



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory

Metallurgical Services Private Limited, Mehta House, Ashok Silk Mills Lane, Off. L.B.S. Marg, Ghatkopar (W), Mumbai, Maharashtra

Location 1: Mehta House, Ashok Silk Mills Lane, Off. L.B.S. Marg, Ghatkopar (W), Mumbai, Maharashtra

Location 2: 17, A-1, Shiv Shakti Industrial Estate, Off. L.B.S. Marg, Ghatkopar (W), Mumbai, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7586 (in lieu of T-0135, T-0136 & T-4085) Page 1 of 49

Validity 15.07.2018 to 14.07.2020

Last Amended on --

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 & METAL ALLOYS				
A. Optical Emission Spectrometer (Oes)				
Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
1.	Plain Carbon steel and Low Alloy steel	Aluminum	ASTM E 415-2017 IS 8811:2012	0.001 % to 0.075 % 0.005 % to 0.15 %
		Arsenic	ASTM E 415-2017 IS 8811:2012	0.05 % to 0.1 % 0.005 % to 0.05 %
		Boron	ASTM E 415-2017 IS 8811:2012	0.002 % to 0.007 % 0.005 % to 0.010 %
		Carbon	ASTM E 415-2017 IS 8811:2012	0.08 % to 1.1 %
		Chromium	ASTM E 415-2017 IS 8811:2012	0.01 % to 1.5 %
		Cobalt	ASTM E 415-2017 IS 8811:2012	0.01 % to 2.25 % 0.05 % to 5.0 %
		Copper	ASTM E 415-2017 IS 8811:2012	0.008 % to 0.18 % 0.01 % to 0.20 %
		Manganese	ASTM E 415-2017 IS 8811:2012	0.01 % to 0.5 % 0.01 % to 0.5 %
		Molybdenum	ASTM E 415-2017 IS 8811:2012	0.01 % to 2.0 % 0.01 % to 2.0 %
		Nickel	ASTM E 415-2017 IS 8811:2012	0.03 % to 0.6 % 0.01 % to 1.5 %
		Niobium	ASTM E 415-2017 IS 8811:2012	0.01 % to 5.0 % 0.05 % to 5.0 % 0.01 % to 0.085 % 0.008 to 0.076

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Nitrogen	ASTM E 415-2017 IS 228 pt. 23:2003 (RA 2008)	0.001 % to 0.015 % 0.002 % to 1.0 %
		Phosphorous	ASTM E 415-2017 IS 8811:2012	0.02 % to 0.085 % 0.005 to 0.1
		Silicon	ASTM E 415-2017 IS 8811:2012	0.07 % to 1.15 % 0.05 % to 2.0 %
		Sulphur	ASTM E 415-2017 IS 8811:2012	0.001 % to 0.055 % 0.005 % to 0.1 %
		Tin	ASTM E 415-2017 IS 8811:2012	0.01 % to 0.045 % 0.003 % to 0.1 %
		Titanium	ASTM E 415-2017 IS 8811:2012	0.001 % to 0.2 % 0.01 to 0.25
		Vanadium	ASTM E 415-2017 IS 8811:2012	0.001 % to 0.3 % 0.001 % to 1.0 %
		Zirconium	ASTM E 415-2017 IS 8811:2012	0.02 to 0.05 0.001 % to 0.05 %
2.	Stainless Steel	Carbon	ASTM E 1086-2014	0.005 % to 0.25 %
		Chromium	ASTM E 1086:2014 IS 9879:1998 (RA 2015)	17.0 % to 23.0 % 5.0 % to 20.0 %
		Copper	ASTM E:1086:2014	0.01 % to 0.4 %
		Manganese	ASTM E:1086-2014 IS 9879:1998 (RA 2015)	0.01 % to 2.0 % 0.10 % to 5.0 %
		Molybdenum	ASTM E:1086:2014 IS 9879:1998 (RA 2015)	0.01 % to 3.0 % 0.01 % to 3.0 %
		Nickel	ASTM E 1086-2014 IS 9879:1998 (RA 2015)	7.5 % to 13.0 % 2.0 % to 15.0 %
		Phosphorous	ASTM E:1086-2014 IS 9879:1998 (RA 2015)	0.003 % to 0.15 % 0.002 % to 0.10 %


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		Silicon	ASTM E:1086-2014 IS 9879:1998 (RA 2015)	0.01 % to 0.9 % 0.01 % to 2.0 %
		Sulphur	ASTM E:1086-2014 IS 9879:1998 (RA 2015)	0.003 % to 0.065 % 0.002 % to 0.10 %
		Nitrogen	IS 228 pt. 23:2003 (RA 2008)	0.001 % to 0.015 % 0.002 % to 1.0 %
3.	Plain Carbon steel and Low Alloy steel	Aluminum	SOP No:MSPL/SOP/26A Issue:02/27.02.18	0.01 % to 1.22 %
		Arsenic	SOP No:MSPL/SOP/26A Issue:02/27.02.18	0.01 % to 0.05 %
		Silicon	SOP No:MSPL/SOP/26A Issue:02/27.02.18	0.010 % to 0.070 %
		Carbon	SOP No:MSPL/SOP/26A Issue:02/27.02.18	0.010 % to 0.080 %
		Antimony	SOP No:MSPL/SOP/26A Issue:02/27.02.18	0.003 % to 0.07 %
		Boron	SOP No:MSPL/SOP/26A Issue:02/27.02.18	0.005 % to 0.010 %
		Boron	SOP No:MSPL/SOP/26A Issue:02/27.02.18	0.0002 % to 0.005 %
		Chromium	SOP No:MSPL/SOP/26A Issue:02/27.02.18	2.25 % to 5.5 %
		Copper	SOP No:MSPL/SOP/26A Issue:02/27.02.18	0.5 % to 5.0 %
		Lead	SOP No:MSPL/SOP/26A Issue:02/27.02.18	0.01 % to 0.25 %
		Nickel	SOP No:MSPL/SOP/26A Issue:02/27.02.18	0.5 % to 5.0 %

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Niobium	SOP No:MSPL/SOP/26A Issue:02/27.02.18	0.01 % to 0.10 %
		Nitrogen	SOP No:MSPL/SOP/26A Issue:02/27.02.18	0.005 % to 0.08 %
		Phosphorous	SOP No:MSPL/SOP/26A Issue:02/27.02.18	0.003 % to 0.1 %
		Tungsten	SOP No:MSPL/SOP/26A Issue:02/27.02.18	0.01 % to 1.0 %
4.	Tool Steel	Carbon	SOP No:MSPL/SOP/26B Issue:02/27.02.18	0.35 % to 2.5 %
		Chromium	SOP No:MSPL/SOP/26B Issue:02/27.02.18	3.0 % to 15.0 %
		Cobalt	SOP No:MSPL/SOP/26B Issue:02/27.02.18	4.0 % to 11 %
		Manganese	SOP No:MSPL/SOP/26B Issue:02/27.02.18	0.10 % to 1.0 %
		Molybdenum	SOP No:MSPL/SOP/26B Issue:02/27.02.18	0.01 % to 10.0 %
		Phosphorous	SOP No:MSPL/SOP/26B Issue:02/27.02.18	0.003 % to 0.03 %
		Silicon	SOP No:MSPL/SOP/26B Issue:02/27.02.18	0.10 % to 1.0 %
		Sulphur	SOP No:MSPL/SOP/26B Issue:02/27.02.18	0.005 % to 0.030 %
		Tungsten	SOP No:MSPL/SOP/26B Issue:02/27.02.18	0.50 % to 18.0 %
		Vanadium	SOP No:MSPL/SOP/26B Issue:02/27.02.18	0.30 % to 3.0 %
		Copper	SOP No:MSPL/SOP/26B Issue:02/27.02.18	0.01 % to 0.20 %


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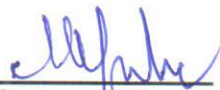
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		Nickel	SOP No:MSPL/SOP/26B Issue:02/27.02.18	0.01 % to 0.75 %
5.	Stainless Steel	Aluminum	SOP No:MSPL/SOP/26C Issue:02/27.02.18	0.01 % to 1.22 %
		Boron	SOP No:MSPL/SOP/26C Issue:02/27.02.18	0.005 % to 0.010 %
		Carbon	SOP No:MSPL/SOP/26C Issue:02/27.02.18	0.25 % to 1.25 %
		Chromium	SOP No:MSPL/SOP/26C Issue:02/27.02.18	8.0 % to 17.0 % 23.0 % to 25.75 %
		Copper	SOP No:MSPL/SOP/26C Issue:02/27.02.18	0.3 % to 5.0 %
		Manganese	SOP No:MSPL/SOP/26C Issue:02/27.02.18	2.0 % to 2.50 %
		Nickel	SOP No:MSPL/SOP/26C Issue:02/27.02.18	13.0 % to 35.0 %
		Niobium	SOP No:MSPL/SOP/26C Issue:02/27.02.18	0.01 % to 2.5 %
		Nitrogen	SOP No:MSPL/SOP/26C Issue:02/27.02.18	0.005 % to 0.38 %
		Phosphorous	SOP No:MSPL/SOP/26C Issue:02/27.02.18	0.01 % to 0.1 %
		Silicon	SOP No:MSPL/SOP/26C Issue:02/27.02.18	0.01 % to 2.5 %
		Sulphur	SOP No:MSPL/SOP/26C Issue:02/27.02.18	0.065 % to 0.10 %
		Titanium	SOP No:MSPL/SOP/26C Issue:02/27.02.18	0.01 % to 1.0 % 0.01 % to 2.0 %
		Tungsten	SOP No:MSPL/SOP/26C Issue:02/27.02.18	0.01 % to 1.0 %


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		Vanadium	SOP No:MSPL/SOP/26C Issue:02/27.02.18	0.01 % to 0.30 %
		Cobalt	SOP No:MSPL/SOP/26C Issue:02/27.02.18	0.02 % to 1.0 %
		Molybdenum	SOP No:MSPL/SOP/26C Issue:02/27.02.18	3.0 % to 4.0 % 3.0 % to 6.20 %
6.	Manganese Steel	Carbon	SOP No:MSPL/SOP/26D Issue:02/27.02.18	0.7 % to 1.5 %
		Chromium	SOP No:MSPL/SOP/26D Issue:02/27.02.18	1.0 % to 3.0 % 16.0 % to 24.0 %
		Manganese	SOP No:MSPL/SOP/26D Issue:02/27.02.18	5.5 to 15.50
		Molybdenum	SOP No:MSPL/SOP/26D Issue:02/27.02.18	0.10 % to 2.0 %
		Nickel	SOP No:MSPL/SOP/26D Issue:02/27.02.18	3.0 % to 9.0 %
		Phosphorous	SOP No:MSPL/SOP/26D Issue:02/27.02.18	0.01 % to 0.1 %
		Silicon	SOP No:MSPL/SOP/26D Issue:02/27.02.18	0.01 % to 2.0 %
		Sulphur	SOP No:MSPL/SOP/26D Issue:02/27.02.18	0.01 % to 0.030 %
		Manganese	SOP No:MSPL/SOP/26D Issue:02/27.02.18	5.5 % to 15.50 % 5.5 % to 20.0 %
7.	Aluminium Alloy	Chromium	ASTM E 1251:2017a	0.01 % to 0.23 %
		Copper	ASTM E 1251:2017a	0.01 % to 3.0 %
		Iron	ASTM E 1251:2017a	0.01 % to 0.5 %
		Lead	ASTM E 1251:2017a	0.01 % to 0.6 %
		Magnesium	ASTM E 1251:2017a	0.01 % to 4.0 %


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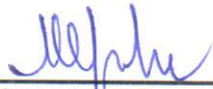
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		Manganese	ASTM E 1251:2017a	0.01 % to 1.2 %
		Nickel	ASTM E 1251:2017a	0.01 % to 2.6 %
		Silicon	ASTM E 1251:2017a	0.01 % to 11.0 %
		Silicon	ASTM E 1251:2017a	0.01 % to 12.5 %
		Tin	ASTM E 1251:2017a	0.01 % to 0.5 %
		Titanium	ASTM E 1251:2017a	0.01 % to 0.12 %
		Vanadium	ASTM E 1251:2017a	0.01 % to 0.022 %
		Copper	ASTM E 1251:2017a	0.01 % to 3.0 % 3.0 % to 5.5 %
		Iron	ASTM E 1251:2017a	0.01 % to 0.5 % 0.01 % to 1.25 %
		Zinc	ASTM E 1251:2017a	0.01 % to 1.5 % 0.01 % to 5.7 %
8.	Metal & Alloys (Copper Base Alloy) Brass, bronze, Al. Bronze, Gun metal, Phosphor, bronze	Aluminum	SOP No:MSPL/SOP/33 Issue:02/27.02.18	0.01 % to 11.50 %
Arsenic		SOP No:MSPL/SOP/33 Issue:02/27.02.18	0.01 % to 0.25 %	
Bismuth		SOP No:MSPL/SOP/33 Issue:02/27.02.18	0.001 % to 0.15 %	
Chromium		SOP No:MSPL/SOP/33 Issue:02/27.02.18	0.01 % to 0.10 %	
Iron		SOP No:MSPL/SOP/33 Issue:02/27.02.18	0.01 % to 5.0 %	
Lead		SOP No:MSPL/SOP/33 Issue:02/27.02.18	0.001 % to 12.5 %	
		Manganese	SOP No:MSPL/SOP/33 Issue:02/27.02.18	0.01 % to 1.8 %


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		Nickel	SOP No:MSPL/SOP/33 Issue:02/27.02.18	0.01 % to 33.0 %
		Phosphorus	SOP No:MSPL/SOP/33 Issue:02/27.02.18	0.01 % to 0.40 %
		Silicon	SOP No:MSPL/SOP/33 Issue:02/27.02.18	0.01 % to 0.50 %
		Sulphur	SOP No:MSPL/SOP/33 Issue:02/27.02.18	0.001 % to 0.10 %
		Tin	SOP No:MSPL/SOP/33 Issue:02/27.02.18	0.01 % to 9.0 %
		Zinc	SOP No:MSPL/SOP/33 Issue:02/27.02.18	0.001 % to 40.0 %
		Copper	SOP No:MSPL/SOP/33 Issue:02/27.02.18	55.0 % to 95.00 %
9.	Metal & alloys Nickel base Inconel Incoloy Hastelloy Monel	Aluminum	SOP No:MSPL/SOP/34 Issue:02/27.02.18	0.01 % to 4.0 %
Boron		SOP No:MSPL/SOP/34 Issue:02/27.02.18	0.003 % to 0.005 %	
Chromium		SOP No:MSPL/SOP/34 Issue:02/27.02.18	0.01 % to 21.50 %	
		Cobalt	SOP No:MSPL/SOP/34 Issue:02/27.02.18	0.01 % to 2.5 %
		Copper	SOP No:MSPL/SOP/34 Issue:02/27.02.18	0.01 % to 26.0 % 0.01 % to 35.0 %
		Iron	SOP No:MSPL/SOP/34 Issue:02/27.02.18	0.01 % to 10.0 % 0.01 % to 30.0 %
		Lead	SOP No:MSPL/SOP/34 Issue:02/27.02.18	0.01 % to 0.050 %
		Magnesium	SOP No:MSPL/SOP/34 Issue:02/27.02.18	0.01 % to 0.030 %

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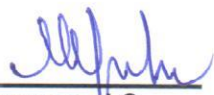
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		Manganese	SOP No:MSPL/SOP/34 Issue:02/27.02.18	0.01 % to 2.0 %
		Molybdenum	SOP No:MSPL/SOP/34 Issue:02/27.02.18	0.01 % to 26.0 %
		Nickel	SOP No:MSPL/SOP/34 Issue:02/27.02.18	50.0 % to 75.0 %
		Niobium	SOP No:MSPL/SOP/34 Issue:02/27.02.18	0.1 % to 5.70 %
		Phosphorus	SOP No:MSPL/SOP/34 Issue:02/27.02.18	0.01 % to 0.055 %
		Silicon	SOP No:MSPL/SOP/34 Issue:02/27.02.18	0.01 % to 4.1 %
		Sulphur	SOP No:MSPL/SOP/34 Issue:02/27.02.18	0.01 % to 0.075 %
		Titanium	SOP No:MSPL/SOP/34 Issue:02/27.02.18	0.01 % to 3.0 %
		Tungsten	SOP No:MSPL/SOP/34 Issue:02/27.02.18	0.01 % to 3.25 %
		Vanadium	SOP No:MSPL/SOP/34 Issue:02/27.02.18	0.01 % to 0.2 %
		Carbon	SOP No:MSPL/SOP/34 Issue:02/27.02.18	0.003 % to 0.010 % 0.01 % to 0.15 %
		Chromium	SOP No:MSPL/SOP/34 Issue:02/27.02.18	0.01 % to 21.50 % 0.01 % to 30.00 %
		Nickel	SOP No:MSPL/SOP/34 Issue:02/27.02.18	30 % % to 50 % 50.0 % to 75.0 %
		Phosphorus	SOP No:MSPL/SOP/34 Issue:02/27.02.18	0.005 % to 0.010 % 0.01 % to 0.055 %
		Sulphur	SOP No:MSPL/SOP/34 Issue:02/27.02.18	0.01 % to 0.075 % 0.001 % to 0.010 %


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Location 1: Mehta House, Ashok Silk Mills Lane, Off. L.B.S. Marg, Ghatkopar (W), Mumbai, Maharashtra

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
B.	Wet Analysis			
1.	Iron Alloys (Carbon Steel And Low Alloy Steel).	Chromium	ASTM E 350-2012. IS 228 PT (6):1987 (RA 2014) SOP No:MSPL/SOP/30 Issue:06/27.02.18	0.01 % to 3.99 % 0.1 % to 5.0 %
		Manganese	ASTM E 350-2012 IS -228 PART (2):1987 (RA 2014)	0.10 % to 2.50 % 0.1 % to 2.0 %
		Molybdenum	SOP No:MSPL/SOP/07 Issue:01/14.04.16 IS 228 Part-7:90 (RA 2014)	1.0 % to 3.0 % 1.0 % to 3.0 %
		Nickel	ASTM E 350-2012 IS 228 Part (5):87 (RA 2014)	0.1 % % to 5.0 % 0.1 % % to 5.0 %
		Niobium+ Tantalum (As Niobium)	SOP No:MSPL/SOP/28 Issue:06/27.02.18	0.01 % to 1.45 %
		Phosphorus	ASTM E 350-2012 IS 228 Part (3):87 (RA 2014)	0.020 % to 0.25 % 0.01 % to 0.50 %
		Silicon	ASTM E 350-2012 IS 228 Part (8):89 (RA 2014)	0.05 % to 3.50 % 0.05 % to 3.50 %
		Tungsten	SOP No:MSPL/SOP/13 Issue:06/27.02.18	0.50 % to 2.0 %
		Vanadium	SOP No:MSPL/SOP/14 Issue:06/27.02.18	0.01 % to 2.0 %

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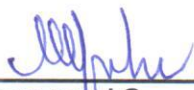
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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
2.	Iron Alloys (Stainless Steel)	Chromium	ASTM E 353-2014 IS 228 part-6:90(RA 2014) SOP No:MSPL/SOP/30 Issue:06/27.02.18	0.1 % to 35.0 % 0.10 % to 30.0 %
		Molybdenum	SOP No:MSPL/SOP/07 Issue:06/27.02.18 IS 228 Part-7:90 (RA 2018)	1.0 % to 3.0 % 0.1 % to 4.0 %
		Nickel	ASTM E 353-2014 IS 228 Part (5):87 (RA 2014)	0.1 % to 48.0 % 0.5 % to 36.0 %
		Niobium+ Tantalum (as Niobium)	SOP No:MSPL/SOP/28 Issue:02/27.02.18	0.01 % to 1.45 %
		Phosphorus	ASTM E 353-2014 IS 228 Part (3):87 (RA 2018)	0.020 % to 0.35 % 0.005 % to 0.50 %
		Silicon	ASTM E 353-2014 IS 228 Part (8):89 (RA 2014)	0.050 % to 4.0 % 0.05 % to 4.0 %
		Tungsten	SOP No:MSPL/SOP/13 Issue:06/27.02.18	0.50 % to 10.0 %
	Vanadium	SOP No:MSPL/SOP/14 Issue:06/27.02.18	0.01 % to 2.0 %	
3.	Iron Alloy (Tool Steel & high alloy steel)	Chromium	ASTM E 352-2013 SOP No:MSPL/SOP/30 Issue:06/27.02.18	0.1 % to 14.0 % 0.10 % to 17.00 %
		Molybdenum	SOP No:MSPL/SOP/07 Issue:06/27.02.18	0.1 % to 6.0 %


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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Nickel	ASTM E 352-2013	0.1 % % to 4.30 %
		Phosphorus	ASTM E 352-2013	0.005 % to 0.050 %
		Silicon	ASTM E 352-2013 IS 228 part-8:90(RA 2014)	0.1 % to 2.50 % 0.050 % to 5.0 %
		Tungsten	SOP No:MSPL/SOP/13 Issue:06/27.02.18	0.50 % to 21.0 %
		Vanadium	SOP No:MSPL/SOP/14 Issue:06/27.02.18	0.01 % to 2.0 %
4.	Iron Alloys (Cast Iron)	Chromium	ASTM E 351:2013 IS 12308 Pt (8):1997 (RA 2018)	0.05 % to 30.0 % 0.10 % to 28.0 %
		Manganese	ASTM E 351:2013 12308 (Pt.10):91 (RA 2018)	0.1 % to 2.50 % 0.01 % to 1.8 %
		Molybdenum	SOP NO:MSPL/SOP/07 Issue:06/27.02.18 IS 12308 (Pt.9):93 (RA 2018)	0.1 % to 3.0 % 0 % to 1.0 %
		Nickel	ASTM E 351:2013 IS 12308 (Pt.7):1991 (RA 2018)	0.1 % to 36 % 0.55 % to 36 %
		Phosphorus	ASTM E 351:2013 IS 12308 (Pt.5):91 (RA 2018)	0.01 % to 0.90 % 0.01 % to 0.50 %
		Silicon	ASTM E 351:2013 IS 12308 (Pt.6):91 (RA 2018)	0.1 % to 6.0 % 0.1 % to 6.0 %


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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
5.	Aluminium Alloys	Silicon	ASTM E 34-2011 IS 504 (Part 1):2002	0.05 % to 20 % 0.05 % to 20 %
6.	Copper Alloys	Beryllium	ASTM E 2824-2011	0.1 % to 3.0 %
		Copper (All By Electrolysis)	IS 3685:66 (RA 2018) IS 4027 (Pt.1):87 (RA 2018) ASTM E 53(2013)	0.1 % to 85 % 99.75 % to 99.95 %
			SOP No:MSPL/SOP/29 Issue:Issue:06/27.02.18	55.00 % to 99.99 %
		Lead (Electrolysis)	IS 3685:1966 (RA 00) IS 4027 (Pt.1):1987 (RA 2018)	0.01 % to 15.0 % 0.01 % to 15.0 %
			SOP No:MSPL/SOP/29 Issue:Issue:06/27.02.18	0.01 % to 15.0 %
		Nickel	ASTM E 478:(2017)	4.0 % to 50 %
		Phosphorus	IS 3685:1966 (RA 2018)	0.01 % to 0.5 %
		Silicon	ASTM E 54-80:1990	0.01 % to 5 %
		Tin	ASTM E 478 (2017)	0.5 % to 20 %
7.	Metals & Alloys (Lead Base)	Antimony	IS 403:1964 (RA 2000)	0.1 % to 15 %
		Tin	SOP No:MSPL/SOP/22 Issue:06/27.02.18	1 % to 82.2 %


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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
8.	Metals & Alloys (Tin Base)	Antimony	IS 403:1964 (RA 2016)	0.1 % to 15 %
		Antimony	IS 1409:1949 (RA 2000)	0.1 % to 15 %
		Tin	SOP No:MSPL/SOP/22 Issue:06/27.02.18	1 % to 82.2 %
9.	Nickel base Hastelloy Metals & alloys (MONEL)	Carbon	ASTM E 1019:2011	0.005 % to 1.0 %
		Sulphur	ASTM E 1019: 2011	0.002 % to 0.1 %
		Silicon	ASTM E 354:2014	0.05 % to 5.0 %
		Chromium	ASTM E 354:2014	0.10 % to 33.00 %
		Nickel	ASTM E 354:2014	30.0 % to 84.0 %
		Molybdenum	ASTM E 354:2014	1.5 % to 30.0 %
		Copper	SOP No:MSPL/SOP/29 Issue:Issue:06/27.02.18	28.0 % to 35.0 %
		Lead	SOP No:MSPL/SOP/29 Issue:Issue:06/27.02.18	0.01 % to 15.0 %
10.	Copper Base Alloy	Mercurous Nitrate Test For Crack Detection	ASTM B 154:2016	Qualitative
			IS 2305:1988 (RA 2015)	Qualitative
			BS 2874	Qualitative
11.	Copper	Carbon Film Test	BS-EN-1057:2010	Qualitative
12.	Metals & Alloys (Zinc Coated Iron And Steel Product)	Mass of Zinc Coating	IS 6745:1972 (RA 2016) (Loss In Weight)	1.0 g to 500 g/M ² 501 g to 1500 g/M ²
			ASTM A-90: 2018 AS 2331:2.1-2001	1.0 g to 500 g/M ² 501 g to 1500 g/M ²

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
13.	Metals & Alloys (Zinc Coated Iron And Steel Product)	Uniformity Of Zinc Coating	IS 2633:1986 (RA 2016)	Qualitative
			ASTM A-239:2014	Qualitative
14.	Metals & Alloys (Zinc Coated Iron And Steel Product)	Adhesion Test	IS 2629:1985(RA 2016)	Qualitative
C.	ICP-AES Technique			
1.	Iron/Nickel Alloys	Aluminum	SOP No:MSPL/SOP/25A/B Issue:02/27.02.18	0.01 % to 1.5 %
		Chromium	SOP No:MSPL/SOP/25A/B Issue:02/27.02.18	0.015 % to 27.0 %
		Cobalt	SOP No:MSPL/SOP/25A/B Issue:02/27.02.18	0.01 % to 5.0 %
		Copper	SOP No:MSPL/SOP/25A/B Issue:02/27.02.18	0.01 % to 4.00 %
		Iron	SOP No:MSPL/SOP/25A/B Issue:02/27.02.18	0.01 % to 11.0 %
		Manganese	SOP No:MSPL/SOP/25A/B Issue:02/27.02.18	0.01 % to 20 %
		Molybdenum	SOP No:MSPL/SOP/25A/B Issue:02/27.02.18	0.01 % to 35 %
		Nickel	SOP No:MSPL/SOP/25A/B Issue:02/27.02.18	0.01 % to 35.5 % (SS)
		Phosphorus	SOP No:MSPL/SOP/25A/B Issue:02/27.02.18	0.01 % to 0.25 %
		Titanium	SOP No:MSPL/SOP/25A/B Issue:02/27.02.18	0.01 % to 2.0 %

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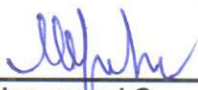
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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Vanadium	SOP No:MSPL/SOP/25A/B Issue:02/27.02.18	0.010 % to 2.0 %
2.	Iron/Nickel Alloys	Calcium	SOP No:MSPL/SOP/25A/B Issue:02/27.02.18	0.0001 % to 0.005 %
		Magnesium	SOP No:MSPL/SOP/25A/B Issue:02/27.02.18	0.0001 % to 0.005 %
		Antimony	SOP No:MSPL/SOP/25A/B Issue:02/27.02.18	0.001 % to 0.10 %
		Tin	SOP No:MSPL/SOP/25A/B Issue:02/27.02.18	0.001 % to 0.050 %
		Arsenic	SOP No:MSPL/SOP/25A/B Issue:02/27.02.18	0.001 % to 0.010 %
		Boron	SOP No:MSPL/SOP/25A/B Issue:02/27.02.18	0.0001 to 0.020
		Zirconium	SOP No:MSPL/SOP/25A/B Issue:02/27.02.18	0.001 to 0.10
		Lead	SOP No:MSPL/SOP/25A/B Issue:02/27.02.18	0.001 to 0.35
		Niobium	SOP No:MSPL/SOP/25A/B Issue:02/27.02.18	0.001 % to 5.35 %
3.	Aluminium Alloys	Chromium	SOP No:MSPL/SOP/25F Issue:02/27.02.18	0.01 % to 0.25 %
		Copper	SOP No:MSPL/SOP/25F Issue:02/27.02.18	0.01 % to 2.50 %
		Iron	SOP No:MSPL/SOP/25F Issue:02/27.02.18	0.01 % to 0.75 %
		Lead	SOP No:MSPL/SOP/25F Issue:02/27.02.18	0.01 % to 0.10 %


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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Magnesium	SOP No:MSPL/SOP/25F Issue:02/27.02.18	0.01 % to 2.70 %
		Manganese	SOP No:MSPL/SOP/25F Issue:02/27.02.18	0.01 % to 1.10 %
		Nickel	SOP No:MSPL/SOP/25F Issue:02/27.02.18	0.01 % to 2.0 %
		Tin	SOP No:MSPL/SOP/25F Issue:02/27.02.18	Up % to 0.05 %
		Titanium	SOP No:MSPL/SOP/25F Issue:02/27.02.18	0.01 % to 0.25 %
		Zinc	SOP No:MSPL/SOP/25F Issue:02/27.02.18	0.01 % to 6.0 %
		Beryllium	SOP No:MSPL/SOP/25F Issue:02/27.02.18	0.0001 % to 0.001 %
		Zirconium	SOP No:MSPL/SOP/25F Issue:02/27.02.18	0.001 % to 0.20 %
		Vanadium	SOP No:MSPL/SOP/25F Issue:02/27.02.18	0.01 % to 0.25 %
		Gallium	SOP No:MSPL/SOP/25F Issue:02/27.02.18	0.0001 % to 0.025 %
		Cadmium	SOP No:MSPL/SOP/25F Issue:02/27.02.18	0.0001 % to 0.025 %
		Bismuth	SOP No:MSPL/SOP/25F Issue:02/27.02.18	0.0001 % to 0.025 %
		Strontium	SOP No:MSPL/SOP/25F Issue:02/27.02.18	0.0001 % to 0.001 %
4.	Copper Alloys	Bismuth	SOP No:MSPL/SOP/25C Issue:02/27.02.18	0.001 % to 0.10 %
		Antimony	SOP No:MSPL/SOP/25C Issue:02/27.02.18	0.001 % to 0.50 %


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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Aluminum	SOP No:MSPL/SOP/25C Issue:02/27.02.18	0.01 % to 11.0 %
		Arsenic	SOP No:MSPL/SOP/25C Issue:02/27.02.18	0.01 % to 0.15 %
		Iron	SOP No:MSPL/SOP/25C Issue:02/27.02.18	0.01 % to 5.00 %
		Lead	SOP No:MSPL/SOP/25C Issue:02/27.02.18	0.001 % to 10.0 %
		Manganese	SOP No:MSPL/SOP/25C Issue:02/27.02.18	0.01 % to 1.50 %
		Nickel	SOP No:MSPL/SOP/25C Issue:02/27.02.18	0.01 % to 35.0 %
		Phosphorus	SOP No:MSPL/SOP/25C Issue:02/27.02.18	0.001 % to 1.0 %
		Tin	SOP No:MSPL/SOP/25C Issue:02/27.02.18	0.001 % to 15.0 %
		Zinc	SOP No:MSPL/SOP/25C Issue:02/27.02.18	0.01 % to 6.0 %
		Cadmium	SOP No:MSPL/SOP/25C Issue:02/27.02.18	0.001 to 0.035
		Magnesium	SOP No:MSPL/SOP/25C Issue:02/27.02.18	0.001 to 0.1
		Selenium	SOP No:MSPL/SOP/25C Issue:02/27.02.18	0.001 to 0.05
		Tellurium	SOP No:MSPL/SOP/25C Issue:02/27.02.18	0.001 to 0.05
5.	Metals & Alloys (Zinc Base)	Aluminum	SOP No:MSPL/SOP/25D Issue:02/27.02.18	0.001 % to 4.5 %
		Copper	SOP No:MSPL/SOP/25D Issue:02/27.02.18	0.001 % to 2.50 %


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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Magnesium	SOP No:MSPL/SOP/25D Issue:02/27.02.18	0.001 % to 0.060 %
		Indium	SOP No:MSPL/SOP/25D Issue:02/27.02.18	0.001 % to 0.005 %
		Lead	SOP No:MSPL/SOP/25D Issue:02/27.02.18	0.001 % to 0.020 %
		Manganese	SOP No:MSPL/SOP/25D Issue:02/27.02.18	0.001 % to 0.010 %
		Nickel	SOP No:MSPL/SOP/25D Issue:02/27.02.18	0.001 % to 0.020 %
		Tin	SOP No:MSPL/SOP/25D Issue:02/27.02.18	0.001 % to 0.010 %
		Antimony	SOP No:MSPL/SOP/25D Issue:02/27.02.18	0.001 % to 0.005 %
		Iron	SOP No:MSPL/SOP/25D Issue:02/27.02.18	0.001 % to 1.00 %
		Cadmium	SOP No:MSPL/SOP/25D Issue:02/27.02.18	0.001 % to 0.010 %
		Thallium	SOP No:MSPL/SOP/25D Issue:02/27.02.18	0.001 % to 0.005 %
		Bismuth	SOP No:MSPL/SOP/25D Issue:02/27.02.18	0.001 % to 0.20 %
		Chromium	SOP No:MSPL/SOP/25D Issue:02/27.02.18	0.0001 % to 0.1 %
		Lead	SOP No:MSPL/SOP/25D Issue:02/27.02.18	0.001 % to 0.020 % 0.020 % to 1.50 %
6.	Metals & Alloys (Lead Base)	Bismuth	SOP No:MSPL/SOP/25E Issue:02/27.02.18	0.01 % to 0.2 %
		Copper	SOP No:MSPL/SOP/25E Issue:02/27.02.18	0.001 % to 0.1 %


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National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory

Metallurgical Services Private Limited, Mehta House, Ashok Silk Mills Lane, Off. L.B.S. Marg, Ghatkopar (W), Mumbai, Maharashtra

Location 1: Mehta House, Ashok Silk Mills Lane, Off. L.B.S. Marg, Ghatkopar (W), Mumbai, Maharashtra

Location 2: 17, A-1, Shiv Shakti Industrial Estate, Off. L.B.S. Marg, Ghatkopar (W), Mumbai, Maharashtra

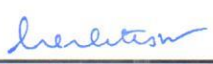
Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7586 (in lieu of T-0135, T-0136 & T-4085) **Page 20 of 49**

Validity 15.07.2018 to 14.07.2020 **Last Amended on --**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Silver	SOP No:MSPL/SOP/25E Issue:02/27.02.18	0.001 % to 0.03 %
		Zinc	SOP No:MSPL/SOP/25E Issue:02/27.02.18	0.001 % to 0.01 %
		Cadmium	SOP No:MSPL/SOP/25E Issue:02/27.02.18	0.001 % to 0.01 %
		Cadmium	SOP No:MSPL/SOP/25E Issue:02/27.02.18	0.001 % to 0.1 %
		Arsenic	SOP No:MSPL/SOP/25E Issue:02/27.02.18	0.001 % to 0.1 %
		Antimony	SOP No:MSPL/SOP/25E Issue:02/27.02.18	0.001 % to 0.1 %
		Tin	SOP No:MSPL/SOP/25E Issue:02/27.02.18	0.001 % to 0.1 %
		Tellurium	SOP No:MSPL/SOP/25E Issue:02/27.02.18	0.001 % to 0.005 %
		Selenium	SOP No:MSPL/SOP/25E Issue:02/27.02.18	0.001 % to 0.005 %
		Aluminum	SOP No:MSPL/SOP/25E Issue:02/27.02.18	0.0001 % to 0.10 %
		Nickel	SOP No:MSPL/SOP/25E Issue:02/27.02.18	0.001 % to 0.10 %
7.	Metals & Alloys (Tin Base)	Bismuth	SOP No:MSPL/SOP/25G Issue:02/27.02.18	0.01 % to 0.20 %
		Copper	SOP No:MSPL/SOP/25G Issue:02/27.02.18	0.001 % to 5 %
		Silver	SOP No:MSPL/SOP/25G Issue:02/27.02.18	0.001 % to 0.03 %
		Zinc	SOP No:MSPL/SOP/25G Issue:02/27.02.18	0.001 % to 0.05 %


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Convenor


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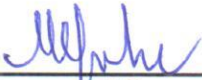
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		Cadmium	SOP No:MSPL/SOP/25G Issue:02/27.02.18	0.001 % to 0.20 %
		Nickel	SOP No:MSPL/SOP/25G Issue:02/27.02.18	0.001 % to 0.20 %
		Iron	SOP No:MSPL/SOP/25G Issue:02/27.02.18	0.001 % to 0.5 %
		Antimony	SOP No:MSPL/SOP/25G Issue:02/27.02.18	0.001 % to 10 %
		Lead	SOP No:MSPL/SOP/25G Issue:02/27.02.18	0.001 % to 3.5 %
		Arsenic	SOP No:MSPL/SOP/25G Issue:02/27.02.18	0.001 % to 0.20 %
8.	Metals & Alloys (Titanium Base)	Aluminum	ASTM E 2371:2013	0.001 % to 8.00 %
		Cobalt	ASTM E 2371:2013	0.001 % to 0.1 %
		Chromium	ASTM E 2371:2013	0.001 % to 0.5 %
		Copper	ASTM E 2371:2013	0.001 % to 0.5 %
		Iron	ASTM E 2371:2013	0.001 % to 0.5 %
		Manganese	ASTM E 2371:2013	0.001 % to 0.1 %
		Molybdenum	ASTM E 2371:2013	0.001 % to 6.0 %
		Nickel	ASTM E 2371:2013	0.001 % to 0.5 %
		Niobium	ASTM E 2371:2013	0.001 % to 6.0 %
		Palladium	ASTM E 2371:2013	0.001 % to 0.20 %
		Ruthenium	ASTM E 2371:2013	0.001 % to 0.5 %
		Silicon	ASTM E 2371:2013	0.001 % to 0.5 %
		Tin	ASTM E 2371:2013	0.01 % to 3.0 %
		Vanadium	ASTM E 2371:2013	0.001 % to 6.0 %
		Yttrium	ASTM E 2371:2013	0.001 to 0.01
		Zirconium	ASTM E 2371:2013	0.001 % to 5.0 %


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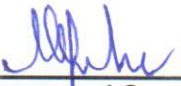
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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Boron	ASTM E 2371:2013	0.0008 % to 0.01 %
		Tungsten	ASTM E 2371:2013	0.001 % to 0.10 %
D.	Gaselement In Metal & Metal Alloys			
1.	Steel, Iron, Nickel & Cobalt Alloys	Carbon	ASTM E 1019-2011 IS 228 pt. 20:2003 (RA 2014)	0.001 % to 4.50 % 0.005 % to 2.00 %
		Sulphur	ASTM E 1019-2011 IS 228 pt. 20:2003 (RA 2014)	0.002 % to 0.24 % 0.001 % to 0.35 %
		Oxygen	ASTM E 1019-2011 IS 228 pt. 18:2003 (RA 2018)	0.001 % to 0.03 %
		Hydrogen	IS 228:2003 (Part 22)	0.50 ppm to 6.0 ppm
		Nitrogen	ASTM E 1019-2011 IS 228 pt. 17:1998 (RA 2016) IS 228 pt. 24:2003 (RA 2008)	0.01 % to 0.2 % 0.001 % to 0.4 %
2.	Copper Alloys	Oxygen	ASTM E 2575-2008	0.0001 to 0.001 0.001 % to 0.055 %
		Sulphur	ASTM E 1019-2011	0.0025 % to 0.11 %
3.	Titanium Alloys	Oxygen	ASTM E 1409-2016	0.01 % to 0.40 %
		Nitrogen	ASTM E 1409-2016	0.003 % to 0.11 %
		Hydrogen	ASTM E 1447-2016	0.0006 % to 0.0260 %
		Carbon	SOP No:MSPL/SOP/35 Issue:02/27.02.18	0.001 % to 0.10 %


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