



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

BARATH METALLURGICAL LABORATORY, NO.538/A, KANNAPPA STREET, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

TC-9459

**Page No**

1 of 15

**Validity**

26/04/2021 to 25/04/2023

**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- CORROSION TESTS	AUSTENITIC STAINLESS STEEL	INTERGRANULAR CORROSION (PRACTICE A)	ASTM A262
2	CHEMICAL- CORROSION TESTS	AUSTENITIC STAINLESS STEEL	INTERGRANULAR CORROSION (PRACTICE C)	ASTM A262
3	CHEMICAL- CORROSION TESTS	AUSTENITIC STAINLESS STEEL	INTERGRANULAR CORROSION (PRACTICE E)	ASTM A262
4	CHEMICAL- CORROSION TESTS	AUSTENITIC STAINLESS STEEL	INTERGRANULAR CORROSION (PRACTICE B)	ASTM A262
5	CHEMICAL- CORROSION TESTS	DUPLEX, AUSTENITIC & FERRITIC STAINLESS STEEL	DETRIMENTAL INTERMETALLIC PHASES (METHOD A)	ASTM A923
6	CHEMICAL- CORROSION TESTS	WROUGHT, NICKEL-RICH, CHROMIUM-BEARING ALLOYS	SUSCEPTIBILITY TO INTERGRANULAR CORROSION (METHOD B)	ASTM G28
7	CHEMICAL- CORROSION TESTS	WROUGHT, NICKEL-RICH, CHROMIUM-BEARING ALLOYS	SUSCEPTIBILITY TO INTERGRANULAR CORROSION (METHOD A)	ASTM G28
8	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	Al	ASTM E415
9	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	Al	IS 8811
10	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	B	ASTM E415
11	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	B	IS 8811
12	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	C	ASTM E415
13	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	C	IS 8811
14	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	Cr	ASTM E415
15	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	Cr	IS 8811
16	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	Cu	ASTM E415
17	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	Cu	IS 8811



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**Page No**

2 of 15

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18	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	Mn	ASTM E415
19	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	Mn	IS 8811
20	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	Mo	ASTM E415
21	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	Mo	IS 8811
22	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	Nb	ASTM E415
23	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	Nb	IS 8811
24	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	Ni	ASTM E415
25	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	Ni	IS 8811
26	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	P	ASTM E415
27	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	P	IS 8811
28	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	Pb	JIS G1253
29	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	S	ASTM E415
30	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	S	IS 8811
31	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	S	JIS G-1253
32	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	Si	ASTM E415
33	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	Si	IS 8811
34	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	Ti	ASTM E415
35	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	Ti	IS 8811
36	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	V	ASTM E415



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ISO/IEC 17025:2017

**Certificate Number**

TC-9459

**Page No**

3 of 15

**Validity**

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37	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	V	IS 8811
38	CHEMICAL- METALS & ALLOYS	ALLOY STEEL	Zr	JIS G1253
39	CHEMICAL- METALS & ALLOYS	ALUMINIUM ALLOYS	Ni	ASTM E1251
40	CHEMICAL- METALS & ALLOYS	ALUMINIUM ALLOYS	Cr	ASTM E1251
41	CHEMICAL- METALS & ALLOYS	ALUMINIUM ALLOYS	Cu	ASTM E1251
42	CHEMICAL- METALS & ALLOYS	ALUMINIUM ALLOYS	Fe	ASTM E1251
43	CHEMICAL- METALS & ALLOYS	ALUMINIUM ALLOYS	Mg	ASTM E1251
44	CHEMICAL- METALS & ALLOYS	ALUMINIUM ALLOYS	Mn	ASTM E1251
45	CHEMICAL- METALS & ALLOYS	ALUMINIUM ALLOYS	Pb	ASTM E1251
46	CHEMICAL- METALS & ALLOYS	ALUMINIUM ALLOYS	Si	ASTM E1251
47	CHEMICAL- METALS & ALLOYS	ALUMINIUM ALLOYS	Ti	ASTM E1251
48	CHEMICAL- METALS & ALLOYS	ALUMINIUM ALLOYS	V	ASTM E1251
49	CHEMICAL- METALS & ALLOYS	ALUMINIUM ALLOYS	Zn	ASTM E1251
50	CHEMICAL- METALS & ALLOYS	CARBON STEEL (LOW, MEDIUM & HIGH)	C	ASTM E415
51	CHEMICAL- METALS & ALLOYS	CARBON STEEL(LOW, MEDIUM& HIGH)	Mn	IS 8811
52	CHEMICAL- METALS & ALLOYS	CARBON STEEL(LOW,MEDIUM &HIGH)	Si	ASTM E415
53	CHEMICAL- METALS & ALLOYS	CARBON STEEL(LOW,MEDIUM& HIGH)	C	IS 8811
54	CHEMICAL- METALS & ALLOYS	CARBON STEEL(LOW,MEDIUM& HIGH)	P	IS 8811
55	CHEMICAL- METALS & ALLOYS	CARBON STEEL(LOW,MEDIUM& HIGH)	S	ASTM E415



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TC-9459

**Page No**

4 of 15

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56	CHEMICAL- METALS & ALLOYS	CARBON STEEL(LOW,MEDIUM& HIGH)	S	IS 8811
57	CHEMICAL- METALS & ALLOYS	CARBON STEEL(LOW,MEDIUM& HIGH)	Si	IS 8811
58	CHEMICAL- METALS & ALLOYS	CARBON STEEL(LOW,MEDIUM&HIGH)	Mn	ASTM E415
59	CHEMICAL- METALS & ALLOYS	CARBON STEEL(LOW,MEDIUM&HIGH)	P	ASTM E415
60	CHEMICAL- METALS & ALLOYS	CAST IRON	C	ASTM E1999
61	CHEMICAL- METALS & ALLOYS	CAST IRON	Cr	ASTM E1999
62	CHEMICAL- METALS & ALLOYS	CAST IRON	Cu	ASTM E1999
63	CHEMICAL- METALS & ALLOYS	CAST IRON	Mn	ASTM E1999
64	CHEMICAL- METALS & ALLOYS	CAST IRON	Mo	ASTM E1999
65	CHEMICAL- METALS & ALLOYS	CAST IRON	Ni	ASTM E1999
66	CHEMICAL- METALS & ALLOYS	CAST IRON	P	ASTM E1999
67	CHEMICAL- METALS & ALLOYS	CAST IRON	S	ASTM E1999
68	CHEMICAL- METALS & ALLOYS	CAST IRON	Si	ASTM E1999
69	CHEMICAL- METALS & ALLOYS	CAST IRON	Sn	ASTM E1999
70	CHEMICAL- METALS & ALLOYS	CAST IRON	Ti	ASTM E1999
71	CHEMICAL- METALS & ALLOYS	CAST IRON	V	ASTM E1999
72	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	Cu	IS 9879
73	CHEMICAL- METALS & ALLOYS	STAINLES STEEL	Ni	IS 9879
74	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	C	ASTM E1086



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**Certificate Number**

TC-9459

**Page No**

5 of 15

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**Last Amended on**

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75	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	C	IS 9879
76	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	Cr	ASTM E1086
77	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	Cr	IS 9879
78	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	Cr	JIS G1253
79	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	Cu	ASTM E1086
80	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	Mn	ASTM E1086
81	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	Mo	ASTM E1086
82	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	Mo	IS 9879
83	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	Nb	JIS G1253
84	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	Ni	ASTM E1086
85	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	Ni	JIS G1253
86	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	P	ASTM E1086
87	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	P	IS 9879
88	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	S	ASTM E1086
89	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	S	IS 9879
90	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	Si	ASTM E1086
91	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	Si	IS 9879
92	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	Ti	JIS G1253
93	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	Mn	IS 9879



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**Certificate Number** TC-9459 **Page No** 6 of 15

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94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	DIMENSIONS FOR HOT ROLLED STEEL	DIMENSIONAL TEST	IS 1852
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS & NON FERROUS PIPE & TUBES(INCLUDING WELDED PIPES)	CRUSH TEST	ASTM A370
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS & NON FERROUS PIPES & TUBES(INCLUDING WELDED PIPES)	FLARING TEST	ASTM A370
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS & NON FERROUS PIPES & TUBES(INCLUDING WELDED PIPES)	FLATTENING TEST	ASTM A370
98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS & NON FERROUS PIPES & TUBES(INCLUDING WELDED PIPES)	FLATTENING TEST	IS 2328
99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Materials, alloys & Products including weld and welded Test Specimens	BRINELL HARDNESS TEST(2.5/187.5HBW)	ASTM E10
100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Materials, alloys & Products including weld and welded Test Specimens	BRINELL HARDNESS TEST(HBW2.5/187.5)	IS 1500 PART-1
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Materials, alloys & Products including weld and welded Test Specimens	BRINELL HARDNESS TEST(HBW2.5/187.5)	ISO 6506 PART-1
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS AND NON FERROUS MATERIALS, ALLOYS & PRODUCTS (including weld and welded Test Specimens)	VICKERS HARDNESS TEST(HV30)	ASTM E92
103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS AND NON FERROUS MATERIALS, ALLOYS & PRODUCTS	BEND TEST (Mandrel Diameter: 6,8,10,12,16,20,24,30,32,36,40,44, 50,75,90 in mm)	IS 1599
104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS AND NON FERROUS MATERIALS, ALLOYS & PRODUCTS	ROCKWELL HARDNESS TEST(HRC)	ASTM E18
105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS AND NON FERROUS MATERIALS, ALLOYS & PRODUCTS	ROCKWELL HARDNESS TEST(HRC)	IS 1586 PART-1
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS AND NON FERROUS MATERIALS, ALLOYS & PRODUCTS	ROCKWELL HARDNESS TEST(HRC)	ISO 6508 PART-1
107	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS AND NON FERROUS MATERIALS, ALLOYS & PRODUCTS (including weld and welded Test Specimens)	VICKERS HARDNESS TEST(HV30)	IS 1501 PART-1



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**Certificate Number** TC-9459 **Page No** 7 of 15

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108	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS AND NON FERROUS MATERIALS, ALLOYS & PRODUCTS (including weld and welded Test Specimens)	VICKERS HARDNESS TEST(HV30)	ISO 6507 PART-1
109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS AND NON FERROUS MATERIALS, ALLOYS & PRODUCTS(INCLUDING WELD SPECIMENS)	VICKERS HARDNESS TEST(HV10)	ASTM E92
110	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS AND Non FERROUS MATERIALS,ALLOYS & PRODUCTS(including weld and welded Test Specimens)	VICKERS HARDNESS TEST(HV10)	IS 1501 PART-1
111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS AND NON FERROUS MATERIALS,ALLOYS & PRODUCTS(INCLUDING WELD SPECIMENS)	VICKERS HARDNESS TEST(HV10)	ISO 6507 PART-1
112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIAL,ALLOYS& PRODUCTS	0.2% PROOF STRENGTH	ASTM A370
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS, ALLOYS & PRODUCTS	0.2% PROOF STRENGTH	IS 1608 PART-1
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS, ALLOYS & PRODUCTS	0.2% PROOF STRENGTH	ISO 6892 PART-1
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS, ALLOYS & PRODUCTS	ROCKWELL HARDNESS TEST (HRBW)	ASTM E18
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS, ALLOYS & PRODUCTS	ROCKWELL HARDNESS TEST(HRBW)	IS 1586 PART-1
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS, ALLOYS & PRODUCTS	ROCKWELL HARDNESS TEST(HRBW)	ISO 6508 PART- 1
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS, ALLOYS & PRODUCTS	TENSILE STRENGTH	ASTM A370
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS, ALLOYS & PRODUCTS	TENSILE STRENGTH	ISO 6892 PART- 1
120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS, ALLOYS & PRODUCTS	YIELD STRENGTH	ASTM A370
121	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS, ALLOYS & PRODUCTS	YIELD STRENGTH	ISO 6892 PART- 1



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ISO/IEC 17025:2017

**Certificate Number**

TC-9459

**Page No**

8 of 15

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122	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS, ALLOYS & PRODUCTS Including Weld metals	IMPACT TEST CHARPY "V" NOTCH( ROOM TEMPERATURE TO -196°C)	IS 1757 PART-1
123	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS, ALLOYS & PRODUCTS Including Weld metals	IMPACT TEST CHARPY "V" NOTCH(ROOM TEMPERATURE TO -196°C)	ISO 148 PART-1
124	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS, ALLOYS & PRODUCTS Including Weld metals	IMPACT TEST IZOD "V" NOTCH@ ROOM TEMPERATURE	IS 1598
125	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS, ALLOYS 7 PRODUCTS	% ELONGATION	IS 1608 PART-1
126	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS, ALLOYS& PRODUCTS	TENSILE STRENGTH	IS 1608 PART-1
127	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS,ALLOYS & PRODUCTS	% ELONGATION	ASTM E8/E8M
128	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS,ALLOYS & PRODUCTS	% ELONGATION	ISO 6892 PART-1
129	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS,ALLOYS & PRODUCTS	% REDUCTION AREA	ASTM E8/E8M
130	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS,ALLOYS & PRODUCTS	% REDUCTION AREA	IS 1608 PART -1
131	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS,ALLOYS & PRODUCTS	% REDUCTION AREA	ISO 6892 PART-1
132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS,ALLOYS & PRODUCTS	0.2% PROOF STRENGTH	ASTM E8/E8M
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS,ALLOYS & PRODUCTS	BEND TEST (Mandrel Diameter: 16,20,24,30,32,36,40,48,50,60 ,64, 75,80,96,100,112,128,140,150 , 160,168,192 in mm)	IS 1786
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS,ALLOYS & PRODUCTS	BEND TEST (Mandrel Diameter: 6,8,10,12,16,20,24,30,32,36, 40,44,50,75,90 in mm)	ASTM A370





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TC-9459

**Page No**

9 of 15

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-

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135	MECHANICAL- MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS,ALLOYS & PRODUCTS	REBEND TEST (Mandrel Diameter: 32,40,48,50,56,60,70,84,96,11 2, 128,140,150,160,168,175,196, 200 ,224,256 in mm)	IS1786
136	MECHANICAL- MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS,ALLOYS & PRODUCTS	TENSILE STRENGTH	ASTM E8/E8M
137	MECHANICAL- MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS,ALLOYS & PRODUCTS	YIELD STRENGTH	ASTM E8/E8M
138	MECHANICAL- MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS,ALLOYS & PRODUCTS	YIELD STRENGTH	IS 1608 PART-1
139	MECHANICAL- MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS,ALLOYS& PRODUCTS	% ELONGATION	ASTM A370
140	MECHANICAL- MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS,ALLOYS& PRODUCTS	% REDUCTION AREA	ASTM A370
141	MECHANICAL- MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS,ALLOYS& PRODUCTS	% REDUCTION AREA	BS EN 10164
142	MECHANICAL- MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS,ALLOYS& PRODUCTS	MASS PER METER	IS 1786
143	MECHANICAL- MECHANICAL PROPERTIES OF METALS	NON FERROUS METALS, ALLOYS& PRODUCTS	% ELONGATION	ISO 6892 PART-1
144	MECHANICAL- MECHANICAL PROPERTIES OF METALS	NON FERROUS METALS, ALLOYS& PRODUCTS	% REDUCTION AREA	ISO 6892 PART-1
145	MECHANICAL- MECHANICAL PROPERTIES OF METALS	NON FERROUS METALS, ALLOYS& PRODUCTS	0.2% PROOF STRENGTH	IS 1608 PART-1
146	MECHANICAL- MECHANICAL PROPERTIES OF METALS	NON FERROUS METALS,ALLOYS & PRODUCTS	% REDUCTION AREA	ASTM E8/E8M
147	MECHANICAL- MECHANICAL PROPERTIES OF METALS	NON FERROUS METALS,ALLOYS & PRODUCTS	0.2% PROOF STRENGTH	ASTM E8/E8M



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TC-9459

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10 of 15

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148	MECHANICAL- MECHANICAL PROPERTIES OF METALS	NON FERROUS METALS,ALLOYS & PRODUCTS	ROCKWELL HARDNESS TEST(HRBW)	IS 1586 PART-1
149	MECHANICAL- MECHANICAL PROPERTIES OF METALS	NON FERROUS METALS,ALLOYS & PRODUCTS	TENSILE STRENGTH	ASTM E8/E8M
150	MECHANICAL- MECHANICAL PROPERTIES OF METALS	NON FERROUS METALS,ALLOYS & PRODUCTS	TENSILE STRENGTH	ISO 6892 PART-1
151	MECHANICAL- MECHANICAL PROPERTIES OF METALS	NON FERROUS METALS,ALLOYS & PRODUCTS	YIELD STRENGTH	ISO6892 PART-1
152	MECHANICAL- MECHANICAL PROPERTIES OF METALS	NON FERROUS METALS,ALLOYS& PRODUCTS	% ELONGATION	ASTM E8/E8M
153	MECHANICAL- MECHANICAL PROPERTIES OF METALS	NON FERROUS METALS,ALLOYS& PRODUCTS	% REDUCTION AREA	IS 1608 PART-1
154	MECHANICAL- MECHANICAL PROPERTIES OF METALS	NON FERROUS METALS,ALLOYS& PRODUCTS	ROCKWELL HARDNESS TEST(HRBW)	ASTM E18
155	MECHANICAL- MECHANICAL PROPERTIES OF METALS	NON FERROUS METALS,ALLOYS& PRODUCTS	ROCKWELL HARDNESS TEST(HRBW)	ISO 6508 PART-1
156	MECHANICAL- MECHANICAL PROPERTIES OF METALS	NON FERROUS METALS,ALLOYS& PRODUCTS	TENSILE STRENGTH	IS 1608 PART-1
157	MECHANICAL- MECHANICAL PROPERTIES OF METALS	NON FERROUS METALS,ALLOYS& PRODUCTS	YIELD STRENGTH	ASTM E8/E8M
158	MECHANICAL- MECHANICAL PROPERTIES OF METALS	NON FERROUS METALS,ALLOYS& PRODUCTS	YIELD STRENGTH	IS 1608 PART-1
159	MECHANICAL- MECHANICAL PROPERTIES OF METALS	NON FERROUS METALS.ALLOYS & PRODUCTS	% ELONGATION	IS1608 PART-1
160	MECHANICAL- MECHANICAL PROPERTIES OF METALS	NON FERROUS METALS.ALLOYS & PRODUCTS	0.2% PROOF STRENGTH	ISO6892 PART-1
161	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products Including Weld metals	IMPACT TEST CHARPY "V" NOTCH(ROOM TEMPERATURE TO -196°C)	ISO 148 PART-1



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	BARATH METALLURGICAL LABORATORY, NO.538/A, KANNAPPA STREET, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA	<b>Page No</b>	11 of 15
<b>Accreditation Standard</b>	ISO/IEC 17025:2017	<b>Last Amended on</b>	-
<b>Certificate Number</b>	TC-9459		
<b>Validity</b>	26/04/2021 to 25/04/2023		

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
162	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products Including Weld metals	Impact Test Izod "v" Notch @ Room Temperature	IS 1598
163	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & Products including weld metals	Non-Ferrous metals, alloys & Products including weld metals	IS 1757 Part 1
164	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products Including Weld metals	IMPACT TEST CHARPY "V" NOTCH( ROOM TEMPERATURE TO -196°C)	IS 1757 PART-1
165	MECHANICAL- MECHANICAL PROPERTIES OF METALS	STEEL FASTENERS	PROOF LOAD TEST	ASTM A193/193M
166	MECHANICAL- MECHANICAL PROPERTIES OF METALS	STEEL FASTENERS	PROOF LOAD TEST	ASTM A194/194M
167	MECHANICAL- MECHANICAL PROPERTIES OF METALS	STEEL FASTENERS	PROOF LOAD TEST	IS 1367 PART-3
168	MECHANICAL- MECHANICAL PROPERTIES OF METALS	STEEL FASTENERS	PROOF LOAD TEST	IS 1367 PART-6
169	MECHANICAL- MECHANICAL PROPERTIES OF METALS	STEEL FASTENERS	PROOF LOAD TEST	ISO 898 PART-1
170	MECHANICAL- MECHANICAL PROPERTIES OF METALS	STEEL FASTENERS	PROOF LOAD TEST	ISO 898 PART-2
171	MECHANICAL- MECHANICAL PROPERTIES OF METALS	WELD & WELDED TEST SPECIMENS	FACE BEND/ROOT BEND/SIDE BEND (Mandrel Diameter: 6,8,10,12,16,20,24,30,32, 36,38,40,63.1,56 in mm)	ISO 15614 PART-1
172	MECHANICAL- MECHANICAL PROPERTIES OF METALS	WELD & WELDED TEST SPECIMENS	TENSILE STRENGTH	IS 7310 PART-1
173	MECHANICAL- MECHANICAL PROPERTIES OF METALS	WELDES & WELDED TEST SPECIMENS	FRACTURE TEST	IS 7307 Part 1
174	MECHANICAL- MECHANICAL PROPERTIES OF METALS	WELDES & WELDED TEST SPECIMENS	FRACTURE TEST	IS 7310 Part 1



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** BARATH METALLURGICAL LABORATORY, NO.538/A, KANNAPPA STREET, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** TC-9459 **Page No** 12 of 15

**Validity** 26/04/2021 to 25/04/2023 **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
175	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELDS & WELDED TEST SPECIMENS	TENSILE STRENGTH	ASME SEC IX (QW-150)
176	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELDS & ELDED TEST SPECIMENS	FACE BEND/ ROOT BEND/SIDE BEND (Mandrel Diameter: 6,8,10,12,16,20,24,30,32, 36,38,40,63.1,56 in mm)	ASME SEC IX (QW-160)
177	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELDS & WELD TEST SPECIMENS	FRACTURE TEST	ASME SEC-II PART-C (SFA-5.5/5.5M&5.1/5.1M)
178	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELDS & WELDED TEST SPECIMENS	FACE BEND/ ROOT BEND/ SIDE BEND	IS 7307 Part 1
179	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELDS & WELDED TEST SPECIMENS	FACE BEND/ ROOT BEND/ SIDE BEND (Mandrel Diameter: 90 in mm)	API 1104 (5.6.4&5.6.5)
180	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELDS & WELDED TEST SPECIMENS	FACE BEND/ ROOT BEND/ SIDE BEND (Mandrel Diameter: 16,20,24,30,32,36,38,40,56 in mm)	IS 7310 Part 1
181	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELDS & WELDED TEST SPECIMENS	FACE BEND/ROOT BEND/ SIDE BEND (Mandrel Diameter: 38.1,50.4,63.1in mm)	AWS D1.6/D1.6M
182	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELDS & WELDED TEST SPECIMENS	FACE BEND/ROOT BEND/SIDE BEND (Mandrel Diameter: 38.1,50.4,63.1in mm)	AWS D1.1/D1.1M
183	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELDS & WELDED TEST SPECIMENS	FRACTURE TEST	ASME SEC IX (QW-182), ASME SEC 2 Part C (SFA 5.5 5.5/M & 5.1/5.1M)
184	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELDS & WELDED TEST SPECIMENS	FRACTURE TEST	AWS D1.1/D1.1M, D1.7
185	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELDS & WELDED TEST SPECIMENS	Longitudinal Root/Face Bend (Mandrel Diameter: 16,20,24,30,32,36,38,40,48,56 in mm)	IS 3600 PART-7
186	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELDS & WELDED TEST SPECIMENS	NICK BREAK TEST	API 1104 (5.6.3)
187	MECHANICAL-MECHANICAL PROPERTIES OF METALS	WELDS & WELDED TEST SPECIMENS	TENSILE STRENGTH	IS 7307 Part 1



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	BARATH METALLURGICAL LABORATORY, NO.538/A, KANNAPPA STREET, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA	<b>Page No</b>	13 of 15
<b>Accreditation Standard</b>	ISO/IEC 17025:2017	<b>Last Amended on</b>	-
<b>Certificate Number</b>	TC-9459		
<b>Validity</b>	26/04/2021 to 25/04/2023		

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188	MECHANICAL- MECHANICAL PROPERTIES OF METALS	WELDS & WELDED TEST SPECIMENS	TENSILE STRENGTH	API 1104 (5.6.2)
189	MECHANICAL- MECHANICAL PROPERTIES OF METALS	WELDS & WELDED TEST SPECIMENS	TENSILE STRENGTH	AWS D1.1/D1.1M
190	MECHANICAL- MECHANICAL PROPERTIES OF METALS	WELDS & WELDED TEST SPECIMENS	TENSILE STRENGTH	AWS D1.6/D1.6M
191	MECHANICAL- MECHANICAL PROPERTIES OF METALS	WELDS & WELDED TEST SPECIMENS	Transverse Root/Face Bend (Mandrel Diameter: 16,20,24,30,32,36,38,40,48,56 in mm)	IS 3600 PART-5
192	MECHANICAL- MECHANICAL PROPERTIES OF METALS	WELDS & WELDED TEST SPECIMENS	Transverse Side Bend (Mandrel Diameter: 16,20,24,30,32,36,38,40,48,56 in mm)	IS 3600 PART-6
193	MECHANICAL- MECHANICAL PROPERTIES OF METALS	WELDS & WELDED TESTSPECIMENS	TENSILE STRENGTH	ISO 15614 PART-1
194	MECHANICAL- MECHANICAL PROPERTIES OF METALS	WELDS& WELDED TEST SPECIMENS	FRACTURE TEST	AWS D1.6/D1.6M
195	MECHANICAL- MECHANICAL PROPERTIES OF METALS	WELDS& WELDED TEST SPECIMENS	FRACTURE TEST	AWS D1.7/D1.7M
196	MECHANICAL- MECHANICAL PROPERTIES OF METALS	WELDS& WELDED TEST SPECIMENS	PULL LOAD TEST	ASME SEC VIII.DIV-1 (UW 20)
197	MECHANICAL- MECHANICAL PROPERTIES OF METALS	WELDS& WELDED TEST SPECIMENS	TENSILE STRENGTH	IS3600 PART-1
198	MECHANICAL- MECHANICAL PROPERTIES OF METALS	WELDS& WELDED TEST SPECIMENS	WELD SHEAR TEST	ASTM A1064/A1064M
199	MECHANICAL- METALLOGRAPHY TEST	FERROUS & NON FERROUS MATERIALS, ALLOYS& PRODUCTS	MICROSTRUCTURE	ASTM E407
200	MECHANICAL- METALLOGRAPHY TEST	FERROUS AND NON FERROUS MATERIALS, ALLOYS & PRODUCTS	AVERAGE GRAIN SIZE BY COMPARISON METHOD	IS 4748
201	MECHANICAL- METALLOGRAPHY TEST	FERROUS AND NON FERROUS MATERIALS, ALLOYS & PRODUCTS	MICROSTRUCTURE	ASM HAND BOOK VOL-09



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** BARATH METALLURGICAL LABORATORY, NO.538/A, KANNAPPA STREET, CHENNAI, THIRUVALLUR, TAMIL NADU, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** TC-9459 **Page No** 14 of 15

**Validity** 26/04/2021 to 25/04/2023 **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
202	MECHANICAL-METALLOGRAPHY TEST	FERROUS AND NON FERROUS MATERIALS, ALLOYS& PRODUCTS	AVERAGE GRAIN SIZE BY COMPARISON METHOD	ASTM E112
203	MECHANICAL-METALLOGRAPHY TEST	FERROUS AND NON FERROUS MATERIALS, ALLOYS& PRODUCTS	MICROSTRUCTURE	ASTM E3
204	MECHANICAL-METALLOGRAPHY TEST	FERROUS AND NON- FERROUS ALLOYS & PRODUCTS	METALLIC COATING THICKNESS BY MICROSCOPIC METHOD	ASTM B487
205	MECHANICAL-METALLOGRAPHY TEST	FERROUS MATERIALS, ALLOYS & PRODUCTS	DEPTH OF DECARBURIZATION BY MICROSCOPIC METHOD	IS 6396
206	MECHANICAL-METALLOGRAPHY TEST	FERROUS MATERIALS, ALLOYS & PRODUCTS	NON- METALLIC INCLUSION RATING	ASTM E45
207	MECHANICAL-METALLOGRAPHY TEST	FERROUS MATERIALS, ALLOYS & PRODUCTS	NON-METALLIC INCLUSION RATING	IS 4163
208	MECHANICAL-METALLOGRAPHY TEST	FERROUS MATERIALS, ALLOYS & PRODUCTS( GRAY CAST IRON ,SG IRON)	MICRO EXAMINATION FOR GRAPHITE FLAKES/ NODULES TYPE AND SIZE, DISTRIBUTION CHARACTERISTICS AND MATRIX ANALYSIS	IS 7754
209	MECHANICAL-METALLOGRAPHY TEST	FERROUS MATERIALS, ALLOYS& PRODUCTS	MACRO TEST	ASTM E340
210	MECHANICAL-METALLOGRAPHY TEST	FERROUS MATERIALS, ALLOYS& PRODUCTS	MACRO TEST	IS 11371
211	MECHANICAL-METALLOGRAPHY TEST	FERROUS MATERIALS, ALLOYS& PRODUCTS	TOTAL CASE DEPTH BY MICROSCOPIC METHOD	IS 6416
212	MECHANICAL-METALLOGRAPHY TEST	FERROUS MATERIALS,ALLOYS & PRODUCTS	DEPTH OF DECARBURIZATION BY MICROSCOPIC METHO	ASTM E1077
213	MECHANICAL-METALLOGRAPHY TEST	FERROUS MATERIALS,ALLOYS & PRODUCTS(GRAY CAST IRON, SG IRON)	MICRO EXAMINATION FOR GRAPHITE FLAKES/ NODULES TYPES AND SIZE, DISTRIBUTION CHARACTERISTICS AND MATRIX ANALYSIS	ASTM A247
214	MECHANICAL-METALLOGRAPHY TEST	FERROUS MATERIALS,ALLOYS& PRODUCTS	MACRO TEST	ASTM E381
215	MECHANICAL-METALLOGRAPHY TEST	WELDS& WELD TEST SPEMINENS	MACRO TEST	ASME SEC-II PART-C (SFA 5.1/5.1M& 5.5/5.5M)
216	MECHANICAL-METALLOGRAPHY TEST	WELDS& WELDED TEST SPECIMENS	MACRO TEST	ASME SEC- IX (QW-184)
217	MECHANICAL-METALLOGRAPHY TEST	ZINC COATED IRON AND STEEL	MASS OF ZINC COATING	IS 6745



# National Accreditation Board for Testing and Calibration Laboratories

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**Laboratory Name :**

BARATH METALLURGICAL LABORATORY, NO.538/A, KANNAPPA STREET, CHENNAI,  
THIRUVALLUR, TAMIL NADU, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

TC-9459

**Page No**

15 of 15

**Validity**

26/04/2021 to 25/04/2023

**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
218	MECHANICAL- METALLOGRAPHY TEST	ZINC COATED ON IRON AND STEEL	MASS OF ZINC COATING	ASTM A90/A90M