

Laboratory **Sohm Analytical Services (I) Pvt. Ltd., A-121/101, B-33/35, Amargian Industrial Estate, Pokharan Road No. 1, Khopat, Thane (W), Maharashtra**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-7879 (in lieu of T-2329, T-2379)**

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Validity **12.09.2018 to 11.09.2020**

Last Amended on 26.09.2018

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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CHEMICAL TESTING

I.	METAL & ALLOYS			
1.	Carbon Steel & Alloy Steel	Carbon Manganese Phosphorus Sulphur Silicon Copper Chromium Aluminium Arsenic Boron Nickel Niobium Titanium Vanadium Molybdenum Nitrogen Tin Calcium Lead Cobalt Antimony	ASTM E 415 : 2017 IS 8811 : 1998	0.025% to 1.20 % 0.010% to 2.00% 0.001% to 0.11% 0.001% to 0.35% 0.025% to 2.00% 0.005% to 0.42% 0.010% to 5.00% 0.006% to 1.01% 0.001% to 0.050% 0.0005% to 0.005% 0.010% to 4.00% 0.001% to 0.45% 0.001% to 0.26% 0.001% to 0.55% 0.001% to 1.30% 0.001% to 0.026% 0.001% to 0.12% 0.0005% to 0.002% 0.005% to 0.33% 0.001% to 0.051% 0.002% to 0.050%
2.	Stainless Steel	Carbon Manganese Phosphorus Sulphur Silicon Copper Chromium Nickel	ASTM E 1086 : 2014 IS 9879 : 1998 RA 2015	0.010% to 1.50% 0.010% to 12.00% 0.005% to 0.070% 0.001% to 0.30% 0.010% to 2.00% 0.10% to 5.00% 5.0% to 30.00% 0.50% to 28.00%

Neeraj Verma
Convenor

Birendra Prasad Murmu
Program Manager

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		Niobium Titanium Molybdenum Nitrogen Tungsten Cobalt		0.002% to 1.00% 0.010% to 0.48% 0.010% to 4.10% 0.010% to 0.28% 0.010% to 0.12% 0.0460% to 1.00%
3.	Cast Iron	Carbon Manganese Phosphorus Sulphur Silicon Copper Chromium Nickel Molybdenum Magnesium	ASTM E 1999: 2011	2.00% to 4.00% 0.18% to 0.90% 0.030% to 0.10% 0.006 % to 0.044% 1.00 % to 2.40% 0.003% to 0.23% 0.088% to 2.00% 0.035% to 2.00% 0.001% to 0.050% 0.010% to 0.10%
4.	High Speed Tool Steel	Carbon Manganese Phosphorus Sulphur Silicon Chromium Molybdenum Tungsten Cobalt Vanadium	ASTM E 1086:2014	0.10% to 2.50% 0.010% to 1.50% 0.005 % to 0.030% 0.005 % to 0.025% 0.010% to 1.40% 0.010% to 12.00% 0.010% to 6.00% 0.010% to 6.00% 0.010% to 0.30% 0.010 % to 4.50 %
5.	Copper Alloy	Zinc Lead Tin Phosphorus Manganese Iron Nickel Silicon	BS EN 15079 :2015	0.001% to 40.0% 0.010% to 14.00% 0.010% to 14.00% 0.010% to 0.38% 0.001% to 4.06% 0.001% to 4.30% 0.001% to 34.34% 0.001% to 0.83%

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10.	Copper & Its Alloy	Chromium Manganese Iron Nickel Copper Zinc Arsenic Lead Tin Bismuth Zirconium Silver	ASTM E 1916-97:RA 2004	Qualitative
11.	Low Alloy Steel	Carbon Silicon Manganese Phosphorus Sulphur Chromium Nickel Molybdenum	IS 228 (Part 1) – 1987 RA 2008 IS 228 (Part 8) -1989 RA 2009 IS 228 (Part 2) – 1987 RA 2002 IS 228 (Part I3) - 1987 RA 2008 IS 228 (Part 9)-1989, RA 1999 IS 228 (Part 6)-1987 RA 2002 IS 228 (Part 5) - 1987 RA 2002 IS 228 (Part 7)- 1990 RA 2001	0.050% to 2.50% 0.05% to 5.0% 0.1% to 3.0% 0.01% to 0.12% 0.010% to 0.6% 0.5% to 5.0% 0.2% to 5.0% 0.15% to 2.0%

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12.	Stainless Steel	Carbon	IS 228 (Part 1) – 1987, RA 2008	0.015% to 0.30%
		Silicon	IS 228 (Part 8) -1989 RA 2009	0.05% to 3.0%
		Phosphorus	IS 228 (Part 3) - 1987 RA 2008	0.01% to 0.12%
		Sulphur	IS 228 (Part 9)-1989, RA1999	0.005% to 0.6%
		Chromium	IS 228 (Part 6)-1987 RA 2002	0.1% to 26.0%
		Nickel	ASTM (E - 353) 2014	0.2% to 25.0%
		Molybdenum	IS 228 (Part 7)- 1990 RA 2001	1.0% to 6.0%
13.	Copper & its Alloys	Copper	IS 440 :1964 RA 2006	99.20 % to 99.99 %
14.	Wire, Sheet, Strip, Plate	Mass of Zinc Coating (By Stripping Method)	IS 6745:1972 (RA 2016)	50 g to 220 g

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		Face Bend, Root Bend & Side Bend Test	BS EN ISO 5173:2010+A1 :2011 IS 2825:1969(RA 2017) IBR Rules:2017 AWS D1.1-2015, ASME SEC.IX – 2017 API 1104-2013	Qualitative (Mandrel Diameter: 5,6,8,10,12,15,24,30,32, 36,40,45,52,60,75,90 in mm)
4.	Cladded steel Plate	Shear Test	ASTM A 263-2012/ SA 263-2017 ASTM A 264-2012 / SA 264-2017 ASTM A 265-2012/ SA 265-2017	10kN to 400kN 30kN to 1200kN Shear strength: 50 MPa to 800 Mpa
5.	Steel Plates, Bars, Rods	Bend Test	IS 1599-2012 IS 2329:2005 ASTM A370-2017a ASTM E290-2014 IBR Rules:2017	Qualitative (Mandrel Diameter: 5,6,8,10,12,15,24,30,32, 36,40,45,52,60,75,90 in mm)
6	Ferrous ,Non Ferrous Metals & Alloys (Weld)	Nick break Test	API 1104:2013 IS 3600 (Part 8)-1985 IBR Rule:2017 IS 2825-1969(RA 2017)	Qualitative (10kN to 400kN 30kN to 1200kN)
7.	Steel Plates	Through Thickness Tensile (%R.A)	ASTM A770-03(2012) BS EN 10164-2004 API SPEC 2H-2012	10kN to 400kN 30kN to 1200kN 5 % to 85 %
8.	Ferrous, Non Ferrous Metals & Alloys	Charpy 'V' notch Impact Test	ASTM E23-16b ASTM A370-2017a IS 1757-1988 (2003) BS EN ISO 148-1:2016 BS EN ISO 9016:2012 IBR RULE:2017	2J to 300 J (-) 196°C to 50°C
		Izod Impact Test	IS 1598-1988(R 2015)	2J to 168 J Ambient Temperature

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9.	High Strength deformed bar for concrete reinforcement	Re-bend Test	IS 1786 – 2008	Qualitative (Mandrel Diameter: 5,6,8,10,12,15,24,30,32,36,40,45,52,60,75,90 in mm)
10.	Steel Tubes / Pipes	Flattening Reverse Flattening Test	IS 2328 -2005-Ra2017 ASTM A370-2017a ASTM A1016/1016M-2016 ASTM A999-2018	Qualitative (Outer Diameter : 10 mm to 660 mm)
		Bend Test	IS 2329 - 2005 ASTM A370-2017a ASTM A530 - 2012	Qualitative (Mandrel Diameter : 140,160,180,260,300,340,620,720 in mm)
11	Ferrous ,Non Ferrous Metals & Alloys Tube / Pipe	Flaring Test/Drift Test	IS 2335-2005-Ra2017 ASTM A370-2017a ASTM B153-2011(2017) IS 2501-1995(R2016) ASTM A1016/1016M-2016	Qualitative 6 mm to 168 mm (30°, 45° , 60°)
12	Ferrous ,Non Ferrous Metals & Alloys Bolt & Screws	Proof Load	IS 1367-Part 3-2002 ASTM A 370:2017a	10kN to 400kN 30kN to 1200kN Size M10 to M39
13	Ferrous ,Non Ferrous Metals & Alloys - Nuts	Proof Load	IS 1367 -Part 6-1994 (RA 2004) ASTM A194-2017a ASTM A370-2017a	10kN to 400kN 30kN to 1200kN Nut Size M3 to M39 (Mandrel Sizes.10,12,16,20,24,30,33,36,39,5/8",3/4",1",1 1/8",1 1/4",1 1/2")
14	Welded / Brazed Products	Peel Test Fracture Test	ASME Sec. IX – 2017	Qualitative

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		IGC Practice B (Weight loss Method)		1 mills/ year to 2500 mills/ year
		IGC Practice C (Weight loss Method)		1 mills/ year to 2500 mills/ year
		IGC Practice E		Qualitative (5X TO 20X) 180° bend (1t & 4t)
		IGC Practice F (Weight loss Method)		1 mills/ year to 2500 mills/ year
9.	Metals and Coated metals	Salt spray test	ASTM B117-2016 ISO 9227-2017	Qualitative
10.	Stainless Steel and Related Alloys	Ferric Chloride pitting test (Method A)	ASTM G48 - 2015	Visual & Weight loss Method, 22°C and 50°C, 0.001 g/cm ² to 20 g/cm ²
		Ferric Chloride crevice test (Method B)		Visual & Weight loss Method, 22°C and 50°C, 0.001 g/cm ² to 20g/cm ²
11.	Nickel base and chromium bearing alloy	Critical pitting temperature test (Method C)	ASTM G48-2015	0.001 g/cm ² to 50g/cm ²
12.	Ferritic, Austenitic and Duplex Stainless Steel	IGC Method A	ISO 3651 Part-2:1998	Magnification 5X to 20X (1t & 4t Bend min 90°)
		IGC Method C(Huey Test) Weight loss Method	ISO 3651 Part-1:1998	1 mills/ year to 2500 mills/ year
13.	Nickel Rich Chromium Bearing Alloys	IGC - Method A (Weight loss Method)	ASTM G28-2015	1 mills/ year to 2500 mills/ year
		IGC - Method B (Weight loss Method)	ASTM G28-2015	Upto 2500 mills/ year
14.	Ferrous Metals & Alloys	Ferrite Content Test (By Metallography)	ASTM E-562-11	25 % to 65%
		Ferrite Content Test (Ferritescope method)	ASTM A800-14	0.10 % to 85% 0.10 FN to 110 FN

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