



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name PHOENIX TESTING AND CONSULTANCY SERVICES, C-6, T-204, PAVANA INDUSTRIAL CO-OPERATIVE SOCIETY, BHOSARI, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5162 Page No. : 1 / 14

Validity 03/03/2019 to 02/03/2021 Last Amended on 28/03/2019

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	ALUMINIUM ALLOY	COPPER	ASTM E1251: 2011	0.81 % to 10.30 %
2	CHEMICAL- METALS & ALLOYS	ALUMINIUM ALLOY	COPPER	IS 11035 (RA 2010): 1984	0.81 % to 10.30 %
3	CHEMICAL- METALS & ALLOYS	ALUMINIUM ALLOY	IRON	ASTM E1251: 2011	0.57 % to 0.99 %
4	CHEMICAL- METALS & ALLOYS	ALUMINIUM ALLOY	IRON	IS 11035 (RA 2010): 1984	0.57 % to 0.99 %
5	CHEMICAL- METALS & ALLOYS	ALUMINIUM ALLOY	Magnesium	IS 11035 (RA 2010): 1984	0.11 % to 0.42 %
6	CHEMICAL- METALS & ALLOYS	ALUMINIUM ALLOY	Magnesium	ASTM E1251: 2011	0.11 % to 0.42 %
7	CHEMICAL- METALS & ALLOYS	ALUMINIUM ALLOY	MANGANESE	IS 11035 (RA 2010): 1984	0.20 % to 0.32 %
8	CHEMICAL- METALS & ALLOYS	ALUMINIUM ALLOY	MANGANESE	ASTM E1251: 2011	0.20 % to 0.32 %
9	CHEMICAL- METALS & ALLOYS	ALUMINIUM ALLOY	NICKEL	IS 11035 (RA 2010): 1984	0.051 % to 0.30 %
10	CHEMICAL- METALS & ALLOYS	ALUMINIUM ALLOY	NICKEL	ASTM E 1251: 2011	0.051 % to 0.30 %
11	CHEMICAL- METALS & ALLOYS	ALUMINIUM ALLOY	SILICON	ASTM E1251: 2011	0.12 % to 9.40 %
12	CHEMICAL- METALS & ALLOYS	ALUMINIUM ALLOY	SILICON	IS 11035 (RA 2010): 1984	0.12 % to 9.40 %
13	CHEMICAL- METALS & ALLOYS	ALUMINIUM ALLOY	ZINC	ASTM E1251: 2011	0.21 % to 7.64 %



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14	CHEMICAL- METALS & ALLOYS	ALUMINIUM ALLOY	ZINC	IS 11035 (RA 2010): 1984	0.21 % to 7.64 %
15	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	ALUMINIUM	ASTM E 415: 2017	0.0025 % to 0.161 %
16	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	ALUMINIUM	IS 8811 (RA 2006): 1998	0.0025 % to 0.161 %
17	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	CARBON	ASTM E 415: 2017	0.070 % to 1.31 %
18	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	CARBON	IS 8811 (RA 2006): 1998	0.070 % to 1.31 %
19	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	CHROMIUM	ASTM E 415: 2017	0.038 % to 0.65 %
20	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	CHROMIUM	IS 8811 (RA 2006): 1998	0.038 % to 0.65 %
21	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	COPPER	ASTM E 415: 2017	0.11 % to 0.302 %
22	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	COPPER	IS 8811 (RA 2006): 1998	0.11 % to 0.302 %
23	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	MANGANESE	ASTM E 415: 2017	0.228 % to 1.54 %
24	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	MANGANESE	IS 8811 (RA 2006): 1998	0.228 % to 1.54 %
25	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	MOLYBDENUM	ASTM E 415: 2017	0.018 % to 0.14 %
26	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	MOLYBDENUM	IS 8811 (RA 2006): 1998	0.018 % to 0.14 %
27	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	NICKEL	IS 8811 (RA 2006): 1998	0.030 % to 0.808 %



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28	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	NICKEL	ASTM E 415: 2017	0.030 % to 0.808 %
29	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	PHOPHORUS	ASTM E 415: 2017	0.016 % to 0.061 %
30	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	PHOSPHORUS	IS 8811 (RA 2006): 1998	0.016 % to 0.061 %
31	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	SILICON	ASTM E 415: 2017	0.01 % to 0.50 %
32	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	SILICON	IS 8811 (RA 2006): 1998	0.01 % to 0.50 %
33	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	SULFUR	ASTM E 415: 2017	0.0138 % to 0.293 %
34	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	SULFUR	IS 8811 (RA 2006): 1998	0.0138 % to 0.293 %
35	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	TITANIUM	IS 8811 (RA 2006): 1998	0.010 % to 0.16 %
36	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	TITANIUM	ASTM E 415: 2017	0.010 % to 0.16 %
37	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	VANADIUM	IS 8811 (RA 2006): 1998	0.0016 % to 0.194 %
38	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	VANADIUM	ASTM E 415: 2017	0.0016 % to 0.194 %
39	CHEMICAL- METALS & ALLOYS	CAST IRON	CARBON	IS 15338 (RA 2008): 2003	1.92 % to 3.71 %
40	CHEMICAL- METALS & ALLOYS	CAST IRON	CARBON	ASTM E 1999: 2011	1.92 % to 3.71 %
41	CHEMICAL- METALS & ALLOYS	CAST IRON	CHROMIUM	ASTM E 1999: 2018	0.99 % to 1.94 %



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42	CHEMICAL- METALS & ALLOYS	CAST IRON	CHROMIUM	IS 15338:2003: 2008	0.99 % to 1.94 %
43	CHEMICAL- METALS & ALLOYS	CAST IRON	COPPER	IS 15338(RA 2008): 2003	0.10 % to 0.86 %
44	CHEMICAL- METALS & ALLOYS	CAST IRON	COPPER	ASTM E 1999: 2011	0.10 % to 0.86 %
45	CHEMICAL- METALS & ALLOYS	CAST IRON	MANGANESE	ASTM E 1999: 2011	0.21 % to 0.66 %
46	CHEMICAL- METALS & ALLOYS	CAST IRON	MANGANESE	IS 15338(RA2008): 2003	0.21 % to 0.66 %
47	CHEMICAL- METALS & ALLOYS	CAST IRON	MOLYBDENUM	ASTM E 1999: 2011	0.039 % to 0.49 %
48	CHEMICAL- METALS & ALLOYS	CAST IRON	MOLYBDENUM	IS 15338 (RA 2008): 2003	0.039 % to 0.49 %
49	CHEMICAL- METALS & ALLOYS	CAST IRON	NICKEL	ASTM E 1999: 2011	0.063 % to 1.19 %
50	CHEMICAL- METALS & ALLOYS	CAST IRON	NICKEL	IS 15338 (RA 2008): 2003	0.063 % to 1.19 %
51	CHEMICAL- METALS & ALLOYS	CAST IRON	PHOSPHORUS	IS 15338 (RA 2008): 2003	0.036 % to 0.084 %
52	CHEMICAL- METALS & ALLOYS	CAST IRON	PHOSPHORUS	ASTM E 1999: 2011	0.036 % to 0.084 %
53	CHEMICAL- METALS & ALLOYS	CAST IRON	SILICON	IS 15338 (RA 2008): 2003	0.55 % to 2.36 %
54	CHEMICAL- METALS & ALLOYS	CAST IRON	SILICON	ASTM E 1999: 2011	0.55 % to 2.36 %
55	CHEMICAL- METALS & ALLOYS	CAST IRON	SULFUR	ASTM E 1999: 2011	0.020 % to 0.064 %



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56	CHEMICAL- METALS & ALLOYS	CAST IRON	SULFUR	IS 15338 (RA 2008): 2003	0.020 % to 0.064 %
57	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	CARBON	ASTM E-1086: 2014	0.062 % to 0.227 %
58	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	CARBON	IS 9879: 1998	0.062 % to 0.227 %
59	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	CHROMIUM	IS 9879: 1998	12.30 % to 25.30 %
60	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	CHROMIUM	ASTM E 1086: 2014	12.30 % to 25.30 %
61	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	COPPER	ASTM E 1086: 2014	0.098 % to 0.40 %
62	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	COPPER	IS 9879: 1998	0.098 % to 0.40 %
63	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	MANGANESE	IS 9879: 1998	0.64 % to 1.47 %
64	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	MANGANESE	ASTM E 1086: 2014	0.64 % to 1.47 %
65	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	MOLYBDENUM	ASTM E 1086: 2014	0.010 % to 2.16 %
66	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	MOLYBDENUM	IS 9879: 1998	0.010 % to 2.16 %
67	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	NICKEL	IS 9879: 1998	1.95 % to 20.05 %
68	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	NICKEL	ASTM E 1086: 2014	1.95 % to 20.05 %
69	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	PHOSPHORUS	ASTM E 1086: 2014	0.010 % to 0.040 %



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70	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	PHOSPHORUS	IS 9879: 1998	0.010 % to 0.040 %
71	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	SILICON	IS 9879: 1998	0.405 % to 1.14 %
72	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	SILICON	ASTM E 1086: 2014	0.405 % to 1.14 %
73	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	SULPHUR	ASTM E 1086: 2014	0.004 % to 0.029 %
74	CHEMICAL- METALS & ALLOYS	STAINLESS STEEL	SULPHUR	IS 9879: 1998	0.004 % to 0.029 %
75	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Products	Vickers & Micro Vickers Hardness Test	IS 1501 (Part 1): 2013	150 HV (10) to 750 HV (10)
76	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Hardness Test	Vickers & Micro Vickers Hardness Test	ASTM E-92: 2017	150 HV(5.0) to 750 HV(5.0)
77	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Products	% Elongation	ASTMA 370-17a: 2017	3 % to 70 %
78	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous products	% Elongation	IS 1608 (RA 2011): 2005	3 % to 70 %
79	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous products	% Elongation	ASTM E8/E8M2016a: 2016	3 % to 70 %



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80	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Products	Brinell Hardness Test	IS 1500 (RA 2013): 2005	151 HBW (5/750) to 300 HBW (5/750)
81	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Products	Brinell Hardness Test	IS 1500 (RA 2013): 2005	150 HBW (10/3000) to 500 HBW (10/3000)
82	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Products	Brinell Hardness Test	ASTM E10: 2017	150 HBW (10/3000) to 500 HBW (10/3000)
83	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Products	Brinell Hardness Test	ASTM E10: 2017	151 HBW (5/750) to 300 HBW (5/750)
84	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Products	Vickers & Micro Vickers Hardness Test	ASTM E 384: 2017	150 HV(10) to 750 HV(10)
85	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Products	Vickers & Micro Vickers Hardness Test	IS 1501 (Part 1): 2013	150 HV (0.5) to 750 HV (0.5)
86	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Products	Vickers & Micro Vickers Hardness Test	IS 1501 (PART1): 2013	150 HV (0.1) to 750 HV (0.1)



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87	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Products	Vickers & Micro Vickers Hardness Test	IS 1501 (Part 1): 2013	150 HV (5.0) to 750 HV (5.0)
88	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Products	Vickers & Micro Vickers Hardness Test	IS 1501 (Part 1): 2013	150 HV (1.0) to 750 HV (1.0)
89	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Products	Vickers & Micro Vickers Hardness Test	ASTM E 92: 2017	150 HV (0.1) to 750 HV (0.1)
90	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Products	Vickers & Micro Vickers Hardness Test	ASTM E-92: 2017	150 HV (0.5) to 750 HV (0.5)
91	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Products	Vickers & Micro Vickers Hardness Test	IS 1501 (Part 1): 2013	150 HV (30) to 750 HV (30)
92	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Products	Vickers & Micro Vickers Hardness Test	ASTM E-92: 2017	150 HV(30) to 750 HV(30)
93	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Products	Vickers & Micro Vickers Hardness Test	ASTM E-92: 2017	150 HV(1.0) to 750 HV(1.0)



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94	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Products	Vickers & Micro Vickers Hardness Test	ASTM E-92: 2017	150 HV(10) to 750 HV(10)
95	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Products	Vickers & Micro Vickers Hardness Test	ASTM E 384: 2017	150 HV(0.5) to 750 HV(0.5)
96	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Products	Vickers & Micro Vickers Hardness Test	ASTM E 384: 2017	150 HV(30) to 750 HV(30)
97	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Products	Vickers & Micro Vickers Hardness Test	ASTM E 384: 2017	150 HV(5.0) to 750 HV(5.0)
98	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Products	Vickers & Micro Vickers Hardness Test	ASTM E 384: 2017	150 HV(0.1) to 750 HV(0.1)
99	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Products	Vickers & Micro Vickers Hardness Test	ASTM E 384: 2017	150 HV(1.0) to 750 HV(1.0)
100	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Alloy	Jominy End Quench Hardenability Test	IS 3848 (RA 2009): 1981	Qualitative(NA)



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101	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous	Breaking/Push/Pull load test	IS 1608 (Part 1): 2018	5 kN to 580 kN
102	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous	Breaking/Push/Pull load test	ASTM E8/E8M 2016a: 2016	5 kN to 580 kN
103	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous products	% Reduction in Area	ASTMA 370-17a: 2017	5 % to 75 %
104	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous products	% Reduction in area	ASTM E/E8M2016a: 2016	5 % to 75 %
105	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous products	% Reduction in Area	IS 1608 (Part 1): 2018	5 % to 75 %
106	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous products	0.2% Proof stress	IS 1608 (Part 1): 2018	25 MPa to 3500 MPa
107	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous products	0.2% Proof stress	ASTM E8/E8M2016a: 2016	25 MPa to 3500 MPa



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108	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous products	0.2% Proof stress	ASTMA 370-17a: 2017	25 MPa to 3500 MPa
109	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous products	Bend Test	IS 1599: 2012	Qualitative(Mandrel diameter 5, 6, 12, 32, 44, 50, 60, 84, 112, 125 mm)
110	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous products	Tensile strength	ASTMA 370-17a: 2017	25 MPa to 3500 MPa
111	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous products	Tensile strength	IS 1608 (Part 1): 2018	25 MPa to 3500 MPa
112	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous products	Tensile strength	ASTM E8/E8M2016a: 2016	25 MPa to 3500 MPa
113	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous products	Yield strength	ASTM E8/E8M2016a: 2016	25 MPa to 3500 MPa
114	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous products	Yield strength	ASTMA 370-17a: 2017	25 MPa to 3500 MPa



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115	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous and non ferrous products	Yield Strength	IS 1608 (Part 1): 2018	25 MPa to 3500 MPa
116	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials	Impact test- Charpy V- notch	IS 1757- PART-1: 2014	10 J to 240 J
117	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous products	Rockwell hardness	ASTM E 18: 2017	20 HRC to 70 HRC
118	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous products	Rockwell hardness	ASTM E 18: 2017	70 HR15N to 94 HR15N
119	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous products	Rockwell hardness	IS 1586 PART-1: 2012	20 HRC to 70 HRC
120	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous products	Rockwell hardness	IS 1586 PART-1: 2012	20 HRB to 100 HRB
121	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous products	Rockwell hardness	IS 1586 PART-1: 2012	42 HR30N to 90 HR30N



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Laboratory Name PHOENIX TESTING AND CONSULTANCY SERVICES, C-6, T-204, PAVANA INDUSTRIAL CO-OPERATIVE SOCIETY, BHOSARI, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5162 Page No. : 13 / 14

Validity 03/03/2019 to 02/03/2021 Last Amended on 28/03/2019

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
122	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous products	Rockwell hardness	ASTM E 18: 2017	29 HR30TW to 82 HR30TW
123	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous products	Rockwell hardness	ASTM E 18: 2017	20 HRB to 100 HRB
124	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous products	Rockwell hardness	IS 1586 PART-1: 2012	70 HR15N to 94 HR15N
125	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous products	Rockwell hardness	IS 1586 PART-1: 2012	30 HR30TW to 82 HR30TW
126	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous products	Rockwell hardness	ASTM E 18: 2017	42 HR30N to 90 HR30N
127	MECHANICAL- METALLOGRAPHY TEST	Cast Iron (White, Grey, Malleable, Ductile, SG)	Graphite Type, Distribution, Size, Nodularity and Nodule count	ASTMA 247: 2017	0 Mag(X) to 100 Mag(X)
128	MECHANICAL- METALLOGRAPHY TEST	Cast Iron (White, Grey, Malleable, Ductile, SG)	Graphite type, Distribution, Size, Nodularity and Nodule count.	IS 7754 (RA 2012): 1975	0 Mag(X) to 100 Mag(X)
129	MECHANICAL- METALLOGRAPHY TEST	Ferrous & Non Ferrous	Grain Size	ASTM E112 (Comparison Method): 2013	0 ASTM Grain size No. to 10 ASTM Grain size No.



National Accreditation Board for Testing and Calibration Laboratories

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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
130	MECHANICAL-METALLOGRAPHY TEST	Ferrous and non ferrous products	Macrostructure Analysis	ASTM E 340: 2015	10 Mag (X) to 50 Mag (X)
131	MECHANICAL-METALLOGRAPHY TEST	Ferrous and non ferrous products	Macrostructure Analysis	ASTM E 381: 2017	10 Mag (X) to 50 Mag (X)
132	MECHANICAL-METALLOGRAPHY TEST	Ferrous and non ferrous products	Microstructure Analysis	ASM Handbook Vol 9: 2004	Qualitative
133	MECHANICAL-METALLOGRAPHY TEST	Ferrous and non ferrous products	Microstructure Analysis	IS 7739 (RA 2010): 1975	50 Mag to 1000 Mag
134	MECHANICAL-METALLOGRAPHY TEST	Stainless Steel	Inter-granular Corrosion Test.	ASTM A 262 (Practice A): 2015	0 Mag(X) to 250 Mag(X)
135	MECHANICAL-METALLOGRAPHY TEST	Steel	Determination of Depth of Decarburization	IS 6396 (RA 2012): 2000	0.02 mm to 2.00 mm
136	MECHANICAL-METALLOGRAPHY TEST	Steel	Measurement of Case Depth	IS 6416 (RA2012): 1988	0.10 mm to 2.00 mm