SCOPE OF ACCREDITATION

Laboratory Name :	RAGHAVENDRA SPECTRO METALLURGICAL LABORATORY, PLOT NO 326, IX CROSS, IV PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-6806
Page No	1 of 30
Validity	31/01/2022 to 30/01/2024
Last Amended on	23/05/2023

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	Metals & alloys and metallic Products	Salt Spray Test	ASTM B117
2	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Metals (Ferrous Alloys, Aluminium Alloys, Copper Alloys, Tin base alloys, Zinc Alloys, Titanium alloys, Nickel alloys)	Cadmium	IEC 62321-5
3	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Metals (Ferrous Alloys, Aluminium Alloys, Copper Alloys, Tin base alloys, Zinc Alloys, Titanium alloys, Nickel alloys)	Hexavalent Chromium	IEC 62321 Ed. 1
4	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Metals (Ferrous Alloys, Aluminium Alloys, Copper Alloys, Tin base alloys, Zinc Alloys, Titanium alloys, Nickel alloys)	Lead	IEC 62321-5
5	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Metals (Ferrous Alloys, Aluminium Alloys, Copper Alloys, Tin base alloys, Zinc Alloys, Titanium alloys, Nickel alloys)	Mercury	IEC 62321-4:2023/AMD1
6	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Polymers (Nylon material, PVC material, ABS material, Delrin material, Polyethyene material, Polyester material, Polyteflon material, Rubber & Rubber products)	Cadmium	IEC 62321-5
7	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Polymers (Nylon material, PVC material, ABS material, Delrin material, Polyethyene material, Polyester material, Polyteflon material, Rubber & Rubber products)	Hexavalent Chromium	IEC 62321 Ed. 1
8	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Polymers (Nylon material, PVC material, ABS material, Delrin material, Polyethyene material, Polyester material, Polyteflon material, Rubber & Rubber products)	Lead	IEC 62321-5
9	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Polymers (Nylon material, PVC material, ABS material, Delrin material, Polyethyene material, Polyester material, Polyteflon material, Rubber & Rubber products)	Mercury	IEC 62321-4:2023/AMD1
10	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	metallic coatings	Mass of Zinc Coating	IS 6745
11	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Metallic Coatings	Uniformity of Zinc coating	IS 2633 clause 6.1.2
12	CHEMICAL- METALS & ALLOYS	Adhesion Test	Pivoted Hammer Test for Zmc Coats	IS 2629
13	CHEMICAL- METALS & ALLOYS	Alloy Steel	Carbon	ASTM E 1999
14	CHEMICAL- METALS & ALLOYS	Alloy Steel	Carbon	IS 15338

SCOPE OF ACCREDITATION

Laboratory Name :	RAGHAVENDRA SPECTRO METALLURGICAL LABORATORY, PLOT NO 326, IX CROSS, IV PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-6806
Page No	2 of 30
Validity	31/01/2022 to 30/01/2024
Last Amended on	23/05/2023

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
15	CHEMICAL- METALS & ALLOYS	Alloy steel	Chromium	ASTM E 1999
16	CHEMICAL- METALS & ALLOYS	Alloy steel	Chromium	IS 15338
17	CHEMICAL- METALS & ALLOYS	Alloy steel	Copper	ASTM E 1999
18	CHEMICAL- METALS & ALLOYS	Alloy steel	Copper	IS 15338
19	CHEMICAL- METALS & ALLOYS	Alloy steel	Manganese	ASTM E 1999
20	CHEMICAL- METALS & ALLOYS	Alloy steel	Manganese	IS 15338
21	CHEMICAL- METALS & ALLOYS	Alloy steel	Nickel	ASTM E 1999
22	CHEMICAL- METALS & ALLOYS	Alloy steel	Nickel	IS 15338
23	CHEMICAL- METALS & ALLOYS	Alloy steel	Phosphorous	ASTM E 1999
24	CHEMICAL- METALS & ALLOYS	Alloy steel	Phosphorous	IS 15338
25	CHEMICAL- METALS & ALLOYS	Alloy steel	Silicon	ASTM E 1999
26	CHEMICAL- METALS & ALLOYS	Alloy steel	Silicon	IS 15338
27	CHEMICAL- METALS & ALLOYS	Alloy steel	Sulphur	ASTM E 1999
28	CHEMICAL- METALS & ALLOYS	Alloy steel	Sulphur	IS 15338
29	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Chromium	ASTM E 1251
30	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	ASTM E 1251
31	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	ASTM E 3061
32	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron	ASTM E 1251
33	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron	ASTM E 3061

SCOPE OF ACCREDITATION

Laboratory Name : RAGHAVENDRA SPECTRO METALLURGICAL LABORATORY, PLOT NO 326, IX CROSS, IV PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6806 **Page No** 3 of 30

Validity 31/01/2022 to 30/01/2024 **Last Amended on** 23/05/2023

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
34	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lead	ASTM E 1251
35	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lead	ASTM E 3061
36	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium	ASTM E 1251
37	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium	ASTM E 3061
38	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	ASTM E 1251
39	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	ASTM E 3061
40	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel	ASTM E 1251
41	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel	ASTM E 3061
42	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon	ASTM E 1251
43	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Tin	ASTM E 1251
44	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Tin	ASTM E 3061
45	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Titanium	ASTM E 1251
46	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Titanium	ASTM E 3061
47	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	ASTM E 1251
48	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	ASTM E 3061
49	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Aluminium	ASTM E 415
50	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Aluminium	IS 8811
51	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Boron	ASTM E 415
52	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Boron	IS 8811

SCOPE OF ACCREDITATION

Laboratory Name : RAGHAVENDRA SPECTRO METALLURGICAL LABORATORY, PLOT NO 326, IX CROSS, IV PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6806 **Page No** 4 of 30

Validity 31/01/2022 to 30/01/2024 **Last Amended on** 23/05/2023

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
53	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Carbon	ASTM E415
54	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Carbon	IS 228 part 1
55	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Carbon	IS 8811
56	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Chromium	ASTM E 415
57	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Chromium	IS 8811
58	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Cobalt	ASTM E 415
59	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Cobalt	IS 8811
60	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Copper	ASTM E 415
61	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Copper	IS 8811
62	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Lead	ASTM E 415
63	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Lead	IS 8811
64	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Manganese	ASTM E 350
65	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Manganese	ASTM E 415
66	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Manganese	IS 8811
67	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Molybdenum	ASTM E 415
68	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Molybdenum	IS 8811
69	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Nickel	ASTM E415
70	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Nickel	IS 8811
71	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Niobium	ASTM E 415

SCOPE OF ACCREDITATION

Laboratory Name : RAGHAVENDRA SPECTRO METALLURGICAL LABORATORY, PLOT NO 326, IX CROSS, IV PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6806 **Page No** 5 of 30

Validity 31/01/2022 to 30/01/2024 **Last Amended on** 23/05/2023

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
72	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Niobium	IS 8811
73	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Phosphorous	ASTM E 350
74	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Phosphorous	ASTM E 415
75	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Phosphorous	IS 8811
76	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Silicon	ASTM E 415
77	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Silicon	IS 8811
78	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Tin	ASTM E 415
79	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Tin	IS 8811
80	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Titanium	ASTM E 415
81	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Titanium	IS 8811
82	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Tungsten	ASTM E 415
83	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Tungsten	ASTM E415
84	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Tungsten	IS 8811
85	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Vanadium	ASTM E 415
86	CHEMICAL- METALS & ALLOYS	Carbon Steel (low carbon, medium carbon & high carbon steel)	Vanadium	IS 8811
87	CHEMICAL- METALS & ALLOYS	Cast Iron - Raw Materials, Semi-finished and Finished Components	Aluminium	ASTM E 1999
88	CHEMICAL- METALS & ALLOYS	Cast Iron - Raw Materials, Semi-finished and Finished Components	Aluminium	IS 15338
89	CHEMICAL- METALS & ALLOYS	Cast Iron - Raw Materials, Semi-finished and Finished Components	Boron	ASTM E 1999
90	CHEMICAL- METALS & ALLOYS	Cast Iron - Raw Materials, Semi-finished and Finished Components	Boron	IS 15338

SCOPE OF ACCREDITATION

Laboratory Name : RAGHAVENDRA SPECTRO METALLURGICAL LABORATORY, PLOT NO 326, IX CROSS, IV PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6806 **Page No** 6 of 30

Validity 31/01/2022 to 30/01/2024 **Last Amended on** 23/05/2023

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
91	CHEMICAL- METALS & ALLOYS	Cast Iron - Raw Materials, Semi-finished and Finished Components	Cobalt	ASTM E 1999
92	CHEMICAL- METALS & ALLOYS	Cast Iron - Raw Materials, Semi-finished and Finished Components	Cobalt	IS 15338
93	CHEMICAL- METALS & ALLOYS	Cast Iron - Raw Materials, Semi-finished and Finished Components	Lead	ASTM E 1999
94	CHEMICAL- METALS & ALLOYS	Cast Iron - Raw Materials, Semi-finished and Finished Components	Lead	IS 15338
95	CHEMICAL- METALS & ALLOYS	Cast Iron - Raw Materials, Semi-finished and Finished Components	Magnesium	ASTM E 1999
96	CHEMICAL- METALS & ALLOYS	Cast Iron - Raw Materials, Semi-finished and Finished Components	Magnesium	IS 15338
97	CHEMICAL- METALS & ALLOYS	Cast Iron - Raw Materials, Semi-finished and Finished Components	Molybdenum	ASTM E 1999
98	CHEMICAL- METALS & ALLOYS	Cast Iron - Raw Materials, Semi-finished and Finished Components	Molybdenum	IS 15338
99	CHEMICAL- METALS & ALLOYS	Cast Iron - Raw Materials, Semi-finished and Finished Components	Niobium	ASTM E 1999
100	CHEMICAL- METALS & ALLOYS	Cast Iron - Raw Materials, Semi-finished and Finished Components	Niobium	IS 15338
101	CHEMICAL- METALS & ALLOYS	Cast Iron - Raw Materials, Semi-finished and Finished Components	Silicon	IS 12308 Part 6
102	CHEMICAL- METALS & ALLOYS	Cast Iron - Raw Materials, Semi-finished and Finished Components	Titanium	ASTM E 1999
103	CHEMICAL- METALS & ALLOYS	Cast Iron - Raw Materials, Semi-finished and Finished Components	Titanium	IS 15338
104	CHEMICAL- METALS & ALLOYS	Cast Iron - Raw Materials, Semi-finished and Finished Components	Tungsten	ASTM E 1999
105	CHEMICAL- METALS & ALLOYS	Cast Iron - Raw Materials, Semi-finished and Finished Components	Tungsten	IS 15338
106	CHEMICAL- METALS & ALLOYS	Cast Iron - Raw Materials, Semi-finished and Finished Components	Vanadium	ASTM E 1999
107	CHEMICAL- METALS & ALLOYS	Cast Iron - Raw Materials, Semi-finished and Finished Components	Vanadium	IS 15338
108	CHEMICAL- METALS & ALLOYS	Cast Iron -Raw Materials, semi finished and finished components	Copper	IS 15338
109	CHEMICAL- METALS & ALLOYS	Cast Iron- Raw Materials, semi finished and finished components	Copper	ASTM E 1999

SCOPE OF ACCREDITATION

Laboratory Name :	RAGHAVENDRA SPECTRO METALLURGICAL LABORATORY, PLOT NO 326, IX CROSS, IV PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-6806
Page No	7 of 30
Validity	31/01/2022 to 30/01/2024
Last Amended on	23/05/2023

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
110	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Aluminium	BN EN 15079
111	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Chromium	BS EN 15079
112	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Cobalt	BN EN 15079
113	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Copper	IS 7212 Cl No.5
114	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	BS EN 15079
115	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	IS 4027 Part 8 1991
116	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Lead	BN EN 15079
117	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Manganese	BS EN 15079
118	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel	BS EN 15079
119	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Nickel	IS 440
120	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Phosphorous	BN EN 15079
121	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Phosphorous	IS 440-0000
122	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silicon	BS EN 15079
123	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Silicon	IS 3685-
124	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Sulphur	BS EN 15079
125	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Tin	BN EN 15079
126	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Tin	IS 4027 Part 5
127	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Zinc	BS EN 15079
128	CHEMICAL- METALS & ALLOYS	Iron & its alloys - Low & Medium Carbon Steel	Chromium	RSML/SOP/ICP-OES/01 Rev 00

SCOPE OF ACCREDITATION

Laboratory Name :	RAGHAVENDRA SPECTRO METALLURGICAL LABORATORY, PLOT NO 326, IX CROSS, IV PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6806	**Page No**	8 of 30
Validity	31/01/2022 to 30/01/2024	**Last Amended on**	23/05/2023

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
129	CHEMICAL- METALS & ALLOYS	Iron & its alloys - Low & Medium Carbon Steel	Copper	RSML/SOP/ICP-OES/01 Rev 00
130	CHEMICAL- METALS & ALLOYS	Iron & its alloys - Low & Medium Carbon Steel	Molybdenum	RSML/SOP/ICP/OES 01 Rev 00
131	CHEMICAL- METALS & ALLOYS	Iron & its alloys - Low & Medium Carbon Steel	Nickel	RSML/SOP/ICP-OES/01 Rev 00
132	CHEMICAL- METALS & ALLOYS	Iron & its alloys - Low and Medium Carbon Steel	Manganese	RSML/SOP/ICP-OES/01 Rev 00
133	CHEMICAL- METALS & ALLOYS	Iron & its alloys - Low and Medium Carbon Steel	Phosphorous	RSML/SOP/ICP-OES/01/Rev 00
134	CHEMICAL- METALS & ALLOYS	Iron & its alloys - Low and Medium Carbon Steel	Sulphur	RSML/SOP/ICP-OES/01/Rev 00
135	CHEMICAL- METALS & ALLOYS	Low carbon, Medium & High carbon steel	Carbon	JIS G 1253
136	CHEMICAL- METALS & ALLOYS	Low Carbon, Medium & high carbon steel	Chromium	JIS G 1253
137	CHEMICAL- METALS & ALLOYS	Low Carbon, Medium & High Carbon steel	Cobalt	JIS G 1253
138	CHEMICAL- METALS & ALLOYS	Low Carbon, Medium & High Carbon steel	Copper	JIS G 1253
139	CHEMICAL- METALS & ALLOYS	Low Carbon, Medium & High Carbon steel	Lead	JIS G 1253
140	CHEMICAL- METALS & ALLOYS	Low Carbon, Medium & High Carbon steel	Manganese	JIS G 1253
141	CHEMICAL- METALS & ALLOYS	Low Carbon, Medium & High Carbon steel	Molybdenum	JIS G 1253
142	CHEMICAL- METALS & ALLOYS	Low Carbon, Medium & High Carbon steel	Neobium	JIS G 1253
143	CHEMICAL- METALS & ALLOYS	Low Carbon, Medium & High Carbon steel	Nickel	JIS G 1253
144	CHEMICAL- METALS & ALLOYS	Low carbon, medium & high carbon steel	Nitrogen	JIS G 1253
145	CHEMICAL- METALS & ALLOYS	Low Carbon, Medium & High Carbon steel	Phosphorous	JIS G 1253
146	CHEMICAL- METALS & ALLOYS	Low Carbon, Medium & High Carbon steel	Silicon	JIS G 1253
147	CHEMICAL- METALS & ALLOYS	Low Carbon, Medium & High Carbon steel	Sulphur	JIS G 1253

SCOPE OF ACCREDITATION

Laboratory Name : RAGHAVENDRA SPECTRO METALLURGICAL LABORATORY, PLOT NO 326, IX CROSS, IV PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6806 **Page No** 9 of 30

Validity 31/01/2022 to 30/01/2024 **Last Amended on** 23/05/2023

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
148	CHEMICAL- METALS & ALLOYS	Low Carbon, Medium & High Carbon steel	Tin	JIS G 1253
149	CHEMICAL- METALS & ALLOYS	Low Carbon, Medium & High Carbon steel	Titanium	JIS G 1253
150	CHEMICAL- METALS & ALLOYS	Low Carbon, Medium & High Carbon steel	Tungston	JIS G 1253
151	CHEMICAL- METALS & ALLOYS	Low Carbon, Medium & High Carbon steel	Vanadium	JIS G 1253
152	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Aluminium	SOP/Chem/01/Rev.00
153	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Antimony	SOP/Chem/01/Rev.00
154	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Bismuth	SOP/Chem/01/Rev.00
155	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Boron	ASTM E 3047
156	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Cadmium	SOP/Chem/01/Rev.00
157	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Carbon	ASTM E 3047
158	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Chromium	SOP/Chem/01/Rev.00
159	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Cobalt	ASTM E 3047
160	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Copper	SOP/Chem/01/Rev.00
161	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Iron	SOP/Chem/01/Rev.00
162	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Lead	SOP/Chem/01/Rev.00
163	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Magnesium	SOP/Chem/01/Rev.00
164	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Magnesium	SOP/Chem/01/Rev.00
165	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Manganese	SOP/Chem/01/Rev.00
166	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Molybdenum	ASTM E 3047

SCOPE OF ACCREDITATION

Laboratory Name :	RAGHAVENDRA SPECTRO METALLURGICAL LABORATORY, PLOT NO 326, IX CROSS, IV PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6806	**Page No**	10 of 30
Validity	31/01/2022 to 30/01/2024	**Last Amended on**	23/05/2023

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
167	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Neobium	ASTM E 3047
168	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Phosphorous	ASTM E 3047
169	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Silicon	ASTM E 3047
170	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Silicon	SOP/Chem/01/Rev.00
171	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Silver	SOP/Chem/01/Rev.00
172	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Sulfur	ASTM E 3047
173	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Tin	SOP/Chem/01/Rev.00
174	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Titanium	SOP/Chem/01/Rev.00
175	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Tungsten	ASTM E 3047
176	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Vanadium	ASTM E 3047
177	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Zirconium	ASTM E 3047
178	CHEMICAL- METALS & ALLOYS	Raw Materials, semi finished and finished components	Sulphur	ASTM E 415
179	CHEMICAL- METALS & ALLOYS	Raw Materials, semifinished and finished components	Sulphur	IS 8811
180	CHEMICAL- METALS & ALLOYS	Stainles steel	Carbon	ASTM E 1086
181	CHEMICAL- METALS & ALLOYS	Stainles steel	Carbon	IS 228 Part 1
182	CHEMICAL- METALS & ALLOYS	Stainles steel	Carbon	IS 9879
183	CHEMICAL- METALS & ALLOYS	Stainles steel	Chromium	ASTM E 1086
184	CHEMICAL- METALS & ALLOYS	Stainles steel	Chromium	IS 9879
185	CHEMICAL- METALS & ALLOYS	Stainles steel	Cobalt	ASTM E 1086

SCOPE OF ACCREDITATION

Laboratory Name : RAGHAVENDRA SPECTRO METALLURGICAL LABORATORY, PLOT NO 326, IX CROSS, IV PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6806 **Page No** 11 of 30

Validity 31/01/2022 to 30/01/2024 **Last Amended on** 23/05/2023

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
186	CHEMICAL- METALS & ALLOYS	Stainles steel	Cobalt	IS 9879
187	CHEMICAL- METALS & ALLOYS	Stainles steel	Copper	ASTM E 1086
188	CHEMICAL- METALS & ALLOYS	Stainles steel	Copper	IS 9879
189	CHEMICAL- METALS & ALLOYS	Stainles steel	Lead	ASTM E 1086
190	CHEMICAL- METALS & ALLOYS	Stainles steel	Lead	IS 9879
191	CHEMICAL- METALS & ALLOYS	Stainles steel	Manganese	ASTM E 1086
192	CHEMICAL- METALS & ALLOYS	Stainles steel	Manganese	IS 9879
193	CHEMICAL- METALS & ALLOYS	Stainles steel	Molybdenum	ASTM E 1086
194	CHEMICAL- METALS & ALLOYS	Stainles steel	Molybdenum	IS 9879
195	CHEMICAL- METALS & ALLOYS	Stainles steel	Nickel	ASTM E 1086
196	CHEMICAL- METALS & ALLOYS	Stainles steel	Nickel	IS 9879
197	CHEMICAL- METALS & ALLOYS	Stainles steel	Niobium	ASTM E 1086
198	CHEMICAL- METALS & ALLOYS	Stainles steel	Niobium	IS 9879
199	CHEMICAL- METALS & ALLOYS	Stainles steel	Phosphorous	ASTM E 1086
200	CHEMICAL- METALS & ALLOYS	Stainles steel	Phosphorous	IS 9879
201	CHEMICAL- METALS & ALLOYS	Stainles steel	Silicon	ASTM E 1086
202	CHEMICAL- METALS & ALLOYS	Stainles steel	Silicon	ASTM E 353
203	CHEMICAL- METALS & ALLOYS	Stainles steel	Silicon	IS 9879
204	CHEMICAL- METALS & ALLOYS	Stainles steel	Sulphur	ASTM E 1086

SCOPE OF ACCREDITATION

Laboratory Name :	RAGHAVENDRA SPECTRO METALLURGICAL LABORATORY, PLOT NO 326, IX CROSS, IV PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6806	**Page No**	12 of 30
Validity	31/01/2022 to 30/01/2024	**Last Amended on**	23/05/2023

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
205	CHEMICAL- METALS & ALLOYS	Stainles steel	Sulphur	IS 9879
206	CHEMICAL- METALS & ALLOYS	Stainles steel	Titanium	ASTM E 1086
207	CHEMICAL- METALS & ALLOYS	Stainles steel	Titanium	IS 9879
208	CHEMICAL- METALS & ALLOYS	Stainles steel	Tungsten	ASTM E 1086
209	CHEMICAL- METALS & ALLOYS	Stainles steel	Tungsten	IS 9879
210	CHEMICAL- METALS & ALLOYS	Stainles steel	Vanadium	ASTM E 1086
211	CHEMICAL- METALS & ALLOYS	Stainles steel	Vanadium	IS 9879
212	CHEMICAL- METALS & ALLOYS	Stainless steel	Aluminium	ASTM E 1086
213	CHEMICAL- METALS & ALLOYS	Stainless steel	Aluminium	IS 9879
214	CHEMICAL- METALS & ALLOYS	Stainless Steel	Aluminium	JIS G 1253
215	CHEMICAL- METALS & ALLOYS	Stainless steel	Boron	ASTM E 1086
216	CHEMICAL- METALS & ALLOYS	Stainless steel	Boron	IS 9879
217	CHEMICAL- METALS & ALLOYS	Stainless Steel	Boron	JIS G 1253
218	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	JIS G 1253
219	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	JIS G 1253
220	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cobalt	JIS G 1253
221	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E 1086
222	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	IS 9879
223	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	JIS G 1253

SCOPE OF ACCREDITATION

Laboratory Name : RAGHAVENDRA SPECTRO METALLURGICAL LABORATORY, PLOT NO 326, IX CROSS, IV PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6806 **Page No** 13 of 30

Validity 31/01/2022 to 30/01/2024 **Last Amended on** 23/05/2023

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
224	CHEMICAL- METALS & ALLOYS	Stainless Steel	Lead	JIS G 1253
225	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	JIS G 1253
226	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	JIS G 1253
227	CHEMICAL- METALS & ALLOYS	Stainless Steel	Neobium	JIS G 1253
228	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	JIS G 1253
229	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nitrogen	JIS G 1253
230	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorous	JIS G 1253
231	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	JIS G 1253
232	CHEMICAL- METALS & ALLOYS	Stainless Steel	Titanium	JIS G 1253
233	CHEMICAL- METALS & ALLOYS	Stainless Steel	Tungsten	JIS G 1253
234	CHEMICAL- METALS & ALLOYS	Stainless Steel	Vanadium	JIS G 1253
235	CHEMICAL- METALS & ALLOYS	Stainless steel & HSS	Chromium	RSML/SOP/ICP-OES/02 Rev 00
236	CHEMICAL- METALS & ALLOYS	Stainless steel & HSS	Copper	RSML/SOP/ICP-OES 02/Rev 00
237	CHEMICAL- METALS & ALLOYS	Stainless Steel & HSS	Manganese	RSML/SOP/ICP-OES/02 Rev 00
238	CHEMICAL- METALS & ALLOYS	Stainless steel & HSS	Molybdenum	RSML/SOP/ICP-OES/02 Rev 00
239	CHEMICAL- METALS & ALLOYS	Stainless steel & HSS	Nickel	RSML/SOP/ICP-OES/02 Rev 00
240	CHEMICAL- METALS & ALLOYS	Stainless steel & HSS	Phosphorous	RSML/SOP/ICP-OES 02 Rev 00
241	CHEMICAL- METALS & ALLOYS	Stainless stell & HSS	Sulphur	RSML/SOP/ICP-OES 02 Rev 00
242	CHEMICAL- METALS & ALLOYS	Tin & its alloys, Solder	Iron	RSML/SOP/Chem/03

SCOPE OF ACCREDITATION

Laboratory Name : RAGHAVENDRA SPECTRO METALLURGICAL LABORATORY, PLOT NO 326, IX CROSS, IV PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6806 **Page No** 14 of 30

Validity 31/01/2022 to 30/01/2024 **Last Amended on** 23/05/2023

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
243	CHEMICAL- METALS & ALLOYS	Tin & its alloys, Solders	Aluminium	RSML/SOP/Chem/03
244	CHEMICAL- METALS & ALLOYS	Tin & its alloys, Solders	Antimony	RSML/SOP/Chem/03
245	CHEMICAL- METALS & ALLOYS	Tin & its alloys, Solders	Arsenic	RSML/SOP/Chem/03
246	CHEMICAL- METALS & ALLOYS	Tin & its alloys, Solders	Bismuth	RSML/SOP/Chem/03
247	CHEMICAL- METALS & ALLOYS	Tin & its alloys, Solders	Cadmium	RSML/SOP/Chem/03
248	CHEMICAL- METALS & ALLOYS	Tin & its alloys, Solders	Copper	RSML/SOP/Chem/03
249	CHEMICAL- METALS & ALLOYS	Tin & its alloys, Solders	Lead	RSML/SOP/Chem/03
250	CHEMICAL- METALS & ALLOYS	Tin & its alloys, Solders	Nickel	RSML/SOP/Chem/03
251	CHEMICAL- METALS & ALLOYS	Tin & its alloys, Solders	Silver	RSML/SOP/Chem/03
252	CHEMICAL- METALS & ALLOYS	Tin & its alloys, Solders	Zinc	RSML/SOP/Chem/03
253	CHEMICAL- METALS & ALLOYS	Tin and tin alloys	Aluminium	ASTM F 3139
254	CHEMICAL- METALS & ALLOYS	Tin and tin alloys	Antimony	ASTM F 3139
255	CHEMICAL- METALS & ALLOYS	Tin and tin alloys	Bismuth	ASTM F 3139:
256	CHEMICAL- METALS & ALLOYS	Tin and tin alloys	Cadmium	ASTM F 3139
257	CHEMICAL- METALS & ALLOYS	Tin and tin alloys	Copper	ASTM F 3139
258	CHEMICAL- METALS & ALLOYS	Tin and tin alloys	Iron	ASTM F 3139
259	CHEMICAL- METALS & ALLOYS	Tin and tin alloys	Lead	ASTM F 3139
260	CHEMICAL- METALS & ALLOYS	Tin and tin alloys	Nickel	ASTM F 3139
261	CHEMICAL- METALS & ALLOYS	Tin and tin alloys	Silver	ASTM F 3139

SCOPE OF ACCREDITATION

Laboratory Name :	RAGHAVENDRA SPECTRO METALLURGICAL LABORATORY, PLOT NO 326, IX CROSS, IV PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-6806
Page No	15 of 30
Validity	31/01/2022 to 30/01/2024
Last Amended on	23/05/2023

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
262	CHEMICAL- METALS & ALLOYS	Tin and tin alloys	Tin	ASTM F 3139
263	CHEMICAL- METALS & ALLOYS	Tin and tin alloys	Zinc	ASTM F 3139
264	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Aluminium	ASTM E 2371
265	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Chromium	ASTM E 2371
266	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Cobalt	ASTM E 2371
267	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Copper	ASTM E 2371
268	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Iron	ASTM E 2371
269	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Nickel	ASTM E 2371
270	CHEMICAL- METALS & ALLOYS	Titanium and Titanium Alloys	Vanadium	ASTM E 2371
271	CHEMICAL- METALS & ALLOYS	Tool Steel	Carbon	SOP No. 02 ISSUE No. 01
272	CHEMICAL- METALS & ALLOYS	Tool Steel	Chromium	SOP No. 02 Issue No. 01
273	CHEMICAL- METALS & ALLOYS	Tool Steel	Cobalt	SOP No. 02 Issue No. 01
274	CHEMICAL- METALS & ALLOYS	Tool Steel	Manganese	SOP No. 02 Issue no. 01
275	CHEMICAL- METALS & ALLOYS	Tool Steel	Molybdenum	SOP No.02 Issue No. 01
276	CHEMICAL- METALS & ALLOYS	Tool Steel	Phosphorous	SOP No. 02 Issue No. 1 June 2014
277	CHEMICAL- METALS & ALLOYS	Tool Steel	Silicon	SOP No. 02 Issue No. 01 June 2014
278	CHEMICAL- METALS & ALLOYS	Tool Steel	Sulphur	SOP No. 02 Issue No. 01 June 2014
279	CHEMICAL- METALS & ALLOYS	Tool Steel	Tungsten	SOP No. 02 Issue No. 01 June 2014
280	CHEMICAL- METALS & ALLOYS	Tool Steel	Vanadium	SOP No. 02 Issue No. 01 June 2014

SCOPE OF ACCREDITATION

Laboratory Name :	RAGHAVENDRA SPECTRO METALLURGICAL LABORATORY, PLOT NO 326, IX CROSS, IV PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-6806
Page No	16 of 30
Validity	31/01/2022 to 30/01/2024
Last Amended on	23/05/2023

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
281	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Aluminium	ASTM E 634
282	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Antimony	ASTM E 634
283	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Bismuth	ASTM E 634
284	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Cadmium	ASTM E 634
285	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Chromium	ASTM E 634
286	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Copper	ASTM E 634
287	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Iron	SOP/Chem/03/Rev.00
288	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Lead	SOP/Chem/02Rev.00
289	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Magnesium	SOP/Chem/02/Rev.00
290	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Manganese	SOP/Chem/02/Rev.00
291	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Nickel	SOP/Chem/02/Rev.00
292	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Silicon	ASTM E 634
293	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Silver	ASTM E 634
294	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Tin	ASTM E 634
295	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Titanium	ASTM E 634
296	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Aluminium	ASTM D 5185
297	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Aluminium	ASTM D 5185
298	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Barium	ASTM D 5185
299	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Barium	ASTM D5185

SCOPE OF ACCREDITATION

Laboratory Name :	RAGHAVENDRA SPECTRO METALLURGICAL LABORATORY, PLOT NO 326, IX CROSS, IV PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6806	**Page No**	17 of 30
Validity	31/01/2022 to 30/01/2024	**Last Amended on**	23/05/2023

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
300	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Boron	ASTM D 5185
301	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Boron	ASTM D 5185
302	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Calcium	ASTM D 5185
303	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Calcium	ASTM D 5185
304	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Calorific Value by Bomb Calorimeter	ASTM D 240
305	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Calorific Value by Bomb Calorimeter	ASTM D 240
306	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Chromium	ASTM D 5185
307	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Chromium	ASTM D 5185
308	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Colour	SOP/OIL/11
309	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Copper	ASTM D 5185
310	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Copper	ASTM D 5185
311	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Density	ASTM D 1298
312	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Density	ASTM D 1298
313	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Density	ASTM D 1298
314	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Flash Point by COC	ASTM D 92
315	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Flash Point by PMCC	ASTM D 93
316	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Flash Point by PMCC	ASTM D 93
317	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Iron	ASTM D 5185
318	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Iron	ASTM D 5185

SCOPE OF ACCREDITATION

Laboratory Name :	RAGHAVENDRA SPECTRO METALLURGICAL LABORATORY, PLOT NO 326, IX CROSS, IV PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6806	**Page No**	18 of 30
Validity	31/01/2022 to 30/01/2024	**Last Amended on**	23/05/2023

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
319	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Kinematic Viscosity @ 100ºC	ASTM D 445
320	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Kinematic Viscosity @ 40º C	ASTM D 445
321	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Kinematic Viscosity @ 40ºC	ASTM D 445
322	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Kinematic Viscosity @ 40ºC	ASTM D 445
323	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Lead	ASTM D 5185
324	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Lead	ASTM D 5185
325	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Magnesium	ASTM D 5185
326	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Magnesium	ASTM D 5185
327	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Manganese	ASTM D 5185
328	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Manganese	ASTM D 5185
329	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Molybdenum	ASTM D 5185
330	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Molybdenum	ASTM D 5185
331	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Nickel	ASTM D 5185
332	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Nickel	ASTM D 5185
333	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Phosphorous	ASTM D 5185
334	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Phosphorous	ASTM D 5185
335	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Potassium	ASTM D 5185
336	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Potassium	ASTM D 5185
337	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Pour point	ASTM D 97

SCOPE OF ACCREDITATION

Laboratory Name :	RAGHAVENDRA SPECTRO METALLURGICAL LABORATORY, PLOT NO 326, IX CROSS, IV PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6806	**Page No**	19 of 30
Validity	31/01/2022 to 30/01/2024	**Last Amended on**	23/05/2023

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
338	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Silicon	ASTM D 5185
339	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Silicon	ASTM D 5185
340	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Silver	ASTM D 5185
341	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Silver	ASTM D 5185
342	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Sodium	ASTM D 5185
343	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Sodium	ASTM D 5185
344	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Sulphated Ash	ASTM D 874
345	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Sulphur	ASTM D 5185
346	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Sulphur	ASTM D 5185
347	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	TAN	ASTM D 664
348	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	TBN	ASTM D 2896
349	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Tin	ASTM D 5185
350	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Tin	ASTM D 5185
351	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Titanium	ASTM D 5185
352	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Titanium	ASTM D 5185
353	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Vanadium	ASTM D 5185
354	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Vanadium	ASTM D 5185
355	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Viscosity Index	ASTM D 2270
356	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Water Content	ASTM D 6304

SCOPE OF ACCREDITATION

Laboratory Name :	RAGHAVENDRA SPECTRO METALLURGICAL LABORATORY, PLOT NO 326, IX CROSS, IV PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6806	**Page No**	20 of 30
Validity	31/01/2022 to 30/01/2024	**Last Amended on**	23/05/2023

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
357	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Water Content	ASTM D 6304
358	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Water Content	ASTM D 95
359	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Zinc	ASTM D 5185
360	CHEMICAL- PETROLEUM AND PRODUCTS	Lube Oil, Diesel, Quench Oil, Furnace oil, Transformer oil, Polymer oil & Fuel oil	Zinc	ASTM D 5185
361	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Arsenic as As	ASTM D 1976
362	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Boron as B	ASTM D 1976
363	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Cadmium as Cd	ASTM D 1976
364	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chemical Oxygen Demand (COD)	ASTM D 1252
365	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chloride as Cl	IS 3025 Part 32
366	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Copper as Cu	ASTM D 1976
367	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Dissolved Phosphates as P	ASTM D 6508
368	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Fluoride as F	IS 3025 Part 60
369	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Hexavalent Chromium Cr+6	IS 3025 Part 52
370	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Lead as Pb	ASTM D 1976
371	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Mercury as Hg	ASTM D 1976
372	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Nickel as Ni	ASTM D 1976
373	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Oil and Grease	IS 3025 Part 39
374	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	pH value	IS 30 25 Part 11
375	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Selenium as Se	ASTM D 1976

SCOPE OF ACCREDITATION

Laboratory Name :	RAGHAVENDRA SPECTRO METALLURGICAL LABORATORY, PLOT NO 326, IX CROSS, IV PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6806	**Page No**	21 of 30
Validity	31/01/2022 to 30/01/2024	**Last Amended on**	23/05/2023

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
376	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sulphates as SO4	IS 3025 Part 24
377	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sulphides as S	IS 3025 Part 29
378	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Temperature	IS 3025 Part 9
379	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Chromium as Cr	ASTM D 1976
380	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Dissolved Solids	APHA, 23rd Edn.(2540C)
381	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Suspended Solids	APHA, 23rd Edn.(2540 D)
382	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Zinc as Zn	ASTM D 1976
383	CHEMICAL- RESIDUES IN WATER	Potable Water	Aluminium	ASTM D 1976
384	CHEMICAL- RESIDUES IN WATER	Potable Water	Arsenic	ASTM D 1976
385	CHEMICAL- RESIDUES IN WATER	Potable Water	Boron	ASTM D 1976
386	CHEMICAL- RESIDUES IN WATER	Potable Water	Cadmium	ASTM D 1976
387	CHEMICAL- RESIDUES IN WATER	Potable Water	Copper	ASTM D 1976
388	CHEMICAL- RESIDUES IN WATER	Potable Water	Hexavalent Chromium	IS 3025 Part 52
389	CHEMICAL- RESIDUES IN WATER	Potable Water	Iron	ASTM D 1976
390	CHEMICAL- RESIDUES IN WATER	Potable Water	Lead	ASTM D 1976
391	CHEMICAL- RESIDUES IN WATER	Potable Water	Manganese	ASTM D 1976
392	CHEMICAL- RESIDUES IN WATER	Potable Water	Mercury	ASTM D 1976
393	CHEMICAL- RESIDUES IN WATER	Potable Water	Selenium	ASTM D 1976
394	CHEMICAL- RESIDUES IN WATER	Potable Water	Zinc	ASTM D 1976

SCOPE OF ACCREDITATION

Laboratory Name : RAGHAVENDRA SPECTRO METALLURGICAL LABORATORY, PLOT NO 326, IX CROSS, IV PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6806 **Page No** 22 of 30

Validity 31/01/2022 to 30/01/2024 **Last Amended on** 23/05/2023

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
395	CHEMICAL- WATER	Potable Water	Alkalinity	IS 3025 Part 23
396	CHEMICAL- WATER	Potable Water	Calcium	IS 3025 Part 40
397	CHEMICAL- WATER	Potable Water	Chloride	IS 3025 Part 32
398	CHEMICAL- WATER	Potable Water	Colour	IS 3025 Part 4
399	CHEMICAL- WATER	Potable Water	Fluoride	IS 3025 Part 60
400	CHEMICAL- WATER	Potable Water	Magnesium	IS 3025 Part 46
401	CHEMICAL- WATER	Potable Water	Nitrate	IS 3025 Part 34
402	CHEMICAL- WATER	Potable Water	Odour	IS 3025 Part 5
403	CHEMICAL- WATER	Potable Water	pH	IS 3025 Part 11
404	CHEMICAL- WATER	Potable Water	Sulphate	IS 3025 Part 24
405	CHEMICAL- WATER	Potable Water	Sulphate	IS 3025 Part 24
406	CHEMICAL- WATER	Potable Water	Taste	IS 3025 Part 8
407	CHEMICAL- WATER	Potable Water	Total Dissolved Solids	IS 3025 Part 16
408	CHEMICAL- WATER	Potable Water	Total Hardness	IS 3025 Part 21
409	CHEMICAL- WATER	Potable Water	Turbidity	IS 3025 Part 10
410	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium and Magnesium alloy products	% Elongation	ASTM B557
411	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium and Magnesium alloy products	% Reduction in Area	ASTM B557
412	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium and Magnesium alloy products	0.1% to 0.5% Proof Stress	ASTM B557
413	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium and Magnesium alloy products	Tensile Strength	ASTM 557
414	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium and Magnesium alloy products	Tensile Strength	ASTM B557
415	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Aluminium and Magnesium alloy products	Yield Stress	ASTM B557
416	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	% Elongation	ASTM E8/E8M

SCOPE OF ACCREDITATION

Laboratory Name :	RAGHAVENDRA SPECTRO METALLURGICAL LABORATORY, PLOT NO 326, IX CROSS, IV PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6806	**Page No**	23 of 30
Validity	31/01/2022 to 30/01/2024	**Last Amended on**	23/05/2023

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
417	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	% Elongation	IS 1608 part I
418	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	% Reduction in Area	ASTM E8/E8M
419	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	% Reduction in Area	IS 1608 part I
420	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	0.1% to 0.5% Proof Stress	ASTM E8/E8M
421	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	0.1% to 0.5% Proof Stress	IS 1608 part I
422	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Tensile Strength	ASTM E8/E8M
423	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Tensile Strength	IS 1608 part I
424	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Yield Stress	ASTM E8/E8M
425	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper materials, alloys & products	Yield Stress	IS 1608 part I
426	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and N0n-ferrous Materials, alloys and products	Transverse Tensile	ASME Sec IX
427	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non ferrous Materials, alloys and products	Face bend test	ISO 5173
428	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-ferrous Materials, Alloys & Products	Transverse Tensile	IS 7307 part 1
429	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-ferrous Materials, alloys and products	Face bend test	ASME Sec IX
430	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and non-ferrous Materials, alloys and products	Hardness Test on Arc welded joints	ISO 9015 Part 1

SCOPE OF ACCREDITATION

Laboratory Name :	RAGHAVENDRA SPECTRO METALLURGICAL LABORATORY, PLOT NO 326, IX CROSS, IV PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6806	**Page No**	24 of 30
Validity	31/01/2022 to 30/01/2024	**Last Amended on**	23/05/2023

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
431	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-ferrous Materials, alloys and Products	Root bend Test	IS 7307 part 1
432	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous and Non-ferrous Materials, Alloys and Products	Root Bend Test	ISO 5173
433	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	% Elongation	ASTM E8 EM8
434	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	% Elongation	IS 1608 part I
435	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	0.1% to 0.5% Proof Stress	ASTM A 370
436	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, alloys & products	0.1% to 0.5% Proof Stress	ASTM E8/E8M
437	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	0.1% to 0.5% Proof Stress	IS 1608 part I
438	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & products	Bend Test	API 1104
439	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Bend Test	IS 1599 2012
440	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardnes 10/3000	ASTM E10
441	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness 10/1000	ASTM E 10
442	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness 10/1000	IS 1500 Part 1
443	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness 10/3000	IS 1500 Part 1
444	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness 2.5/187.5	ASTM E 10

SCOPE OF ACCREDITATION

Laboratory Name :	RAGHAVENDRA SPECTRO METALLURGICAL LABORATORY, PLOT NO 326, IX CROSS, IV PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-6806
Page No	25 of 30
Validity	31/01/2022 to 30/01/2024
Last Amended on	23/05/2023

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
445	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness 2.5/187.5	IS 1500 Part 1
446	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness 5/250	ASTM E 10
447	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness 5/250	IS 1500 Part 1
448	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness 5/750	ASTM E 10
449	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Brinell Hardness 5/750	IS1500 Part 1
450	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Impact Strength Charpy U Notch(RT to -60ºC and -196ºC)	IS 1499
451	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Impact Strength Charpy V Notch (RT to -60ºC and -196ºC)	ASTM E23
452	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Impact Strength Charpy V Notch (RT to -60ºC and -196ºC)	IS1757 Part 1(KV2 & KV8)
453	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Impact Strength Izod(RT to -60ºC and -196ºC)	IS 1598
454	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & products	Nick Break	API 1104
455	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Re-bend Test	IS 1786
456	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness (HBW)	ASTM E 18
457	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness (HRA)	ASTM E 18
458	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness (HRA)	IS 1586 part 1

SCOPE OF ACCREDITATION

Laboratory Name :	RAGHAVENDRA SPECTRO METALLURGICAL LABORATORY, PLOT NO 326, IX CROSS, IV PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6806	**Page No**	26 of 30
Validity	31/01/2022 to 30/01/2024	**Last Amended on**	23/05/2023

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
459	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness (HRB)	IS 1586 Part 1
460	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness (HRC)	ASTM E 18
461	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Rockwell Hardness (HRC)	IS 1586 Part 1
462	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & products	Tensile Strength	API 1104
463	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Strength	ASTM E8/E8M
464	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Tensile Strength	IS 1608 part I
465	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness (HV10)	ASTM E 92
466	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness (HV10)	IS 1501 Part1
467	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness (HV30)	ASTM E 92
468	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Vickers Hardness (HV30)	IS 1501 Part1
469	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Materials, Alloys & products	Vickers Hardness (HV5)	IS 1501 Part I
470	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Yield stress	ASTM A370,
471	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Yield Stress	ASTM E8/E8M
472	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Yield Stress	IS 1608 part I

SCOPE OF ACCREDITATION

Laboratory Name :	RAGHAVENDRA SPECTRO METALLURGICAL LABORATORY, PLOT NO 326, IX CROSS, IV PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6806	**Page No**	27 of 30
Validity	31/01/2022 to 30/01/2024	**Last Amended on**	23/05/2023

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
473	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal Powders & sintered products	Transverse rupture strength	ASTM B 528
474	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous metals, alloys & products	Impact test Charpy 'U' notch(RT to -60ºC and -196ºC)	ASTM E 23
475	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Other Non-Ferrous Metals, Alloys & Products	Vickers Hardness (HV5)	IS 1501 Part I
476	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Raw Materials, Semi-finished and Finished Products	% Elongation	ASTM E8/E8M
477	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Raw Materials, Semi-finished and Finished Products	% Elongation	IS 1608 part I
478	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Raw Materials, Semi-finished and Finished Products	% Reduction in Area	ASTM E8/E8M
479	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Raw Materials, Semi-finished and Finished Products	% Reduction in Area	IS 1608 part I
480	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Raw Materials, Semi-finished and Finished Products	0.1% to 0.5% Proof Stress	ASTM E8/E8M
481	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Raw Materials, Semi-finished and Finished Products	Tensile Strength	IS 1608 part I
482	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Raw Materials, Semi-finished and Finished Products	Yield Stress	ASTM E8/E8M
483	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Raw Materials, Semi-finished and Finished Products	0.1% to 0.5% Proof Stress	IS 1608 part I
484	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Raw Materials, Semi-finished, Finished and Products	Tensile Strength	ASTM E8/E8M
485	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Raw Materials, Semi-finished, Finished and Products	Yield Stress	IS 1608 part I
486	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Bend Test	AWS D1.1/D1.1M

SCOPE OF ACCREDITATION

Laboratory Name :	RAGHAVENDRA SPECTRO METALLURGICAL LABORATORY, PLOT NO 326, IX CROSS, IV PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6806	**Page No**	28 of 30
Validity	31/01/2022 to 30/01/2024	**Last Amended on**	23/05/2023

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
487	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Face bend test	IS 7307 part 1
488	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Root Bend Test	ASME Sec IX
489	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Side bend test	ASME Sec IX
490	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Side bend test	IS 7307-
491	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Side bend test	IS0 5173
492	MECHANICAL-METALLOGRAPHY TEST	Metallic coatings	Electroless Ni-Phosphorous Coating Thickness - Magnification 50X, 100X, 200X	IS 13677 1993
493	MECHANICAL-METALLOGRAPHY TEST	Aluminium materials, alloys & products	IGC Practice G, Heat Treatable aluminium Alooys	ASTM G 110-1992
494	MECHANICAL-METALLOGRAPHY TEST	Aluminium materials, alloys & products	Microstructure	ASM Metals Hand Book Vol-9
495	MECHANICAL-METALLOGRAPHY TEST	Copper materials,, alloys & products	Microstructure	ASM Metals Hand Book Vol-9
496	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Adhesion Testing, Paint Surface on Metals	ASTM D 3359-Method A & B
497	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Case Depth - Micro Hardness	IS 6416
498	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Case depth Microscopic method Magnification 50X, 100 X	IS 6416
499	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Decarburization depth Microscopic meyhod	IS 6396
500	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Ferrite Content - Manual Count	ASTM E 562
501	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Grain size	ASTM E 112
502	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Grain size	IS 4748

SCOPE OF ACCREDITATION

Laboratory Name :	RAGHAVENDRA SPECTRO METALLURGICAL LABORATORY, PLOT NO 326, IX CROSS, IV PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6806	**Page No**	29 of 30
Validity	31/01/2022 to 30/01/2024	**Last Amended on**	23/05/2023

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
503	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Graphic Flake type and Size Nodularity	IS7754-1975
504	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	IGC Test Practice A, E and F Austenitic Stainless Steel	ASTM A262
505	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	IGC Test Practice, B. Austenitic Stainless Steel	ASTM A262
506	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	IGC Test Practice, C Austenitic Stainless Steel	ASTM A262
507	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Inclusion rating	ASTM E 45
508	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Inclusion Rating	IS 4163 2004
509	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Macro Etch Test	ASTM A 604/A604M
510	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Macro Etch Test	IASTM E 340
511	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Macro Etch Test	IS 13015 -1991
512	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Macro Etch Test	IS11371-1985
513	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Macro Etch Test.	ASTM E 381
514	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & Products	Micro Vickers Hardness	ASTM E 384
515	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & Products	Micro Vickers Hardness	ASTM E 384
516	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & Products	Micro Vickers Hardness	ASTM E 384
517	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & Products	Micro Vickers Hardness	ASTM E 384
518	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & Products	Micro Vickers Hardness	ASTM E 384
519	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & Products	Micro Vickers Hardness	ASTM E384
520	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & Products	Micro Vickers Hardness	IS 1501 Part 1
521	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & Products	Micro Vickers Hardness	IS 1501 Part 1

SCOPE OF ACCREDITATION

Laboratory Name : RAGHAVENDRA SPECTRO METALLURGICAL LABORATORY, PLOT NO 326, IX CROSS, IV PHASE, PEENYA INDUSTRIAL AREA, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6806 **Page No** 30 of 30

Validity 31/01/2022 to 30/01/2024 **Last Amended on** 23/05/2023

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
522	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & Products	Micro Vickers Hardness	IS 1501 Part 1
523	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & Products	Micro Vickers Hardness	IS 1501 Part 1
524	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & Products	Micro Vickers Hardness	IS 1501 Part 1
525	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & Products	Micro Vickers Hardness	IS 1501 Part I
526	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, Alloys & Products	Micro Vickers Hardness	IS 1501 Part1
527	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Microstructure	ASM Metal Hand Book Vol 9
528	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Pitting and Crevice Corrosion of Paint Surface on Metals	ASTM G 48
529	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products Product	Detection of Inter Metallic Phases, Duplex Stainless Steel	ASTM A 923 - Method C
530	MECHANICAL-METALLOGRAPHY TEST	Metallic coatings	Coating Thickness - Magnification 50X, 100X, 200X	IS 3203 1982
531	MECHANICAL-METALLOGRAPHY TEST	Other Non-Ferrous Metals, Alloys & Products	Brazing	ASME Sec IX
532	MECHANICAL-METALLOGRAPHY TEST	Other Non-Ferrous Metals, Alloys & Products	Micro Vickers Hardness	IS 1501 Part I
533	MECHANICAL-METALLOGRAPHY TEST	Welds & welded test specimens	Fracture Test	ISO 9017-2001
534	MECHANICAL-METALLOGRAPHY TEST	Welds & welded test specimens	Hardness Testing on arc welded joints	ISO 9015 part 1 2001
535	MECHANICAL-METALLOGRAPHY TEST	Welds & welded test specimens	Macroscopic and Microscopic Examination	ASME Sec IX
536	MECHANICAL-METALLOGRAPHY TEST	Welds & welded test specimens	Macroscopic and Microscopic Examination	ISO 17639
537	MECHANICAL-METALLOGRAPHY TEST	Welds & welded test specimens	Micro Hardness Testing of Welded Joints	ISO 9015 Part 2