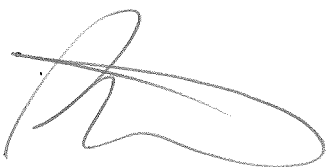
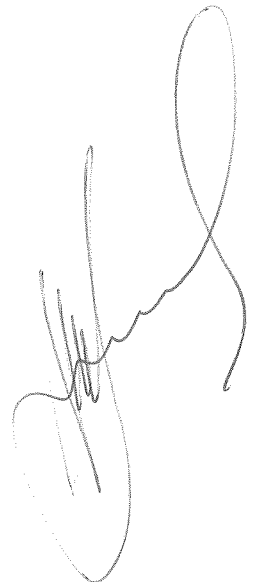


ПРИЛОЖЕНИЕ № 2.3

A handwritten signature in black ink, consisting of a large, stylized initial letter followed by a horizontal stroke and a loop.A handwritten signature in black ink, featuring a large, stylized initial letter followed by a horizontal stroke and a loop.A handwritten signature in black ink, consisting of a large, stylized initial letter followed by a horizontal stroke and a loop.A handwritten signature in black ink, consisting of a large, stylized initial letter followed by a horizontal stroke and a loop.



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SCOPE OF ACCREDITATION

Laboratory Name **INDUSTRIAL DEVELOPMENT & TESTING LABORATORY, 40/107, JAI BIBI ROAD, PLOT NO. 18 & 20, GHUSURI, HOWRAH, WEST BENGAL, INDIA**

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

Certificate Number **TC-8143** Page No. : **1 / 20**

Validity **22/11/2018 to 21/11/2020** Last Amended on **26/11/2018**

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 & Aluminium Alloy	Berilium	ASTM E 1251 - 2017a: 2017	0.0005 % to 0.005 %
2	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Alloy	Iron	ASTM E 1251 - 2017a: 2017	0.05 % to 0.30 %
3	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Alloy	Lead	ASTM E 1251 - 2017a: 2017	0.15 % to 0.30 %
4	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Alloy	Magnesium	ASTM E 1251 - 2017a: 2017	1.20 % to 10.00 %
5	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Alloy	Manganease	ASTM E 1251 - 2017a: 2017	0.20 % to 1.40 %
6	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Alloy	Silicon	ASTM E 1251 - 2017a: 2017	0.010 % to 0.10 %
7	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Alloy	Vanadium	ASTM E 1251 - 2017a: 2017	0.0050 % to 0.030 %
8	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Alloy	Zinc	ASTM E 1251 - 2017a: 2017	0.10 % to 0.20 %
9	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Alloy	Zirconium	ASTM E 1251 - 2017a: 2017	0.0007 % to 0.11 %
10	CHEMICAL- METALS & ALLOYS	ALUMINIUM & ALUMINIUM ALLOYS	Chromium	ASTM E 1251 – 2017a: 2017	0.005 % to 0.035 %
11	CHEMICAL- METALS & ALLOYS	ALUMINIUM & ALUMINIUM ALLOYS	Copper	ASTM E 1251 – 2017a: 2017	0.01 % to 6.50 %
12	CHEMICAL- METALS & ALLOYS	ALUMINIUM & ALUMINIUM ALLOYS	Iron	ASTM E 1251 – 2017a: 2017	0.07 % to 1.20 %
13	CHEMICAL- METALS & ALLOYS	ALUMINIUM & ALUMINIUM ALLOYS	Lead	ASTM E 1251 – 2017a: 2017	0.002 % to 0.27 %
14	CHEMICAL- METALS & ALLOYS	ALUMINIUM & ALUMINIUM ALLOYS	Magnesium	ASTM E 1251 – 2017a: 2017	0.05 % to 10.00 %
15	CHEMICAL- METALS & ALLOYS	ALUMINIUM & ALUMINIUM ALLOYS	Manganese	ASTM E 1251 – 2017a: 2017	0.005 % to 1.40 %

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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
29	CHEMICAL- METALS & ALLOYS	ALUMINIUM & ALUMINIUM BASE ALLOYS	Zinc	IS 504 (Part 4) - 2002 (R.A. 2018): 2002	0.10 % to 7.00 %
30	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	Molybdenum	ASTM E 415 - 2017 & IS 8811 - 1998 (R.A. 2012): 2017	0.01 % to 0.60 %
31	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	Aluminium	ASTM E 415 - 2017 & IS 8811 - 1998 (R.A. 2012): 2017	0.010 % to 0.085 %
32	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	Boron	ASTM E 415 - 2017 & IS 8811 - 1998 (R.A. 2012): 2017	0.0005 % to 0.0012 %
33	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	Chromium	ASTM E 415 - 2017 & IS 8811 - 1998 (R.A. 2012): 2017	0.05 % to 1.50 %
34	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	Cobalt	ASTM E 415 - 2017 & IS 8811 - 1998 (R.A. 2012): 2017	0.003 % to 0.020 %
35	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	Copper	ASTM E 415 - 2017 & IS 8811 - 1998 (R.A. 2012): 2017	0.10 % to 0.35 %
36	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	Manganese	ASTM E 415 - 2017 & IS 8811 - 1998 (R.A. 2012): 2017	0.10 % to 1.65 %
37	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	Nickel	ASTM E 415 - 2017 & IS 8811 - 1998 (R.A. 2012): 2017	0.01 % to 2.00 %
38	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	Niobium	ASTM E 415 - 2017 & IS 8811 - 1998 (R.A. 2012): 2017	0.005 % to 0.050 %
39	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	Nitrogen	IS 228 (Part 23) - 2003 (R.A. 2014): 2003	0.001 % to 0.015 %
40	CHEMICAL- METALS & ALLOYS	CARBON & LOW ALLOY STEEL	Phosphorus	ASTM E415 - 2017 & IS 8811 - 1998 (R.A. 2012): 2017	0.005 % to 0.13 %

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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
55	CHEMICAL- METALS & ALLOYS	Copper & Copper Alloy	Cadmium	BS EN 15079: 2015	0.0016 % to 0.012 %
56	CHEMICAL- METALS & ALLOYS	Copper & Copper Alloy	Chromium	BS EN 15079: 2015	0.004 % to 0.010 %
57	CHEMICAL- METALS & ALLOYS	Copper & Copper Alloy	Cobalt	BS EN 15079: 2015	0.001 % to 0.023 %
58	CHEMICAL- METALS & ALLOYS	Copper & Copper Alloy	Manganese	BS EN 15079: 2015	0.005 % to 0.01 %
59	CHEMICAL- METALS & ALLOYS	Copper & Copper Alloy	Mercurous Nitrate Test	IS 2305 - 1988 (R.A. 2015) Method - A: 1988	Qualitative
60	CHEMICAL- METALS & ALLOYS	Copper & Copper Alloy	Zinc	BS EN 15079: 2015	33.00 % to 48.00 %
61	CHEMICAL- METALS & ALLOYS	COPPER & COPPER ALLOYS	Aluminium	BS EN 15079 - 2015: 2015	0.001 % to 10.50 %
62	CHEMICAL- METALS & ALLOYS	COPPER & COPPER ALLOYS	Antimony	BS EN 15079 - 2015: 2015	0.005 % to 0.15 %
63	CHEMICAL- METALS & ALLOYS	COPPER & COPPER ALLOYS	Arsenic	BS EN 15079 - 2015: 2015	0.005 % to 0.12 %
64	CHEMICAL- METALS & ALLOYS	COPPER & COPPER ALLOYS	Iron	BS EN 15079 - 2015: 2015	0.001 % to 5.00 %
65	CHEMICAL- METALS & ALLOYS	COPPER & COPPER ALLOYS	Lead	BS EN 15079 - 2015: 2015	0.01 % to 5.20 %
66	CHEMICAL- METALS & ALLOYS	COPPER & COPPER ALLOYS	Manganese	BS EN 15079 - 2015: 2015	0.007 % to 0.35 %
67	CHEMICAL- METALS & ALLOYS	COPPER & COPPER ALLOYS	Nickel	BS EN 15079 - 2015: 2015	0.01 % to 5.20 %
68	CHEMICAL- METALS & ALLOYS	COPPER & COPPER ALLOYS	Phosphorus	BS EN 15079 - 2015: 2015	0.005 % to 0.15 %
69	CHEMICAL- METALS & ALLOYS	COPPER & COPPER ALLOYS	Silicon	BS EN 15079 - 2015: 2015	0.001 % to 0.15 %

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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
81	CHEMICAL- METALS & ALLOYS	COPPER AND COPPER BASE ALLOYS	Zinc	IS 3685 - 1966 (R.A. 2012) & IS 4027 (Part 6) - 1987 (R.A. 2012); 1966	0.10 % to 45.00 %
82	CHEMICAL- METALS & ALLOYS	Cr-Cr/Ni STEELS , STAINLESS STEELS / HIGH ALLOY STEEL	Carbon	ASTM E 1086 – 2014 & IS 9879 – 1998 (R.A. 2015); 2014	0.01 % to 0.25 %
83	CHEMICAL- METALS & ALLOYS	Cr-Cr/Ni STEELS , STAINLESS STEELS / HIGH ALLOY STEEL	Chromium	ASTM E 1086 – 2014 & IS 9879 – 1998 (R.A. 2015); 2014	10.50 % to 23.00 %
84	CHEMICAL- METALS & ALLOYS	Cr-Cr/Ni STEELS , STAINLESS STEELS / HIGH ALLOY STEEL	Cobalt	ASTM E 1086 – 2014 & IS 9879 – 1998 (R.A. 2015); 2014	0.01 % to 0.20 %
85	CHEMICAL- METALS & ALLOYS	Cr-Cr/Ni STEELS , STAINLESS STEELS / HIGH ALLOY STEEL	Copper	ASTM E 1086 – 2014 & IS 9879 – 1998 (R.A. 2015); 2014	0.017 % to 0.30 %
86	CHEMICAL- METALS & ALLOYS	Cr-Cr/Ni STEELS , STAINLESS STEELS / HIGH ALLOY STEEL	Manganese	ASTM E 1086 – 2014 & IS 9879 – 1998 (R.A. 2015); 2014	0.10 % to 2.00 %
87	CHEMICAL- METALS & ALLOYS	Cr-Cr/Ni STEELS , STAINLESS STEELS / HIGH ALLOY STEEL	Molybdenum	ASTM E 1086 – 2014 & IS 9879 – 1998 (R.A. 2015); 2014	0.001 % to 4.20 %
88	CHEMICAL- METALS & ALLOYS	Cr-Cr/Ni STEELS , STAINLESS STEELS / HIGH ALLOY STEEL	Nickel	ASTM E 1086 – 2014 & IS 9879 – 1998 (R.A. 2015); 2014	0.22 % to 15.00 %
89	CHEMICAL- METALS & ALLOYS	Cr-Cr/Ni STEELS , STAINLESS STEELS / HIGH ALLOY STEEL	Nitrogen	IS 228 (Part 23) - 2003 (R.A. 2014); 2003	0.02 % to 0.07 %
90	CHEMICAL- METALS & ALLOYS	Cr-Cr/Ni STEELS , STAINLESS STEELS / HIGH ALLOY STEEL	Phosphorus	ASTM E 1086 – 2014 & IS 9879 – 1998 (R.A. 2015); 2014	0.015 % to 0.050 %
91	CHEMICAL- METALS & ALLOYS	Cr-Cr/Ni STEELS , STAINLESS STEELS / HIGH ALLOY STEEL	Silicon	ASTM E 1086 – 2014 & IS 9879 – 1998 (R.A. 2015); 2014	0.10 % to 1.50 %
92	CHEMICAL- METALS & ALLOYS	Cr-Cr/Ni STEELS , STAINLESS STEELS / HIGH ALLOY STEEL	Sulphur	ASTM E 1086 – 2014 & IS 9879 – 1998 (R.A. 2015); 2014	0.010 % to 0.065 %

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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
108	CHEMICAL- METALS & ALLOYS	IRON & STEELS	Nickel	IS 228 (Part 5) - 1987 (R.A. 2014): 1987	0.10 % to 20.00 %
109	CHEMICAL- METALS & ALLOYS	IRON & STEELS	Phosphorus	IS 228 (Part 3) - 1987 (R.A. 2018): 1987	0.01 % to 0.50 %
110	CHEMICAL- METALS & ALLOYS	IRON & STEELS	Silicon	IS 228 (Part 8) - 1989 (R.A. 2014): 1989	0.05 % to 2.50 %
111	CHEMICAL- METALS & ALLOYS	IRON & STEELS	Sulphur	IS 228 (Part 9) - 1989 (R.A. 2014): 1989	0.01 % to 0.25 %
112	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Carbon	ASTM E 415: 2017	0.01 % to 0.10 %
113	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Chromium	ASTM E 415: 2017	0.05 % to 0.10 %
114	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Phosphorus	ASTM E 415: 2017	0.07 % to 0.15 %
115	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Silicon	ASTM E 415: 2017	0.005 % to 0.10 %
116	CHEMICAL- METALS & ALLOYS	Stainless Steel / High Alloy Steel	Chromium	ASTM 1086: 2014	10.50 % to 17.00 %
117	CHEMICAL- METALS & ALLOYS	Stainless Steel / High Alloy Steel	Cobalt	ASTM E 1086: 2014	0.010 % to 0.10 %
118	CHEMICAL- METALS & ALLOYS	Stainless Steel / High Alloy Steel	Copper	ASTM E 1086: 2014	0.010 % to 0.10 %
119	CHEMICAL- METALS & ALLOYS	Stainless Steel / High Alloy Steel	Molybdenum	ASTM E 1086: 2014	0.0010 % to 0.010 %
120	CHEMICAL- METALS & ALLOYS	Stainless Steel / High Alloy Steel	Nickel	ASTM E 1086: 2014	0.10 % to 7.50 %
121	CHEMICAL- METALS & ALLOYS	Stainless Steel / High Alloy Steel	Phosphorus	ASTM E 1086: 2014	0.010 % to 0.015 %
122	CHEMICAL- METALS & ALLOYS	Stainless Steel / High Alloy Steel	Titanium	ASTM E 1086: 2014	0.001 % to 0.70 %

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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
135	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed Paint Primers	Fineness of Grind	IS 101 (Part 3 / Sec. 5) - 1987 (R.A. 2014); 1987	10 Micron to 100 Micron
136	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed Paint Primers	Finish	IS 101 (Part 3 / Sec. 4) - 1987 (R.A. 2014); 1987	Qualitative
137	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed Paint Primers	Flash Point	IS 101 (Part 1 / Sec. 6) - 1987 (R.A. 2014); 1987	10 °C to 45 °C
138	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed Paint Primers	Flexibility & Adhesion	IS 101 (Part 5 / Sec 2) - 1988 (R.A. 2014) , Cl. 1A & 2.2.2: 1988	Qualitative
139	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed Paint Primers	Gloss Vlaue	IS 101 (Part 4 / Sec. 4) - 1988 (R.A. 2017), Cl. 2.3: 1988	0 to 100
140	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed Paint Primers	Impact Resistance	ASTM D 2794 - 1993 (2010) , ISO 6272 - 1 : 2011: 1993	Qualitative
141	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed Paint Primers	Mass in Kg / 10 lts.	IS 101 (Part 1 / Sec. 7) - 1987 (R.A. 2014) , Cl. 3.1: 1987	1 Kg to 50 Kg
142	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed Paint Primers	Pigment Content & Non Volatile Matter by Mass	IS 101 (Part 8 / Sec. 2) - 1990 (R.A. 2017); 1990	1 % to 85 %
143	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed Paint Primers	Pressure Test	IS 101 (Part 5 / Sec. 1) - 1988 (R.A. 2014) , Cl. 1D & 5: 1988	Qualitative
144	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed Paint Primers	Protection Against Corrosion Under Conditions of Condensation / Salt Spray (Durability)	IS : 101 (Part 6 / Sec. 1) - 1988 (R.A. 2015); 1988	Qualitative
145	CHEMICAL- PAINTS & SURFACE COATING	Ready Mixed Paint Primers	Resistance to Liquids	IS 101 (Part 7 / Sec. 2) - 1990 (R.A. 2015); 1990	Qualitative

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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
156	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials	Tensile Test (0.2%Proof Stress)	ISO 6892 Part-1-2017& ASTM A-370 -17a, IS 1608 -Part-1: 2018	20 Mpa to 1000 Mpa
157	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials	Tensile Test (Breaking Load)	IS 1608 - 2005 (R.A. 2017) , IS 1367 (Part 3) - 2017 , ISO 6892 - 1 : 2009 & ASTM A-370 - 2017a: 2005	12 kN to 600 kN
158	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials	Tensile Test (UTS)	ISO 6892-1:2016 & ASTM A - 370 - 17a, IS 1608 - Part-1: 2018	60 Mpa to 3000 Mpa
159	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Materials	Tensile Test (Yield strength)	IS 1608 -Part-1-2018 , ISO 6892 -Part-1 : 2016& ASTM A-370 - 17a: 2017	80 N/mm ² to 1200 N/mm ²
160	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metals & Alloys	Vickers Hardness Test	IS:1501 (Pt.1)-2013, IS:12783-1983 (R.A. 2009), BS EN ISO 6507-1:2005, ISO 9051-1:2011 & ASTM E92-2017: 2013	40 HV1,5,10,30 to 1000 HV1,5,10,30
161	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-Ferrous Materials	Tensile Test , Y.S., 0.2%Proof Stress UTS & Breaking Load	ISO 6892-1:2016 & ASTM A 370 - 17a, IS : 1608 - Part-1: 2018	0.1 N/mm ² to 10 N/mm ²
162	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous metal fittings & MS Hardware Fittings / Locking Devices / GI Stay Set, L.T. Pin	Slip Strength Test & Visual Examination	IS 2486 (Part 1) - 1993 (R.A. 2013) , IS 2486 (Part 2) - 1989 (R.A. 2014) , IS 7935 - 1975 (R.A. 2016) & BS 3288 (Part 1): 2014	12 kN to 600 kN
163	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Galvanized Steel Wire	Adhesion Test	IS : 4826 - 1979 (R.A. 2016) , IS : 12753 - 1989 (R.A. 2016) : 1979	Qualitative

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