National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	CONTROLLERATE OF QUALITY ASSURANCE (METALS), ICHAPUR, NAWABGANJ P.O., 24 PARGANAS (N), WEST BENGAL, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6029	**Page No**	1 of 6
Validity	03/06/2022 to 02/06/2024	**Last Amended on**	01/07/2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Surface Treated Components	Mass of Phosphate coating	JSS 0465 01
2	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Surface Treated Components	Mass of Tin coating	IS 1327
3	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Surface Treated Components	Salt Droplet Test	JSS 0465 01
4	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Alloys	Manganese	IS 504(Pt 5)
5	CHEMICAL- METALS & ALLOYS	Copper Nickel Alloy	Iron	IS 3187
6	CHEMICAL- METALS & ALLOYS	Copper Nickel Alloy	Nickel	IS 3187
7	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Alloys	Copper	IS 504(Pt 3)
8	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Alloys	Iron	IS 504(Pt 2)
9	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Alloys	Silicon	IS 504(Pt 1)
10	CHEMICAL- METALS & ALLOYS	Aluminium & Aluminium Alloys	Zinc	IS 504(Pt 4)
11	CHEMICAL- METALS & ALLOYS	Brass	Copper	IS 3685
12	CHEMICAL- METALS & ALLOYS	Brass	Iron	IS 3685
13	CHEMICAL- METALS & ALLOYS	Brass	Lead	IS 3685
14	CHEMICAL- METALS & ALLOYS	Brass	Manganese	IS 3685
15	CHEMICAL- METALS & ALLOYS	Brass	Nickel	IS 3685
16	CHEMICAL- METALS & ALLOYS	Brass	Phosphorus	IS 3685
17	CHEMICAL- METALS & ALLOYS	Brass	Tin	IS 3685

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18	CHEMICAL- METALS & ALLOYS	Bronze	Copper	IS 4027(Pt 1)
19	CHEMICAL- METALS & ALLOYS	Bronze	Iron	IS 4027(Pt 8)
20	CHEMICAL- METALS & ALLOYS	Bronze	Lead	IS 4027(Pt 1)
21	CHEMICAL- METALS & ALLOYS	Bronze	Phosphorous	IS 4027(Pt 3)
22	CHEMICAL- METALS & ALLOYS	Bronze	Silicon	IS 4027(Pt 10)
23	CHEMICAL- METALS & ALLOYS	Bronze	Zinc	IS 4027(Pt 6)
24	CHEMICAL- METALS & ALLOYS	Cartridge Brass	Mercurous Nitrate Test	IS 2305
25	CHEMICAL- METALS & ALLOYS	Cast Iron	Manganese	IS 12308(Pt 10)
26	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	IS 12308(Pt 5)
27	CHEMICAL- METALS & ALLOYS	Cast Iron	Silicon	IS 12308 (Pt 6)
28	CHEMICAL- METALS & ALLOYS	Cast Iron	Total Carbon	ASTM E 1019 Method A
29	CHEMICAL- METALS & ALLOYS	Copper Nickel Alloy	Copper	IS 3187
30	CHEMICAL- METALS & ALLOYS	Plain Carbon & Alloy steel	Carbon	ASTM E 1019 Method A
31	CHEMICAL- METALS & ALLOYS	Plain carbon & Alloy steel	Cobalt	CQA(MET)/LAB/CHEM/TP/001(Co)
32	CHEMICAL- METALS & ALLOYS	Plain carbon & Alloy steel	Copper	IS 228(Pt 15)
33	CHEMICAL- METALS & ALLOYS	Plain carbon & Alloy steel	Silicon	IS 228(Pt 8)
34	CHEMICAL- METALS & ALLOYS	Plain carbon & Alloy steel	Tungsten	CQA(MET)/LAB/CHEM/TP/001(W)
35	CHEMICAL- METALS & ALLOYS	Plain carbon & Alloy steel	Vanadium	CQA(MET)/LAB/CHEM/TP/001(V)
36	CHEMICAL- METALS & ALLOYS	Plain Carbon & Alloy steels	Manganese	IS 228(Pt 2)

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37	CHEMICAL- METALS & ALLOYS	Plain Carbon & Alloy steels	Nickel	IS 228 (Pt 5)
38	CHEMICAL- METALS & ALLOYS	Plain Carbon & Alloy steels	Phosphorus	IS 228(Pt 3)
39	CHEMICAL- METALS & ALLOYS	Zinc Base Alloy	Aluminium	BS EN 12441-1
40	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous metals & Alloys	Rockwell superficial Hardness Test –HR45N	IS 1586 (Pt 1)
41	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non- Ferrous metals & Alloys	Tensile Test - UTS	IS 1608 (Pt-1)
42	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non- Ferrous metals & Alloys	Tensile Test - % Elongation	IS 1608(Pt-1)
43	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous metals & Alloys	Bend Test	IS 1599
44	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous metals & Alloys	Brinell Hardness Test - (10mm/29.4)	IS 1500 (Pt 1)
45	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous metals & Alloys	Charpy Impact Test(U - Notch at Ambient Temp & Sub Zero Temp up to -50 Degree C))	IS 1499
46	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous metals & Alloys	Compression Test	JSS 9510-1
47	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous metals & Alloys	Flattening Test	IS 2328
48	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous metals & Alloys	Izod Impact Test	IS 1598
49	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous metals & Alloys	Micro Vickers Hardness Test-HV0.1kg	IS 1501(Pt 1)
50	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous metals & Alloys	Micro Vickers Hardness Test-HV0.5kg	IS 1501(Pt 1)

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51	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous metals & Alloys	Micro Vickers Hardness Test-HV1kg	IS 1501(Pt 1)
52	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous metals & Alloys	Rockwell Hardness Test - HRA	IS 1586 (Pt 1)
53	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous metals & Alloys	Rockwell Hardness Test –HRBw	IS 1586 (Pt 1)
54	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous metals & Alloys	Rockwell Hardness Test –HRC	IS 1586 (Pt 1)
55	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous metals & Alloys	Rockwell superficial Hardness Test –HR15N	IS 1586 (Pt 1)
56	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous metals & Alloys	Rockwell superficial Hardness Test –HR15Tw	IS 1586 (Pt 1)
57	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous metals & Alloys	Rockwell superficial Hardness Test –HR30N	IS 1586 (Pt 1)
58	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous metals & Alloys	Rockwell superficial Hardness Test –HR30Tw	IS 1586 (Pt 1)
59	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous metals & Alloys	Rockwell superficial Hardness Test –HR45TW	IS 1586 (Pt 1)
60	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous metals & Alloys	Tensile Test - Proof stress	IS 1608(Pt-1)
61	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous metals & Alloys	Tensile Test - Reduction of Area	IS 1608(Pt-1)
62	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous metals & Alloys	Tensile Test - Yield Strength	IS 1608(Pt-1)
63	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous metals & Alloys	Torsion Test	IS 1717
64	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous metals & Alloys	Vickers Hardness Test - HV10kg	IS 1501 (Pt 1)

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65	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous metals & Alloys	Vickers Hardness Test - HV1kg	IS 1501(Pt 1)
66	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous metals & Alloys	Vickers Hardness Test - HV30kg	IS 1501 (Pt 1)
67	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous metals & Alloys	Vickers Hardness Test - HV5kg	IS 1501(Pt 1)
68	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous & Non-ferrous metals & Alloys	Wrapping Test	IS 1755
69	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non-ferrous metals & Alloys	Grain Size	ASTM E 112
70	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non-ferrous metals & Alloys (Metallic coatings)	Coating Thickness	ASTM B 487
71	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non-ferrous metals & Alloys	Coating Thickness	IS 3203
72	MECHANICAL-METALLOGRAPHY TEST	Ferrous & Non-ferrous metals & Alloys	Microstructural Examination	CQAM/MET/WI/03
73	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials Alloys & Products	Grain Size	GOST 5639
74	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials Alloys & Products	Inclusion rating	ASTM E 45
75	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials Alloys & Products	Inclusion rating	GOST -1778
76	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials Alloys & Products	Macrostructural Examination	GOST-10243
77	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials Alloys & Products	Macrostructural Examination	IS 11371
78	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials Alloys & Products	Inclusion rating	IS 4163
79	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Depth of decarburization layer	ASTM E 1077-14
80	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Case Depth	IS 6416
81	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Depth of decarburization layer	IS 6396

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82	MECHANICAL-METALLOGRAPHY TEST	Ferrous metals, alloys and products	Grain Size	IS 4748
83	MECHANICAL-METALLOGRAPHY TEST	Ferrous metals, alloys and products	Macrostructural Examination	IS 13015
84	MECHANICAL-METALLOGRAPHY TEST	Ferrous metals, alloys and products	Macrostructural Examination	ASTM E 381
85	MECHANICAL-METALLOGRAPHY TEST	Non-ferrous metals & Alloys	Macrostructural Examination	IS 12573
86	NON-DESTRUCTIVE-METALS & ALLOYS	Castings (ferrous & non- ferrous) & Weldings.	Radiography Test by X-ray	IS 2595
87	NON-DESTRUCTIVE-METALS & ALLOYS	Ferro-magnetic materials, Investment castings, Steel Round & Square	Magnetic Particle Test- Wet & Dry (Non-Fluorescent) technique	ASTM E 709
88	NON-DESTRUCTIVE-METALS & ALLOYS	Ferro-magnetic materials, Investment castings, Steel Round & Square	Magnetic Particle Test- Wet & Dry (Non-Fluorescent) technique	IS 3703