



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name SPECTRO SSA LABS PRIVATE LTD, R-489, T.T.C. INDUSTRIAL AREA, MIDC, RABALE, NAVI MUMBAI, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-8163 Page No. : 1 / 32

Validity 17/10/2018 to 16/10/2020 Last Amended on 30/11/2018

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
Permanent Facility					
1	BIOLOGICAL- WATER	Dialysis water, RO water and other water used in diagnosis	Bacterial Endotoxins	USP 36: 2013	Qualitative
2	BIOLOGICAL- WATER	Drinking water, Borewell water, Pond water, Raw water, Spring water, river water, waste water and other water	Coliforms	IS 1622: 1981	Qualitative(Parameter name corrected)
3	BIOLOGICAL- WATER	Drinking water, Borewell water, Pond water, Raw water, Spring water, river water, waste water and other water	E.coli	IS 1622: 1981	Qualitative
4	BIOLOGICAL- WATER	Drinking water, Borewell water, Pond water, Raw water, Spring water, river water, waste water and other water	Faecal Coliform	IS 1622: 1981	Qualitative
5	BIOLOGICAL- WATER	Packaged Drinking Water	Coliform Count	IS 5401 (Part 1): 2002	Qualitative
6	BIOLOGICAL- WATER	Packaged Drinking Water	Coliform Count	IS 15185: 2016	Qualitative
7	BIOLOGICAL- WATER	Packaged Drinking Water	E.coli	IS 5887 (Part 1): 1976	Qualitative
8	BIOLOGICAL- WATER	Packaged Drinking Water	E.coli	IS 15185: 2016	Qualitative(Typo error rectified.)



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9	BIOLOGICAL- WATER	Packaged Natural Mineral Water	Coliforms	IS 15185: 2016	Qualitative
10	BIOLOGICAL- WATER	Packaged Natural Mineral Water	Conforms	IS 5401 (Part 1): 2002	Qualitative
11	BIOLOGICAL- WATER	Packaged Natural Mineral Water	E.coli	IS 5887 (Part 1): 1976	Qualitative
12	BIOLOGICAL- WATER	Packaged Natural Mineral Water	E.coli	IS 15185: 2016	Qualitative
13	BIOLOGICAL- WATER	Swimming pool water	Conforms	IS 1622: 1981	Qualitative(Parameter name corrected)
14	BIOLOGICAL- WATER	Swimming pool water	Standard Plate Count	IS 3328: 1993	1 cfu/ml to 100000 cfu/ml
15	CHEMICAL- BUILDING MATERIAL	Admixture	Ash Content	IS 9103: 1999	0.1 % to 20.0 %
16	CHEMICAL- BUILDING MATERIAL	Admixture	Chlorides	IS 6925: 1973	0.01 % to 1.0 %
17	CHEMICAL- BUILDING MATERIAL	Admixture	Dry Material Content	IS 9103: 1999	1.0 % to 60.0 %
18	CHEMICAL- BUILDING MATERIAL	Admixture	pH	IS 9103: 1999	4 to 13
19	CHEMICAL- BUILDING MATERIAL	Admixture	Relative Density	IS 9103: 1999	1 to 1.5
20	CHEMICAL- BUILDING MATERIAL	Admixture	Sulphates	SOP/CHE/03/ADMIX/001: Issue Date10/08/2018	0.05 % to 5.0 %
21	CHEMICAL- BUILDING MATERIAL	Aggregates	Alkali Aggregate Reactivity	IS 2386 (Part VII) (Cl. 3): 1963	2 millimoles/lit to 2500 millimoles/lit



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Permanent Facility					
22	CHEMICAL- BUILDING MATERIAL	Aggregates	Chlorides	IS 14959 (Part 2): 2001	0.01 % to 1.0 %
23	CHEMICAL- BUILDING MATERIAL	Aggregates	Sulphate as SO ₃	IS 4032: 1985	0.01 % to 1.0 %
24	CHEMICAL- BUILDING MATERIAL	Autoclaved Cellular Concrete Blocks	Dimension	IS 2185 (Part 3): 1984	50 mm to 700 mm
25	CHEMICAL- BUILDING MATERIAL	Cement (OPC, PPC & PSC)	Alumina (Al ₂ O ₃)	IS 4032: 1985	3.0 % to 12.0 %
26	CHEMICAL- BUILDING MATERIAL	Cement (OPC, PPC & PSC)	Chlorides (Cl)	IS 4032: 1985	0.01 % to 0.5 %
27	CHEMICAL- BUILDING MATERIAL	Cement (OPC, PPC & PSC)	Insoluble Residue (IR)	IS 4032 : 1985	0.2 % to 40.0 %
28	CHEMICAL- BUILDING MATERIAL	Cement (OPC, PPC & PSC)	Iron Oxide (Fe ₂ O ₃)	IS 4032: 1985	0.2 to 10.0
29	CHEMICAL- BUILDING MATERIAL	Cement (OPC, PPC & PSC)	Lime (CaO)	IS 4032: 1985	30.0 % to 70.0 %
30	CHEMICAL- BUILDING MATERIAL	Cement (OPC, PPC & PSC)	Loss on Ignition (LOI)	IS 4032: 1985	0.1 % to 10 %
31	CHEMICAL- BUILDING MATERIAL	Cement (OPC, PPC & PSC)	Magnesia (MgO)	IS 4032: 1985	0.2 % to 10.0 %
32	CHEMICAL- BUILDING MATERIAL	Cement (OPC, PPC & PSC)	Potash (K ₂ O)	IS 4032: 1985	0.2 % to 2.0 %
33	CHEMICAL- BUILDING MATERIAL	Cement (OPC, PPC & PSC)	Soda (Na ₂ O)	IS 4032: 1985	0.2 % to 2.0 %
34	CHEMICAL- BUILDING MATERIAL	Cement (OPC, PPC & PSC)	Sulphuric Anhydride (SO ₃)	IS 4032: 1985	0.2 % to 5.0 %



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35	CHEMICAL- BUILDING MATERIAL	Cement (OPC,PPC & PSC)	Silica (SiO ₂)	IS 4032: 1985	16 % to 40 %
36	CHEMICAL- BUILDING MATERIAL	Concrete	Chlorides	IS 14959 (Part 2): 2001	0.1 % to 1.0 %
37	CHEMICAL- BUILDING MATERIAL	Concrete	Sulphates	BS 1881 (Part 124): 2015	0.01 % to 1.0 %
38	CHEMICAL- BUILDING MATERIAL	Fly ash	Alumina (Al ₂ O ₃)	IS 1727: 1967	5 % to 35.0 %
39	CHEMICAL- BUILDING MATERIAL	Fly ash	Alumina (Al ₂ O ₃)	ASTM C311/C311M: 2013	5 % to 35.0 %
40	CHEMICAL- BUILDING MATERIAL	Fly ash	Alumina (Al ₂ O ₃)	ASTM C114: 2015	5 % to 35.0 %
41	CHEMICAL- BUILDING MATERIAL	Fly ash	Available Alkali (Na ₂ O)	IS 3812 (Part 1) (Annex C): 2013	0.01 to 2.0
42	CHEMICAL- BUILDING MATERIAL	Fly ash	Chlorides (Cl)	IS 4032: 1985	0.002 % to 0.5 %
43	CHEMICAL- BUILDING MATERIAL	Fly ash	Iron Oxide (Fe ₂ O ₃)	IS 1727: 1967	0.2 to 10.0
44	CHEMICAL- BUILDING MATERIAL	Fly ash	Iron Oxide (Fe ₂ O ₃)	ASTM C311/C311M: 2013	0.2 % to 10.0 %
45	CHEMICAL- BUILDING MATERIAL	Fly ash	Iron Oxide (Fe ₂ O ₃)	ASTM C114: 2015	0.2 % to 10.0 %
46	CHEMICAL- BUILDING MATERIAL	Fly ash	Lime (CaO)	IS 1727: 1967	0.1 % to 20.0 %
47	CHEMICAL- BUILDING MATERIAL	Fly ash	Loss on Ignition	ASTM C311/C331M: 2013	0.2 % to 10.0 %



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48	CHEMICAL- BUILDING MATERIAL	Fly ash	Loss on Ignition (LOI)	IS 1727: 1967	0.2 to 10.0
49	CHEMICAL- BUILDING MATERIAL	Fly ash	Magnesia (MgO)	IS 1727: 1967	0.02 % to 8.0 %
50	CHEMICAL- BUILDING MATERIAL	Fly ash	Potash (K ₂ O)	IS 1727: 1967	0.2 % to 2.0 %
51	CHEMICAL- BUILDING MATERIAL	Fly ash	Potash (K ₂ O)	ASTM C311/C311M: 2013	0.2 % to 2.0 %
52	CHEMICAL- BUILDING MATERIAL	Fly ash	Potash (K ₂ O)	ASTM C114: 2015	0.2 % to 2.0 %
53	CHEMICAL- BUILDING MATERIAL	Fly ash	Silica (SiO ₂)	IS 1727: 1967	20 % to 70.0 %
54	CHEMICAL- BUILDING MATERIAL	Fly ash	Silica (SiO ₂)	ASTM C311/C311M: 2013	20 % to 70.0 %
55	CHEMICAL- BUILDING MATERIAL	Fly ash	Silica(SiO ₂)	ASTM C114: 2015	20 % to 70.0 %
56	CHEMICAL- BUILDING MATERIAL	Fly ash	Soda (Na ₂ O)	IS 1727: 1967	0.2 % to 2.0 %
57	CHEMICAL- BUILDING MATERIAL	Fly ash	Soda (Na ₂ O)	ASTM C311/C311M: 2013	0.2 % to 2.0 %
58	CHEMICAL- BUILDING MATERIAL	Fly ash	Soda (Na ₂ O)	ASTM C114: 2015	0.2 % to 2.0 %
59	CHEMICAL- BUILDING MATERIAL	Fly ash	Sulphuric Anhydride (SO ₃)	IS 1727: 1967	0.2 % to 5.0 %
60	CHEMICAL- BUILDING MATERIAL	Fly ash	Sulphuric Anhydride (SO ₃)	ASTM C311/C311M: 2013	0.2 % to 5.0 %



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Permanent Facility					
61	CHEMICAL- BUILDING MATERIAL	Fly ash	Sulphuric Anhydride (SO ₃)	ASTM C114: 2015	0.2 % to 5.0 %
62	CHEMICAL- BUILDING MATERIAL	Granulated Slag	Alumina (Al ₂ O ₃)	IS 4032: 1985	3.0 % to 25.0 %
63	CHEMICAL- BUILDING MATERIAL	Granulated Slag	Insoluble matter	IS 4032: 1985	0.2 % to 50.0 %
64	CHEMICAL- BUILDING MATERIAL	Granulated Slag	Iron Oxide (Fe ₂ O ₃)	IS 4032: 1985	0.2 % to 10.0 %
65	CHEMICAL- BUILDING MATERIAL	Granulated Slag	Lime (CaO)	IS 4032: 1985	30.0 % to 70.0 %
66	CHEMICAL- BUILDING MATERIAL	Granulated Slag	Magnesia (MgO)	IS 4032: 1985	0.2 % to 25.0 %
67	CHEMICAL- BUILDING MATERIAL	Granulated Slag	Manganese Oxide (MnO)	IS 4032: 1985	0.2 % to 10.0 %
68	CHEMICAL- BUILDING MATERIAL	Granulated Slag	Moisture	IS 4032: 1985	0.1 % to 5.0 %
69	CHEMICAL- BUILDING MATERIAL	Granulated Slag	Silica (SiO ₂)	IS 4032: 1985	16.0 % to 40.0 %
70	CHEMICAL- BUILDING MATERIAL	Gypsum	Free Lime	IS 2547 (Part 1) (App C): 1976	2.0 % to 15.0 %
71	CHEMICAL- BUILDING MATERIAL	Gypsum	Lime (CaO)	IS 1288: 1982	15.0 % to 40.0 %
72	CHEMICAL- BUILDING MATERIAL	Gypsum	Loss on Ignition (LOI)	IS 2547 (Part 1) (App B): 1976	1.0 % to 12.0 %
73	CHEMICAL- BUILDING MATERIAL	Gypsum	Magnesia (MgO)	IS 2547 (Part 1) (App A): 1976	0.2 to 0.5



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Permanent Facility					
74	CHEMICAL- BUILDING MATERIAL	Gypsum	Soda (Na ₂ O)	IS 2547 (Part 1) (App A): 1976	0.2 % to 0.5 %
75	CHEMICAL- BUILDING MATERIAL	Gypsum	Sulphates	IS 1288 : 1982	25.0 % to 60.0 %
76	CHEMICAL- BUILDING MATERIAL	Micro silica, Silica Fumes	Loss on Ignition (LOI)	IS 1727: 1967	0.2 % to 10.0 %
77	CHEMICAL- BUILDING MATERIAL	Micro silica, Silica Fumes	Loss on Ignition (LOI)	ASTM C311/C311M: 2013	0.2 % to 10.0 %
78	CHEMICAL- BUILDING MATERIAL	Micro silica, Silica Fumes	Moisture	IS 15388: 2003	0.1 % to 5.0 %
79	CHEMICAL- BUILDING MATERIAL	Micro silica, Silica Fumes	Moisture	ASTM C311/C311M: 2013	0.1 % to 5.0 %
80	CHEMICAL- BUILDING MATERIAL	Micro silica, Silica Fumes	Silica (SiO ₂)	IS 1727: 1967	50 % to 95.0 %
81	CHEMICAL- BUILDING MATERIAL	Micro silica, Silica Fumes	Silica (SiO ₂)	ASTM C311/C311M: 2013	50 % to 95.0 %
82	CHEMICAL- BUILDING MATERIAL	Micro silica, Silica Fumes	Soda (Na ₂ O)	IS 4032: 1985	0.2 % to 2.0 %
83	CHEMICAL- BUILDING MATERIAL	Micro silica, Silica Fumes	Soda (Na ₂ O)	ASTM C311/C311M: 2013	0.2 % to 2.0 %



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Permanent Facility					
84	CHEMICAL-CORROSION TESTS	Salt Spray Test (NSS) (Cold Rolled Steel panels for Testing Paint, Varnish, Conversion Coatings, and Related Coating Products, Corrosion products from anodic coatings, Corrosion products from cathodic coatings, Ferrous Pannel/Component/Product with Ni-Cr Coating, Galvanized)	Salt Spray Test (NSS)	ISO 9227: 2017	Qualitative
85	CHEMICAL-CORROSION TESTS	Salt Spray Test (NSS) (Cold Rolled Steel panels for Testing Paint, Varnish, Conversion Coatings, and Related Coating Products, Corrosion products from anodic coatings, Corrosion products from cathodic coatings, Ferrous Pannel/Component/Product with Ni-Cr Coating, Galvanized)	Salt Spray Test (NSS)	BS EN ISO 10289: 2001	Qualitative
86	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Aluminium	ASTM E 415: 2017	0.005 to 0.6
87	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Aluminium	IS 8811: 2000	0.005 % to 0.6 %



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Permanent Facility					
88	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Carbon	ASTM E 415: 2017	0.03 to 1.3
89	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Carbon	IS 8811: 1998	0.03 % to 1.3 %
90	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Chromium	ASTM E 415: 2017	0.01 to 3.25
91	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Chromium	IS 8811: 1998	0.01 % to 3.25 %
92	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Copper	ASTM E 415: 2017	0.01 to 0.50
93	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Copper	IS 8811: 1998	0.01 % to 0.50 %
94	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Manganese	ATM E 415: 2017	0.15 to 2.0
95	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Manganese	IS 8811: 1998	0.15 %u to 2.0 %
96	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Molybdenum	ASTM E 415: 2017	0.01 to 0.95
97	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Molybdenum	IS 8811: 1998	0.01 % to 0.95 %
98	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Nickel	ASTM E 415: 2017	0.020 to 6.5
99	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Nickel	IS 8811: 1998	0.020 % to 6.5 %
100	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Niobium	ASTM E 415: 2017	0.008 to 0.5



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101	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Niobium	IS 8811: 1998	0.008 % to 0.5 %
102	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Phosphorus	ASTM E 415: 2017	0.008 to 0.066
103	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Phosphorus	IS 8811: 1998	0.008 % to 0.066 %
104	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Silicon	ASTM E 415: 2017	0.07 to 1.8
105	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Silicon	IS 8811: 1998	0.07 % to 1.8 %
106	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Sulphur	ASTM E 415: 2017	0.008 to 0.1
107	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Sulphur	IS 8811: 1998	0.008 % to 0.1 %
108	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Vanadium	ASTM E 415: 2017	0.005 to 0.55
109	CHEMICAL- METALS & ALLOYS	Low Alloy & Carbon Steel	Vanadium	IS 8811: 1998	0.005 % to 0.55 %
110	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E 1086: 2014	0.010 % to 0.4 %
111	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	IS 9879: 1998	0.010 % to 0.4 %
112	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E 1086: 2014	5.0 % to 26 %
113	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	IS 9879: 1998	5.0 % to 26 %



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Permanent Facility					
114	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E 1086: 2014	0.02 % to 7.0 %
115	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	IS 9879: 1998	0.02 % to 7.0 %
116	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	ASTM E 1086: 2014	0.35 % to 7.0 %
117	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese	IS 9879: 1998	0.35 % to 7.0 %
118	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM E 1086: 2014	0.02 % to 3 %
119	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	IS 9879: 1998	0.02 % to 3 %
120	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	ASTM E 1086: 2014	0.2 % to 36.0 %
121	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel	IS 9879: 1998	0.2 % to 36.0 %
122	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM E 1086: 2014	0.005 % to 0.033 %
123	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	IS 9879: 1998	0.005 % to 0.033 %
124	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E 1086: 2014	0.15 % to 2.0 %
125	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 9879: 1998	0.15 % to 2.0 %
126	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM E 1086: 2014	0.005 % to 0.03 %



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127	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	IS 9879: 1998	0.005 % to 0.03 %
128	CHEMICAL- METALS & ALLOYS	Steel & Steel Alloys (Plain, Medium & High Carbon Steel)	Carbon	IS 228 (Part 1): 1987	0.05 % to 2.5 %
129	CHEMICAL- METALS & ALLOYS	Steel & Steel Alloys (Plain, Medium & High Carbon Steel)	Chromium	IS 228 (Part 6): 1987	0.10 % to 31.0 %
130	CHEMICAL- METALS & ALLOYS	Steel & Steel Alloys (Plain, Medium & High Carbon Steel)	Manganese	IS 228 (Part 2): 1987	0.10 % to 15.0 %
131	CHEMICAL- METALS & ALLOYS	Steel & Steel Alloys (Plain, Medium & High Carbon Steel)	Molybdenum	IS 228 (Part 7): 1990	1 % to 4 %
132	CHEMICAL- METALS & ALLOYS	Steel & Steel Alloys (Plain, Medium & High Carbon Steel)	Nickel	IS 228 (Part 5): 1987	0.10 % to 22 %
133	CHEMICAL- METALS & ALLOYS	Steel & Steel Alloys (Plain, Medium & High Carbon Steel)	Phosphorus	IS 228 (Part 3): 1987	0.005 % to 0.50 %
134	CHEMICAL- METALS & ALLOYS	Steel & Steel Alloys (Plain, Medium & High Carbon Steel)	Silicon	IS 228 (Part 8): 1989	0.05 % to 0.5 %
135	CHEMICAL- METALS & ALLOYS	Steel & Steel Alloys (Plain, Medium & High Carbon Steel)	Sulphur	IS 6226 (Part 2): 1987	0.01 % to 0.25 %
136	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent Water, Waste Water	BOD	IS 3025 (Part 44): 1993	5 to 10000



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Permanent Facility					
137	CHEMICAL-POLLUTION & ENVIRONMENT	Effluent Water, Waste Water	BOD	APHA 5210: 2017	5 to 10000
138	CHEMICAL-POLLUTION & ENVIRONMENT	Effluent Water, Waste Water	COD	IS 3025 (Part 58): 2006	5 to 10000
139	CHEMICAL-POLLUTION & ENVIRONMENT	Effluent Water, Waste Water	COD	APHA 5220B: 2017	5 to 10000
140	CHEMICAL-POLLUTION & ENVIRONMENT	Effluent Water, Waste Water	Dissolve Oxygen	IS 3025 (Part 38): 1989	1 to 10
141	CHEMICAL-POLLUTION & ENVIRONMENT	Effluent Water, Waste Water	Dissolve Oxygen	APHA 4500 C: 2017	1 to 10
142	CHEMICAL-POLLUTION & ENVIRONMENT	Effluent Water, Waste Water	Oil and Grease	IS 3025 (Part 39): 1991	1 to 5000
143	CHEMICAL-POLLUTION & ENVIRONMENT	Effluent Water, Waste Water	Oil and Grease	APHA 5520: 2017	1 to 5000
144	CHEMICAL-POLLUTION & ENVIRONMENT	Effluent Water, Waste Water	pH Value	IS 3025 (Part 11): 1983	Qualitative
145	CHEMICAL-POLLUTION & ENVIRONMENT	Effluent Water, Waste Water	Total Chromium	APHA 3500 Cr B: 2017	0.05 to 500



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Permanent Facility					
146	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent Water, Waste Water	Total Chromium	IS 3025 (Part 52): 2003	0.05 mg/l to 500 mg/l
147	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent Water, Waste Water	Total Dissolved Solids	IS 3025 (Part 16): 1984	10 to 20000
148	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent Water, Waste Water	Total Suspended Solids	IS 3025 (Part 15): 1984	1 to 10000
149	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent Water, Waste Water	Total Suspended Solids	APHA 2540: 2017	1 to 10000
150	CHEMICAL- SOLID FUELS	Coal & Coke	Ash Content	IS 1350 (Part 1): 1984	0.5 % to 60 %
151	CHEMICAL- SOLID FUELS	Coal & Coke	Fixed Carbon	IS 1350 (Part 1): 1984	0.5 % to 60.0 %
152	CHEMICAL- SOLID FUELS	Coal & Coke	Gross Calorific Value	IS 1350 (Part 2): 2017	2000 Kcal/kg to 10000 Kcal/kg
153	CHEMICAL- SOLID FUELS	Coal & Coke	Total Moisture	IS 1350 (Part 1): 1984	0.5 % to 50 %
154	CHEMICAL- SOLID FUELS	Coal & Coke	Volatile matter	IS 1350 (Part 1): 1984	0.5 % to 60 %
155	CHEMICAL- WATER	Battery Water	Chloride	IS 3025 (Part 32): 1988	10 mg/l to 1000 mg/l
156	CHEMICAL- WATER	Battery Water	Electrical conductivity	IS 3025 (Part 14): 1984	1 µmhos/cm to 100 µmhos/cm
157	CHEMICAL- WATER	Battery Water	Electrical conductivity	APHA 2510: 2017	1 to 100
158	CHEMICAL- WATER	Battery Water	Iron	IS 3025 (Part-53): 2003	0.01 mg/l to 5 mg/l

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



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Permanent Facility					
159	CHEMICAL- WATER	Battery Water	Iron	APHA 3500 Fe B: 2017	0.01 to 5
160	CHEMICAL- WATER	Battery Water	Non -Volatile Residue	IS 1069: 1993	5 mg/l to 20 mg/l
161	CHEMICAL- WATER	Battery Water	pH Value	IS 3025 (Part 11): 1983	Qualitative
162	CHEMICAL- WATER	Battery Water	Total Dissolved Solids	IS 3025 (Part 16): 1984	5 mg/l to 100 mg/l
163	CHEMICAL- WATER	Battery Water	Total Dissolved Solids	APHA 2540 B: 2017	5 to 100
164	CHEMICAL- WATER	Battery Water	Total Hardness	IS 3025 (Part-21): 2009	1 mg/l to 100 mg/l
165	CHEMICAL- WATER	Battery Water	Total Hardness	APHA 2340 C: 2017	1 to 100
166	CHEMICAL- WATER	Construction Water	Chloride	IS 3025 (Part 32): 1988	10 mg/l to 2000 mg/l
167	CHEMICAL- WATER	Construction Water	Inorganic Solids	IS 3025 (Part 18): 1984	10 mg/l to 5000 mg/l
168	CHEMICAL- WATER	Construction Water	Organic Solid	IS 3025 (Part 18): 1984	10 mg/l to 500 mg/l
169	CHEMICAL- WATER	Construction Water	pH Value	IS 3025 (Part 11): 1983	1 to 14
170	CHEMICAL- WATER	Construction Water	Sulphate	IS 3025 (Part 24): 1986	5 mg/l to 500 mg/l
171	CHEMICAL- WATER	Construction Water	Suspended Matter	IS 3025 (Part 17): 1984	5 mg/l to 2000 mg/l
172	CHEMICAL- WATER	Construction Water	Volume of 0.02 N H ₂ SO ₄ required to neutralize 100 ml sample of Water using mix indicator	IS 3025 (Part 23): 1986	0.1 ml to 50 ml
173	CHEMICAL- WATER	Construction Water	Volume of 0.02 N NaOH required to neutralize 100 ml sample of water using phenolphthalein	IS 3025 (Part 22): 1986	0.1 ml to 25 ml



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Permanent Facility					
174	CHEMICAL- WATER	Reagent Grade Water	Colour retention of KMnO ₄	IS 1070: 1992	1 Sec to 3600 Sec
175	CHEMICAL- WATER	Reagent Grade Water	pH Value	IS 3025 (Part 11): 1983	1 to 14
176	CHEMICAL- WATER	Reagent Grade Water	Silica	IS 3025 (Part 35): 1988	0.01 mg/l to 10 mg/l
177	CHEMICAL- WATER	Reagent Grade Water	Silica	APHA 1995: 2017	0.01 to 10
178	CHEMICAL- WATER	Reagent Grade Water	Specific Conductivity	IS 3025 (Part 14): 1984	0.1 μmhos/cm to 25 μmhos/cm
179	CHEMICAL- WATER	Reagent Grade Water	Specific Conductivity	APHA 2510: 2017	0.1 to 25
180	CHEMICAL- WATER	Reagent Grade Water	Total Solids/Non Volatile Residue	IS 3025 (Part 16): 1984	10 mg/l to 100 mg/l
181	CHEMICAL- WATER	Reagent Grade Water	Total Solids/Non Volatile Residue	APHA 2540 B: 2017	10 to 100
182	CHEMICAL- WATER	Water (Drinking water, Water for food, Water for Ice, Mineral Water)	Alkalinity	IS 3025 (Part 23): 1986	2 mg/l to 100 mg/l
183	CHEMICAL- WATER	Water (Drinking water, Water for food, Water for Ice, Mineral Water)	Cadmium	IS 3025 (Part 41): 1992	0.002 mg/l to 5 mg/l
184	CHEMICAL- WATER	Water (Drinking water, Water for food, Water for Ice, Mineral Water)	Calcium	IS 3025 (Part 40): 1991	0.01 mg/l to 500 mg/l
185	CHEMICAL- WATER	Water (Drinking water, Water for food, Water for Ice, Mineral Water)	Chloride	IS 3025 (Part 32): 1988	10 mg/l to 1000 mg/l



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Permanent Facility					
186	CHEMICAL- WATER	Water (Drinking water, Water for food , Water for Ice, Mineral Water)	Colour	IS 3025 (Part 4): 1983	1 Hazen to 500 Hazen
187	CHEMICAL- WATER	Water (Drinking water, Water for food , Water for Ice, Mineral Water)	Copper	IS 3025 (Part 42): 1992	0.03 mg/l to 2 mg/l
188	CHEMICAL- WATER	Water (Drinking water, Water for food , Water for Ice, Mineral Water)	Fluoride	IS 3025 (Part 60): 2008	0.05 mg/l to 20 mg/l
189	CHEMICAL- WATER	Water (Drinking water, Water for food , Water for Ice, Mineral Water)	Iron	IS 3025 (Part 53): 2003	0.01 mg/l to 2 mg/l
190	CHEMICAL- WATER	Water (Drinking water, Water for food , Water for Ice, Mineral Water)	Magnesium	IS 3025 (Part 46): 1994	0.005 mg/l to 200 mg/l
191	CHEMICAL- WATER	Water (Drinking water, Water for food , Water for Ice, Mineral Water)	Manganese	IS 3025 (Part 59): 2006	0.05 mg/l to 0.5 mg/l
192	CHEMICAL- WATER	Water (Drinking water, Water for food , Water for Ice, Mineral Water)	Nickel	IS 3025 (Part 54): 2003	0.01 mg/l to 2 mg/l



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Permanent Facility					
193	CHEMICAL- WATER	Water (Drinking water, Water for food , Water for Ice, Mineral Water)	Odour	IS 3025 (Part 5): 1983	Qualitative
194	CHEMICAL- WATER	Water (Drinking water, Water for food , Water for Ice, Mineral Water)	pH value	IS 3025 (Part 11): 1983	1 to 14
195	CHEMICAL- WATER	Water (Drinking water, Water for food , Water for Ice, Mineral Water)	Silica	IS 3025 (Part 35): 1988	0.1 mg/l to 500 mg/l
196	CHEMICAL- WATER	Water (Drinking water, Water for food , Water for Ice, Mineral Water)	Sulphate	IS 3025 (Part 24): 1986	2 mg/l to 2000 mg/l
197	CHEMICAL- WATER	Water (Drinking water, Water for food , Water for Ice, Mineral Water)	Taste	IS 3025 (Part 7 & 8): 1984	Qualitative
198	CHEMICAL- WATER	Water (Drinking water, Water for food , Water for Ice, Mineral Water)	Total Dissolved Solid	IS 3025 (Part 16): 1984	1 mg/l to 2000 mg/l
199	CHEMICAL- WATER	Water (Drinking water, Water for food , Water for Ice, Mineral Water)	Total Hardness	IS 3025 (Part-21): 2009	5 mg/l to 1000 mg/l



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Permanent Facility					
200	CHEMICAL- WATER	Water (Drinking water, Water for food, Water for Ice, Mineral Water)	Turbidity	IS 3025 (Part 10): 1984	0.2 NTU to 0.1 NTU
201	CHEMICAL- WATER	Water (Drinking Water, Water for Food, Water for Ice, Mineral Water)	Alkalinity	APHA 2320 B: 2017	2 mg/l to 100 mg/l
202	CHEMICAL- WATER	Water (Drinking Water, Water for Food, Water for Ice, Mineral Water)	Chromium	IS 3025 (Part 52): 2003	0.01 mg/l to 0.5 mg/l
203	CHEMICAL- WATER	Water (Drinking Water, Water for Food, Water for Ice, Mineral Water)	Colour	APHA 2120: 2017	1 Hazen to 500 Hazen
204	CHEMICAL- WATER	Water (Drinking Water, Water for Food, Water for Ice, Mineral Water)	Fluoride	APHA 4500 FD: 2017	0.05 mg/l to 20 mg/l
205	CHEMICAL- WATER	Water (Drinking Water, Water for Food, Water for Ice, Mineral Water)	Iron	APHA 3500 Fe B: 2017	0.01 mg/l to 2 mg/l
206	CHEMICAL- WATER	Water (Drinking Water, Water for Food, Water for Ice, Mineral Water)	Lead	IS 3025 (Part 47): 1994	0.005 mg/l to 10 mg/l



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Permanent Facility					
207	CHEMICAL- WATER	Water (Drinking Water, Water for Food, Water for Ice, Mineral Water)	Odor	APHA 2150: 2017	Qualitative
208	CHEMICAL- WATER	Water (Drinking Water, Water for Food, Water for Ice, Mineral Water)	Residual Free Chlorine	IS 3025 (Part 26): 1986	0.01 mg/l to 10 mg/l
209	CHEMICAL- WATER	Water (Drinking Water, Water for Food, Water for Ice, Mineral Water)	Residual Free Chlorine	APHA 4520: 2017	0.01 mg/l to 10 mg/l
210	CHEMICAL- WATER	Water (Drinking Water, Water for Food, Water for Ice, Mineral Water)	Sulphate	APHA 4500 E: 2017	2 mg/l to 2000 mg/l
211	CHEMICAL- WATER	Water (Drinking Water, Water for Food, Water for Ice, Mineral Water)	Total Dissolved Solids	APHA 2540 B : 2017	1 mg/l to 2000 mg/l
212	CHEMICAL- WATER	Water (Drinking Water, Water for Food, Water for Ice, Mineral Water)	Total Hardness	APHA 2340 C: 2017	5 mg/l to 1000 mg/l
213	CHEMICAL- WATER	Water (Drinking Water, Water for Food, Water for Ice, Mineral Water)	Turbidity	APHA 2130 B: 2017	0.2 NTU to 30 NTU
214	CHEMICAL- WATER	Water for Swimming Pools	Chloride	IS 3025 (Part 32): 1988	0.5 mg/l to 1000 mg/l



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Permanent Facility					
215	CHEMICAL- WATER	Water for Swimming Pools	Colour	IS 3025 (Part 4): 1983	1 Hazen to 50 Hazen
216	CHEMICAL- WATER	Water for Swimming Pools	Iron	IS 3025 (Part 53) (Cl. 6): 2003	0.01 mg/l to 2 mg/l
217	CHEMICAL- WATER	Water for Swimming Pools	Odor	IS 3025 (Part 5): 1983	Qualitative
218	CHEMICAL- WATER	Water for Swimming Pools	pH Value	IS 3025 (Part 11): 1983	1 to 14
219	CHEMICAL- WATER	Water for Swimming Pools	Taste	IS 3025 (Part 8): 1984	Qualitative
220	CHEMICAL- WATER	Water for Swimming Pools	Total Alkalinity	IS 3025 (Part 23): 1986	20 mg/l to 1000 mg/l
221	CHEMICAL- WATER	Water for Swimming Pools	Total dissolved Solids	IS 3025 (Part 16): 1984	10 mg/l to 3000 mg/l
222	CHEMICAL- WATER	Water for Swimming Pools	Total Residual Chlorine	IS 3025 (Part 26): 1986	0.01 mg/l to 10 mg/l
223	CHEMICAL- WATER	Water for Swimming Pools	Turbidity	IS 3025 (Part 10): 1984	0.2 NTU to 30 NTU
224	MECHANICAL- BUILDINGS MATERIALS	Admixture	Bleeding	IS 9103: 1999	0.1 % to 10 %
225	MECHANICAL- BUILDINGS MATERIALS	Admixture	Compressive strength	IS 516: 1959	5 N/mm ² to 50 N/mm ²
226	MECHANICAL- BUILDINGS MATERIALS	Admixture	Final Time of Setting, Allowable variation from control sample	IS 8142: 1976	-2 hr to 6 hr



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Permanent Facility					
227	MECHANICAL-BUILDINGS MATERIALS	Admixture	Flexural Strength	IS 516: 1959	1 N/mm ² to 8 N/mm ²
228	MECHANICAL-BUILDINGS MATERIALS	Admixture	Initial Time of Setting, Allowable variation from control sample	IS 8142: 1976	-2 hr to 6 hr
229	MECHANICAL-BUILDINGS MATERIALS	Admixture	Slump	IS 1199: 1959	10 mm to 200 mm
230	MECHANICAL-BUILDINGS MATERIALS	Admixture	Water Content	IS 9103: 1999	50 % to 90 %
231	MECHANICAL-BUILDINGS MATERIALS	Autoclaved Cellular Concrete Blocks	Block Density	IS 6441 (Part 1): 1972	400 kg/m ³ to 1100 kg/m ³
232	MECHANICAL-BUILDINGS MATERIALS	Autoclaved Cellular Concrete Blocks	Compressive Strength	IS 6441 (Part 5): 1972	1.5 N/mm ² to 15 N/mm ²
233	MECHANICAL-BUILDINGS MATERIALS	Autoclaved Cellular Concrete Blocks	Dimension	IS 2185 (Part 3): 1984	50 mm to 700 mm
234	MECHANICAL-BUILDINGS MATERIALS	Autoclaved Cellular Concrete Blocks	Drying Shrinkage	IS 6441 (Part 2): 1972	0.01 % to 1 %
235	MECHANICAL-BUILDINGS MATERIALS	Autoclaved Cellular Concrete Blocks	Moisture Content	IS 6441 (Part 1): 1972	0.01 % to 15 %



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Permanent Facility					
236	MECHANICAL-BUILDINGS MATERIALS	Building Bricks	Compressive Strength	IS 3495 (Part 1): 1992	2 N/mm ² to 40 N/mm ²
237	MECHANICAL-BUILDINGS MATERIALS	Building Bricks	Dimension	IS 1077: 1992	40 mm to 5000 mm
238	MECHANICAL-BUILDINGS MATERIALS	Building Bricks	Efflorescence	IS 3495 (Part 3): 1992	Qualitative
239	MECHANICAL-BUILDINGS MATERIALS	Building Bricks	Water Absorption	IS 3495 (Part 2): 1992	1 % to 30 %
240	MECHANICAL-BUILDINGS MATERIALS	Cement	Compressive Strength	IS 4031 (Part 6): 1988	10 N/mm ² to 80 N/mm ²
241	MECHANICAL-BUILDINGS MATERIALS	Cement	Consistency	IS 4031 (Part 4): 1988	20 % to 40 %
242	MECHANICAL-BUILDINGS MATERIALS	Cement	Density	IS 4031 (Part 11): 1988	2.5 g/cc to 3.5 g/cc
243	MECHANICAL-BUILDINGS MATERIALS	Cement	Setting Time (Final)	IS 4032 (Part 5): 1988	60 Minutes to 600 Minutes
244	MECHANICAL-BUILDINGS MATERIALS	Cement	Setting Time (Initial)	IS 4031 (Part 5): 1988	5 Minutes to 300 Minutes



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Permanent Facility					
245	MECHANICAL-BUILDINGS MATERIALS	Cement	Soundness (Autoclave)	IS 4031 (Part 3): 1988	0.05 % to 10 %
246	MECHANICAL-BUILDINGS MATERIALS	Cement	Soundness (Le-chatelier)	IS 4031 (Part 3): 1988	0.5 mm to 15 mm
247	MECHANICAL-BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Dimension	IS 1237: 2012	100 mm to 400 mm
248	MECHANICAL-BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Flatness	IS 1237 (Annex B): 2012	0.01 mm to 10 mm
249	MECHANICAL-BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Perpendicularity	IS 1237 (Annex C): 2012	0.01 % to 5 %
250	MECHANICAL-BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Resistance to wear	IS 1237 (Annex G): 2012	0.1 % to 10 %
251	MECHANICAL-BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Straightness	IS 1237 (Annex D): 2012	0.01 % to 5 %
252	MECHANICAL-BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Water Absorption	IS 1237 (Annex E): 2012	0.01 % to 20 %
253	MECHANICAL-BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Wet Transverse Strength	IS 1237 (Annex F): 2012	0.5 N/mm ² to 15 N/mm ²



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Permanent Facility					
254	MECHANICAL-BUILDINGS MATERIALS	Chequered Tiles	Dimension	IS 13801: 2013	5 mm to 300 mm
255	MECHANICAL-BUILDINGS MATERIALS	Chequered Tiles	Flatness	IS 13801: 2013	0.01 mm to 10 mm
256	MECHANICAL-BUILDINGS MATERIALS	Chequered Tiles	Perpendicularity	IS 13801: 2013	0.01 % to 5 %
257	MECHANICAL-BUILDINGS MATERIALS	Chequered Tiles	Resistance to wear	IS 13801: 2013	0.1 mm to 10 mm
258	MECHANICAL-BUILDINGS MATERIALS	Chequered Tiles	Straightness	IS 13801: 2013	0.01 % to 5 %
259	MECHANICAL-BUILDINGS MATERIALS	Chequered Tiles	Water Absorption	IS 13801: 2013	0.01 % to 20 %
260	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregates	Crushing value	IS 2386 (Part 4): 1963	1.0 % to 60 %
261	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregates	Elongation Index	IS 2386 (Part 1): 1963	1.0 % to 50 %
262	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregates	Impact Value	IS 2386 (Part 4): 1963	1.0 % to 60 %



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
Permanent Facility					
263	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregates	Soundness	IS 2386 (Part 5): 1963	0 % to 30 %
264	MECHANICAL-BUILDINGS MATERIALS	Coarse & Fine Aggregates	Abrasion Value (Los Angeles)	IS 2386 (Part 4): 1963	1.0 % to 60 %
265	MECHANICAL-BUILDINGS MATERIALS	Coarse & Fine Aggregates	Bulk Density	Is 2386 (Part 3): 1963	1000 kg/m ³ to 3000 kg/m ³
266	MECHANICAL-BUILDINGS MATERIALS	Coarse & Fine Aggregates	Deleterious Material	IS 2386 (Part 2): 1963	0.1 % to 20 %
267	MECHANICAL-BUILDINGS MATERIALS	Coarse & Fine Aggregates	Specific Gravity	IS 2386 (Part 3): 1963	Qualitative(Test is quantitative. Recommended range is 2.5-3.5; MU: 2.61± 0.02)
268	MECHANICAL-BUILDINGS MATERIALS	Coarse & Fine Aggregates	Water Absorption	IS 2386 (Part 3): 1963	0.01 % to 15 %
269	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregates	10% Fine Value	IS 2386 (Part 4): 1963	2 Ton to 50 Ton
270	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregates	Flakiness Index	IS 2386 (Part 1): 1963	1.0 % to 35 %
271	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregates	Sieve Analysis	IS 2386 (Part 1): 1963	80 mm to 4.75 mm



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
Permanent Facility					
272	MECHANICAL-BUILDINGS MATERIALS	Concrete	Compressive Strength	IS 516: 1959	10 N/mm ² to 90 N/mm ²
273	MECHANICAL-BUILDINGS MATERIALS	Concrete	Drying Shrinkage	IS 1199: 1959	0.01 % to 1 %
274	MECHANICAL-BUILDINGS MATERIALS	Concrete	Moisture Movement	IS 1199: 1959	0.005 % to 0.15 %
275	MECHANICAL-BUILDINGS MATERIALS	Concrete	Rapid Chloride Permeability Test	ASTM C 1202: 2017a	50 Coulomb to 10000 Coulomb
276	MECHANICAL-BUILDINGS MATERIALS	Concrete	Water Permeability	BS EN 12390-8: 2009	1 mm to 50 mm
277	MECHANICAL-BUILDINGS MATERIALS	Fine aggregates	Bulk density	IS 2386 (P-3): 1963	1 Kg/ltr to 2 Kg/ltr
278	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregates	Deleterious Materials	IS 2386 (P-2): 1963	0.1 % to 20 %
279	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregates	Sieve Analysis	IS 2386 (P-1): 1963	75 Micron to 4.75 mm
280	MECHANICAL-BUILDINGS MATERIALS	Fine aggregates	Soundness	IS 2386 (P-5): 1963	0.1 % to 20 %



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Permanent Facility					
281	MECHANICAL-BUILDINGS MATERIALS	Fine aggregates	Specific Gravity	IS 2386 (P-3): 1963	1.5 to 3.5
282	MECHANICAL-BUILDINGS MATERIALS	Fine aggregates	Water Absorption	IS 2386 (P-3): 1963	0.1 % to 10 %
283	MECHANICAL-BUILDINGS MATERIALS	Fly ash	Compressive Strength at 28 days	IS 1727: 1967	50 % to 100 %
284	MECHANICAL-BUILDINGS MATERIALS	Fly ash	Density	IS 1727: 1967	1.5 g/cc to 2.80 g/cc
285	MECHANICAL-BUILDINGS MATERIALS	Fly ash	Fineness (Specific Surface) Blaine's	IS 1727: 1967	150 m ² /kg to 800 m ² /kg
286	MECHANICAL-BUILDINGS MATERIALS	Fly ash	Lime reactivity	IS 1727: 1967	1 N/mm ² to 40 N/mm ²
287	MECHANICAL-BUILDINGS MATERIALS	Fly ash	Particle retained on 45 micron IS: Sieve (wet sieving)	IS 1727: 1967	0.05 % to 100 %
288	MECHANICAL-BUILDINGS MATERIALS	Fly ash	Soundness by (Autoclave Expansion)	IS 1727: 1967	0.02 % to 10 %
289	MECHANICAL-BUILDINGS MATERIALS	Hollow & Solid Concrete Blocks	Block Density	IS 2185 (Part 1) (Annex C): 2005	1000 kg/m ³ to 2500 kg/m ³



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Permanent Facility					
290	MECHANICAL-BUILDINGS MATERIALS	Hollow & Solid Concrete Blocks	Compressive Strength	IS 2185 (Part 1) (Annex D): 2005	2.0 N/mm ² to 20 N/mm ²
291	MECHANICAL-BUILDINGS MATERIALS	Hollow & Solid Concrete Blocks	Dimension	IS 2185 (Part 1) (Annex B): 2005	50 mm to 700 mm
292	MECHANICAL-BUILDINGS MATERIALS	Hollow & Solid Concrete Blocks	Drying Shrinkage	IS 2185 (Part 1) (Annex F): 2005	0.01 % to 0.1 %
293	MECHANICAL-BUILDINGS MATERIALS	Hollow & Solid Concrete Blocks	Moisture Movement	IS 2185 (Part 1) (Annex G): 2005	0.005 % to 0.15 %
294	MECHANICAL-BUILDINGS MATERIALS	Hollow & Solid Concrete Blocks	Water Absorption	IS 2185 (Part 1) (Annex E): 2005	0.01 % to 15 %
295	MECHANICAL-BUILDINGS MATERIALS	Micro Silica	Compressive strength at 7 days	IS 1727: 1967	1 N/mm ² to 60 N/mm ²
296	MECHANICAL-BUILDINGS MATERIALS	Micro Silica	Particle retained on 45 micron IS: Sieve (wet sieving)	IS 1727: 1967	0.05 % to 100 %
297	MECHANICAL-BUILDINGS MATERIALS	Micro Silica	Specific Gravity	IS 1727: 1967	Qualitative(Test is quantitative. Recommended range is 2.00 - 2.80; MU: 2.12 ± 0.02)
298	MECHANICAL-BUILDINGS MATERIALS	Paver Block	Abrasion Resistance	IS 15658 (Annex E): 2006	1000 mm ³ to 10000 mm ³



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
Permanent Facility					
299	MECHANICAL-BUILDINGS MATERIALS	Paver Block	Compressive Strength	IS 15658 (Annex D): 2006	10 MPa to 90 MPa
300	MECHANICAL-BUILDINGS MATERIALS	Paver Block	Dimension	IS 15658 (Annex B): 2006	50 mm to 320 mm
301	MECHANICAL-BUILDINGS MATERIALS	Paver Block	Water Absorption	IS 15658 (Annex C): 2006	0.01 % to 7 %
302	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals (Ferrous & Non Ferrous)	Bend Test	IS 1599: 2012	Qualitative
303	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals (Ferrous & Non Ferrous)	Elongation	IS 1608: 2005	1 % to 50 %
304	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals (Ferrous & Non Ferrous)	Rockwell Hardness Number B Scale	IS 1586 (Part 1): 2018	30 HRB to 99 HRB
305	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals (Ferrous & Non Ferrous)	Tensile Strength	IS 1608 : 2005	5 kN to 600 kN
306	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metals (Ferrous & Non Ferrous)	Yield Stress	IS 1608: 2005	5 kN to 600 kN



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
Permanent Facility					
307	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metals (Ferrous & Reinforcement Steel bars)	Mass/Meter Run	IS 1786: 2008	0.1 kg/M to 7 kg/M
308	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metals (Ferrous & Reinforcement Steel bars)	Re-Bend Test	IS 1786: 2008	Qualitative
309	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metals (Ferrous)	Rockwell Hardness Number C Scale	IS 1586 (Part 1): 2018	20 HRC to 65 HRC
310	MECHANICAL- SOIL AND ROCK	Soil	Atterberg's Liquid Limit	IS 2720 (Part 5): 1985	10 % to 80 %
311	MECHANICAL- SOIL AND ROCK	Soil	Atterberg's Plastic Limit	IS 2720 (Part 5): 1985	5 % to 30 %
312	MECHANICAL- SOIL AND ROCK	Soil	CBR Test	IS 2720 (Part 16): 1987	0.5 % to 100 %
313	MECHANICAL- SOIL AND ROCK	Soil	Free Swelling Index	IS 2720 (Part 40): 1977	5 % to 80 %
314	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis by Dry Sieving (Above 4.75 mm)	IS 2720 (Part 4): 1985	600 μ to 2.36 mm
315	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis by Wet Sieving (4.75 - 75 micron)	IS 2720 (Part 4): 1985	75 μ to 600 μ
316	MECHANICAL- SOIL AND ROCK	Soil	Proctor Test (Heavy Compaction)	IS 2720 (Part 8): 1983	1 g/cc to 3 g/cc



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Permanent Facility					
317	MECHANICAL- SOIL AND ROCK	Soil	Proctor Test (Light Compaction)	IS 2720 (Part 7): 1980	1 g/cc to 2.5 g/cc

'NOTE- The Laboratory has demonstrated competence for the stated scope for WATER. This however does not fully cover the specification requirements of BIS for the Packaged Drinking Water as per IS 14543 and the Packaged Natural Mineral Water IS 13428.'