



Federation for Development of Accreditation Services

CERTIFICATE OF ACCREDITATION **(AS PER ISO/IEC 17025:2017)**

This is to attest that

M/s RAGHAVENDRA SPECTRO METALLURGICAL LABORATORY

Plot No.326, IX Cross, IV Phase, Peenya Industrial Area
Bengaluru-560058, India

Testing Laboratory

has demonstrated compliance with ISO/IEC Standard 17025:2017, General requirements for the competence of testing and calibration laboratories and supplementary criteria for testing laboratories.

Certificate Number: TL-109

Issue Date: 04.04.2023

Valid Until: 03.04.2025

The certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard and the relevant requirements of FDAS (scope of accreditation also displayed at www.fdasindia.org).


DEVI SARAN TEWARI
Director



Federation for Development of Accreditation Services

SCOPE OF ACCREDITATION

Laboratory Name	M/s Raghavendra Spectro Metallurgical Laboratory, Plot No.326, IX Cross, IV Phase, Peenya Industrial, Bengaluru-560058- (India)		
Accreditation Standard	ISO/IEC 17025:2017		
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BIOLOGICAL TESTING

Laboratory based Testing

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
Group: Food & Agricultural Products				
1	Bakery and Confectionary Products/ Herbs, Spices and Condiments/ Cereals, Pulses and Cereal Products/ Milk and Dairy Products	Total Plate Count	IS 5402 2012 RA 2018 IS 5402 p 1 & P 2 2021	—
		Total Yeast and Mould Count	IS 5403 1999 RA 2018	—
		Coliform	IS 5401 P 1 2012 RA 2022	—
		E' Coli	IS 5887 P 1 1976 RA 2022	—
		Salmonella	IS 5887 P 3 1999 RA 2022	—
		Staphylo coccous Aureus	IS 5887 P 2 1976 RA 2018	—
		Shigella	IS 5887 P 7 1999 RA 2022	—
Group: Water				
1	Drinking Water/ Ground Water/ Surface Water	Total Coliform	IS 1622 1981 RA 2019	—
		E' Coli	IS 1622 1981 RA 2019	—

Jitendra Parmar
Dealing Officer



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CHEMICAL TESTING

Laboratory based Testing

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
Group: Metals & Alloys				
1.	Aluminum & its Alloys	Copper	ASTM E 3061: 2017	ICP – OES AVIO 220 Max. Perkin Elmer
		Iron		
		Lead		
		Magnesium		
		Manganese		
		Nickel		
		Tin		
		Titanium		
		Zinc		
2.	Low Alloy Steel	Chromium	RSML/SOP/ICP- OES/01/Rev 00: 2018	ICP – OES AVIO 220 Max. Perkin Elmer
		Copper		
		Molybdenum		
		Nickel		
		Manganese		
		Phosphorous		
		Sulphur		
		Carbon	IS 228 p 1 - 1987	—
		Silicon	IS 228 P 8 1989	—
3.	Copper & its Alloys	Copper	IS 7212 Cl No.5:1974	—
		Lead	RSML/SOP/ICP- OES/03 Rev 00: 2022	ICP – OES AVIO 220 Max. Perkin Elmer
		Tin		
		Zinc		
		Iron		
		Nickel		
		Cobalt		

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CHEMICAL TESTING

Laboratory based Testing

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
		Bismuth		
		Chromium		
		Zirconium		
		Beryllium		
		Arsenic		
		Antimony		
		Tellurium		
		Silver		
4.	Stainless Steel	Carbon	IS 228 Part 1: 1987	—
		Silicon	IS 228 Part 8 : 1989	—
		Chromium	RSML/SOP/ICP- OES/02 Rev 00: 2018	ICP – OES AVIO 220 Max. Perkin Elmer
		Copper		
		Manganese		
		Molybdenum		
		Nickel		
		Phosphorous		
Sulphur				
5.	Tin & its Alloys	Antimony	ASTM F 3139: 2015	ICP – OES AVIO 220 Max. Perkin Elmer
		Bismuth		
		Cadmium		
		Copper		
		Iron		
		Lead		
		Nickel		
		Silver		
Zinc				

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CHEMICAL TESTING

Laboratory based Testing

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
6.	Titanium & Titanium Alloys	Aluminium	ASTM E 2371 : 2013	ICP – OES AVIO 220 Max. Perkin Elmer
		Chromium		
		Cobalt		
		Copper		
		Iron		
		Nickel		
		Vanadium		
7.	Cast Iron	Aluminium	IS 15338:2018 ASTM E 1999:2018 JIS G 1253 : 2002	OES BAIRD Corporation USA ,Model DV-6
		Boron		
		Carbon		
		Silicon		
		Manganese		
		Phosphorus		
		Sulphur		
		Copper		
		Chromium		
		Nickel		
		Cobalt		
		Lead		
		Magnesium		
		Molybdenum		
		Niobium		
Titanium				
Tungsten				
Vanadium				
8.	Aluminum & its Alloys	Aluminum	ASTM E 1251:2017	OES BAIRD Corporation
		Boron		

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S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
		Chromium		USA ,Model DV-6
		Copper		
		Iron		
		Lead		
		Magnesium		
		Manganese		
		Nickel		
		Silicon		
		Tin		
		Titanium		
		Zinc		
9.	Low Alloy Steel	Aluminium	IS 8811:2018 ASTME 415:2017 JIS G 1253:2002	OES BAIRD Corporation USA ,Model DV-6
		Boron		
		Carbon		
		Sulphur		
		Chromium		
		Cobalt		
		Copper		
		Lead		
		Manganese		
		Molybdenum		
		Nickel		
		Niobium		
		Phosphorous		
		Silicon		
		Tin		
		Titanium		

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Laboratory based Testing

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
		Tungsten		
		Vanadium		
		Nitrogen		
10.	Stainless Steel	Aluminium	IS 9879:2015 ASTM E1086:2014 JIS G 1253:2002	OES BAIRD Corporation USA ,Model DV-6
		Boron		
		Carbon		
		Chromium		
		Cobalt		
		Copper		
		Lead		
		Manganese		
		Molybdenum		
		Neobium		
		Nickel		
		Nitrogen		
		Phosphorous		
		Silicon		
		Sulphur		
		Titanium		
		Tungsten		
		Vanadium		
11.	Copper & its Alloys	Aluminum	BS EN 15079:2015	OES BAIRD Corporation USA ,Model DV-6
		Chromium		
		Cobalt		
		Copper	RSML/SOP/Chem/03: 2018	
		Iron	BN EN 15079:2015	

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CHEMICAL TESTING

Laboratory based Testing

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
		Lead		
		Manganese		
		Nickel		
		Phosphorous		
		Silicon		
		Sulphur		
		Tin		
		Zinc		
12.	Nickel & its Alloys	Aluminium	ASTM E 3047: 2016	OES BAIRD Corporation USA ,Model DV-6
		Boron		
		Carbon		
		Chromium		
		Cobalt		
		Copper		
		Iron		
		Lead		
		Magnesium		
		Manganese		
		Molybdenum		
		Neobium		
		Nickel		
		Phosphorous		
		Silicon		
		Sulfur		
		Titanium		
		Tungsten		
		Vanadium		

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CHEMICAL TESTING

Laboratory based Testing

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
		Zirconium		
13.	Tin & its Alloys, Solders	Iron	RSML/SOP/Chem/03: 2019	OES BAIRD Corporation USA ,Model DV-6
		Aluminium		
		Antimony		
		Arsenic		
		Bismuth		
		Cadmium		
		Copper		
		Lead		
		Nickel		
		Silver		
		Tin(We are having SnCRM of 99.99% to analyse Tin)		
Zinc				
14.	Tool Steel	Carbon	JIS G 1253 : 2002	OES BAIRD Corporation USA ,Model DV-6
		Chromium		
		Cobalt		
		Manganese		
		Molybdenum		
		Phosphorous		
		Silicon		
		Sulphur		
		Tungsten		
		Vanadium		
15.	Zinc & Zinc Alloys	Aluminium	ASTME 634:2018	OES BAIRD Corporation USA ,Model DV-6
		Antimony		
		Bismuth		

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Laboratory based Testing

S.No.	Material/Products	Component/Parameter/ Characteristic tested	Test Method	Equipment used
		Cadmium		
		Chromium		
		Copper		
		Iron		
		Lead		
		Magnesium		
		Manganese		
		Nickel		
		Silicon		
		Silver		
		Tin		
		Titanium		
		Zinc		
Group: Plastics & Resins				
1.	Plastics	Identification of Plastics	ASTM E 573:2001 RA 2021 ASTM E 1252 1998 RA 2021	FTIR

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