National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : QUALITY CONTROL LABORATORY OF MIDHANI, MISHRA DHATU NIGAM LIMITED, A GOVT. OF INDIA ENTERPRISE, A MINI RATNA COMPANY, P.O. KANCHANBAGH, HYDERABAD, TELANGANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7139 **Page No** 1 of 11

Validity 16/03/2023 to 15/03/2025 **Last Amended on** -

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- METALS & ALLOYS	Fe, Co &Ni Alloys	Oxygen (O)	ASTM E1019
2	CHEMICAL- METALS & ALLOYS	Fe-base High Mn Steel	Chromium (Cr)	ASTM E2209
3	CHEMICAL- METALS & ALLOYS	Ni-base Alloy	Aluminium (Al)	ASTM E 2594
4	CHEMICAL- METALS & ALLOYS	Ni-base Alloy	Boron (B)	ASTM E 2594
5	CHEMICAL- METALS & ALLOYS	Co-base Alloy	Aluminium (Al)	QC(SCL)/IHDM/2 Issue Date: 01-03-2018 Issue No:1
6	CHEMICAL- METALS & ALLOYS	Co-base Alloy	Carbon (C)	QC(SCL)/IHDM/2 Issue Date: 01-03-2018 Issue No:1
7	CHEMICAL- METALS & ALLOYS	Co-base Alloy	Chromium (Cr)	QC(SCL)/IHDM/2 Issue Date: 01-03-2018 Issue No:1
8	CHEMICAL- METALS & ALLOYS	Co-base Alloy	Copper (Cu)	QC(SCL)/IHDM/2 Issue Date: 01-03-2018 Issue No:1
9	CHEMICAL- METALS & ALLOYS	Co-base Alloy	Iron (Fe)	QC(SCL)/IHDM/2 Issue Date: 01-03-2018 Issue No:1
10	CHEMICAL- METALS & ALLOYS	Co-base Alloy	Manganese (Mn)	QC(SCL)/IHDM/2 Issue Date: 01-03-2018 Issue No:1
11	CHEMICAL- METALS & ALLOYS	Co-base Alloy	Molybdenum (Mo)	QC(SCL)/IHDM/2 Issue Date: 01-03-2018 Issue No:1
12	CHEMICAL- METALS & ALLOYS	Co-base Alloy	Nickel (Ni)	QC(SCL)/IHDM/2 Issue Date: 01-03-2018 Issue No:1
13	CHEMICAL- METALS & ALLOYS	Co-base Alloy	Niobium (Nb)	QC(SCL)/IHDM/2 Issue Date: 01-03-2018 Issue No:1
14	CHEMICAL- METALS & ALLOYS	Co-base Alloy	Silicon (Si)	QC(SCL)/IHDM/2 Issue Date: 01-03-2018 Issue No:1
15	CHEMICAL- METALS & ALLOYS	Co-base Alloy	Tungsten (W)	QC(SCL)/IHDM/2 Issue Date: 01-03-2018 Issue No:1
16	CHEMICAL- METALS & ALLOYS	Co-base Alloy	Phosphorous (P)	QC(SCL)/IHDM/2 Issue Date: 01-03-2018 Issue No:1
17	CHEMICAL- METALS & ALLOYS	Fe, Co &Ni Alloys	Carbon (C)	ASTM E1019
18	CHEMICAL- METALS & ALLOYS	Fe, Co &Ni Alloys	Hydrogen (H)	QC(SCL)/IHDM/3 Issue Date: 01-03-2018 Issue No:1

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7139 **Page No** 2 of 11

Validity 16/03/2023 to 15/03/2025 **Last Amended on** -

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
19	CHEMICAL- METALS & ALLOYS	Fe, Co &Ni Alloys	Nitrogen (N)	ASTM E1019
20	CHEMICAL- METALS & ALLOYS	Fe, Co &Ni Alloys	Sulphur (S)	ASTM E1019
21	CHEMICAL- METALS & ALLOYS	Fe-base High Mn Steel	Carbon (C)	ASTM E2209
22	CHEMICAL- METALS & ALLOYS	Fe-base Alloy	Aluminum (Al)	QC(RMIC)/IHDM/1 Issue Date: 01-03-2018 Issue No:1
23	CHEMICAL- METALS & ALLOYS	Fe-base Alloy	Antimony(Sb)	QC(RMIC)/IHDM/2 Issue Date: 01-03-2018 Issue No:1
24	CHEMICAL- METALS & ALLOYS	Fe-base Alloy	Arsenic(As)	QC(RMIC)/IHDM/2 Issue Date: 01-03-2018 Issue No:1
25	CHEMICAL- METALS & ALLOYS	Fe-base Alloy	Bismuth(Bi)	QC(RMIC)/IHDM/2 Issue Date: 01-03-2018 Issue No:1
26	CHEMICAL- METALS & ALLOYS	Fe-base Alloy	Boron(B)	QC(RMIC)/IHDM/1 Issue Date: 01-03-2018 Issue No:1
27	CHEMICAL- METALS & ALLOYS	Fe-base Alloy	Calcium(Ca)	QC(RMIC)/IHDM/1 Issue Date: 01-03-2018 Issue No:1
28	CHEMICAL- METALS & ALLOYS	Fe-base Alloy	Calcium(Ca)	QC(RMIC)/IHDM/3 Issue Date: 01-03-2018 Issue No:1
29	CHEMICAL- METALS & ALLOYS	Fe-base Alloy	Cerium(Ce)	QC(RMIC)/IHDM/1 Issue Date: 01-03-2018 Issue No:1
30	CHEMICAL- METALS & ALLOYS	Fe-base Alloy	Chromium(Cr)	QC(RMIC)/IHDM/1 Issue Date: 01-03-2018 Issue No:1
31	CHEMICAL- METALS & ALLOYS	Fe-base Alloy	Cobalt(Co)	QC(RMIC)/IHDM/3 Issue Date: 01-03-2018 Issue No:1
32	CHEMICAL- METALS & ALLOYS	Fe-base Alloy	Copper(Cu)	QC(RMIC)/IHDM/1 Issue Date: 01-03-2018 Issue No:1
33	CHEMICAL- METALS & ALLOYS	Fe-base Alloy	Copper(Cu)	QC(RMIC)/IHDM/3 Issue Date: 01-03-2018 Issue No:1
34	CHEMICAL- METALS & ALLOYS	Fe-base Alloy	Lead(Pb)	QC(RMIC)/IHDM/2 Issue Date: 01-03-2018 Issue No:1
35	CHEMICAL- METALS & ALLOYS	Fe-base Alloy	Magnesium(Mg)	QC(RMIC)/IHDM/1 Issue Date: 01-03-2018 Issue No:1
36	CHEMICAL- METALS & ALLOYS	Fe-base Alloy	Magnesium(Mg)	QC(RMIC)/IHDM/3 Issue Date: 01-03-2018 Issue No:1
37	CHEMICAL- METALS & ALLOYS	Fe-base Alloy	Manganese(Mn)	QC(RMIC)/IHDM/1 Issue Date: 01-03-2018 Issue No:1

SCOPE OF ACCREDITATION

Laboratory Name : QUALITY CONTROL LABORATORY OF MIDHANI, MISHRA DHATU NIGAM LIMITED, A GOVT. OF INDIA ENTERPRISE, A MINI RATNA COMPANY, P.O. KANCHANBAGH, HYDERABAD, TELANGANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7139 **Page No** 3 of 11

Validity 16/03/2023 to 15/03/2025 **Last Amended on** -

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
38	CHEMICAL- METALS & ALLOYS	Fe-base Alloy	Molybdenum(Mo)	QC(RMIC)/IHDM/1 Issue Date: 01-03-2018 Issue No:1
39	CHEMICAL- METALS & ALLOYS	Fe-base Alloy	Nickel(Ni)	QC(RMIC)/IHDM/1 Issue Date: 01-03-2018 Issue No:1
40	CHEMICAL- METALS & ALLOYS	Fe-base Alloy	Nickel(Ni)	QC(RMIC)/IHDM/3 Issue Date: 01-03-2018 Issue No:1
41	CHEMICAL- METALS & ALLOYS	Fe-base Alloy	Niobium(Nb)	QC(RMIC)/IHDM/1 Issue Date: 01-03-2018 Issue No:1
42	CHEMICAL- METALS & ALLOYS	Fe-base Alloy	Phosphorous(P)	QC(RMIC)/IHDM/1 Issue Date: 01-03-2018 Issue No:1
43	CHEMICAL- METALS & ALLOYS	Fe-base Alloy	Silicon(Si)	QC(RMIC)/IHDM/1 Issue Date: 01-03-2018 Issue No:1
44	CHEMICAL- METALS & ALLOYS	Fe-base Alloy	Silver(Ag)	QC(RMIC)/IHDM/3 Issue Date: 01-03-2018 Issue No:1
45	CHEMICAL- METALS & ALLOYS	Fe-base Alloy	Tantalum(Ta)	QC(RMIC)/IHDM/1 Issue Date: 01-03-2018 Issue No:1
46	CHEMICAL- METALS & ALLOYS	Fe-base Alloy	Tin(Sn)	QC(RMIC)/IHDM/2 Issue Date: 01-03-2018 Issue No:1
47	CHEMICAL- METALS & ALLOYS	Fe-base Alloy	Titanium(Ti)	QC(RMIC)/IHDM/1 Issue Date: 01-03-2018 Issue No:1
48	CHEMICAL- METALS & ALLOYS	Fe-base Alloy	Tungsten(W)	QC(RMIC)/IHDM/1 Issue Date: 01-03-2018 Issue No:1
49	CHEMICAL- METALS & ALLOYS	Fe-base Alloy	Vanadium(V)	QC(RMIC)/IHDM/1 Issue Date: 01-03-2018 Issue No:1
50	CHEMICAL- METALS & ALLOYS	Fe-base Alloy	Zinc(Zn)	QC(RMIC)/IHDM/3 Issue Date: 01-03-2018 Issue No:1
51	CHEMICAL- METALS & ALLOYS	Fe-base Alloy	Zirconium(Zr)	QC(RMIC)/IHDM/1 Issue Date: 01-03-2018 Issue No:1
52	CHEMICAL- METALS & ALLOYS	Fe-base Alloy	Cobalt(Co)	QC(RMIC)/IHDM/1 Issue Date: 01-03-2018 Issue No:1
53	CHEMICAL- METALS & ALLOYS	Fe-base High Mn Steel	Aluminium (Al)	ASTM E2209
54	CHEMICAL- METALS & ALLOYS	Fe-base High Mn Steel	Manganese (Mn)	ASTM E2209
55	CHEMICAL- METALS & ALLOYS	Fe-base High Mn Steel	Molybdenum (Mo)	ASTM E2209
56	CHEMICAL- METALS & ALLOYS	Fe-base High Mn Steel	Nickel (Ni)	ASTM E2209

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7139 **Page No** 4 of 11

Validity 16/03/2023 to 15/03/2025 **Last Amended on** -

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57	CHEMICAL- METALS & ALLOYS	Fe-base High Mn Steel	Phosphorous (P)	ASTM E2209
58	CHEMICAL- METALS & ALLOYS	Fe-base High Mn Steel	Silicon (Si)	ASTM E2209
59	CHEMICAL- METALS & ALLOYS	Fe-base Low Alloy Steel	Carbon(C)	ASTM E415
60	CHEMICAL- METALS & ALLOYS	Fe-base Low Alloy Steel	Sulphur (S)	ASTM E415
61	CHEMICAL- METALS & ALLOYS	Fe-base Low Alloy Steel	Aluminium (Al)	ASTM E415
62	CHEMICAL- METALS & ALLOYS	Fe-base Low Alloy Steel	Arsenic (As)	ASTM E415
63	CHEMICAL- METALS & ALLOYS	Fe-base Low Alloy Steel	Boron (B)	ASTM E415
64	CHEMICAL- METALS & ALLOYS	Fe-base Low Alloy Steel	Chromium (Cr)	ASTM E415
65	CHEMICAL- METALS & ALLOYS	Fe-base Low Alloy Steel	Cobalt (Co)	ASTM E415
66	CHEMICAL- METALS & ALLOYS	Fe-base Low Alloy Steel	Copper (Cu)	ASTM E415
67	CHEMICAL- METALS & ALLOYS	Fe-base Low Alloy Steel	Manganese (Mn)	ASTM E415
68	CHEMICAL- METALS & ALLOYS	Fe-base Low Alloy Steel	Molybdenum (Mo)	ASTM E415
69	CHEMICAL- METALS & ALLOYS	Fe-base Low Alloy Steel	Nickel (Ni)	ASTM E415
70	CHEMICAL- METALS & ALLOYS	Fe-base Low Alloy Steel	Niobium (Nb)	ASTM E415
71	CHEMICAL- METALS & ALLOYS	Fe-base Low Alloy Steel	Phosphorous (P)	ASTM E415
72	CHEMICAL- METALS & ALLOYS	Fe-base Low Alloy Steel	Silicon (Si)	ASTM E415
73	CHEMICAL- METALS & ALLOYS	Fe-base Low Alloy Steel	Tin (Sn)	ASTM E415
74	CHEMICAL- METALS & ALLOYS	Fe-base Low Alloy Steel	Titanium (Ti)	ASTM E415
75	CHEMICAL- METALS & ALLOYS	Fe-base Low Alloy Steel	Tungsten (W)	ASTM E415

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Laboratory Name : QUALITY CONTROL LABORATORY OF MIDHANI, MISHRA DHATU NIGAM LIMITED, A GOVT. OF INDIA ENTERPRISE, A MINI RATNA COMPANY, P.O. KANCHANBAGH, HYDERABAD, TELANGANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7139 **Page No** 5 of 11

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
76	CHEMICAL- METALS & ALLOYS	Fe-base Low Alloy Steel	Vanadium (V)	ASTM E415
77	CHEMICAL- METALS & ALLOYS	Fe-base Stainless Steel, Ferrite Steels, Maraging Steels & Tool Steels	Aluminium (Al)	QC(SCL)/IHDM/1 Issue Date: 01-03-2018 Issue No:1
78	CHEMICAL- METALS & ALLOYS	Fe-base Stainless Steel, Ferrite Steels, Maraging Steels & Tool Steels	Arsenic (As)	QC(SCL)/IHDM/1 Issue Date: 01-03-2018 Issue No:1
79	CHEMICAL- METALS & ALLOYS	Fe-base Stainless Steel, Ferrite Steels, Maraging Steels & Tool Steels	Boron (B)	QC(SCL)/IHDM/1 Issue Date: 01-03-2018 Issue No:1
80	CHEMICAL- METALS & ALLOYS	Fe-base Stainless Steel, Ferrite Steels, Maraging Steels & Tool Steels	Carbon (C)	QC(SCL)/IHDM/1 Issue Date: 01-03-2018 Issue No:1
81	CHEMICAL- METALS & ALLOYS	Fe-base Stainless Steel, Ferrite Steels, Maraging Steels & Tool Steels	Chromium (Cr)	QC(SCL)/IHDM/1 Issue Date: 01-03-2018 Issue No:1
82	CHEMICAL- METALS & ALLOYS	Fe-base Stainless Steel, Ferrite Steels, Maraging Steels & Tool Steels	Cobalt (Co)	QC(SCL)/IHDM/1 Issue Date: 01-03-2018 Issue No:1
83	CHEMICAL- METALS & ALLOYS	Fe-base Stainless Steel, Ferrite Steels, Maraging Steels & Tool Steels	Copper (Cu)	QC(SCL)/IHDM/1 Issue Date: 01-03-2018 Issue No:1
84	CHEMICAL- METALS & ALLOYS	Fe-base Stainless Steel, Ferrite Steels, Maraging Steels & Tool Steels	Lead (Pb)	QC(SCL)/IHDM/1 Issue Date: 01-03-2018 Issue No:1
85	CHEMICAL- METALS & ALLOYS	Fe-base Stainless Steel, Ferrite Steels, Maraging Steels & Tool Steels	Manganese (Mn)	QC(SCL)/IHDM/1 Issue Date: 01-03-2018 Issue No:1
86	CHEMICAL- METALS & ALLOYS	Fe-base Stainless Steel, Ferrite Steels, Maraging Steels & Tool Steels	Molybdenum (Mo)	QC(SCL)/IHDM/1 Issue Date: 01-03-2018 Issue No:1
87	CHEMICAL- METALS & ALLOYS	Fe-base Stainless Steel, Ferrite Steels, Maraging Steels & Tool Steels	Nickel (Ni)	QC(SCL)/IHDM/1 Issue Date: 01-03-2018 Issue No:1
88	CHEMICAL- METALS & ALLOYS	Fe-base Stainless Steel, Ferrite Steels, Maraging Steels & Tool Steels	Niobium (Nb)	QC(SCL)/IHDM/1 Issue Date: 01-03-2018 Issue No:1
89	CHEMICAL- METALS & ALLOYS	Fe-base Stainless Steel, Ferrite Steels, Maraging Steels & Tool Steels	Phosphorous (P)	QC(SCL)/IHDM/1 Issue Date: 01-03-2018 Issue No:1
90	CHEMICAL- METALS & ALLOYS	Fe-base Stainless Steel, Ferrite Steels, Maraging Steels & Tool Steels	Silicon (Si)	QC(SCL)/IHDM/1 Issue Date: 01-03-2018 Issue No:1
91	CHEMICAL- METALS & ALLOYS	Fe-base Stainless Steel, Ferrite Steels, Maraging Steels & Tool Steels	Sulphur (S)	QC(SCL)/IHDM/1 Issue Date: 01-03-2018 Issue No:1
92	CHEMICAL- METALS & ALLOYS	Fe-base Stainless Steel, Ferrite Steels, Maraging Steels & Tool Steels	Tin (Sn)	QC(SCL)/IHDM/1 Issue Date: 01-03-2018 Issue No:1
93	CHEMICAL- METALS & ALLOYS	Fe-base Stainless Steel, Ferrite Steels, Maraging Steels & Tool Steels	Titanium (Ti)	QC(SCL)/IHDM/1 Issue Date: 01-03-2018 Issue No:1
94	CHEMICAL- METALS & ALLOYS	Fe-base Stainless Steel, Ferrite Steels, Maraging Steels & Tool Steels	Tungsten (W)	QC(SCL)/IHDM/1 Issue Date: 01-03-2018 Issue No:1

SCOPE OF ACCREDITATION

Laboratory Name : QUALITY CONTROL LABORATORY OF MIDHANI, MISHRA DHATU NIGAM LIMITED, A GOVT. OF INDIA ENTERPRISE, A MINI RATNA COMPANY, P.O. KANCHANBAGH, HYDERABAD, TELANGANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7139 **Page No** 6 of 11

Validity 16/03/2023 to 15/03/2025 **Last Amended on** -

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
95	CHEMICAL- METALS & ALLOYS	Fe-base Stainless Steel, Ferrite Steels, Maraging Steels & Tool Steels	Vanadium (V)	QC(SCL)/IHDM/1 Issue Date: 01-03-2018 Issue No:1
96	CHEMICAL- METALS & ALLOYS	Fe-Cr	Chromium (Cr)	IS 1559
97	CHEMICAL- METALS & ALLOYS	Fe-Si	Silicon (Si)	IS 1559
98	CHEMICAL- METALS & ALLOYS	Fe-V	Vanadium (V)	IS 1559
99	CHEMICAL- METALS & ALLOYS	Ferro Silicon	Aluminum	QC(SCL)/IHDM/XRF
100	CHEMICAL- METALS & ALLOYS	Ferro Silicon	Manganese	QC(SCL)/IHDM/XRF
101	CHEMICAL- METALS & ALLOYS	Ferro Silicon	Silicon	QC(SCL)/IHDM/XRF
102	CHEMICAL- METALS & ALLOYS	Ni-base Alloy	Arsenic (As)	QC(RMIC)/IHDM/2 Issue Date: 01-03-2018 Issue No:1
103	CHEMICAL- METALS & ALLOYS	Ni-base Alloy	Bismuth (Bi)	ASTM E1834
104	CHEMICAL- METALS & ALLOYS	Ni-base Alloy	Chromium (Cr)	ASTM E 2594
105	CHEMICAL- METALS & ALLOYS	Ni-base Alloy	Cobalt (Co)	ASTM E 2594
106	CHEMICAL- METALS & ALLOYS	Ni-base Alloy	Copper (Cu)	ASTM E 1835-14
107	CHEMICAL- METALS & ALLOYS	Ni-base Alloy	Copper (Cu)	ASTM E 2594
108	CHEMICAL- METALS & ALLOYS	Ni-base Alloy	Iron (Fe)	ASTM E 2594
109	CHEMICAL- METALS & ALLOYS	Ni-base Alloy	Molybdenum (Mo)	ASTM E 2594
110	CHEMICAL- METALS & ALLOYS	Ni-base Alloy	Selenium (Se)	ASTM E 1834
111	CHEMICAL- METALS & ALLOYS	Ni-base Alloy	Titanium (Ti)	ASTM E 2594
112	CHEMICAL- METALS & ALLOYS	Ni-base Alloy	Tungsten (W)	ASTM E 2594
113	CHEMICAL- METALS & ALLOYS	Ni-base Alloy	Vanadium (V)	ASTM E 2594

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7139 **Page No** 7 of 11

Validity 16/03/2023 to 15/03/2025 **Last Amended on** -

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114	CHEMICAL- METALS & ALLOYS	Ni-base Alloy	Zirconium (Zr)	ASTM E 2594
115	CHEMICAL- METALS & ALLOYS	Ni-base Alloy	Niobium (Nb)	ASTM E 2594
116	CHEMICAL- METALS & ALLOYS	Ni-base Alloys	Carbon (C)	ASTM E3047
117	CHEMICAL- METALS & ALLOYS	Ni-base Alloy	Antimony (Sb)	QC(RMIC)/IHDM/2 Issue Date: 01-03-2018 Issue No:1
118	CHEMICAL- METALS & ALLOYS	Ni-base Alloy	Calcium (Ca)	ASTM E 2594
119	CHEMICAL- METALS & ALLOYS	Ni-base Alloy	Chromium (Cr)	ASTM E 1835-14
120	CHEMICAL- METALS & ALLOYS	Ni-base Alloy	Cobalt (Co)	ASTM E 1835-14
121	CHEMICAL- METALS & ALLOYS	Ni-base Alloy	Magnesium (Mg)	ASTM E 2594
122	CHEMICAL- METALS & ALLOYS	Ni-base Alloy	Phosphorous (P)	ASTM E 2594
123	CHEMICAL- METALS & ALLOYS	Ni-base Alloy	Tantalum (Ta)	ASTM E 2594
124	CHEMICAL- METALS & ALLOYS	Ni-base Alloy	Tin (Sn)	QC(RMIC)/IHDM/2 Issue Date: 01-03-2018 Issue No:1
125	CHEMICAL- METALS & ALLOYS	Ni-base Alloy	Lead (Pb)	ASTM E1834
126	CHEMICAL- METALS & ALLOYS	Ni-base Alloy	Manganese (Mn)	ASTM E 2594
127	CHEMICAL- METALS & ALLOYS	Ni-base Alloys	Aluminium (Al)	ASTM E 3047
128	CHEMICAL- METALS & ALLOYS	Ni-base Alloys	Boron (B)	ASTM E 3047
129	CHEMICAL- METALS & ALLOYS	Ni-base Alloys	Chromium (Cr)	ASTM E 3047
130	CHEMICAL- METALS & ALLOYS	Ni-base Alloys	Cobalt (Co)	ASTM E 3047
131	CHEMICAL- METALS & ALLOYS	Ni-base Alloys	Copper (Cu)	ASTM E 3047
132	CHEMICAL- METALS & ALLOYS	Ni-base Alloys	Iron (Fe)	ASTM E 3047

SCOPE OF ACCREDITATION

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Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-7139
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133	CHEMICAL- METALS & ALLOYS	Ni-base Alloys	Magnesium (Mg)	ASTM E 3047
134	CHEMICAL- METALS & ALLOYS	Ni-base Alloys	Manganese (Mn)	ASTM E 3047
135	CHEMICAL- METALS & ALLOYS	Ni-base Alloys	Molybdenum (Mo)	ASTM E 3047
136	CHEMICAL- METALS & ALLOYS	Ni-base Alloys	Niobium (Nb)	ASTM E 3047
137	CHEMICAL- METALS & ALLOYS	Ni-base Alloys	Phosphorous (P)	ASTM E 3047
138	CHEMICAL- METALS & ALLOYS	Ni-base Alloys	Silicon (Si)	ASTM E 2594
139	CHEMICAL- METALS & ALLOYS	Ni-base Alloys	Silicon (Si)	ASTM E 3047
140	CHEMICAL- METALS & ALLOYS	Ni-base Alloys	Tantalum (Ta)	ASTM E 3047
141	CHEMICAL- METALS & ALLOYS	Ni-base Alloys	Titanium (Ti)	ASTM E 3047
142	CHEMICAL- METALS & ALLOYS	Ni-base Alloys	Tungsten (W)	ASTM E 3047
143	CHEMICAL- METALS & ALLOYS	Ni-base Alloys	Vanadium (V)	ASTM E 3047
144	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Aluminium (Al)	ASTM E 2371
145	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Aluminium (Al)	ASTM E 2994
146	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Carbon (C)	ASTM E 2994
147	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Carbon (C)	QC(SCL)/IHDM/4 Issue Date: 01-03-2018 Issue No:1
148	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Chromium (Cr)	ASTM E 2994
149	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Copper (Cu)	ASTM E 2994
150	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Hydrogen (H)	ASTM E1447-09
151	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Iron (Fe)	ASTM E 2371

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7139 **Page No** 9 of 11

Validity 16/03/2023 to 15/03/2025 **Last Amended on** -

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152	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Iron (Fe)	ASTM E 2994
153	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Manganese (Mn)	ASTM E 2371
154	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Manganese (Mn)	ASTM E 2994
155	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Molybdenum (Mo)	ASTM E 2994
156	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Nickel (Ni)	ASTM E 2371
157	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Nickel (Ni)	ASTM E 2994
158	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Nitrogen (N)	ASTM E1409
159	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Oxygen (O)	ASTM E1409
160	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Silicon (Si)	ASTM E 2994
161	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Tin (Sn)	ASTM E 2994
162	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Tungsten (W)	ASTM E 2371
163	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Tungsten (W)	ASTM E 2994
164	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Vanadium (V)	ASTM E 2371
165	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Vanadium (V)	ASTM E 2994
166	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Yttrium (Y)	ASTM E 2371
167	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	BRINELL HARDNESS TEST (10/3000)	ASTM E 10
168	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	FRACTURE TOUGHNESS TEST AT RT	ASTM E 399
169	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	IMPACT TEST AT RT (CHARPY V NOTCH)	ASTM E 23

SCOPE OF ACCREDITATION

Laboratory Name : QUALITY CONTROL LABORATORY OF MIDHANI, MISHRA DHATU NIGAM LIMITED, A GOVT. OF INDIA ENTERPRISE, A MINI RATNA COMPANY, P.O. KANCHANBAGH, HYDERABAD, TELANGANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7139 **Page No** 10 of 11

Validity 16/03/2023 to 15/03/2025 **Last Amended on** -

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
170	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	ROCKWELL 'B' SCALE HARDNESS TEST	ASTM E 18
171	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	ROCKWELL 'C' SCALE HARDNESS TEST	ASTM E 18
172	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	TENSILE TEST AT RT (YS)	ASTM E8/E8M
173	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	TENSILE TEST AT RT (%EL)	ASTM E8/E8M
174	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	TENSILE TEST AT RT (%RA)	ASTM E8/E8M
175	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	TENSILE TEST AT RT (UTS)	ASTM E8/E8M
176	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	VICKERS HARDNESS TEST (HV30)	ASTM E 92
177	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	BRINELL HARDNESS TEST (10/3000)	ASTM E 10
178	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	FRACTURE TOUGHNESS TEST AT RT	ASTM E 399
179	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	IMPACT TEST AT RT (CHARPY V NOTCH)	ASTM E 23
180	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	ROCKWELL 'B' SCALE HARDNESS TEST	ASTM E 18
181	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	ROCKWELL 'C' SCALE HARDNESS TEST	ASTM E 18
182	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	TENSILE TEST AT RT (YS)	ASTM E8/E8M
183	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	TENSILE TEST AT RT (%EL)	ASTM E8/E8M

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
184	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	TENSILE TEST AT RT (%RA)	ASTM E8/E8M
185	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	TENSILE TEST AT RT (UTS)	ASTM E8/E8M
186	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non-Ferrous metals, alloys & products	VICKERS HARDNESS TEST (HV30)	ASTM E 92
187	MECHANICAL-METALLOGRAPHY TEST	Austenitic Stainless Steels	IGC Practice A	ASTM A 262-15
188	MECHANICAL-METALLOGRAPHY TEST	Stainless Steels	Delta Ferrite measurement by ferritoscope	ASTM A 800/A 800M
189	MECHANICAL-METALLOGRAPHY TEST	Steels	Decarburization	ASTM E1077-14
190	MECHANICAL-METALLOGRAPHY TEST	Steels	Macro Etch Testing	ASTM A604-07
191	MECHANICAL-METALLOGRAPHY TEST	Steels	Macro Etch Testing	ASTM E381
192	MECHANICAL-METALLOGRAPHY TEST	Steels and Super Alloys	Grain Size(Comparison method)	ASTM E112-13
193	MECHANICAL-METALLOGRAPHY TEST	Steels and Super alloys	Microstructure examination	ASM Handbook vol.9
194	MECHANICAL-METALLOGRAPHY TEST	Steels and super alloys	Non Metallic Inclusion Rating(Method A and D)	ASTM E45
195	MECHANICAL-METALLOGRAPHY TEST	Titanium alloys	Microstructure examination	AMS 2380 G
196	MECHANICAL-METALLOGRAPHY TEST	Titanium alloys	Microstructure examination	ASM Handbook vol.9