National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : P. P. METALLURGICAL LABORATORY (TESTING LABORATORY), 221 KALI TEMPLE ROAD, P.O.-BALTIKURI, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

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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
Permanent Facility				
1	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	ZINC COATED IRONS & STEEL ARTICLES	ADHESION TEST	IS 2629
2	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	ZINC COATED IRONS & STEEL ARTICLES	MASS OF ZINC COATING	IS 6745
3	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	ZINC COATED IRONS & STEEL ARTICLES	THICKNESS OF COATING	IS 6012
4	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	ZINC COATED IRONS & STEEL ARTICLES	UNIFORMITY OF COATING	IS 2633
5	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys Bars, Rods, Sections, Plates, Sheets, Strips, Drawn Tubes, Wires, Rivet Stocks	CHROMIUM	ASTM E1251
6	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys Bars, Rods, Sections, Plates, Sheets, Strips, Drawn Tubes, Wires, Rivet Stocks	COPPER	ASTM E1251
7	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys Bars, Rods, Sections, Plates, Sheets, Strips, Drawn Tubes, Wires, Rivet Stocks	COPPER	IS 504 (PART 3) CLAUSE 6
8	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys Bars, Rods, Sections, Plates, Sheets, Strips, Drawn Tubes, Wires, Rivet Stocks	IRON	ASTM E1251
9	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys Bars, Rods, Sections, Plates, Sheets, Strips, Drawn Tubes, Wires, Rivet Stocks	IRON	IS 504(PART 2) CLAUSE 6
10	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys Bars, Rods, Sections, Plates, Sheets, Strips, Drawn Tubes, Wires, Rivet Stocks	LEAD	ASTM E1251
11	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys Bars, Rods, Sections, Plates, Sheets, Strips, Drawn Tubes, Wires, Rivet Stocks	LEAD	IS 504 (PART 1) CLAUSE 8
12	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys Bars, Rods, Sections, Plates, Sheets, Strips, Drawn Tubes, Wires, Rivet Stocks	MAGNESIUM	ASTM E1251
13	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys Bars, Rods, Sections, Plates, Sheets, Strips, Drawn Tubes, Wires, Rivet Stocks	MAGNESIUM	IS 504 (PART 6 CLAUSE 5
14	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys Bars, Rods, Sections, Plates, Sheets, Strips, Drawn Tubes, Wires, Rivet Stocks	MANGANESE	ASTM E1251
15	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys Bars, Rods, Sections, Plates, Sheets, Strips, Drawn Tubes, Wires, Rivet Stocks	MANGANESE	IS 504(PART 5) CLAUSE 5
16	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys Bars, Rods, Sections, Plates, Sheets, Strips, Drawn Tubes, Wires, Rivet Stocks	NICKEL	ASTM E1251
17	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys Bars, Rods, Sections, Plates, Sheets, Strips, Drawn Tubes, Wires, Rivet Stocks	NICKEL	IS 504 (PART 7) CLAUSE 5

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18	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys Bars, Rods, Sections, Plates, Sheets, Strips, Drawn Tubes, Wires, Rivet Stocks	SILICON	ASTM E1251
19	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys Bars, Rods, Sections, Plates, Sheets, Strips, Drawn Tubes, Wires, Rivet Stocks	SILICON	IS 504(PART 1) CLAUSE 7
20	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys Bars, Rods, Sections, Plates, Sheets, Strips, Drawn Tubes, Wires, Rivet Stocks	TITANIUM	ASTM E1251
21	CHEMICAL- METALS & ALLOYS	Aluminium & Its Alloys Bars, Rods, Sections, Plates, Sheets, Strips, Drawn Tubes, Wires, Rivet Stocks	ZINC	ASTM E1251
22	CHEMICAL- METALS & ALLOYS	CAST IRON & PIG IRON	CHROMIUM	IS 12308 (PART 8)
23	CHEMICAL- METALS & ALLOYS	CAST IRON & PIG IRON	NICKEL	IS 12308 (PART 7)
24	CHEMICAL- METALS & ALLOYS	CAST IRON & PIG IRON	PHOSPHORUS	IS 12308 (PART 5)
25	CHEMICAL- METALS & ALLOYS	CAST IRON & PIG IRON	SILICON	IS 12308 (PART 6)
26	CHEMICAL- METALS & ALLOYS	CAST IRON & PIG IRON	SULPHUR	IS 12308 (PART 2)
27	CHEMICAL- METALS & ALLOYS	CAST IRON & PIG IRON	TOTAL CARBON	IS 12308 (PART 11)
28	CHEMICAL- METALS & ALLOYS	CAST IRON AND PIG IRON	MANGANESE	IS 12308 (PART 10)
29	CHEMICAL- METALS & ALLOYS	COPPER & COPPER BASE ALLOYS	COPPER	IS 3187 CLAUSE 4
30	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys Sheets, Strips, Foil, Bolt, Stud, Screw	COPPER	IS 3685 CLAUSE 5
31	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys Sheets, Strips, Foil, Bolt, Stud, Screw	COPPER	IS 4027 (PART 1) CLAUSE 4
32	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys Sheets, Strips, Foil, Bolt, Stud, Screw	COPPER	IS 440 CLAUSE 4
33	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys Sheets, Strips, Foil, Bolt, Stud, Screw	COPPER	IS 7212 CLAUSE 5
34	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys Sheets, Strips, Foil, Bolt, Stud, Screw	IRON	IS 3187 CLAUSE 6
35	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys Sheets, Strips, Foil, Bolt, Stud, Screw	IRON	IS 3685 CLAUSE 10.3
36	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys Sheets, Strips, Foil, Bolt, Stud, Screw	IRON	IS 4027(PART 8) CLAUSE 5

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37	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys Sheets, Strips, Foil, Bolt, Stud, Screw	IRON	IS 440 CLAUSE 8.3
38	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys Sheets, Strips, Foil, Bolt, Stud, Screw	LEAD	IS 3187 CLAUSE 4
39	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys Sheets, Strips, Foil, Bolt, Stud, Screw	LEAD	IS 3685 CLAUSE 5
40	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys Sheets, Strips, Foil, Bolt, Stud, Screw	LEAD	IS 4027 (PART-1) CLAUSE 4
41	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys Sheets, Strips, Foil, Bolt, Stud, Screw	MANGANESE	IS 3187 CLAUSE 7
42	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys Sheets, Strips, Foil, Bolt, Stud, Screw	NICKEL	IS 3187 CLAUSE 5
43	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys Sheets, Strips, Foil, Bolt, Stud, Screw	NICKEL	IS 3685 CLAUSE 9
44	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys Sheets, Strips, Foil, Bolt, Stud, Screw	NICKEL	IS 440 CLAUSE 10
45	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys Sheets, Strips, Foil, Bolt, Stud, Screw	PHOSPHORUS	IS 3685 CLAUSE 8
46	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys Sheets, Strips, Foil, Bolt, Stud, Screw	PHOSPHORUS	IS 4027 (PART 3) CLAUSE 4
47	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys Sheets, Strips, Foil, Bolt, Stud, Screw	PHOSPHORUS	IS 440 CLAUSE 15
48	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys Sheets, Strips, Foil, Bolt, Stud, Screw	SILICON	IS 3685 CLAUSE 11
49	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys Sheets, Strips, Foil, Bolt, Stud, Screw	SILICON	IS 4027 (PART 10)
50	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys Sheets, Strips, Foil, Bolt, Stud, Screw	TIN	IS 3685 CLAUSE 6
51	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys Sheets, Strips, Foil, Bolt, Stud, Screw	TIN	IS 4027(PART 5) CLAUSE 5
52	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys Sheets, Strips, Foil, Bolt, Stud, Screw	Tin	IS 440 CLAUSE 14
53	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys Sheets, Strips, Foil, Bolt, Stud, Screw	ZINC	IS 3187 CLAUSE 8
54	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys Sheets, Strips, Foil, Bolt, Stud, Screw	ZINC	IS 3685 CLAUSE 13
55	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys Sheets, Strips, Foil, Bolt, Stud, Screw	ZINC	IS 4027 (PART 6)

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56	CHEMICAL- METALS & ALLOYS	PLAIN CARBON AND LOW ALLOY STEELS	ALUMINIUM	IS 8811
57	CHEMICAL- METALS & ALLOYS	PLAIN CARBON AND LOW ALLOY STEELS	CARBON	IS 228 (PART 1)
58	CHEMICAL- METALS & ALLOYS	PLAIN CARBON AND LOW ALLOY STEELS	CARBON	IS 8811
59	CHEMICAL- METALS & ALLOYS	PLAIN CARBON AND LOW ALLOY STEELS	CHROMIUM	IS 228 (PART 6)
60	CHEMICAL- METALS & ALLOYS	PLAIN CARBON AND LOW ALLOY STEELS	CHROMIUM	IS 8811
61	CHEMICAL- METALS & ALLOYS	PLAIN CARBON AND LOW ALLOY STEELS	COPPER	IS 8811
62	CHEMICAL- METALS & ALLOYS	PLAIN CARBON AND LOW ALLOY STEELS	MANGANESE	IS 228 (PART 2)
63	CHEMICAL- METALS & ALLOYS	PLAIN CARBON AND LOW ALLOY STEELS	MANGANESE	IS 8811
64	CHEMICAL- METALS & ALLOYS	PLAIN CARBON AND LOW ALLOY STEELS	MOLYBDENUM	IS 8811
65	CHEMICAL- METALS & ALLOYS	PLAIN CARBON AND LOW ALLOY STEELS	NICKEL	IS 228 (PART 5)
66	CHEMICAL- METALS & ALLOYS	PLAIN CARBON AND LOW ALLOY STEELS	NICKEL	IS 8811
67	CHEMICAL- METALS & ALLOYS	PLAIN CARBON AND LOW ALLOY STEELS	NITROGEN	IS :228(PART 23)
68	CHEMICAL- METALS & ALLOYS	PLAIN CARBON AND LOW ALLOY STEELS	PHOSPHORUS	IS 228 (PART 3)
69	CHEMICAL- METALS & ALLOYS	PLAIN CARBON AND LOW ALLOY STEELS	PHOSPHORUS	IS 8811
70	CHEMICAL- METALS & ALLOYS	PLAIN CARBON AND LOW ALLOY STEELS	SILICON	IS 228 (PART 8)
71	CHEMICAL- METALS & ALLOYS	PLAIN CARBON AND LOW ALLOY STEELS	SILICON	IS 8811
72	CHEMICAL- METALS & ALLOYS	PLAIN CARBON AND LOW ALLOY STEELS	SULPHUR	IS 228 (PART 9)
73	CHEMICAL- METALS & ALLOYS	PLAIN CARBON AND LOW ALLOY STEELS	SULPHUR	IS 8811
74	CHEMICAL- METALS & ALLOYS	PLAIN CARBON AND LOW ALLOY STEELS	VANADIUM	IS 8811

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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
75	CHEMICAL- METALS & ALLOYS	STAINLESS STEELS	CARBON	IS 228 (PART 1)
76	CHEMICAL- METALS & ALLOYS	STAINLESS STEELS	CARBON	IS 9879
77	CHEMICAL- METALS & ALLOYS	STAINLESS STEELS	CHROMIUM	IS 228 (PART 6)
78	CHEMICAL- METALS & ALLOYS	STAINLESS STEELS	CHROMIUM	IS 9879
79	CHEMICAL- METALS & ALLOYS	STAINLESS STEELS	COPPER	IS 228 (PART 15)
80	CHEMICAL- METALS & ALLOYS	STAINLESS STEELS	COPPER	IS 9879
81	CHEMICAL- METALS & ALLOYS	STAINLESS STEELS	MANGANESE	IS 228 (PART 2)
82	CHEMICAL- METALS & ALLOYS	STAINLESS STEELS	MANGANESE	IS 9879
83	CHEMICAL- METALS & ALLOYS	STAINLESS STEELS	MOLYBDENUM	IS 228 (PART 7)
84	CHEMICAL- METALS & ALLOYS	STAINLESS STEELS	MOLYBDENUM	IS 9879
85	CHEMICAL- METALS & ALLOYS	STAINLESS STEELS	NICKEL	IS 228 (PART 5)
86	CHEMICAL- METALS & ALLOYS	STAINLESS STEELS	NICKEL	IS 9879
87	CHEMICAL- METALS & ALLOYS	STAINLESS STEELS	PHOSPHORUS	IS 228 (PART 3)
88	CHEMICAL- METALS & ALLOYS	STAINLESS STEELS	PHOSPHORUS	IS 9879
89	CHEMICAL- METALS & ALLOYS	STAINLESS STEELS	SILICON	IS 228 (PART 8)
90	CHEMICAL- METALS & ALLOYS	STAINLESS STEELS	SILICON	IS 9879
91	CHEMICAL- METALS & ALLOYS	STAINLESS STEELS	SULPHUR	IS 228(PART 9)
92	CHEMICAL- METALS & ALLOYS	STAINLESS STEELS	SULPHUR	IS 9879
93	CHEMICAL- METALS & ALLOYS	STAINLESS STEELS	TITANIUM	IS 9879

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94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Alloys and Stainless Steel Bolt	Proof Load Test	ASTM A193/A193M
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Alloys Metallic Tubes	Flattening Test	IS 2328
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Boiler and Pressure Vessel	Side Bend /Root Bend/Face Bend	ASME Sec-IX
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel and Alloy Steel Bolts, Studs, Screws	% Elongation	IS 1367 (PART 3)
98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel and Alloy Steel Bolts, Studs, Screws	Head Soundness	IS 1367 (PART 3)
99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel and Alloy Steel Bolts, Studs, Screws	Proof load Test	IS 1367 (PART 3)
100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel and Alloy Steel Bolts, Studs, Screws	Tensile Strength	IS 1367(PART 3)
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel and Alloy Steel Bolts, Studs, Screws	Wedge Loading Tensile Test	IS 1367 (PART 3)
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel and Alloy Steel Bolts, Studs, Screws	Yield Stress	IS 1367(PART 3)
103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel Cast Billet, Ingots, Billets, Blooms and Slabs	Dimension Test	IS 2830
104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel Cast Billet, Ingots, Billets, Blooms and Slabs	Dimension Test	IS 2831
105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel Welded and Seamless Tubes	Mass per Meter	IS 3601
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel Welded and Seamless Tubes	Dimension Test	IS 3601
107	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel Welded and Seamless Tubes	Macro Examination	IS 3601

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108	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Carbon Steel, Alloy Steel, Stainless Steel Nuts	Proof Load Test	ASTM A194/A194M
109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Eye Bolts with Collars	Proof Load Test	IS 4190
110	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Eye Hooks for Use with Chains	Proof Load Test	IS 3822
111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Alloys Boiler and Pressure Vessel	Fillet Fracture	ASTM A370
112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Alloys Boiler and Pressure Vessel	Macro Examination	ASTM E340
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Alloys Boiler and Pressure Vessel	Nick Break Test	ASTM A370
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Alloys Metallic Tubes	Drift Expansion Test	IS 2335
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fusion Welding of Steel	Fillet Fracture	IS 7310 (PART 1)
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fusion Welding of Steel	Macro Examination	IS 7310 (PART 1)
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fusion Welding of Steel	Nick Break Test	IS 7310 (PART 1)
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Fusion Welding of Steel	Side Bend /Root Bend/Face Bend	IS 7310 (PART-1)
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High strength deformed steel bars and wires for concrete reinforcement	Bend Test	IS 1786
120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High strength deformed steel bars and wires for concrete reinforcement	Mass per meter	IS 1786
121	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High strength deformed steel bars and wires for concrete reinforcement	Re-Bend Test	IS 1786

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122	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High strength deformed steel bars and wires for concrete reinforcement	Surface characteristics	IS 1786
123	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Hollow Steel Sections	Dimension Test	IS 4923
124	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Hollow Steel Sections	Macro Examination	IS 4923
125	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Hollow Steel Sections	Mass per Meter	IS 4923
126	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Hot Rolled Steel Beam, Column, Channel and Angle Sections	Mass per meter	IS 808
127	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Hot Rolled Steel Products	Dimension Test	IS 1852
128	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Hot Rolled Steel Products	Mass per meter	IS 1852
129	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	%Elongation	IS 1608 (PART 1)
130	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	%Elongation	ISO 6892 (PART 1)
131	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	%Reduction in Area	IS 1608 (PART 1)
132	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	%Reduction in Area	ISO 6892 (Part 1)
133	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	0.2% Proof test	IS 1608 (PART 1)
134	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	0.2% Proof Test	ISO 6892 (Part 1)
135	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Bend Test (longitudinal & transverse)	IS 1599

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136	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Breaking Load Test	IS 1608 (PART 1)
137	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness Test (10/1000)	IS 1500 (PART 1)
138	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy Impact Test(V-Notch) (-) 60°C to Room Temperature	BS EN ISO 148-1
139	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy Impact Test(V-Notch) (-) 60°C to Room Temperature	IS 1757(PART 1)
140	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Izod Impact test (V-Notch)[single, double, triple Notch] at Room Temperature	BS 131(PART 1)
141	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Izod Impact test (V-Notch)[single, double, triple Notch] from at Room Temperature	IS 1598
142	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness Test	IS 1586 (PART 1)
143	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness Test	IS 1586 (PART-1)
144	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile strength	IS 1608 (PART 1)
145	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile strength	ISO 6892 (PART 1)
146	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Stress	IS 1608 (PART 1)
147	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Stress	ISO 6892(PART 1)
148	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials - Wire	Wrapping Test	IS 1755

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149	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Tubes	Bend Test	IS 2329
150	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Wire	Torsion Test	IS 1717
151	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals and Alloys	Macro Examination	ASTM E340
152	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Mild Steels, Stainless Steels and Alloy Steels	Brinell Hardness Test (10/3000)	ASTM A370
153	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Mild Steels, Stainless Steels and Alloy Steels	Brinell Hardness Test (10/3000)	IS 1500 (PART 1)
154	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Mild Steels, Stainless Steels and Alloy Steels	Brinell Hardness Test (5/750)	ASTM A370
155	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Mild Steels, Stainless Steels and Alloy Steels	Brinell Hardness Test (5/750)	IS 1500(Pt-1)
156	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Mild Steels, Stainless Steels and Alloy Steels	Rockwell Hardness Test	ASTM A370
157	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Mild Steels, Stainless Steels, Alloy Steels	%Elongation	ASTM A370
158	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Mild Steels, Stainless Steels, Alloy Steels	%Reduction in Area	ASTM A370
159	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Mild Steels, Stainless Steels, Alloy Steels	0.2% Proof Test	ASTM A370
160	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Mild Steels, Stainless Steels, Alloy Steels	Bend test (longitudinal & transverse)	ASTM A370
161	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Mild Steels, Stainless Steels, Alloy Steels	Brinell Hardness Test (10/1000)	ASTM A370
162	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Mild Steels, Stainless Steels, Alloy Steels	Rockwell Hardness Test	ASTM A370

SCOPE OF ACCREDITATION

Laboratory Name : P. P. METALLURGICAL LABORATORY (TESTING LABORATORY), 221 KALI TEMPLE ROAD, P.O.-BALTIKURI, HOWRAH, WEST BENGAL, INDIA

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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
163	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Mild Steels, Stainless Steels, Alloy Steels	Tensile strength	ASTM A370
164	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Mild Steels, Stainless Steels, Alloy Steels	Yield Stress	ASTM A370
165	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Mild Steels, Stainless Steels, Alloy Steels Nuts	Proof Load Test	ASTM A370
166	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Nuts	Proof Load Test	IS 1367 (PART 6)
167	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Round Steel Short Link	Proof Load Test	IS 2429 (PART 1)
168	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Shear Strength of Metals	Shear Test	IS 5242
169	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Single Coil Rectangular Section Spring Lock Washers	Dimension Verification	IS 3063
170	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Single Coil Rectangular Section Spring Lock Washers	Permanent Load Test	IS 3063
171	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Single Coil Rectangular Section Spring Lock Washers	Permanent Set Test	IS 3063
172	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Single Coil Rectangular Section Spring Lock Washers	Twist Test	IS 3063
173	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Split Pins	Ductility Test	IS 549
174	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Stainless Steel Threaded Fasteners	Proof Load Test	IS 1367 (PART 14) Sec. 1, 2 & 3
175	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Bars, Rounds and Squares	Dimension Test	IS 1732
176	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Bars, Rounds and Squares	Mass per meter	IS 1732

SCOPE OF ACCREDITATION

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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
177	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Beam, Column, Channel and Angle Sections	Dimension Test	IS 808
178	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Pipes	Dimensions Test	IS 3589
179	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Plates, Sheets, Strips and Flats	Dimension Test	IS 1730
180	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Tubes	Dimension Test	IS 1161
181	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Tubes	Dimension Test	IS 9295
182	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Tubes	Macro Examination	IS 1161
183	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Tubes	Macro examination	IS 9295
184	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Tubes	Mass per Meter	IS 1161
185	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Tubes	Mass per Meter	IS 9295
186	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Tubes, Tubulars and Other Steel Fittings	Dimensions Test	IS 1239(PART 2)
187	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Tubes, Tubulars and Other Wrought Steel Fittings	Dimension Test	IS 1239 (Part 1)
188	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Tubes, Tubulars and Other Wrought Steel Fittings	Mass per Meter	IS 1239 (PART 1)
189	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire Ropes	Proof Load Test	IS 2266
190	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, Plates, Sheets, Strips and Flats	Mass per meter	IS 1730

SCOPE OF ACCREDITATION

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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
191	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Track Bolts & Nuts	Head Soundness Test	IRS T-23
192	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Track Bolts & Nuts	Proof Load test	IRS T-23
193	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Track Bolts & Nuts	Tensile Strength	IRS T23
194	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Unfired Pressure Vessels	Macro Examination	IS 2825
195	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Unfired Pressure Vessels	Nick Break Test	IS 2825
196	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Unfired Pressure Vessels	Side Bend /Root Bend/Face Bend	IS 2825