National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : KVS METALLURGICAL LABS, PLOT NO.47,SHOP NO.4,TIE BALANAGAR, HYDERABAD, MEDCHAL MALKAJGIRI, TELANGANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 07/10/2022 to 06/10/2024 **Last Amended on** 06/01/2023

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	Galvanized Products / Panels / Raw Materials	Corrosion Resistance testing	ASTM B 117
2	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Chromium	ASTM E 1251
3	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Copper	ASTM E 1251
4	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Iron	ASTM E 1251
5	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Magnesium	ASTM E 1251
6	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Manganese	ASTM E 1251
7	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Nickel	ASTM E 1251
8	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Silicon	ASTM E 1251
9	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Tin	ASTM E 1251
10	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Titanium (Ti)	ASTM E 1251
11	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Vanadium	ASTM E 1251
12	CHEMICAL- METALS & ALLOYS	Aluminium Alloys	Zinc	ASTM E 1251
13	CHEMICAL- METALS & ALLOYS	Aluminum Alloys	Lead (Pb)	AST M 1251
14	CHEMICAL- METALS & ALLOYS	Copper Alloys	Aluminum (Al)	BS EN 15079
15	CHEMICAL- METALS & ALLOYS	Copper Alloys	Antimony (Sb)	BS EN 15079
16	CHEMICAL- METALS & ALLOYS	Copper alloys	Arsenic (As)	BS EN 15079
17	CHEMICAL- METALS & ALLOYS	Copper Alloys	Bismuth (Bi)	BS EN 15079
18	CHEMICAL- METALS & ALLOYS	Copper Alloys	Cobalt (Co)	BS EN 15079

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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
19	CHEMICAL- METALS & ALLOYS	Copper Alloys	Iron (Fe)	EN 15079
20	CHEMICAL- METALS & ALLOYS	Copper alloys	Lead (Pb)	EN 15079
21	CHEMICAL- METALS & ALLOYS	Copper Alloys	Nickel	BS EN 15079
22	CHEMICAL- METALS & ALLOYS	Copper Alloys	Phosphorus (P)	BS EN 15079
23	CHEMICAL- METALS & ALLOYS	Copper Alloys	Silicon (Si)	BS EN 15079
24	CHEMICAL- METALS & ALLOYS	Copper Alloys	Silver (Ag)	BS EN 15079
25	CHEMICAL- METALS & ALLOYS	Copper Alloys	Sulphur (S)	BS EN 15079
26	CHEMICAL- METALS & ALLOYS	Copper Alloys	Tin (Sn)	BS EN 15079
27	CHEMICAL- METALS & ALLOYS	Copper Alloys	Zinc (Zn)	EN 15079
28	CHEMICAL- METALS & ALLOYS	Low alloy steel	Aluminium (Al)	ASTM E 415
29	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Aluminum (Al)	IS 8811
30	CHEMICAL- METALS & ALLOYS	Low Alloy steel	Carbon (C)	ASTM E 415
31	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Carbon (C)	IS 8811
32	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Chromium (Cr)	ASTM E 415
33	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Chromium (Cr)	IS 8811
34	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Cobalt (Co)	ASTM E 415
35	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Cobalt (Co)	IS 8811
36	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Copper (Cu)	ASTM E 415
37	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Copper (Cu)	IS 8811

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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
38	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Manganese (Mn)	ASTM E 415
39	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Manganese (Mn)	IS 8811
40	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Molybdenum (Mo)	ASTM E 415
41	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Molybdenum (Mo)	IS 8811
42	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nickel (Ni)	ASTM E 415
43	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Phosphorus (P)	ATM E 415
44	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Phosphorus (P)	IS 8811
45	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Silicon (Si)	ASTM E 415
46	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Silicon (Si)	IS 8811
47	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Sulphur (S)	ASTM E 415
48	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Sulphur (S)	IS 8811
49	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Vanadium (V)	ASTM E 415
50	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Vanadium (V)	IS 8811
51	CHEMICAL- METALS & ALLOYS	Low Ally Steel	Nickel (Ni)	IS 8811
52	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon (C)	ASTM E 1086
53	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon (C)	IS 9879
54	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium (Cr)	ASTM E 1086
55	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium (Cr)	IS 9879
56	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper (Cu)	ASTM 1086

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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	Stainless Steel	Copper (Cu)	IS 9879
58	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese (Mn)	ASTM E 1086
59	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese (Mn)	IS 9879
60	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum (Mo)	ASTM E 1086
61	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum (Mo)	IS 9879
62	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel (Ni)	ASTM E 1086
63	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel (Ni)	IS 9879
64	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus (P)	ASTM E1086
65	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus (P)	IS 9879
66	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon (Si)	ASTM E 1086
67	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon (Si)	IS 9879
68	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur (S)	ASTM E 1086
69	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur (S)	IS 9879
70	CHEMICAL- METALS & ALLOYS	Zinc Coated iron and steel articles	Mass of Zinc Coating(Single Spot)	IS 6745
71	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Alloys	0.2% Offset	ASTM B 557
72	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Alloys	Tensile Test	ASTM B 557
73	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Destructive tests on weld in metallic materials	Root Bend Test, Face Bend Test & Side Bend Test	ISO 5173

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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
74	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Brinell Hardness (Load 10mm/3000 Kg)	ASTM E 10
75	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous materials	Brinell Hardness 10mm/3000Kg Load	IS 1500
76	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous alloys	Bend Test (Plate, Bars, Strips, Sections & Sheets)	ASTM E290
77	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous alloys	Bend Test (Plate, Bars, Strips, Sections & Sheets)	IS 1599
78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Material	% Elongation	ASTME8/E8M
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Material	% Reduction of Area	ASTM E8/E8M
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Material	0.2% Offset (Machine calibrated as per ASTM E4) by extensometer meter method	ASTM E8/E8M
81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Material	0.2% Proof Strength	IS 1608 (Part-1)
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Material	Charpy impact Test -70°C to Room Temperature	IS 1757 (Part-1)
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Material	Charpy Test -70°c to Room Temperature	EN ISO 148-1
84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Material	Elongation	IS 1608 (Part-1)
85	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Material	Reduction of Area	IS 1608(Part 1)
86	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Material	Rockwell hardness in 'C' Scale	IS 1586 (Part -1)
87	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Material	Rockwell Hardness Test in 'B' Scale	IS 1586 (Part 1)

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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
88	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Material	Tensile Test	ASTM E8/E8
89	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Material	Tensile Test	IS 1608 (Part-1)
90	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Materials	Vickers Hardness (10kg Load)	ASTM E92
91	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Materials	Vickers Hardness (Load 5Kg)	IS 1501:Part 1
92	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-ferrous materials	Brinell Hardness Test (Load 5mm/750Kg)	ASTM E 10
93	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous materials	Brinell Hardness Test (5mm/750kg)	IS 1500
94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-ferrous materials	Fracture test	ISO 9017
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-ferrous materials	Hardness test on arc welded joints Vickers Hardness (Load 5Kg)	ISO 9015-1
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-ferrous materials	Macroscopic and Microscopic examination of Welds	ISO 17639
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Materials	Vickers Hardness (Load 5Kg)	ASTM E92
98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-Ferrous Materials	Vickers Hardness (10kg Load)	IS 1501 part 1
99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Hardness test on arc welded joints Vickers Hardness (Load 10Kg)	ISO 9015-1
100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fusion Weld Joints Ferrous Materials Carbon steel & Stainless Steel	Root Bend Test, Face Bend Test & Side Bend Test	ASME SEC IX
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fusion Weld Joints Ferrous Materials Carbon steel & Stainless Steel	Root Bend Test, Face Bend Test & Side Bend Test	AWS D 1.1 D1.1M

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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
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fusion Weld Joints in Metals	Side Bend	ASTM E 190
103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fusion weld joints in metals	Fracture test	ASME Sec.IX
104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fusion Weld Joints in Metals	Tensile Strength (Transverse)	ASME Sec.IX
105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fusion Weld Joints in Metals	Tensile Strength (Transverse)	AWS D 1.1 D1.1M
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fusion Weld Joints inmetal	All weld metal tension	IS 2825
107	MECHANICAL-MECHANICAL PROPERTIES OF METALS	IZOD IMPACT TEST OF METALS	IZOD Test at Room Temperature	IS :1598
108	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Mechanical Testing of Steel Products	0.2% Offset	ASTM A 370
109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Mechanical Testing of Steel Products	Elongation	ASTM A 370
110	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Mechanical Testing of Steel Products	Reduction of Area	ASTM A 370
111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Mechanical Testing of Steel Products	Tensile Test	ASTM A 370
112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals & Alloys	Proof Load Bolts	IS 1367 (Part 3)
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals & Alloys	Proof Load Bolts	ISO 898-1
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals & Alloys	Proof Load Nuts	IS 1367 (Part 6)
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals & Alloys	Proof Load Nuts	ISO 898-2

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116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous Material	Elongation	ASTM B 557
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steels	Vickers Hardness Test (30 Kg)	IS 1501 part 1
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Vickers Hardness and Knoop Hardness	Vickers Hardness Test (30Kg)	ASTM E92
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metallic Products	Tensile Strength (Transverse)	ISO 4136
120	MECHANICAL-METALLOGRAPHY TEST	Carbon and alloy steels	Methods for measuring case depth of steel (Macrostructure and Microscopic methods)	IS 6416
121	MECHANICAL-METALLOGRAPHY TEST	Ferrous metals and alloys	Micrographic determination of the apparent grain size	IS 4748
122	MECHANICAL-METALLOGRAPHY TEST	Ferrous metals and alloys	Standard test methods for determining the inclusion content of steel	ASTM E45 (Method A & D)
123	MECHANICAL-METALLOGRAPHY TEST	Ferrous, Non Ferrous metals and alloys	Microstructure examination.	ASM Metals Hand Book Vol.9
124	MECHANICAL-METALLOGRAPHY TEST	Ferrous, Non Ferrous metals and alloys	Standard practice for Macro etching of metals and alloys	ASTM E340
125	MECHANICAL-METALLOGRAPHY TEST	Ferrous, Non Ferrous metals and alloys	Standard test methods for Determining average grain size	ASTM E112
126	MECHANICAL-METALLOGRAPHY TEST	Fusion weld joints in metals	Macro examination	ASME Sec.IX
127	MECHANICAL-METALLOGRAPHY TEST	Metal And Oxide Coating Thickness By Microscopic Method	Coating Thikness	ASTM B487
128	MECHANICAL-METALLOGRAPHY TEST	Steels	Non Metallic Inclusion Rating (NMIR)	IS 4163
129	NON-DESTRUCTIVE-METALS & ALLOYS	Aerospace Materials	Ultrasonic Test	SAE AMS 2630 B
130	NON-DESTRUCTIVE-METALS & ALLOYS	Aluminium Wrought Products	Ultrasonic Test	ASTM B594
131	NON-DESTRUCTIVE-METALS & ALLOYS	Both Ferrous & Non-Ferrous materials	Ultrasonic Test (UT)	ASME Sec-V Article 4, 5 & 23
132	NON-DESTRUCTIVE-METALS & ALLOYS	Carbon & Alloy Steel Plates	Ultrasonic Test	IS 4225

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133	NON-DESTRUCTIVE-METALS & ALLOYS	casting, Welding & Forging	Visible & Fluorescent Method	ISO 3452-Part1
134	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials	Yoke Method 1) Visible. 2)Fluorescent. 3)Wet 4)Dry	IS 3703
135	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials (Welds)	Yoke Method 1) Visible. 2)Fluorescent. 3)Wet 4)Dry	IS 5334
136	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials (Weldings,castings and forgings)	Yoke Method 1) Visible. 2)Fluorescent. 3)Wet 4)Dry	ASME Sec-V Article 7
137	NON-DESTRUCTIVE-METALS & ALLOYS	Forging Steels	Yoke Method 1) Visible. 2)Fluorescent. 3)Wet 4)Dry	IS 7743
138	NON-DESTRUCTIVE-METALS & ALLOYS	Plate (Weld), Forging,Casting (Non porous materials)	Open to surface defects	ASTM E 165
139	NON-DESTRUCTIVE-METALS & ALLOYS	Plates (Weld), Forging,Casting (Non Porous materials)	Open to surface defects	IS 3658
140	NON-DESTRUCTIVE-METALS & ALLOYS	Plates(Weld), Forging,Casting (Non-Porous materials)	Open to surface defects	ASTM E 1417
141	NON-DESTRUCTIVE-METALS & ALLOYS	Steel Castings	Ultrasonic Test	IS 7666
142	NON-DESTRUCTIVE-METALS & ALLOYS	Welds	Yoke Method 1) Visible. 2)Fluorescent. 3)Wet	EN ISO 17638

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Site Facility				
1	NON-DESTRUCTIVE-METALS & ALLOYS	Aerospace Materials	Ultrasonic Test	SAE AMS 2630 B
2	NON-DESTRUCTIVE-METALS & ALLOYS	Aluminium Wrought Products	Ultrasonic Test	ASTM B594
3	NON-DESTRUCTIVE-METALS & ALLOYS	Both Ferrous & Non-Ferrous materials	Ultrasonic Test (UT)	ASME Sec-V Article 4, 5 & 23
4	NON-DESTRUCTIVE-METALS & ALLOYS	Carbon & Alloy Steel Plates	Ultrasonic Test	IS 4225
5	NON-DESTRUCTIVE-METALS & ALLOYS	casting, Welding & Forging	Visible & Fluorescent Method	ISO 3452-Part1
6	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials	Yoke Method 1) Visible. 2)Fluorescent. 3)Wet 4)Dry	IS 3703
7	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials (Welds)	Yoke Method 1) Visible. 2)Fluorescent. 3)Wet 4)Dry	IS 5334
8	NON-DESTRUCTIVE-METALS & ALLOYS	Ferromagnetic Materials (Weldings,castings and forgings)	Yoke Method 1) Visible. 2)Fluorescent. 3)Wet 4)Dry	ASME Sec-V Article 7
9	NON-DESTRUCTIVE-METALS & ALLOYS	Forging Steels	Yoke Method 1) Visible. 2)Fluorescent. 3)Wet 4)Dry	IS 7743
10	NON-DESTRUCTIVE-METALS & ALLOYS	Plate (Weld), Forging,Casting (Non porous materials)	Open to surface defects	ASTM E 165
11	NON-DESTRUCTIVE-METALS & ALLOYS	Plates (Weld), Forging,Casting (Non Porous materials)	Open to surface defects	IS 3658
12	NON-DESTRUCTIVE-METALS & ALLOYS	Plates(Weld), Forging,Casting (Non-Porous materials)	Open to surface defects	ASTM E 1417
13	NON-DESTRUCTIVE-METALS & ALLOYS	Plates,Welds,Pipes,Forging,Castings (Ferrous & Non-Ferrous)materials	Radiography Testing Procedure & Radiographic Examination	ASME Sec-V Article 2 & 22
14	NON-DESTRUCTIVE-METALS & ALLOYS	Steel Castings	Ultrasonic Test	IS 7666
15	NON-DESTRUCTIVE-METALS & ALLOYS	Welds	Yoke Method 1) Visible. 2)Fluorescent. 3)Wet	EN ISO 17638