National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : MASCOT LABORATORY SERVICES, #93, 7TH MAIN, 3RD PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5385 **Page No** 1 of 9

Validity 20/02/2022 to 19/02/2024 **Last Amended on** 02/06/2022

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	Coated/plated items (Ferrous & Non Ferrous base), Anodized products,Painted and Powder coated articles,Galvanized items, Electrical and Electronic items	Resistance at required humidity & temperature conditions	IS 101 (Part 7:Sec 1)
2	CHEMICAL- CORROSION TESTS	Coated/plated items (Ferrous & Non Ferrous base), Anodized products,Painted and Powder coated articles,Galvanized items, Electrical and Electronic items	Neutral Salt spray tests	ASTM B-117-11
3	CHEMICAL- CORROSION TESTS	Coated/plated items (Ferrous & Non Ferrous base), Anodized products,Painted and Powder coated articles,Galvanized items, Electrical and Electronic items	Neutral Salt Spray tests	ISO 9227
4	CHEMICAL- CORROSION TESTS	Coated/plated items (Ferrous & Non Ferrous base), Anodized products,Painted and Powder coated articles,Galvanized items, Electrical and Electronic items	Resistance at required humidity & temperature conditions	IS 9000 (Part 6)
5	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Beryllium	ASTM E 1251-17a
6	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Bismuth	ASTM E 1251-17a
7	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Chromium	ASTM E 1251-17a
8	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	ASTM E 1251-17a
9	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Gallium	ASTM E 1251-17a
10	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron	ASTM E 1251-17a
11	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lead	ASTM E 1251-17a
12	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium	ASTM E 1251-17a
13	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	ASTM E 1251-17a
14	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel	ASTM E 1251-17a
15	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon	ASTM E 1251-17a
16	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Tin	ASTM E 1251-17a
17	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Titanium	ASTM E 1251-17a

SCOPE OF ACCREDITATION

Laboratory Name :	MASCOT LABORATORY SERVICES, #93, 7TH MAIN, 3RD PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5385	**Page No**	2 of 9
Validity	20/02/2022 to 19/02/2024	**Last Amended on**	02/06/2022

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
18	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Vanadium	ASTM E 1251-17a
19	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	ASTM E 1251-17a
20	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zirconium	ASTM E 1251-17a
21	CHEMICAL- METALS & ALLOYS	Cast Iron	Aluminium	IS 15338
22	CHEMICAL- METALS & ALLOYS	Cast Iron	Boron	IS 15338
23	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	IS 15338
24	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	IS 15338
25	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	IS 15338
26	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	IS15338
27	CHEMICAL- METALS & ALLOYS	Cast Iron	Molybdenum	IS15338
28	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	IS15338
29	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorous	IS 15338
30	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	IS15338
31	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	IS 15338
32	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium	IS 15338
33	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Aluminium	BS EN 15079
34	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Antimony	BS EN 15079
35	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	BS EN 15079
36	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Lead	BS EN 15079

SCOPE OF ACCREDITATION

Laboratory Name :	MASCOT LABORATORY SERVICES, #93, 7TH MAIN, 3RD PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5385	**Page No**	3 of 9
Validity	20/02/2022 to 19/02/2024	**Last Amended on**	02/06/2022

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
37	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Magnesium	BS EN 15079
38	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Manganese	BS EN 15079
39	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel	BS EN 15079
40	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Phosphorous	BS EN 15079
41	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silicon	BS EN 15079
42	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Sulphur	BS EN 15079
43	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Tin	BS EN 15079
44	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Zinc	BS EN 15079
45	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Aluminium	IS 8811
46	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Carbon	IS 8811
47	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Chromium	IS 8811
48	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Cobalt	IS 8811
49	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Copper	IS 8811
50	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Manganese	IS 8811
51	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Molybdenum	IS 8811
52	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Nickel	IS 8811
53	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Phosphorous	IS 8811
54	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Silicon	IS 8811
55	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Sulphur	IS 8811

SCOPE OF ACCREDITATION

Laboratory Name :	MASCOT LABORATORY SERVICES, #93, 7TH MAIN, 3RD PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5385	**Page No**	4 of 9
Validity	20/02/2022 to 19/02/2024	**Last Amended on**	02/06/2022

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
56	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Vanadium	IS 8811
57	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Aluminium	ASTM E 3047
58	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Carbon	ASTM E 3047
59	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Chromium	ASTM E 3047
60	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Cobalt	ASTM E 3047
61	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Iron	ASTM E 3047
62	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Manganese	ASTM E 3047
63	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Molybdenum	ASTM E 3047
64	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Niobium	ASTM E 3047
65	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Phosphorous	ASTM E 3047
66	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Silicon	ASTM E 3047
67	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Sulphur	ASTM E 3047
68	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Titanium	ASTM E 3047
69	CHEMICAL- METALS & ALLOYS	Nickel &its alloys	Copper	ASTM E 3047
70	CHEMICAL- METALS & ALLOYS	Stainless steel	Carbon	IS 9879
71	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 9879
72	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	IS 9879
73	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 9879
74	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS 9879

SCOPE OF ACCREDITATION

Laboratory Name :	MASCOT LABORATORY SERVICES, #93, 7TH MAIN, 3RD PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5385	**Page No**	5 of 9
Validity	20/02/2022 to 19/02/2024	**Last Amended on**	02/06/2022

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
75	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS9879
76	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorous	IS 9879
77	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 9879
78	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	IS9879
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	-Ferrous metals,alloys & products	Yield Strength	IS 1608 part1
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	0.2percent proof stress	IS 1608 part1
81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Brinell Hardness ,HBW(2.5/187.5)	IS 1500 (Part 1)
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials,alloys & products	Brinell Hardmess ,HBW(5/750)	IS 1500 (Part 1)
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials,alloys & products	Brinell Hardness,HBW(10/3000)	IS 1500 (Part 1)
84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials,alloys & products	Percentage Elongation at gauage length	IS1608 part1
85	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials,alloys & products	Rockwell Hardness, HRC	IS 1586 (Part 1)
86	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials,alloys & products	Rockwell Hardness,HRB	IS 1586 (Part 1)
87	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials,alloys & products	Tensile strength	IS 1608 part1
88	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials,alloys & products	Vickers Hardness (HV 10)	IS 1501 (Part 1)
89	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials,alloys & products	Vickers Hardness (HV 1)	IS 1501 (Part 1)

SCOPE OF ACCREDITATION

Laboratory Name :	MASCOT LABORATORY SERVICES, #93, 7TH MAIN, 3RD PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5385	**Page No**	6 of 9
Validity	20/02/2022 to 19/02/2024	**Last Amended on**	02/06/2022

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
90	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials,alloys & products	Vickers Hardness (HV 30)	IS 1501 (Part 1)
91	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials,alloys & products	Vickers Hardness (HV5)	IS 1501 (Part 1)
92	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ferrous alloys & products	Tensile Strength	IS 1608 part1
93	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ferrous lloys & products	Percentage Elongation after fracture	IS 1608 part1
94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & Products	Brinell Hardness (5/750)	IS 1500 (Part 1)
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & Products	Brinell Hardness HBW(10/3000)	IS 1500 (Part 1)
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & Products	Brinell Hardness HBW(2.5/187.5)	IS 1500 (Part 1)
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & Products	CHARPY Impact test @23 +/- 5°C	IS 1757 part1
98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & Products	IZOD Impact test @23 +/- 5°c	IS 1598
99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & Products	Percentage Elongation after fracture	IS 1608 part1
100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & Products	Rockwell Hardness (HRB)	IS 1586 (Part 1)
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & Products	Rockwell Hardness, HRC	IS 1586 (Part 1)
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & Products	Tensile strength	IS 1608 part1
103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & Products	Tensile Strength	IS 1608 part1

SCOPE OF ACCREDITATION

Laboratory Name :	MASCOT LABORATORY SERVICES, #93, 7TH MAIN, 3RD PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5385
Page No	7 of 9
Validity	20/02/2022 to 19/02/2024
Last Amended on	02/06/2022

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
104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & Products	Vickers Hardness (HV1)	IS 1501 (Part 1)
105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & Products	Vickers Hardness (HV10)	IS 1501 (Part 1)
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & Products	Vickers Hardness (HV30)	IS 1501(Part 1)
107	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & Products	Vickers Hardness (HV5)	IS 1501 (Part 1)
108	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & Products	Yield Strength	IS 1608 part1
109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & Products	Yield Strength	IS 1608 part1
110	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals & alloys & products	0.2 Percent Proof Stress	IS 1500 (Part 1)
111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals & alloys & products	Brinell Hardness,HBW (10/3000)	IS 1500 (Part 1)
112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals & alloys & products	BrinelL Hardness,HBW (2.5/187.5)	IS 1500 (Part 1)
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals & alloys & products	Brinell Hardness,HBW(5/750)	IS 1500 (Part 1)
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals & alloys & products	Rockwell Hardness, HRC	IS 1586 (Part 1)
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals & alloys & products	Rockwell Hardness,HRBW	IS 1586 (Part 1)
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals & alloys & products	Vickers Hardness (HV1)	IS 1501 (Part 1)
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals & alloys & products	Vickers Hardness (HV10)	IS 1501 (Part 1)

SCOPE OF ACCREDITATION

Laboratory Name :	MASCOT LABORATORY SERVICES, #93, 7TH MAIN, 3RD PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5385	**Page No**	8 of 9
Validity	20/02/2022 to 19/02/2024	**Last Amended on**	02/06/2022

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
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals & alloys & products	Vickers Hardness (HV30)	IS 1501 (Part 1)
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals & alloys & products	Vickers Hardness (HV5)	IS 1501 (Part 1)
120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Tensile Strength	IS 1608 part1
121	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials and products	Inclusion rating	IS 4163
122	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Total Case depth by microscopic method	IS 6416
123	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials,alloys & Products	Decarburisation depth(by microscopic method)	IS 6396
124	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials,alloys & Products	Grain size by comparison method	IS 4748
125	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials,alloys & products	Inspection & rating(Macro etch test)	IS 13015
126	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials,alloys & Products	Micro-structure designation	IS 7739 (Part 5)
127	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials,alloys & Products	Micro-structure designation (Cast Iron)	IS 7754
128	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials,alloys &products	Macro-etch of wrought steel product	IS 11371
129	MECHANICAL-METALLOGRAPHY TEST	Metallic coatings	Coating/Plating thickness by microscope	IS 3203
130	MECHANICAL-METALLOGRAPHY TEST	Welds & welded test specimens	Butt welding (Top weld width, Bottom weld width, weld penetration depth side 1 & side 2, Top excess metal, Bottom excess metal, weld thickness)	IS 7318 (Part1 & 2)
131	MECHANICAL-METALLOGRAPHY TEST	Welds & welded test specimens	Fillet weld testing	AWS D1.1
132	MECHANICAL-METALLOGRAPHY TEST	Welds & welded test specimens	Fillet weld testing	ISO 5817

SCOPE OF ACCREDITATION

Laboratory Name :	MASCOT LABORATORY SERVICES, #93, 7TH MAIN, 3RD PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5385	**Page No**	9 of 9
Validity	20/02/2022 to 19/02/2024	**Last Amended on**	02/06/2022

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
133	MECHANICAL-METALLOGRAPHY TEST	Welds & welded test specimens	Fillet welding (Bottom weld length, vertical weld length, Base weld penetration depth, Vertical weld penetration depth, Throat thickness, Bottom weld length)	IS 7318 (Part 1 & 2)
134	MECHANICAL-METALLOGRAPHY TEST	Welds & welded test specimens	Resistance Spot welding	AWS D17.2 & D17.2M
135	MECHANICAL-METALLOGRAPHY TEST	Welds & welded test specimens	Weld fusion (Porosity, crack detection, slag inclusion)	IS 7318 (Part1 & 2)