	Rockwell hardness Test	IS 1586 (Part 1)
112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment, Aluminium & copper alloys	Rockwell hardness Test	IS 1586 (Part 1)
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment, Aluminium & copper alloys	Ultimate Tensile Strength	ASME II SA370
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment, Aluminium & copper alloys	Ultimate Tensile Strength	ASTM E8/E8M
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment, Aluminium & copper alloys	Ultimate Tensile Strength	ASTM SEC IX

SCOPE OF ACCREDITATION

Laboratory Name : SHIV NDT AND INDUSTRIAL INSPECTION SERVICES, PLOT NO.122/7, SHOP NO. 2 & 6, PREETI PLAZA, PURNANAGAR, CHINCHWAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6655 **Page No** 8 of 10

Validity 16/02/2023 to 15/02/2025 **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
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment, Aluminium & copper alloys	Ultimate Tensile Strength	IS 1608-Part 1
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment, Aluminium & copper alloys	Yield Stress	ASME II SA370
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment, Aluminium & copper alloys	Yield Stress	ASTM E8/E8M
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment, Aluminium & copper alloys	Yield Stress by sofrware	ASTM SEC IX
120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment, Aluminium & copper alloys	Yield Stress	IS 1608-Part 1
121	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment, Aluminium & copper alloys	Yield Stress	ISO 6892-1
122	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment, Aluminium & copper alloys	Yield Stress by 0.2% extension	ASME II SA370
123	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment, Aluminium & copper alloys	Yield Stress by 0.2% extension	ASTM E8/E8M
124	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Stainless steel, Cast Iron, Weldment, Aluminium & copper alloys	Yield Stress by 0.2% extension	ASTM SEC IX
125	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Threaded Fastener (Nut)	Proof Load Test	IS 1367 (Part 6)
126	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Threaded Fastener (Nut)	Proof Load Test	ISO 898 (Part 2)
127	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Material	Macro etch test & measurement of throat, leg length, concavity convexity & weld penetration	BS EN ISO 17639
128	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Material	Macro etch test & measurement of throat, leg length, concavity convexity & weld penetration	IS 3600 (Part 9)

SCOPE OF ACCREDITATION

Laboratory Name : SHIV NDT AND INDUSTRIAL INSPECTION SERVICES, PLOT NO.122/7, SHOP NO. 2 & 6, PREETI PLAZA, PURNANAGAR, CHINCHWAD, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6655 **Page No** 9 of 10

Validity 16/02/2023 to 15/02/2025 **Last Amended on** -

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129	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Material	Macro etch test & measurement of throat, leg length, concavity convexity & weld penetration	IS 7310 (Part 1)
130	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Material	Macro etch test & measurement of throat, leg length, concavity convexity & weld penetration	IS 7318 (Part 1)
131	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non Ferrous Material	Macro etch test & measurement of throat, leg length, concavity convexity & weld penetration	ASTM E340
132	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material Alloys & Products	Resistance to Inter granular corrosion Practice "A" by Comparison Method	ASTM A262
133	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material Alloys & Products	Resistance to Inter granular corrosion Practice "B"	ASTM A262
134	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material Alloys & Products	Resistance to Inter granular corrosion Practice "C"	ASTM A262
135	MECHANICAL-METALLOGRAPHY TEST	Ferrous Material Alloys & Products	Resistance to Inter granular corrosion Practice "E"	ASTM A262
136	MECHANICAL-METALLOGRAPHY TEST	Metals Steel Bars, Billets, Blooms Forgings	Macro Structure Analysis	IS 11371
137	MECHANICAL-METALLOGRAPHY TEST	Metals Steel Bars, Billets, Blooms Forgings	Macro Structure Analysis	IS 13015
138	MECHANICAL-METALLOGRAPHY TEST	Steel & Stainless steel	Average grain size measurement by comparison method	ASTM E112
139	MECHANICAL-METALLOGRAPHY TEST	Steel & Stainless steel	Average grain size measurement by comparison method	IS 4748
140	MECHANICAL-METALLOGRAPHY TEST	Steel & Stainless steel	Case Depth Measurements	IS 6416
141	MECHANICAL-METALLOGRAPHY TEST	Steel & Stainless steel	Depth of Decarburisation	IS 6396
142	MECHANICAL-METALLOGRAPHY TEST	Steel & Stainless steel	Microstructure Examination	ASM Handbook Vol.9 - Microstructure Atlas
143	MECHANICAL-METALLOGRAPHY TEST	Steel & Stainless steel	Non Metallic Inclusion Rating Type A, B, C & D	ASTM E 45

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	SHIV NDT AND INDUSTRIAL INSPECTION SERVICES, PLOT NO.122/7, SHOP NO. 2 & 6, PREETI PLAZA, PURNANAGAR, CHINCHWAD, PUNE, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6655	**Page No**	10 of 10
Validity	16/02/2023 to 15/02/2025	**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
144	MECHANICAL-METALLOGRAPHY TEST	Steel & Stainless steel	Non Metallic Inclusion Rating Type A, B, C & D	IS 4163