National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)

SCOPE OF ACCREDITATION

Laboratory Name	TESTING LABORATORY SAARLOHA ADVANCED MATERIALS PVT. LTD., MUNDHWA, PUNE, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2005		
Certificate Number	TC-5130	Page No. :	1 / 19
Validity	01/03/2019 to 28/02/2021	Last Amended on	-

'In view of the transition deadline for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020.'

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
Permanent Facility					
1	CHEMICAL- METALS & ALLOYS	Carbon Steel	Al	IS 8811 (RA 2012): 1998	0.005 % to 0.050 %
2	CHEMICAL- METALS & ALLOYS	Carbon Steel	Al	ASTM E 415: 2017	0.005 % to 0.050 %
3	CHEMICAL- METALS & ALLOYS	Carbon Steel	As	IS 8811 (RA 2012): 1998	0.0020 % to 0.0150 %
4	CHEMICAL- METALS & ALLOYS	Carbon Steel	As	ASTM E 415: 2017	0.0020 % to 0.0150 %
5	CHEMICAL- METALS & ALLOYS	Carbon Steel	B	IS 8811 (RA 2012): 1998	0.0001 % to 0.0010 %
6	CHEMICAL- METALS & ALLOYS	Carbon Steel	B	ASTM E 415: 2017	0.0001 % to 0.0010 %
7	CHEMICAL- METALS & ALLOYS	Carbon Steel	C	IS 8811 (RA 2012): 1998	0.01 % to 1.10 %
8	CHEMICAL- METALS & ALLOYS	Carbon Steel	C	ASTM E 415: 2017	0.01 % to 1.10 %
9	CHEMICAL- METALS & ALLOYS	Carbon Steel	Ca	IS 8811 (RA 2012): 1998	0.0005 % to 0.0050 %
10	CHEMICAL- METALS & ALLOYS	Carbon Steel	Ca	ASTM E 415: 2017	0.0005 % to 0.0050 %
11	CHEMICAL- METALS & ALLOYS	Carbon Steel	Carbon	ASTM E 1019: 2018	0.01 % to 3.50 %
12	CHEMICAL- METALS & ALLOYS	Carbon Steel	Co	IS 8811 (RA 2012): 1998	0.005 % to 0.020 %
13	CHEMICAL- METALS & ALLOYS	Carbon Steel	Co	ASTM E 415: 2017	0.005 % to 0.020 %

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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
14	CHEMICAL- METALS & ALLOYS	Carbon Steel	Cr	IS 8811 (RA 2012): 1998	0.02 % to 0.50 %
15	CHEMICAL- METALS & ALLOYS	Carbon Steel	Cr	ASTM E 415: 2017	0.02 % to 0.50 %
16	CHEMICAL- METALS & ALLOYS	Carbon Steel	Cu	IS 8811 (RA 2012): 1998	0.02 % to 0.50 %
17	CHEMICAL- METALS & ALLOYS	Carbon Steel	Cu	ASTM E 415: 2017	0.02 % to 0.50 %
18	CHEMICAL- METALS & ALLOYS	Carbon Steel	Hydrogen	WI-CL-07 Issue. 01 June: 2018	0.0001 % to 0.0010 %
19	CHEMICAL- METALS & ALLOYS	Carbon Steel	Mn	IS 8811 (RA 2012): 1998	0.20 % to 2.00 %
20	CHEMICAL- METALS & ALLOYS	Carbon Steel	Mn	ASTM E 415: 2017	0.20 % to 2.00 %
21	CHEMICAL- METALS & ALLOYS	Carbon Steel	Mo	IS 8811 (RA 2012): 1998	0.005 % to 0.100 %
22	CHEMICAL- METALS & ALLOYS	Carbon Steel	Mo	ASTM E 415: 2017	0.005 % to 0.100 %
23	CHEMICAL- METALS & ALLOYS	Carbon Steel	N2	IS 8811 (RA 2012): 1998	0.0050 % to 0.0250 %
24	CHEMICAL- METALS & ALLOYS	Carbon Steel	N2	ASTM E 415: 2017	0.0050 % to 0.0250 %
25	CHEMICAL- METALS & ALLOYS	Carbon Steel	Nb	IS 8811 (RA 2012): 1998	0.0020 % to 0.0150 %
26	CHEMICAL- METALS & ALLOYS	Carbon Steel	Nb	ASTM E 415: 2017	0.0020 % to 0.0150 %
27	CHEMICAL- METALS & ALLOYS	Carbon Steel	Ni	IS 8811 (RA 2012): 1998	0.05 % to 0.50 %

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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
28	CHEMICAL- METALS & ALLOYS	Carbon Steel	Ni	ASTM E 415: 2017	0.05 % to 0.50 %
29	CHEMICAL- METALS & ALLOYS	Carbon Steel	Nitrogen	ASTM E 1019: 2018	0.0010 % to 0.5500 %
30	CHEMICAL- METALS & ALLOYS	Carbon Steel	Oxygen	ASTM E 1019: 2018	0.0003 % to 0.0300 %
31	CHEMICAL- METALS & ALLOYS	Carbon Steel	P	IS 8811 (RA 2012): 1998	0.003 % to 0.085 %
32	CHEMICAL- METALS & ALLOYS	Carbon Steel	P	ASTM E 415: 2018	0.003 % to 0.085 %
33	CHEMICAL- METALS & ALLOYS	Carbon Steel	S	IS 8811 (RA 2012): 1998	0.001 % to 0.055 %
34	CHEMICAL- METALS & ALLOYS	Carbon Steel	S	ASTM E 415: 2017	0.001 % to 0.055 %
35	CHEMICAL- METALS & ALLOYS	Carbon Steel	Si	IS 8811 (RA 2012): 1998	0.04 % to 2.50 %
36	CHEMICAL- METALS & ALLOYS	Carbon Steel	Si	ASTM E 415: 2017	0.04 % to 2.50 %
37	CHEMICAL- METALS & ALLOYS	Carbon Steel	Sn	IS 8811 (RA 2012): 1998	0.002 % to 0.050 %
38	CHEMICAL- METALS & ALLOYS	Carbon Steel	Sn	ASTM E 415: 2017	0.002 % to 0.050 %
39	CHEMICAL- METALS & ALLOYS	Carbon Steel	Sulphur	ASTM E 1019: 2018	0.005 % to 0.400 %
40	CHEMICAL- METALS & ALLOYS	Carbon Steel	Ti	IS 8811 (RA 2012): 1998	0.001 % to 0.020 %
41	CHEMICAL- METALS & ALLOYS	Carbon Steel	Ti	ASTM E 415: 2017	0.001 % to 0.020 %

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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
42	CHEMICAL- METALS & ALLOYS	Carbon Steel	V	IS 8811 (RA 2012): 1998	0.005 % to 0.050 %
43	CHEMICAL- METALS & ALLOYS	Carbon Steel	V	ASTM E 415: 2017	0.005 % to 0.050 %
44	CHEMICAL- METALS & ALLOYS	Carbon Steel	W	IS 8811 (RA 2012): 1998	0.005 % to 0.010 %
45	CHEMICAL- METALS & ALLOYS	Carbon Steel	W	ASTM E 415: 2017	0.005 % to 0.010 %
46	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	Al	IS 8811 (RA 2012): 1998	0.005 % to 1.50 %
47	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	Al	ASTM E 415: 2017	0.005 % to 1.50 %
48	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	As	IS 8811 (RA 2012): 1998	0.002 % to 0.15 %
49	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	As	ASTM E 415: 2017	0.002 % to 0.15 %
50	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	B	IS 8811 (RA 2012): 1998	0.0003 % to 0.0500 %
51	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	B	ASTM E 415: 2017	0.0003 % to 0.0500 %
52	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	C	IS 8811 (RA 2012): 1998	0.01 % to 1.10 %

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53	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	C	ASTM E 415: 2017	0.01 % to 1.10 %
54	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	Ca	IS 8811 (RA 2012): 1998	0.0005 % to 0.0050 %
55	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	Ca	ASTM E 415: 2017	0.0005 % to 0.0050 %
56	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	Carbon	ASTM E 1019: 2018	0.01 % to 3.50 %
57	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	Co	IS 8811 (RA 2012): 1998	0.005 % to 0.30 %
58	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	Co	ASTM E 415: 2017	0.005 % to 0.30 %
59	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	Cr	IS 8811 (RA 2012): 1998	0.02 % to 3.50 %
60	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	Cr	ASTM E 415: 2017	0.02 % to 3.50 %
61	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	Cu	IS 8811 (RA 2012): 1998	0.02 % to 0.50 %

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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
62	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	Cu	ASTM E 415: 2017	0.02 % to 0.50 %
63	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	Hydrogen	WI-CL-07 Issue. 01 June: 2018	0.0001 % to 0.0010 %
64	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	Mn	IS 8811 (RA 2012): 1998	0.20 % to 2.00 %
65	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	Mn	ASTM E 415: 2017	0.20 % to 2.00 %
66	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	Mo	IS 8811 (RA 2012): 1998	0.005 % to 1.00 %
67	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	Mo	ASTM E 415: 2017	0.005 % to 1.00 %
68	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	N2	IS 8811 (RA 2012): 1998	0.0050 % to 0.0250 %
69	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	N2	ASTM E 415: 2017	0.0050 % to 0.0250 %
70	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	Nb	IS 8811 (RA 2012): 1998	0.002 % to 0.40 %

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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
71	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	Nb	ASTM E 415: 2017	0.002 % to 0.40 %
72	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	Ni	IS 8811 (RA 2012): 1998	0.05 % to 5.00 %
73	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	Ni	ASTM E 415: 2017	0.05 % to 5.00 %
74	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	Nitrogen	ASTM E 1019: 2018	0.0010 % to 0.5500 %
75	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	Oxygen	ASTM E 1019: 2018	0.0003 % to 0.0300 %
76	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	P	IS 8811 (RA 2012): 1998	0.003 % to 0.085 %
77	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	P	ASTM E 415: 2017	0.003 % to 0.085 %
78	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	S	IS 8811 (RA 2012): 1998	0.001 % to 0.055 %
79	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	S	ASTM E 415: 2017	0.001 % to 0.055 %

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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
80	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	Si	IS 8811 (RA 2012): 1998	0.04 % to 3.20 %
81	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	Si	ASTM E 415: 2017	0.04 % to 3.20 %
82	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	Sn	IS 8811 (RA 2012): 1998	0.002 % to 0.10 %
83	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	Sn	ASTM E 415: 2017	0.002 % to 0.10 %
84	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	Sulphur	ASTM E 1019: 2018	0.005 % to 0.400 %
85	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	Ti	IS 8811 (RA 2012): 1998	0.001 % to 0.200 %
86	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	Ti	ASTM E 415: 2017	0.001 % to 0.20 %
87	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	V	IS 8811 (RA 2012): 1998	0.005 % to 2.00 %
88	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	V	ASTM E 415: 2017	0.005 % to 2.00 %

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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
89	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	W	IS 8811 (RA 2012): 1998	0.005 % to 2.00 %
90	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Total alloying elements < 8 %)	W	ASTM E 415: 2017	0.005 % to 2.00 %
91	CHEMICAL- METALS & ALLOYS	Stainless Steel	Al	IS 9879: 1998	0.005 % to 0.10 %
92	CHEMICAL- METALS & ALLOYS	Stainless Steel	Al	ASTM E 1086: 2014	0.005 % to 0.10 %
93	CHEMICAL- METALS & ALLOYS	Stainless Steel	As	IS 9879 (RA 2012): 1998	0.002 % to 0.15 %
94	CHEMICAL- METALS & ALLOYS	Stainless Steel	As	ASTM E 1086: 2014	0.002 % to 0.15 %
95	CHEMICAL- METALS & ALLOYS	Stainless Steel	B	IS 9879 (RA 2012): 1998	0.0003 % to 0.0500 %
96	CHEMICAL- METALS & ALLOYS	Stainless Steel	B	ASTM E 1086: 2014	0.0003 % to 0.0500 %
97	CHEMICAL- METALS & ALLOYS	Stainless Steel	C	IS 9879: 1998	0.02 % to 0.60 %
98	CHEMICAL- METALS & ALLOYS	Stainless Steel	C	ASTM E 1086: 2014	0.02 % to 0.60 %
99	CHEMICAL- METALS & ALLOYS	Stainless Steel	Ca	IS 9879: 1998	0.0005 % to 0.0050 %
100	CHEMICAL- METALS & ALLOYS	Stainless Steel	Ca	ASTM E 1086: 2014	0.0005 % to 0.0050 %
101	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E 1019: 2018	0.01 % to 3.50 %

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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
102	CHEMICAL- METALS & ALLOYS	Stainless Steel	Co	IS 9879: 1998	0.005 % to 0.350 %
103	CHEMICAL- METALS & ALLOYS	Stainless Steel	Co	ASTM E 1086: 2014	0.005 % to 0.350 %
104	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cr	IS 9879 (RA 2015): 1998	5.00 % to 30.00 %
105	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cr	ASTM E 1086: 2014	5.00 % to 30.00 %
106	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cu	IS 9879 (RA 2015): 1998	0.01 % to 4.50 %
107	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cu	ASTM E 1086: 2014	0.01 % to 4.50 %
108	CHEMICAL- METALS & ALLOYS	Stainless Steel	Hydrogen	WI-CL-07 Issue. 01 June: 2018	0.0001 % to 0.0010 %
109	CHEMICAL- METALS & ALLOYS	Stainless Steel	Mn	IS 9879: 1998	0.20 % to 15.00 %
110	CHEMICAL- METALS & ALLOYS	Stainless Steel	Mn	ASTM E 1086: 2014	0.20 % to 15.00 %
111	CHEMICAL- METALS & ALLOYS	Stainless Steel	Mo	IS 9879: 1998	0.01 % to 5.00 %
112	CHEMICAL- METALS & ALLOYS	Stainless Steel	Mo	ASTM E 1086: 2014	0.01 % to 5.00 %
113	CHEMICAL- METALS & ALLOYS	Stainless Steel	N2	IS 9879 (RA 2015): 1998	0.0020 % to 0.5000 %
114	CHEMICAL- METALS & ALLOYS	Stainless Steel	N2	ASTM E 1086: 2014	0.0020 % to 0.5000 %
115	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nb	IS 9879: 1998	0.002 % to 1.00 %

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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
116	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nb	ASTM E 1086: 2014	0.002 % to 1.00 %
117	CHEMICAL- METALS & ALLOYS	Stainless Steel	Ni	IS 9879 (RA 2015): 1998	0.20 % to 35.00 %
118	CHEMICAL- METALS & ALLOYS	Stainless Steel	Ni	ASTM E 1086: 2014	0.20 % to 35.00 %
119	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nitrogen	ASTM E 1019: 2018	0.0010 % to 0.5500 %
120	CHEMICAL- METALS & ALLOYS	Stainless Steel	Oxygen	ASTM E 1019: 2018	0.0003 % to 0.0300 %
121	CHEMICAL- METALS & ALLOYS	Stainless Steel	P	IS 9879: 1998	0.003 % to 0.10 %
122	CHEMICAL- METALS & ALLOYS	Stainless Steel	P	ASTM E 1086: 2014	0.003 % to 0.100 %
123	CHEMICAL- METALS & ALLOYS	Stainless Steel	S	IS 9879 (RA 2015): 1998	0.003 % to 0.065 %
124	CHEMICAL- METALS & ALLOYS	Stainless Steel	S	ASTM E 1086: 2014	0.003 % to 0.065 %
125	CHEMICAL- METALS & ALLOYS	Stainless Steel	Si	IS 9879 (RA 2015): 1998	0.04 % to 4.00 %
126	CHEMICAL- METALS & ALLOYS	Stainless Steel	Si	ASTM E 1086: 2014	0.04 % to 4.00 %
127	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sn	IS 9879 (RA 2015): 1998	0.002 % to 0.10 %
128	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sn	ASTM E 1086: 2014	0.002 % to 0.100 %
129	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM E 1019: 2018	0.005 % to 0.400 %

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130	CHEMICAL- METALS & ALLOYS	Stainless Steel	Ti	IS 9879 (RA 2015): 1998	0.001 % to 1.20 %
131	CHEMICAL- METALS & ALLOYS	Stainless Steel	Ti	ASTM E 1086: 2014	0.001 % to 1.20 %
132	CHEMICAL- METALS & ALLOYS	Stainless Steel	V	IS 9879: 1998	0.005 % to 2.00 %
133	CHEMICAL- METALS & ALLOYS	Stainless Steel	V	ASTM E 1086: 2014	0.005 % to 2.00 %
134	CHEMICAL- METALS & ALLOYS	Stainless Steel	W	IS 9879 (RA 2015): 1998	0.005 to 2.00
135	CHEMICAL- METALS & ALLOYS	Stainless Steel	W	ASTM E 1086: 2014	0.005 % to 2.00 %
136	CHEMICAL- METALS & ALLOYS	Titanium & Titanium Alloys	Hydrogen	ASTM E 1447: 2016	0.0016 % to 0.0250 %
137	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	%Elongation	IS 1608 (Part 1): 2018	10 % to 50 %
138	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	%Elongation	ISO 6892 Part-I: 2016	10 % to 50 %
139	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	%Elongation	JIS Z2241: 2011	10 % to 50 %

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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
140	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	%Elongation	ASTM E8/E8M: 2016	10 % to 50 %
141	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	%Reduction Area	ASTM E8: 2016	20 % to 80 %
142	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	%Reduction Area	ISO 6892 Part-I: 2016	20 % to 80 %
143	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	%Reduction Area	IS 1608 (Part 1): 2018	20 % to 80 %
144	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	%Reduction Area	JIS Z2241: 2011	20 % to 80 %
145	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness (3000Kg/10mm ball)	IS 1500-1: 2013	130 HBW to 350 HBW
146	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness (3000Kg/10mm ball)	ASTM E10: 2017	130 HBW to 350 HBW

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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
147	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness (3000Kg/10mm ball)	ISO 6506-Part-1: 2014	130 HBW to 350 HBW
148	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness (3000Kg/10mm ball)	JIS Z2243: 2008	130 HBW to 350 HBW
149	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy Impact	ISO 148 Part-1: 2016	15 J to 150 J, (35 to temp. upto -45°C, KV2)
150	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardenability	JIS G0561: 2011	20 HRc to 70 HRc
151	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardenability	ASTM A255: 2014	20 HRc to 70 HRc
152	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardenability	ISO 642: 2000	20 HRc to 70 HRc
153	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hardenability	IS 3848 (RA 2014): 1981	20 HRc to 70 HRc

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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
154	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Impact @ room temp. & sub-zero temp. upto -45°C	IS 1499 (RA 2015): 1977	15 J to 150 J
155	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Impact @ room temp. & sub-zero temp. upto -45°C	JIS Z2242: 2005	15 J to 150 J
156	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Impact @ room temp. & sub-zero temp. upto -45°C	IS 1757-1: 2014	15 J to 150 J
157	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Izod @ room temp.	IS 1598 (RA 2015): 1977	15 J to 150 J
158	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness	ASTM E18: 2017	20 HRc to 70 HRc
159	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness	EN ISO 6508-1: 2016	20 HRc to 70 HRc
160	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness	IS 1586 (RA 2010): 2000	20 HRc to 70 HRc

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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
161	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness	JIS Z2245-1: 2018	20 HRc to 70 HRc
162	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Strength	ASTM E8/E8M: 2016	30 KN to 250 KN
163	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Strength	IS 1608: 2005	30 KN to 250 KN
164	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Strength	ISO 6892 Part-1: 2016	30 KN to 250 KN
165	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Strength	JIS Z2241: 2011	30 KN to 250 KN
166	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Strength / Proof Strength (0.2% - 0.6%)	IS 1608 (Part 1): 2018	30 KN to 250 KN
167	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Strength / Proof Strength (0.2% - 0.6%)	ISO 6892 Part-1: 2016	30 KN to 250 KN

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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
168	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Strength / Proof Strength (0.2% - 0.6%)	ASTM E8/E8M: 2016	30 KN to 250 KN
169	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Strength / Proof Strength (0.2% - 0.6%)	JIS Z2241: 2011	30 KN to 250 KN
170	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Decarburization (microscopic method)	SAE J419: 1983	0.10 mm to 0.80 mm
171	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Decarburization (microscopic method)	IS 6396: 2000	0.10 mm to 0.80 mm
172	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Decarburization (microscopic method)	ISO 3887: 2017	0.10 mm to 0.80 mm
173	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Decarburization (microscopic method)	JIS G0558: 2007	0.10 mm to 0.80 mm
174	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Grain size	EN ISO 643: 2016	Qualitative(Comparison method as per standard chart at Magnification 100X)
175	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Grain size	ASTM E112: 2013	Qualitative(Comparison method as per standard chart at Magnification 100X)

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176	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Grain size	IS 4748 (RA 2017): 2009	Qualitative(Comparison method as per standard chart at Magnification 100X)
177	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Grain size	JIS G 0551: 2013	Qualitative(Comparison method as per standard chart at Magnification 100X)
178	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Macro Etch Test	ASTM E381: 2017	Qualitative(C1,R1,S1 to C4,R4,S4)
179	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Macro Etch Test	IS 13015 (RA 2012): 1991	Qualitative(C1,R1,S1 to C4,R4,S4)
180	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Macro Etch Test	ASTM E340: 2015	Qualitative(C1,R1,S1 to C4,R4,S4)
181	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Macro Etch Test	JIS G0553: 2008	Qualitative(C1,R1,S1 to C4,R4,S4)
182	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Micor Inclusion Rating	ASTM E-45 (Method A, D, E): 2018	Qualitative(Grade A, B, C, D Thin/ Thick 0.5 mm to 3 mm)
183	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Micor Inclusion Rating	DIN 50602 (Method K): 1985	Qualitative
184	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Micro Inclusion Rating	ISO 4967 (Method A): 2013	Qualitative(Grade A, B, C, D Thin/ Thick 0.5 mm to 3 mm)

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185	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Micro Inclusion Rating	JIS G0555 (Point count method): 2003	Qualitative
186	MECHANICAL-METALLOGRAPHY TEST	Metallic Materials	Micro Inclusion Rating	IS 4163 (Method A) (RA 2017): 2004	Qualitative(Grade A, B, C, D Thin/ Thick 0.5 mm to 3 mm)