



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** BANSAL CALIBRATION AND TEST LAB PRIVATE LIMITED, 49/39, SITE-IV,  
INDUSTRIAL AREA, SAHIBABAD, GHAZIABAD, UTTAR PRADESH, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** TC-6455 **Page No** 1 of 26

**Validity** 08/11/2024 to 07/11/2028 **Last Amended on** 05/03/2025

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 Testing				
1	CHEMICAL- CORROSION TESTS	Hot Dip Galvanized Sheet, Wire, Rod, Tube	Uniformity Test	IS 2633
2	CHEMICAL- CORROSION TESTS	Aluminium Products.	Anodizing Thickness	IS:5523
3	CHEMICAL- CORROSION TESTS	decorative coating on steel, Zn alloys and Al alloys	Copper accelerated acetic acid salt spray (CAAS Test)	ASTM B 368
4	CHEMICAL- CORROSION TESTS	decorative coating on steel, Zn alloys and Al alloys	Copper accelerated acetic acid salt spray (CAAS Test)	ASTM B368
5	CHEMICAL- CORROSION TESTS	electroplated and anodized aluminium	Acetic acid salt spray (AASS Test)	IS 6910
6	CHEMICAL- CORROSION TESTS	electroplated and anodized aluminium coating	Copper accelerated acetic acid salt spray (CASS Test)	IS 5528
7	CHEMICAL- CORROSION TESTS	Electroplated products	Measurement of Coating Thickness (Cadmium) By BNF-Jet	IS 3203
8	CHEMICAL- CORROSION TESTS	Electroplated products	Measurement of Coating Thickness (Chromium) By Stripping method	IS 3203
9	CHEMICAL- CORROSION TESTS	Electroplated products	Measurement of Coating Thickness (Copper) By BNF-Jet Method	IS 3203
10	CHEMICAL- CORROSION TESTS	Electroplated products	Measurement of Coating Thickness (Nickel) By BNF-jet	IS 3203
11	CHEMICAL- CORROSION TESTS	Electroplated products	Measurement of Coating Thickness (Silver) By BNFJet	IS 3203
12	CHEMICAL- CORROSION TESTS	Galvanized steel & allied coated products, Powder Coatings, Paint & enamels pigment & extenders polishes, Solvent & Thinners (Non - Metallic Finishes on Metal Products)	Coating Thickness	IS:6012
13	CHEMICAL- CORROSION TESTS	Galvanized steel product, Sheet, Barbed wire, Hot dip galvanized threaded steel fasteners etc.	Phosphate Coating Thickness	IS:14503
14	CHEMICAL- CORROSION TESTS	Hot Dip Galvanized Sheet, Wire, Rod, Tube	Adhesion Test (Hammer Test)	IS 2629 Amd.-3
15	CHEMICAL- CORROSION TESTS	Hot Dip Galvanized Sheet, Wire, Rod, Tube	Mass of Zinc Coating	IS 6745 Amd-5
16	CHEMICAL- CORROSION TESTS	Painted & Coated metals	Salt Spray Test	ASTM B 117
17	CHEMICAL- CORROSION TESTS	Painted & Coated Product	Salt Spray Test	IS 9844
18	CHEMICAL- CORROSION TESTS	Painted & Coated Product	Salt Spray Test	ISO 9227

**This is annexure to 'Certificate of Accreditation' and does not require any signature.**



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19	CHEMICAL- CORROSION TESTS	Painted & Coated Product	Salt Spray Test	JIS Z 2371
20	CHEMICAL- CORROSION TESTS	Painted & Surface Coated Product	Adhesion Test ( Cross Hatch Test)	ISO 2409
21	CHEMICAL- CORROSION TESTS	Tin Coated Products	Mass of Tin coating	IS:1327
22	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Electrotechnical Products (containing of Chemical, Metallic parts, Paints and Coatings)	Cadmium (by AAS)	IEC: 62321-5
23	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Electrotechnical Products (containing of Chemical, Metallic parts, Paints and Coatings)	Chromium VI	IEC: 62321 - 7
24	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Electrotechnical Products (containing of Chemical, Metallic parts, Paints and Coatings)	Lead (by AAS)	IEC:62321-5
25	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Electrotechnical Products (containing of Chemical, Metallic parts, Paints and Coatings)	Mercury (by AAS)	IEC:62321-4
26	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Paints & similar coatings, or substrates and homogenous materials	Total Lead Content	ASTM E 1613-12
27	CHEMICAL- METALS & ALLOYS	Alloy Steel	Aluminium	ASTM E415
28	CHEMICAL- METALS & ALLOYS	Alloy Steel	Aluminium	IS 8811-98
29	CHEMICAL- METALS & ALLOYS	Alloy Steel	Aluminium	JIS G 1253
30	CHEMICAL- METALS & ALLOYS	Alloy Steel	Arsenic	ASTM E 415
31	CHEMICAL- METALS & ALLOYS	Alloy steel	Arsenic	IS 8811-98
32	CHEMICAL- METALS & ALLOYS	Alloy Steel	Arsenic	JIS G 1253
33	CHEMICAL- METALS & ALLOYS	Alloy Steel	Boron	ASTM E 415
34	CHEMICAL- METALS & ALLOYS	Alloy Steel	Boron	IS 8811-98
35	CHEMICAL- METALS & ALLOYS	Alloy Steel	Boron	JIS G 1253
36	CHEMICAL- METALS & ALLOYS	Alloy steel	carbon	ASTM E 415



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37	CHEMICAL- METALS & ALLOYS	Alloy steel	Carbon	IS 228(Part 1)
38	CHEMICAL- METALS & ALLOYS	Alloy steel	Carbon	IS 8811-98
39	CHEMICAL- METALS & ALLOYS	Alloy Steel	Carbon	JIS G 1253
40	CHEMICAL- METALS & ALLOYS	Alloy Steel	Chromium	ASTM E415
41	CHEMICAL- METALS & ALLOYS	Alloy Steel	Chromium	IS 228(Part 6)
42	CHEMICAL- METALS & ALLOYS	Alloy steel	Chromium	IS 8811-98
43	CHEMICAL- METALS & ALLOYS	Alloy Steel	Chromium	JIS G 1253
44	CHEMICAL- METALS & ALLOYS	Alloy Steel	Cobalt	ASTM E 415
45	CHEMICAL- METALS & ALLOYS	Alloy steel	Cobalt	IS 8811-98
46	CHEMICAL- METALS & ALLOYS	Alloy Steel	Cobalt	JIS G 1253
47	CHEMICAL- METALS & ALLOYS	Alloy Steel	Copper	ASTM E 415
48	CHEMICAL- METALS & ALLOYS	Alloy Steel	Copper	IS 8811-98
49	CHEMICAL- METALS & ALLOYS	Alloy Steel	Copper	JIS G 1253
50	CHEMICAL- METALS & ALLOYS	Alloy Steel	Manganese	ASTM E 415
51	CHEMICAL- METALS & ALLOYS	Alloy steel	Manganese	IS 228(Part 2)
52	CHEMICAL- METALS & ALLOYS	Alloy steel	Manganese	IS 8811-98
53	CHEMICAL- METALS & ALLOYS	Alloy Steel	Manganese	JIS G 1253
54	CHEMICAL- METALS & ALLOYS	Alloy Steel	Molybdenum	ASTM E 415
55	CHEMICAL- METALS & ALLOYS	Alloy steel	Molybdenum	IS 228 (Part 7)
56	CHEMICAL- METALS & ALLOYS	Alloy Steel	Molybdenum	IS 228(Part 10)



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57	CHEMICAL- METALS & ALLOYS	Alloy Steel	Molybdenum	IS 8811-98
58	CHEMICAL- METALS & ALLOYS	Alloy Steel	Molybdenum	JIS G 1253
59	CHEMICAL- METALS & ALLOYS	Alloy Steel	Nickel	ASTM E415
60	CHEMICAL- METALS & ALLOYS	Alloy steel	Nickel	IS 228(Part 5)
61	CHEMICAL- METALS & ALLOYS	Alloy steel	Nickel	IS 8811-98
62	CHEMICAL- METALS & ALLOYS	Alloy Steel	Nickel	JIS G 1253
63	CHEMICAL- METALS & ALLOYS	Alloy Steel	Niobium	ASTM E 415
64	CHEMICAL- METALS & ALLOYS	Alloy steel	Niobium	IS 8811-98
65	CHEMICAL- METALS & ALLOYS	Alloy Steel	Niobium	JIS G 1253
66	CHEMICAL- METALS & ALLOYS	Alloy Steel	Nitrogen	ASTM E 415
67	CHEMICAL- METALS & ALLOYS	Alloy Steel	Phosphorous	ASTM E 415
68	CHEMICAL- METALS & ALLOYS	Alloy steel	Phosphorous	IS 228(Part 3)
69	CHEMICAL- METALS & ALLOYS	Alloy steel	Phosphorous	IS 8811-98
70	CHEMICAL- METALS & ALLOYS	Alloy Steel	Phosphorous	JIS G 1253
71	CHEMICAL- METALS & ALLOYS	Alloy Steel	Silicon	Astm E 415
72	CHEMICAL- METALS & ALLOYS	Alloy steel	Silicon	IS 228(Part 8)
73	CHEMICAL- METALS & ALLOYS	Alloy steel	Silicon	IS 228(Part-11)
74	CHEMICAL- METALS & ALLOYS	Alloy steel	Silicon	IS 8811-98
75	CHEMICAL- METALS & ALLOYS	Alloy Steel	Silicon	JIS G 1253
76	CHEMICAL- METALS & ALLOYS	Alloy Steel	Sulphur	ASTM E415



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77	CHEMICAL- METALS & ALLOYS	Alloy steel	Sulphur	IS 228(Part 9)
78	CHEMICAL- METALS & ALLOYS	Alloy steel	Sulphur	IS 8811-98
79	CHEMICAL- METALS & ALLOYS	Alloy Steel	Sulphur	JIS G 1253
80	CHEMICAL- METALS & ALLOYS	Alloy Steel	Tin	ASTM E 415
81	CHEMICAL- METALS & ALLOYS	Alloy Steel	Tin	JIS G 1253
82	CHEMICAL- METALS & ALLOYS	Alloy Steel	Titanium	ASTM E 415
83	CHEMICAL- METALS & ALLOYS	Alloy steel	Titanium	IS 8811-98
84	CHEMICAL- METALS & ALLOYS	Alloy Steel	Titanium	JIS G 1253
85	CHEMICAL- METALS & ALLOYS	Alloy Steel	Vanadium	ASTM E 415
86	CHEMICAL- METALS & ALLOYS	Alloy steel	Vanadium	IS 8811-98
87	CHEMICAL- METALS & ALLOYS	Alloy Steel	Vanadium	JIS G 1253
88	CHEMICAL- METALS & ALLOYS	Alloy Steel	Zirconium	ASTM E 415
89	CHEMICAL- METALS & ALLOYS	Alloy Steel	Zirconium	JIS G 1253
90	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Copper	ASTM E1251
91	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Iron	ASTM E 1251
92	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Lead	ASTM E 1251
93	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Magnesium	ASTM E 1251
94	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Manganese	ASTM E 1251
95	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Nickel	ASTM E 1251
96	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Silicon	ASTM E 1251



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97	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Tin	ASTM E 1251
98	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Titanium	ASTM E 1251
99	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Zinc	ASTM E 1251
100	CHEMICAL- METALS & ALLOYS	Cast iron	Carbon	ASTM E 1999
101	CHEMICAL- METALS & ALLOYS	Cast Iron	Carbon	IS 12308(Part 11)
102	CHEMICAL- METALS & ALLOYS	Cast Iron	Chromium	ASTM E 1999
103	CHEMICAL- METALS & ALLOYS	Cast Iron	Copper	ASTM E 1999
104	CHEMICAL- METALS & ALLOYS	Cast iron	Manganese	ASTM E 1999
105	CHEMICAL- METALS & ALLOYS	Cast iron	Molybdenum	ASTM E 1999
106	CHEMICAL- METALS & ALLOYS	Cast Iron	Nickel	ASTM E 1999
107	CHEMICAL- METALS & ALLOYS	Cast Iron	Phosphorus	ASTM E 1999
108	CHEMICAL- METALS & ALLOYS	Cast iron	Silicon	ASTM E 1999
109	CHEMICAL- METALS & ALLOYS	Cast Iron	Sulphur	ASTM E 1999
110	CHEMICAL- METALS & ALLOYS	Cast Iron	Titanium	ASTM E 1999
111	CHEMICAL- METALS & ALLOYS	Cast Iron	Vanadium	ASTM E 1999
112	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Aluminium	BS EN 15079
113	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Antimony	BS EN 15079
114	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Bismuth	BS EN 15079
115	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Cadmium	BS EN 15079
116	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Chromium	BS EN 15079



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117	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Cobalt	BS EN 15079
118	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	BS EN 15079
119	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Lead	BS EN 15079
120	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Magnesium	BS EN 15079
121	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Manganese	BS EN 15079
122	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Nickel	BS EN 15079
123	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Phosphorus	BS EN 15079
124	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Silicon	BS EN 15079
125	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Silver	BS EN 15079
126	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Tin	BS EN 15079
127	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Zinc	BS EN 15079
128	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Aluminium	ASTM E 3047
129	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Carbon	ASTM E 3047
130	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Chromium	ASTM E 3047
131	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Cobalt	ASTM E 3047
132	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Copper	ASTM E 3047
133	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Iron	ASTM E 3047
134	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Manganese	ASTM E 3047
135	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Molybdenum	ASTM E 3047
136	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Silicon	ASTM E 3047



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137	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Titanium	ASTM E 3047
138	CHEMICAL- METALS & ALLOYS	Stainless Steel	Aluminium	ASTM A751
139	CHEMICAL- METALS & ALLOYS	Stainless Steel	Aluminium	JIS G 1253
140	CHEMICAL- METALS & ALLOYS	Stainless Steel	Boron	ASTM A751
141	CHEMICAL- METALS & ALLOYS	Stainless Steel	Boron	JIS G 1253
142	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM A751
143	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E 1086
144	CHEMICAL- METALS & ALLOYS	Stainless steel	Carbon	IS 228(Part 1)
145	CHEMICAL- METALS & ALLOYS	Stainless steel	Carbon	IS 9879-98
146	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	JIS G 1253
147	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM A751
148	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E 1086
149	CHEMICAL- METALS & ALLOYS	Stainless steel	Chromium	IS 228(Part 6)
150	CHEMICAL- METALS & ALLOYS	Stainless steel	Chromium	IS 9879-98
151	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	JIS G 1253
152	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cobalt	ASTM A751
153	CHEMICAL- METALS & ALLOYS	Stainless Steel	Cobalt	JIS G 1253
154	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM A751
155	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E 1086
156	CHEMICAL- METALS & ALLOYS	Stainless steel	Copper	IS 9879-98



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157	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	JIS G 1253
158	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM A751
159	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E 1086
160	CHEMICAL- METALS & ALLOYS	Stainless steel	Manganese	IS 228(Part 2)
161	CHEMICAL- METALS & ALLOYS	Stainless steel	Manganese	IS 9879-98
162	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	JIS G 1253
163	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM A751
164	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM E 1086
165	CHEMICAL- METALS & ALLOYS	Stainless steel	Molybdenum	IS 228(Part 7)
166	CHEMICAL- METALS & ALLOYS	Stainless steel	Molybdenum	IS 9879-98
167	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	JIS G 1253
168	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM A751
169	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E 1086
170	CHEMICAL- METALS & ALLOYS	Stainless steel	Nickel	IS 228(Part 5)
171	CHEMICAL- METALS & ALLOYS	Stainless steel	Nickel	IS 9879-98
172	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	JIS G 1253
173	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nitrogen	ASTM A751
174	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nitrogen	JIS G 1253
175	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorous	ASTM A751
176	CHEMICAL- METALS & ALLOYS	Stainless steel	Phosphorous	IS 228(Part 3)



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177	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorous	JIS G 1253
178	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM E 1086
179	CHEMICAL- METALS & ALLOYS	Stainless steel	Phosphorus	IS 9879-98
180	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM A751
181	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E 1086
182	CHEMICAL- METALS & ALLOYS	Stainless steel	Silicon	IS 228(Part 8)
183	CHEMICAL- METALS & ALLOYS	stainless steel	Silicon	IS 9879-98
184	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	JIS G 1253
185	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM A751
186	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM E 1086
187	CHEMICAL- METALS & ALLOYS	Stainless steel	Sulphur	IS 228:(Part 9)
188	CHEMICAL- METALS & ALLOYS	Stainless steel	Sulphur	IS 9879-98
189	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	JIS G 1253
190	CHEMICAL- METALS & ALLOYS	Stainless Steel	Titanium	ASTM A751
191	CHEMICAL- METALS & ALLOYS	Stainless Steel	Titanium	JIS G 1253
192	CHEMICAL- METALS & ALLOYS	Stainless Steel	Vanadium	ASTM A751
193	CHEMICAL- METALS & ALLOYS	Stainless Steel	Vanadium	JIS G 1253
194	CHEMICAL- METALS & ALLOYS	Tool Steel/High Speed Steel	Carbon	JIS G 1253
195	CHEMICAL- METALS & ALLOYS	Tool Steel/High Speed Steel	Chromium	JIS G 1253
196	CHEMICAL- METALS & ALLOYS	Tool Steel/High speed Steel	Copper	JIS G 1253



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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
197	CHEMICAL- METALS & ALLOYS	Tool Steel/High speed Steel	Copper	JIS G1253
198	CHEMICAL- METALS & ALLOYS	Tool steel/High Speed steel	Manganese	JIS G 1253
199	CHEMICAL- METALS & ALLOYS	Tool steel/High Speed Steel	Nickel	JIS G 1253
200	CHEMICAL- METALS & ALLOYS	Tool steel/High Speed Steel	Phosphorus	JIS G 1253
201	CHEMICAL- METALS & ALLOYS	Tool Steel/High Speed steel	Silicon	JIS G 1253
202	CHEMICAL- METALS & ALLOYS	Tool steel/High Speed steel	Sulphur	JIS G1253
203	CHEMICAL- METALS & ALLOYS	Tool Steel/High Speed Steel	Tungsten	JIS G 1253
204	CHEMICAL- METALS & ALLOYS	Tool Steel/High Speed Steel	Tungsten	JIS G1253
205	CHEMICAL- METALS & ALLOYS	Tool steel/High Speed steel	Vanadium	JIS G 1253
206	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Copper	ISO 3815-1
207	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Lead	ISO 3815-1
208	CHEMICAL- METALS & ALLOYS	Zinc & zinc alloys	Magnesium	ISO 3815-1
209	CHEMICAL- METALS & ALLOYS	Zinc & zinc alloys	Tin	ISO 3815-1
210	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Acidity (as CaCO <sub>3</sub> )	IS 3025 (Part -22)
211	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (Part -23)
212	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Aluminium	IS 3025 (Part -55) Clause- 5
213	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Ammonia (as Total ammonia -N)	IS 3025 (Part -34/Sec 1) Clause- 5
214	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Arsenic	IS 3025 (Part -37) Clause-4
215	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Barium	Annex G of IS 13428
216	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Biochemical Oxygen Demand	IS 3025 (Part -44)



# National Accreditation Board for Testing and Calibration Laboratories

## 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
217	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Boron	IS 3025 (Part -57) Clause-5
218	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Cadmium	IS 3025 (Part -41) Clause-6
219	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Calcium	IS 3025 (Part -40) Clause-5
220	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Chemical Oxygen Demand	IS 3025 (Part -58)
221	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Chlorides (as Cl)	IS 3025 (Part -32) Clause-2
222	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Chromium	IS 3025 (Part -52) Clause-6&7
223	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Colour	IS 3025 (Part -4) Clause-2
224	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Copper	IS 3025 (Part -42) Clause-8
225	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Cyanide	IS 3025 (Part -27) Clause-2
226	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Dissolved Oxygen	IS 3025 (Part -38) Clause-5
227	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Fluoride	IS 3025 (Part -60/Sec 1) Clause-7
228	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Iron	IS 3025 (Part -53)
229	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Lead	IS 3025 (Part -47) Clause-6
230	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Magnesium	IS 3025 (Part -46) Clause-5
231	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Manganese	IS 3025 (Part -59) Clause-5
232	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Mercury	IS 3025 (Part -48) Clause-5
233	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Mineral Oil	IS 3025 (Part -39) Clause- 5
234	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Nickel	IS 3025 (Part -54) Clause-7
235	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Nitrate (as NO <sub>3</sub> )	IS 3025 (Part -34) Clause- 3.3
236	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Odour	IS 3025 (Part -5)



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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
237	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	pH Value	IS 3025 (Part -11)
238	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Residual Free Chlorine	IS 3025 (Part -26) Clause-5
239	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Specific Conductance (at 25°C)	IS 3025 (Part -14)
240	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Sulphate	IS 3025 (Part -24/Sec 1) Clause-7
241	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Sulphide	IS 3025 (Part -29) Clause-7
242	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Taste	IS 3025 (Part -7&8)
243	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (Part -23)
244	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Dissolve Solids (TDS)	IS 3025 (Part -16)
245	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (Part -21) Clause-5
246	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Turbidity	IS 3025 (Part -10)
247	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Zinc	IS 3025 (Part -49) Clause-5
248	CHEMICAL- RESIDUES IN WATER	Drinking Water	Aluminium	IS 3025 (Part -55) Clause- 5
249	CHEMICAL- RESIDUES IN WATER	Drinking Water	Arsenic	IS 3025 (Part -37) Clause-4
250	CHEMICAL- RESIDUES IN WATER	Drinking Water	Barium	Annex G of IS 13428
251	CHEMICAL- RESIDUES IN WATER	Drinking Water	Boron	IS 3025 (Part -57) Clause-5
252	CHEMICAL- RESIDUES IN WATER	Drinking Water	Cadmium	IS 3025 (Part -41) Clause-6
253	CHEMICAL- RESIDUES IN WATER	Drinking Water	Calcium	IS 3025 (Part -40) Clause-5
254	CHEMICAL- RESIDUES IN WATER	Drinking Water	Chromium	IS 3025 (Part -52) Clause-6&7
255	CHEMICAL- RESIDUES IN WATER	Drinking Water	Copper	IS 3025 (Part -42) Clause-8
256	CHEMICAL- RESIDUES IN WATER	Drinking Water	Iron	IS 3025 (Part -53)



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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
257	CHEMICAL- RESIDUES IN WATER	Drinking Water	Lead	IS 3025 (Part -47) Clause-6
258	CHEMICAL- RESIDUES IN WATER	Drinking Water	Magnesium	IS 3025 (Part -46) Clause-5
259	CHEMICAL- RESIDUES IN WATER	Drinking Water	Manganese	IS 3025 (Part -59) Clause-5
260	CHEMICAL- RESIDUES IN WATER	Drinking Water	Mercury	IS 3025 (Part -48) clause-5
261	CHEMICAL- RESIDUES IN WATER	Drinking Water	Nickel	IS 3025 (Part -54) Clause-7
262	CHEMICAL- RESIDUES IN WATER	Drinking Water	Zinc	IS 3025 (Part -49) Clause-5
263	CHEMICAL- RESIDUES IN WATER	Industrial Water	Aluminium	IS 3025 (Part -55) Clause- 5
264	CHEMICAL- RESIDUES IN WATER	Industrial Water	Arsenic	IS 3025 (Part -37) Clause-4
265	CHEMICAL- RESIDUES IN WATER	Industrial Water	Barium	Annex G of IS 13428
266	CHEMICAL- RESIDUES IN WATER	Industrial Water	Boron	IS 3025 (Part -57) Clause-5
267	CHEMICAL- RESIDUES IN WATER	Industrial Water	Cadmium	IS 3025 (Part -41) Clause-6
268	CHEMICAL- RESIDUES IN WATER	Industrial Water	Calcium	IS 3025 (Part -40) Clause-5
269	CHEMICAL- RESIDUES IN WATER	Industrial Water	Chromium	IS 3025 (Part -52) Clause-6&7
270	CHEMICAL- RESIDUES IN WATER	Industrial Water	Copper	IS 3025 (Part -42) Clause-8
271	CHEMICAL- RESIDUES IN WATER	Industrial Water	Iron	IS 3025 (Part -53)
272	CHEMICAL- RESIDUES IN WATER	Industrial Water	Lead	IS 3025 (Part -47) Clause-6
273	CHEMICAL- RESIDUES IN WATER	Industrial Water	Magnesium	IS 3025 (Part -46) Clause-5
274	CHEMICAL- RESIDUES IN WATER	Industrial Water	Manganese	IS 3025 (Part -59) Clause-5
275	CHEMICAL- RESIDUES IN WATER	Industrial Water	Mercury	IS 3025 (Part -48) Clause-5
276	CHEMICAL- RESIDUES IN WATER	Industrial Water	Nickel	IS 3025 (Part -54) Clause-7



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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
277	CHEMICAL- RESIDUES IN WATER	Industrial Water	Zinc	IS 3025 (Part -49) Clause-5
278	CHEMICAL- RESIDUES IN WATER	Potable & domestic	Aluminium	IS 3025 (Part -55) Clause- 5
279	CHEMICAL- RESIDUES IN WATER	Potable & domestic	Arsenic	IS 3025 (Part -37) Clause-4
280	CHEMICAL- RESIDUES IN WATER	Potable & domestic	Barium	Annex G of IS 13428
281	CHEMICAL- RESIDUES IN WATER	Potable & domestic	Boron	IS 3025 (Part -57) Clause-5
282	CHEMICAL- RESIDUES IN WATER	Potable & Domestic	Cadmium	IS 3025 (Part -41) Clause-6
283	CHEMICAL- RESIDUES IN WATER	Potable & domestic	Calcium	IS 3025 (Part -40) Clause-5
284	CHEMICAL- RESIDUES IN WATER	Potable & domestic	Chromium	IS 3025 (Part -52) Clause-6&7
285	CHEMICAL- RESIDUES IN WATER	Potable & domestic	Copper	IS 3025 (Part -42) Clause-8
286	CHEMICAL- RESIDUES IN WATER	Potable & domestic	Iron	IS 3025 (Part -53)
287	CHEMICAL- RESIDUES IN WATER	Potable & domestic	Lead	IS 3025 (Part -47) Clause-6
288	CHEMICAL- RESIDUES IN WATER	Potable & domestic	Magnesium	IS 3025 (Part -46) Clause-5
289	CHEMICAL- RESIDUES IN WATER	Potable & domestic	Manganese	IS 3025 (Part -59) Clause-5
290	CHEMICAL- RESIDUES IN WATER	Potable & domestic	Mercury	IS 3025 (Part -48) Clause-5
291	CHEMICAL- RESIDUES IN WATER	Potable & domestic	Nickel	IS 3025 (Part -54) Clause-7
292	CHEMICAL- RESIDUES IN WATER	Potable & domestic	Zinc	IS 3025 (Part -49) Clause-5
293	CHEMICAL- SOIL AND ROCK	Soil	Calcium plus magnesium	(Method manual) Soil testing in india department of agriculture and cooperation, ministry of agriculture, Govt. of India, January 2011 (16.b) BCTL/SOIL/2024/01
294	CHEMICAL- SOIL AND ROCK	Soil	Carbonates	IS 2720 (Part-23)
295	CHEMICAL- SOIL AND ROCK	Soil	Conductivity	IS 14767

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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
296	CHEMICAL- SOIL AND ROCK	Soil	Copper	(Method manual) Soil testing in india department of agriculture and cooperation, ministry of agriculture, Govt. of India, January 2011 (17.a.ii)BCTL/SOIL/2024/02
297	CHEMICAL- SOIL AND ROCK	Soil	Inorganic Nitrogen Ammonia	(Method manual) Soil testing in india department of agriculture and cooperation, ministry of agriculture, Govt. of India, January 2011 (12) BCTL/SOIL/2024/03
298	CHEMICAL- SOIL AND ROCK	Soil	Inorganic Nitrogen Nitrate	(Method manual) Soil testing in india department of agriculture and cooperation, ministry of agriculture, Govt. of India, January 2011 (12) BCTL/SOIL/2024/04
299	CHEMICAL- SOIL AND ROCK	Soil	Iron	(Method manual) Soil testing in india department of agriculture and cooperation, ministry of agriculture, Govt. of India, January 2011(17a.ii) BCTL/SOIL/2024/05
300	CHEMICAL- SOIL AND ROCK	Soil	Manganese	(Method manual) Soil testing in india department of agriculture and cooperation, ministry of agriculture, Govt. of India, January 2011(17a.iv) BCTL/SOIL/2024/06
301	CHEMICAL- SOIL AND ROCK	Soil	Moisture Content	(Method manual) Soil testing in india department of agriculture and cooperation, ministry of agriculture, Govt. of India, January 2011 (4) BCTL/SOIL/2024/07
302	CHEMICAL- SOIL AND ROCK	Soil	Nitrogen	(Method manual) Soil testing in india department of agriculture and cooperation, ministry of agriculture, Govt. of India, January 2011, BCTL/SOIL/2024/08
303	CHEMICAL- SOIL AND ROCK	Soil	Organic matter	IS 2720 (Part-22)
304	CHEMICAL- SOIL AND ROCK	Soil	pH	IS 2720 (Part-26)



# National Accreditation Board for Testing and Calibration Laboratories

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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
305	CHEMICAL- SOIL AND ROCK	Soil	Phosphorus	(Method manual) Soil testing in india department of agriculture and cooperation, ministry of agriculture, Govt. of India, January 2011, BCTL/SOIL/2024/09
306	CHEMICAL- SOIL AND ROCK	Soil	Silica	IS 2720 (Part-25)
307	CHEMICAL- SOIL AND ROCK	Soil	Total Soluble Solids	IS 2720 (Part-21)
308	CHEMICAL- SOIL AND ROCK	Soil	Water soluble Chloride	IS 4032 Guidelines
309	CHEMICAL- SOIL AND ROCK	Soil	Water Soluble Sulfates	IS 2720 (Part-27)
310	CHEMICAL- WATER	Drinking Water	Acidity (as CaCO <sub>3</sub> )	IS 3025 (Part -22)
311	CHEMICAL- WATER	Drinking Water	Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (Part -23)
312	CHEMICAL- WATER	Drinking Water	Ammonia (as Total ammonia -N)	IS 3025 (Part -34/Sec 1) Clause- 5
313	CHEMICAL- WATER	Drinking Water	Chlorides (as Cl)	IS 3025 (Part -32) Clause-2
314	CHEMICAL- WATER	Drinking Water	Colour	IS 3025 (Part -4) Clause-2
315	CHEMICAL- WATER	Drinking Water	Cyanide	IS 3025 (Part -27) Clause-2
316	CHEMICAL- WATER	Drinking Water	Dissolved Oxygen	IS 3025 (Part -38) Clause-5
317	CHEMICAL- WATER	Drinking Water	Fluoride	IS 3025 (Part -60/Sec 1) Clause-7
318	CHEMICAL- WATER	Drinking Water	Mineral Oil	IS 3025 (Part -39) Clause- 5
319	CHEMICAL- WATER	Drinking Water	Nitrate (as NO <sub>3</sub> )	IS 3025 (Part -34) Clause- 3.3
320	CHEMICAL- WATER	Drinking Water	Odour	IS 3025 (Part -5)
321	CHEMICAL- WATER	Drinking Water	pH Value	IS 3025 (Part -11)
322	CHEMICAL- WATER	Drinking Water	Residual Free Chlorine	IS 3025 (Part -26) Clause-5
323	CHEMICAL- WATER	Drinking Water	Specific Conductance (at 25°C)	IS 3025 (Part -14)
324	CHEMICAL- WATER	Drinking Water	Sulphate	IS 3025 (Part -24/Sec 1) Clause-7
325	CHEMICAL- WATER	Drinking Water	Sulphide	IS 3025 (Part -29) Clause-7
326	CHEMICAL- WATER	Drinking Water	Taste	IS 3025 (Part -7&8)
327	CHEMICAL- WATER	Drinking Water	Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (Part -23)
328	CHEMICAL- WATER	Drinking Water	Total Dissolve Solids (TDS)	IS 3025 (Part -16)
329	CHEMICAL- WATER	Drinking Water	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (Part -21) Clause-5

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# National Accreditation Board for Testing and Calibration Laboratories

## 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
330	CHEMICAL- WATER	Drinking Water	Turbidity	IS 3025 (Part -10)
331	CHEMICAL- WATER	Industrial Water	Acidity (as CaCO <sub>3</sub> )	IS 3025 (Part -22)
332	CHEMICAL- WATER	Industrial Water	Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (Part -23)
333	CHEMICAL- WATER	Industrial Water	Ammonia (as Total ammonia -N)	IS 3025 (Part -34/Sec 1) Clause- 5
334	CHEMICAL- WATER	Industrial Water	Chlorides (as Cl)	IS 3025 (Part -32) Clause-2
335	CHEMICAL- WATER	Industrial Water	Colour	IS 3025 (Part -4) Clause-2
336	CHEMICAL- WATER	Industrial Water	Cyanide	IS 3025 (Part -27) Clause-2
337	CHEMICAL- WATER	Industrial Water	Dissolved Oxygen	IS 3025 (Part -38) Clause-5
338	CHEMICAL- WATER	Industrial Water	Fluoride	IS 3025 (Part -60/Sec 1) Clause-7
339	CHEMICAL- WATER	Industrial Water	Mineral Oil	IS 3025 (Part -39) Clause- 5
340	CHEMICAL- WATER	Industrial Water	Nitrate (as NO <sub>3</sub> )	IS 3025 (Part -34) Clause- 3.3
341	CHEMICAL- WATER	Industrial Water	Odour	IS 3025 (Part -5)
342	CHEMICAL- WATER	Industrial Water	pH Value	IS 3025 (Part -11)
343	CHEMICAL- WATER	Industrial Water	Residual Free Chlorine	IS 3025 (Part -26) Clause-5
344	CHEMICAL- WATER	Industrial Water	Specific Conductance (at 25°C)	IS 3025 (Part -14)
345	CHEMICAL- WATER	Industrial Water	Sulphate	IS 3025 (Part -24/Sec 1) Clause-7
346	CHEMICAL- WATER	Industrial Water	Sulphide	IS 3025 (Part -29) Clause-7
347	CHEMICAL- WATER	Industrial Water	Taste	IS 3025 (Part -7&8)
348	CHEMICAL- WATER	Industrial Water	Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (Part -23)
349	CHEMICAL- WATER	Industrial Water	Total Dissolve Solids (TDS)	IS 3025 (Part -16)
350	CHEMICAL- WATER	Industrial Water	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (Part -21) Clause-5
351	CHEMICAL- WATER	Industrial Water	Turbidity	IS 3025 (Part -10)
352	CHEMICAL- WATER	Potable & Domestic	Acidity (as CaCO <sub>3</sub> )	IS 3025 (Part -22)
353	CHEMICAL- WATER	Potable & domestic	Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (Part -23)
354	CHEMICAL- WATER	Potable & domestic	Ammonia (as Total ammonia -N)	IS 3025 (Part -34/Sec 1) Clause- 5
355	CHEMICAL- WATER	Potable & domestic	Chlorides (as Cl)	IS 3025 (Part -32) Clause-2
356	CHEMICAL- WATER	Potable & domestic	Colour	IS 3025 (Part -4) Clause-2
357	CHEMICAL- WATER	Potable & domestic	Cyanide	IS 3025 (Part -27) Clause-2
358	CHEMICAL- WATER	Potable & domestic	Dissolved Oxygen	IS 3025 (Part -38) Clause-5



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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
359	CHEMICAL- WATER	Potable & domestic	Fluoride	IS 3025 (Part -60/Sec 1) Clause-7
360	CHEMICAL- WATER	Potable & domestic	Mineral Oil	IS 3025 (Part -39) Clause- 5
361	CHEMICAL- WATER	Potable & domestic	Nitrate (as NO <sub>3</sub> )	IS 3025 (Part -34) Clause- 3.3
362	CHEMICAL- WATER	Potable & domestic	Odour	IS 3025 (Part -5)
363	CHEMICAL- WATER	Potable & domestic	pH Value	IS 3025 (Part -11)
364	CHEMICAL- WATER	Potable & domestic	Residual Free Chlorine	IS 3025 (Part -26) Clause-5
365	CHEMICAL- WATER	Potable & domestic	Specific Conductance (at 25°C)	IS 3025 (Part -14)
366	CHEMICAL- WATER	Potable & domestic	Sulphate	IS 3025 (Part -24/Sec 1) Clause-7
367	CHEMICAL- WATER	Potable & domestic	Sulphide	IS 3025 (Part -29) Clause-7
368	CHEMICAL- WATER	Potable & domestic	Taste	IS 3025 (Part -7&8)
369	CHEMICAL- WATER	Potable & domestic	Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (Part -23)
370	CHEMICAL- WATER	Potable & domestic	Total Dissolve Solids (TDS)	IS 3025 (Part -16)
371	CHEMICAL- WATER	Potable & domestic	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (Part -21) Clause-5
372	CHEMICAL- WATER	Potable & domestic	Turbidity	IS 3025 (Part -10)
373	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and Wires for Concrete Reinforcement	Mass per Meter	IS 1786
374	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Products	Brinell Hardness Test (HBW) (10mm/3000kgf)	ASTM A 370
375	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Products	Elongation	ASTM A 370
376	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Proof Load Test (Fasteners)	IS 1367(Part-3 & Part-6)
377	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials,alloys & products	Proof Load Test (Fasteners)	ISO 898-1 & 2
378	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and Wires for Concrete Reinforcement	Mean Projected Rib area	IS 1786
379	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and Wires for Concrete Reinforcement	% Elongation	IS 1786
380	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and Wires for Concrete Reinforcement	% Reduction Area	IS 1786

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381	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and Wires for Concrete Reinforcement	0.2% Proof Stress	IS 1786
382	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and Wires for Concrete Reinforcement	Tensile Strength	IS 1786
383	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and Wires for Concrete Reinforcement	Yield Stress	IS 1786
384	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	% Reduction Area	ASTM E-8/E8M
385	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	0.2% Proof Stress	ASTM E-8/E8M
386	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Brinell Hardness Test (HBW/(5mm/750kgf))	ASTM E 10
387	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Hot tensile strength test from Room temp. to Elevated temp. Upto 900°C (% Reduction Area)	ASTM E 21
388	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Rockwell Hardness Test (HRBW/100 kgf)	ASTM E 18
389	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Tensile Strength	ASTM E-8/E8M
390	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Tensile Strength	ISO 6892-1
391	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	V notch Charpy Impact Test	ISO 148-1
392	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	V notch Charpy Impact Test (Up to -196°C)	ASTM E-23
393	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Vicker Hardness Test (HV 10)	ASTM E 384
394	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Material	Vicker Hardness Test (HV 10)	ASTM E92



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395	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Material	Vicker Hardness Test (HV 5)	ASTM E92
396	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Material	Yield Strength	ASTM E-8/E8M
397	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Material	Yield strength	ISO 6892-1
398	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Elongation	ASTM E8/E8M
399	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Elongation	IS 1608 (Part-1)
400	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Elongation	ISO 6892-1
401	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Reduction Area	IS 1608 (Part-1)
402	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Reduction Area	ISO 6892-1
403	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	0.2% Proof Stress	IS 1608 (Part-1)
404	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	0.2% Proof Stress	ISO 6892-1
405	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Bend Test	ASTM E190
406	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Bend Test	ASTM E290
407	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Bend Test	IS 1599
408	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness Test (HBW) (10mm/3000kgf)	ASTM E10



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409	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness Test (HBW) / (5mm/750kgf)	IS 1500 (Part-1)
410	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness Test (HBW/(10mm/3000Kgf))	IS 1500 (Part-1)
411	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hot tensile strength test from Room temp. to Elevated temp. Upto 900°C (% Reduction Area)	ISO 6892 (Part-2)
412	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hot tensile strength test from Room temp. to Elevated temp. Upto 900°C yield Strength	ASTM E 21
413	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Hot tensile strength test from Room temp. to Elevated temp. Upto 900°C yield Strength	ISO 6892 (Part-2)
414	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vicker Hardness Test (HV 0.1)	ASTM E 384
415	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vicker Hardness Test (HV 0.1)	IS 1501 (Part-1)
416	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vicker Hardness Test (HV 0.3)	ASTM E 384
417	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vicker Hardness Test (HV 0.3)	IS 1501 (Part-1)
418	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vicker Hardness Test (HV 0.5)	ASTM E 384
419	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vicker Hardness Test (HV 0.5)	IS 1501 (Part-1)
420	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vicker Hardness Test (HV 1)	ASTM E 384
421	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Micro Vicker Hardness Test (HV 1)	IS 1501 (Part-1)
422	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness Test (HRBW/100kgf)	IS 1586 (Part-1)



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423	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness Test (HRC) (150kgf)	IS 1586 (Part-1)
424	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness Test (HRC/150kgf)	ASTM E 18
425	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Strength	IS 1608 (Part-1)
426	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Tensile Test	ASME BPVC.II. A.B.C
427	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	U notch Charpy Impact Test	ASTM E 23
428	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	U notch Charpy Impact Test	IS:1499
429	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	U notch Charpy Impact Test	ISO 148-1
430	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Ultimate tensile Strength Upto elevated temp. 900°C	ASTM E 21
431	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Ultimate tensile Strength Upto elevated temp. 900°C	ISO 6892 (Part-2)
432	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	V notch Charpy Impact Test (Up to -196°C)	IS 1757 (Part-1)
433	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	V notch Izod Test	IS 1598
434	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vicker Hardness Test (HV 10)	IS 1501 (Part-1)
435	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vicker Hardness Test (HV 5)	IS 1501 (Part-1)
436	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Stress	IS 1608 (Part-1)



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437	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials Tube	Flattening Test	IS 2328
438	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel product	Bend Test	ASTM A370
439	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Product	Tensile Strength	ASTM A-370
440	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Product	V notch Charpy Impact Test (Up to -196°C)	ASTM A 370
441	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Product	Yield Stress	ASTM A-370
442	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Products	% Reduction Area	ASTM A370
443	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Products	0.2% Proof Stress	ASTM A 370
444	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Products	Brinell Hardness Test (HBW/ 5mm/750kgf)	ASTM A 370
445	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Products	Lateral Expansion	ASTM A 370
446	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Products	Shear Fracture %	ASTM A 370
447	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Products	U notch Charpy Impact Test	ASTM A 370
448	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welded Plate, Pipe & Rod	Face Bend / Root Bend / Side Bend	BS EN ISO 5173
449	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welded Plate, Pipe & Rod	Face Bend / Root Bend / Side Bend	IS 7307 (Part-1)
450	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welded Plate, pipe & Rod	Fracture Test	ASME Sec.-IX



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451	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate, Pipe & Rod	Fracture Test	IS 7307 (Part-1)
452	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate, Pipe & Rod	Transverse Tensile Test	IS 7307 (Part-1)
453	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Welded Plate,Pipe & Rod	Welded Guided Face, Root & Side Bend	ASME Sec.-IX
454	MECHANICAL-METALLOGRAPHY TEST	Ferrous material, alloys & Product	IGC (Intergranular Corrosion test) Practice-C	ASTM A 262
455	MECHANICAL-METALLOGRAPHY TEST	Ferrous material, alloys & products	Charpy Impact Test (Method B)	ASTM A 923
456	MECHANICAL-METALLOGRAPHY TEST	Ferrous material, alloys & products	Grain Size No.	ASTM E 112
457	MECHANICAL-METALLOGRAPHY TEST	Ferrous material,alloys & products	Corrosion Test (Method - C)	ASTM A 923
458	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Chloride Stress Corrosion Test	ASTM G-36
459	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Ferrite %	ASTM E 562
460	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Ferrite % / FN	ASTM A800/A800M
461	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Hydrogen Induced Cracking Test	NACE TM 0284
462	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	IGC (Intergranular Corrosion test) Method C	ISO 3651-2
463	MECHANICAL-METALLOGRAPHY TEST	Ferrous Materials, alloys & products	IGC (Intergranular Corrosion test) Practice-B	ASTM A 262
464	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Sulfide Stress Corrosion Crack Test - Method A	NACE TM 0177
465	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials,alloys & products	Case Depth (By Microscopic & Hardness measurement)	IS 6416
466	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials,alloys & products	Crevice Corrosion Test	ASTM G-48 Method B
467	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials,alloys & products	Decarburization Depth by Microscopic Method (Steel Products)	IS 6396
468	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials,alloys & products	Detecting Detrimental Inter-metallic Phase in Duplex Austenitic/Ferritic Stainless Steels -Method A	ASTM A 923

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469	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Ferrite Grain size (Carbon Steel Products) Comparison Method	IS 4748
470	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	IGC (Intergranular Corrosion test) Practice-E	ASTM A 262
471	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	IGC (Intergranular Corrosion test) Practice-A	ASTM A 262
472	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	IGC (Intergranular Corrosion test) Practice-A	ASTM G-28
473	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Inclusion Rating (Steel Products)	ASTM E 45
474	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Inclusion Rating (Steel Products)	IS 4163
475	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Macro etch Test (Steel Product)	IS 11371
476	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Macro etch Test (Steel Product)	ASM Vol.-9
477	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Macro etch Test (Steel Product)	ASTM E 381
478	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Micro structure	ASM Handbook Vol-9
479	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Pitting Corrosion Test (Method A)	ASTM G 48
480	MECHANICAL-METALLOGRAPHY TEST	Ferrous materials, alloys & products	Plating Thickness on ferrous & Nonferrous metal	ASTM B 487
481	MECHANICAL-METALLOGRAPHY TEST	Welded Plate, Pipe & Rod	Macro Examination	BS EN ISO 17639
482	MECHANICAL-METALLOGRAPHY TEST	Welded Plate, Pipe & Rod	Macro Examination	IS 7307 part-1