National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : RAIPUR METALLURGICAL LAB, VILLAGE JARWAH, BANA GUMA ROAD, HIRAPUR, RAIPUR, CHHATTISGARH, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 29/09/2022 to 28/09/2024 **Last Amended on** 30/09/2022

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- METALS & ALLOYS	Stainless steel	Carbon	ASTM E 1086
2	CHEMICAL- METALS & ALLOYS	Stainless steel	carbon	IS 9879
3	CHEMICAL- METALS & ALLOYS	Stainless steel	Chromium	ASTM E 1086
4	CHEMICAL- METALS & ALLOYS	Stainless steel	chromium	IS 9879
5	CHEMICAL- METALS & ALLOYS	Stainless steel	Copper	IS 9879
6	CHEMICAL- METALS & ALLOYS	Stainless steel	Manganese	ASTM E 1086
7	CHEMICAL- METALS & ALLOYS	Stainless steel	Manganese	IS 9879
8	CHEMICAL- METALS & ALLOYS	Stainless steel	Molybdenum	ASTM E 1086
9	CHEMICAL- METALS & ALLOYS	Stainless steel	Molybdenum	IS 9879
10	CHEMICAL- METALS & ALLOYS	Stainless steel	Nickel	ASTM E 1086
11	CHEMICAL- METALS & ALLOYS	Stainless steel	Nickel	IS 9879
12	CHEMICAL- METALS & ALLOYS	Stainless steel	Phosphorus	ASTM E 1086
13	CHEMICAL- METALS & ALLOYS	Stainless steel	Phosphorus	IS 9879
14	CHEMICAL- METALS & ALLOYS	Stainless steel	Silicon	ASTM E 1086
15	CHEMICAL- METALS & ALLOYS	Stainless steel	Silicon	IS 9879
16	CHEMICAL- METALS & ALLOYS	Stainless steel	Sulphur	ASTM E 1086
17	CHEMICAL- METALS & ALLOYS	Stainless steel	sulphur	IS 9879
18	CHEMICAL- METALS & ALLOYS	Carbon steel (low carbon, medium carbon & high carbon steel)	Molybdenum	IS 8811

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19	CHEMICAL- METALS & ALLOYS	Carbon steel(low carbon, medium carbon & high carbon steel)	Aluminium	ASTM E 415
20	CHEMICAL- METALS & ALLOYS	Carbon steel(low carbon, medium carbon & high carbon steel)	Aluminium	IS 8811
21	CHEMICAL- METALS & ALLOYS	Carbon steel(low carbon, medium carbon & high carbon steel)	Boron	IS 8811
22	CHEMICAL- METALS & ALLOYS	Carbon steel(low carbon, medium carbon & high carbon steel)	Carbon	ASTM E 415
23	CHEMICAL- METALS & ALLOYS	Carbon steel(low carbon, medium carbon & high carbon steel)	Carbon	IS 8811
24	CHEMICAL- METALS & ALLOYS	Carbon steel(low carbon, medium carbon & high carbon steel)	Chromium	ASTM E 415
25	CHEMICAL- METALS & ALLOYS	Carbon steel(low carbon, medium carbon & high carbon steel)	Chromium	IS 8811
26	CHEMICAL- METALS & ALLOYS	Carbon steel(low carbon, medium carbon & high carbon steel)	Cobalt	ASTM E 415
27	CHEMICAL- METALS & ALLOYS	Carbon steel(low carbon, medium carbon & high carbon steel)	Cobalt	Is 8811
28	CHEMICAL- METALS & ALLOYS	Carbon steel(low carbon, medium carbon & high carbon steel)	Copper	ASTM E 415
29	CHEMICAL- METALS & ALLOYS	Carbon steel(low carbon, medium carbon & high carbon steel)	Copper	IS 8811
30	CHEMICAL- METALS & ALLOYS	Carbon steel(low carbon, medium carbon & high carbon steel)	Manganese	ASTM E-415
31	CHEMICAL- METALS & ALLOYS	Carbon steel(low carbon, medium carbon & high carbon steel)	manganese	IS 8811
32	CHEMICAL- METALS & ALLOYS	Carbon steel(low carbon, medium carbon & high carbon steel)	Molybdenum	ASTM E 415
33	CHEMICAL- METALS & ALLOYS	Carbon steel(low carbon, medium carbon & high carbon steel)	Nickel	ASTM E 415
34	CHEMICAL- METALS & ALLOYS	Carbon steel(low carbon, medium carbon & high carbon steel)	Nickel	IS 8811
35	CHEMICAL- METALS & ALLOYS	Carbon steel(low carbon, medium carbon & high carbon steel)	Niobium	IS 8811
36	CHEMICAL- METALS & ALLOYS	Carbon steel(low carbon, medium carbon & high carbon steel)	phosphorus	IS 8811
37	CHEMICAL- METALS & ALLOYS	Carbon steel(low carbon, medium carbon & high carbon steel)	Phospohrus	ASTM E 415

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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
38	CHEMICAL- METALS & ALLOYS	Carbon steel(low carbon, medium carbon & high carbon steel)	Silicon	ASTM E 415
39	CHEMICAL- METALS & ALLOYS	Carbon steel(low carbon, medium carbon & high carbon steel)	Silicon	IS 8811
40	CHEMICAL- METALS & ALLOYS	Carbon steel(low carbon, medium carbon & high carbon steel)	Sulphur	ASTM E 415
41	CHEMICAL- METALS & ALLOYS	Carbon steel(low carbon, medium carbon & high carbon steel)	Sulphur	IS 8811
42	CHEMICAL- METALS & ALLOYS	Carbon steel(low carbon, medium carbon & high carbon steel)	Titanium	IS 8811
43	CHEMICAL- METALS & ALLOYS	Carbon steel(low carbon, medium carbon & high carbon steel)	Vanadium	IS 8811
44	CHEMICAL- METALS & ALLOYS	Carbon Steel(low carbon, medium carbon , high carbon steel	Boron	ASTM E 415
45	CHEMICAL- METALS & ALLOYS	Carbon Steel(low carbon, medium carbon , high carbon steel	Niobium	ASTM E 415
46	CHEMICAL- METALS & ALLOYS	Carbon Steel(low carbon, medium carbon , high carbon steel	Titanium	ASTM E 415
47	CHEMICAL- METALS & ALLOYS	Carbon Steel(low carbon, medium carbon , high carbon steel	Vanadium	ASTM E 415
48	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E 1086
49	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Cubes	Compressive Strength	IS 516
50	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Cubes	Compressive Strength	IS 516 :Part 1 Sec 1
51	MECHANICAL- BUILDINGS MATERIALS	Cement(OPC,PPC,PSC)	Consistency %	IS 4031 Part 4
52	MECHANICAL- BUILDINGS MATERIALS	Cement(OPC,PPC,PSC)	Compressive Strength	IS 4031 Part 6
53	MECHANICAL- BUILDINGS MATERIALS	Cement(OPC,PPC,PSC)	Initial Setting Time	IS 4031 Part 5
54	MECHANICAL- BUILDINGS MATERIALS	Cement(OPC,PPC,PSC)	Soundness(AutoClave)	IS 4031 Part 3
55	MECHANICAL- BUILDINGS MATERIALS	Cement(OPC/PPC/PSC)	Final Setting Time	IS 4031 Part 5
56	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10% Fines Value	IS 2386 Part4

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57	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 Part-4
58	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 Part 1
59	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 Part 1
60	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 Part 4
61	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis (63 mm to 4.75 mm)	IS 2386 Part1
62	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 part-3
63	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2836 Part 3
64	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Los Angles Abrasion	IS 2386 Part 4
65	MECHANICAL- BUILDINGS MATERIALS	Common Brunt Clay Building Bricks	Efflorescence	IS 3495 Part 3
66	MECHANICAL- BUILDINGS MATERIALS	Common Burnt Clay Building Bricks	Compressive Strength	IS 3495 Part 1
67	MECHANICAL- BUILDINGS MATERIALS	Common Burnt Clay Building Bricks	Water Absorption	IS 3495 Part2
68	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 part 3
69	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 Part3
70	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 part3
71	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate Testing	Sieve Analysis (4.75 mm to 0.075 mm)	IS 2386 part 1
72	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Product	% Elongation	IS 1608-Part 1
73	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Product	% Reduction Area	IS 1608-Part 1
74	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Product	Bend Test	ASTM A 370

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75	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Product	Bend Test	IS 1599
76	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Product	Brinell Hardness (Dia/Force:5/750)	IS 1500 Part 1
77	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Product	Brinell Hardness (Dia/Force:10/3000)	IS 1500 Part 1
78	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Product	CHARPY IMPACT(V-NOTCH) Temperature Ambient to (-) 50° C	ISO 148-1
79	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Product	CHARPY IMPACT(V-NOTCH) Temperature Ambient to (-) 50° C	IS 1757-Part1
80	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Product	Re-Bend Test	IS 1786-2008
81	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Product	Rockwell Hardness Test HRBW	ISO 6508-1
82	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Product	Rockwell Hardness Test HRC	IS 1586 Part 1
83	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material, Alloys & Product	Rockwell Hardness Test HRC	ISO 6508-1
84	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous material, alloys & product	Ultimate Tensile Strength	ASTM A370
85	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous material, alloys & products	Yield Stress	ASTM A 370
86	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & Product	0.2 % Proof stress	IS 1608-Part 1
87	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	% Elongation	ASTM A 370
88	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & Products	% Reduction Area	ASTM A 370

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89	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	%Elongation	IS 1608-Part 1
90	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	0.2 % Proof stress	ASTM A 370
91	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Yield stress	IS 1608 - Part 1
92	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Ultimate Tensile Strength	IS 1608-Part1
93	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals Welded Coupons	Root Bend, Face Bend, Side Bend	ASME Sec IX
94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals Welded Coupons	Tensile Strength	ASME Sec IX
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metals Welded Coupons	Ultimate Tensile Strength	AWS D1.1
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Tubes & Pipe	Flattening Test	ASTM A 370
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Tubes & Pipe	Flattening Test	IS 2328
98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, Metals &Alloys Bolt &Screws	Proof load	IS 1367 Part 3
99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous, Metals &Alloys Bolt &Screws	Proof Load	IS 1367 -Part 6
100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Galvanized Iron Strips, Structural Steels, Round bars, wires, pipes and tubes	Mass of Zinc Coating	IS 6745-
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals & Alloys	% Elongation	ISO 6892 Part 1
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals & Alloys	% Reduction area	ISO 6892-1

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103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals & Alloys	Ultimate Tensile Strength	ISO 6892-1
104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals & Alloys	Yield Stress	ISO 6892-1
105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals, Alloys & Product	Rockwell Hardness Test HRBW	IS 1586 part 1
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals,Alloys & Products	Vicker Hardness HV 10	IS 1501 Part 1
107	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals,Alloys & Products	Vicker Hardness HV 30	IS 1501 Part 1
108	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforced steel bars / wires	Mass/Meter	IS 1786
109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel	Mass/Meter, Dimensions	IS 808
110	MECHANICAL- SOIL AND ROCK	Soil	CBR	IS 2720 Part 16
111	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 Part 40
112	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (4.75 mm to 0.075 mm)	IS 2720 Part 4
113	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (as % OMC)	IS 2720 Part 8
114	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (as g/cc MDD)	IS 2720 Part 8
115	MECHANICAL- SOIL AND ROCK	SOIL	Light Compaction (as % OMC)	IS 2720 Part 7
116	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (as g/cc MDD)	IS 2720 Part 7
117	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 Part 5, clause 5.0
118	MECHANICAL- SOIL AND ROCK	Soil	Moisture Content	IS 2720- Part 2

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119	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 Part 5