



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name METAL ENGINEERING & TESTING & RESEARCH CENTRE, HOWRAH (METARCH), HOWRAH AMTA ROAD, KANTALIA, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-5182 Page No. : 1 / 7

Validity 23/02/2019 to 22/02/2021 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
Permanent Facility				
1	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Chromium	IS 504 (Part 8): 2012
2	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Copper	IS 504 (Part 3): 2012
3	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Iron	Is 504 (Part 2): 2012
4	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Lead	IS 504 (Part 1): 2012
5	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Magnesium	MH/In Hs Chem/Mg(Al)/01, Issue No 01, Dt 30.12.10: 2010
6	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Manganese	IS 504 (Part 5) : 2012
7	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Nickel	IS 504 (Part 7): 2012
8	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Silicon	IS 504 (Part 1): 2012
9	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Tin	IS 504 (Part 9): 2012
10	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Base Alloys	Zinc	IS 504 (Part 4): 2012
11	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	12308 (Part II): 1991
12	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	IS 12308 (Part 8): 1997
13	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	IS 12308 (Part 15): 1992



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
14	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	IS 12308 (Part 10): 1991
15	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	IS 12308 (Part 7): 1991
16	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	IS 12308 (Part 5): 1991
17	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	IS 12308 (Part 6): 1991
18	CHEMICAL- METALS & ALLOYS	Copper & Copper Base Alloys	Aluminium	MH/In Hs Chem/Al(Cu)/05, Issue No 01, Dt. 31.01.15: 2015
19	CHEMICAL- METALS & ALLOYS	Copper & Copper Base Alloys	Copper	IS 440-1964 RA: 2012
20	CHEMICAL- METALS & ALLOYS	Copper & Copper Base Alloys	Copper	IS 3685:1966 RA: 2012
21	CHEMICAL- METALS & ALLOYS	Copper & Copper Base Alloys	Iron	IS 3187: 1965
22	CHEMICAL- METALS & ALLOYS	Copper & Copper Base Alloys	Lead	IS 3187: 1965
23	CHEMICAL- METALS & ALLOYS	Copper & Copper Base Alloys	Manganese	IS 3187: 1965
24	CHEMICAL- METALS & ALLOYS	Copper & Copper Base Alloys	Nickel	IS 3685: 1966
25	CHEMICAL- METALS & ALLOYS	Copper & Copper Base Alloys	Phosphorus	IS 3685: 1966
26	CHEMICAL- METALS & ALLOYS	Copper & Copper Base Alloys	Silicon	IS 3685: 1966
27	CHEMICAL- METALS & ALLOYS	Copper & Copper Base Alloys	Tin	MH/In Hs Chem/Sn (Cu)/04, Issue No 01, Dt. 09.02.15: 2015



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
28	CHEMICAL- METALS & ALLOYS	Copper & Copper Base Alloys	Zinc	IS 3685: 1966
29	CHEMICAL- METALS & ALLOYS	Low Alloy Steel & Plain Carbon Steel	Carbon	IS 228 (Part I): 1987
30	CHEMICAL- METALS & ALLOYS	Low Alloy Steel & Plain Carbon Steel	Chromium	IS 228 (Part 6): 1987
31	CHEMICAL- METALS & ALLOYS	Low Alloy Steel & Plain Carbon Steel	Copper	IS 228 (Part 15): 1992
32	CHEMICAL- METALS & ALLOYS	Low Alloy Steel & Plain Carbon Steel	Manganese	IS 228 (Part 2): 1987
33	CHEMICAL- METALS & ALLOYS	Low Alloy Steel & Plain Carbon Steel	Molybdenum	MH/In-Hs Chem/Mo(LAS)02, Issue No 01, Dt. 16.01.13: 2013
34	CHEMICAL- METALS & ALLOYS	Low Alloy Steel & Plain Carbon Steel	Nickel	IS 228 (Part 5): 1987
35	CHEMICAL- METALS & ALLOYS	Low Alloy Steel & Plain Carbon Steel	Phosphorus	IS 228 (Part 3): 1987
36	CHEMICAL- METALS & ALLOYS	Low Alloy Steel & Plain Carbon Steel	Silicon	IS 228 (Part 8): 1989
37	CHEMICAL- METALS & ALLOYS	Low Alloy Steel & Plain Carbon Steel	Sulphur	IS 228 (Part 9): 1989
38	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 228 (Part 1): 1987
39	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 228 (Part 6): 1987
40	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	IS 228 (Part 15): 1992
41	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	MH/In Hs/Chem/Mn(SS)/03, Issue No 1, Dt. 09.02.15: 2015



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42	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS 228 (Part 7): 1990
43	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 228 (Part 5): 1987
44	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	IS 228 (Part 3): 1987
45	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 228 (Part 8): 1989
46	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	IS 228 (Part 9): 1989
47	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Cast Iron	Designation of Microstructure of Graphite in Cast Iron - Form, distribution and size.	IS 7754: 1975
48	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Depth of decarburization by microscopic method	IS 6396: 2000
49	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Estimation of Average Grain size by Comparison method	IS 4748: 2009
50	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Macro structural Analysis	ASTM E 340, IS 11371, 1985, IS 13015-1981: 2013
51	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Microstructural Analysis	IS 7739 (Part 1 & 4), IS 7739 (Part 5) - 1976, ASM Hand book, Vol 9: 1975



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
52	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials (Ferrous & Non ferrous)	% Elongation	IS 1608(Part1):2018, ASTM A 370- 2014, BS EN 10002-1-2001, ASME SEC 9, 2013: 2005: 2005
53	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials (Ferrous & Non ferrous)	% Reduction of Area	IS 1608 (Part 1) : 2018, ASTM A 370-2014, BS EN 10002-1-2001, ASME SEC 9, 2013: 2005: 2005: 2005
54	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials (Ferrous & Non ferrous)	Re bend Test	IS 1786: 2008
55	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials (Ferrous & Non Ferrous)	Rockwell Hardness	IS 1586 (Part 1): 2018 ,EN 10109-1- 1996: 2018
56	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials (Ferrous & Non Ferrous)	Rockwell Hardness	IS 1586 (Part 1): 2018 ,EN 10109-1- 1996: 2018
57	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials (Ferrous & Non ferrous)	Tensile Strength	IS 1608 (Part 1) : 2018, ASTM A 370-2014, BS EN 10002-1-2001, ASME SEC 9, 2013: 2005
58	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials (Ferrous & Non Ferrous), Steel, Cast Iron, Copper, Copper Alloys & Aluminium Alloys	Bend Test	IS 1599: 2012



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59	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials (Ferrous & Non Ferrous), Steel, Cast Iron, Copper, Copper Alloys & Aluminium Alloys	Brinell Hardness	IS 1500 (Part 1)-2013, EN 10003-1- 1995: 2013
60	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials (Ferrous & Non Ferrous), Steel, Cast Iron, Copper, Copper Alloys & Aluminium Alloys	Brinell Hardness	IS 1500 (Part 1)-2013, EN 10003-1- 1995: 2013
61	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials (Ferrous & Non Ferrous), Steel, Cast Iron, Copper, Copper Alloys & Aluminium Alloys	Yield Strength	IS 1608 (Part 1)-2018, ASTM A 370-2014, BS EN 10002-1-2001, ASME SEC 9, 2013: 2005: 2005
62	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials in steel	Non metallic Inclusion rating By 'Method A'	IS 4163: 2004



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
Mobile Facility				
1	NON-DESTRUCTIVE-METALS & ALLOYS	Castings	Ultrasonic Testing (contact method)	ASME Sec V 2017 IS : 9565-2000 IS : 7666-2000 EN 10160-1999: 2017
2	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous Materials	Magnetic Particle Testing (Yoke, Wet & Dry, Visible Method)	ASME Sec V 2017 IS : 5334-2003 IS : 3703-2004 IS : 10724-1990 IS : 10543-1983 AWS D1.1-2015 AWS D1.5-2015: 2015
3	NON-DESTRUCTIVE-METALS & ALLOYS	Ferrous/Non ferrous Materials	Penetration Testing (Visible, solvent removable method)	ASME Sec V ,2017 AWS D1.1-2015, AWS D1.5-2015: 2017
4	NON-DESTRUCTIVE-METALS & ALLOYS	Forging	Ultrasonic Testing (contact method)	ASME Sec V 2017 IS : 3664-1981 IS : 8791-1978 ASME Section V (Max in 2500 mm thk in steel): 2017
5	NON-DESTRUCTIVE-METALS & ALLOYS	Plate	Ultrasonic Testing (contact method)	ASME Sec V 2017 IS : 11630-2005 EN10160-1999 ASME Section V (Max in 150 mm thk in steel): 2017
6	NON-DESTRUCTIVE-METALS & ALLOYS	Weld	Ultrasonic Testing (contact method)	EN ISO 17640-2010 AWS D1.5-2015, AWS D1.1-2015 ASME Section V (Max in 100 mm thk in steel): 2017