



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name TESTING LABORATORY, EMM TECH CALIBRATION, D1/ 65, SANJAY COLONY, NIMS HOSPITAL ROAD, SECTOR-23, FARIDABAD, HARYANA , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5493 Page No. : 1 / 50

Validity 05/07/2019 to 04/07/2021 Last Amended on -

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	CHEMICAL-ATMOSPHERIC POLLUTION	Air & Gases Ambient Air Quality Monitoring	Ammonia (as NH ₃)	Laboratory SOP-No EMTC/TPM/12c.06. Based on CPCB Guideline Vol-1, Page - 35: 2017	20.0 microg/m ³ to 100.0 microg/m ³
2	CHEMICAL-ATMOSPHERIC POLLUTION	Air & Gases Ambient Air Quality Monitoring	Oxide of Nitrogen (as NO _x)	IS 5182 (Part-6): 2006 RA: 2017	6.0 microg/m ³ to 740.0 microg/m ³
3	CHEMICAL-ATMOSPHERIC POLLUTION	Air & Gases Ambient Air Quality Monitoring	Ozone (as O ₃)	IS 5182 (Part-9): 1974 RA: 2014	10.0 microg/m ³ to 4000.0 microg/m ³
4	CHEMICAL-ATMOSPHERIC POLLUTION	Air & Gases Ambient Air Quality Monitoring	PM 2.5 Particulate Matter (Size<2.5µm)	Laboratory SOP-No EMTC/TPM-12C.02 Based on CPCB Guideline Vol-1 No. 15 to 30) (SOP): 2015	10 microg/m ³ to 2000 microg/m ³
5	CHEMICAL-ATMOSPHERIC POLLUTION	Air & Gases Ambient Air Quality Monitoring	Respirable Suspended Particulate Matter (RSPM – PM ₁₀)	IS 5182 (Part-23):2006 RA: 2012	10 microg/m ³ to 5000.0 microg/m ³
6	CHEMICAL-ATMOSPHERIC POLLUTION	Air & Gases Ambient Air Quality Monitoring	Sulphur Dioxide (as SO ₂)	IS 5182 (Part-2): 2001 RA: 2017	5.0 microg/m ³ to 1050.0 microg/m ³
7	CHEMICAL-ATMOSPHERIC POLLUTION	Air & Gases Ambient Air Quality Monitoring	Suspended Particulate Matter (SPM)	NIOH GUIDELINES, IS 5182 (Part-4): 1999 RA: 2014	10.0 microg/m ³ to 5000.0 microg/m ³
8	CHEMICAL-ATMOSPHERIC POLLUTION	Indoor Air Quality (IAQ)	Nitrogen Oxide (as NO ₂)	NIOH GUIDELINES, IS 5182 (Part-6): 2006 RA: 2017	6.0 microg/m ³ to 740.0 microg/m ³



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9	CHEMICAL-ATMOSPHERIC POLLUTION	Indoor Air Quality (IAQ)	Sulphur Dioxide (as SO ₂)	NIOH GUIDELINES, IS 5182 (Part-2): 2001 RA: 2017	5.0 microg/m ³ to 1050.0 microg/m ³
10	CHEMICAL-ATMOSPHERIC POLLUTION	Indoor Air Quality (IAQ)	Suspended Particulate Matter	NIOH GUIDELINES, IS 5182 (Part-4):1999 RA: 2014	10.0 microg/m ³ to 2000.0 microg/m ³
11	CHEMICAL-ATMOSPHERIC POLLUTION	Noise Ambient and Source	Noise Levels Leq dB(A)	IS 9876: 1981 RA: 2013	34 dB to 134 dB
12	CHEMICAL-ATMOSPHERIC POLLUTION	Noise Ambient and Source	Noise Levels Source	IS 4758 – 1968 RA: 2017	34 dB to 134 dB
13	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Carbon Dioxide	IS 13270:1992 RA: 2014	5.0 % to 15.0 %
14	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Carbon Monoxide	IS 5182 (Part-10): 1999 RA: 2014	0.1 % to 5.0 %
15	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Oxide of Nitrogen	IS 11255 (Part-7):2005 RA: 2017	2.0 mg/Nm ³ to 400.0 mg/Nm ³
16	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Oxygen	IS 13270:1992 RA: 2014	10.0 % to 20.0 %
17	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Particulate Matter (PM)	IS 11255 (Part-1):1985 RA: 2014	10.0 mg/Nm ³ to 2000.0 mg/Nm ³
18	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Sulphur Dioxide	IS 11255 (Part-2):1985 RA: 2014	5.0 mg/Nm ³ to 500.0 mg/Nm ³



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19	CHEMICAL- BUILDING MATERIAL	Admixture	Ash Content	IS 9103:1999 RA: 2013	1.0 % to 20.0 %
20	CHEMICAL- BUILDING MATERIAL	Admixture	Chloride ion Content	IS 9103:1999 RA: 2013	0.001 % to 1.0 %
21	CHEMICAL- BUILDING MATERIAL	Admixture	Chloride ion Content	IS 6925:1973 RA: 2013	0.001 % to 1.0 %
22	CHEMICAL- BUILDING MATERIAL	Admixture	Dry Material Content	IS 9103:1999 RA: 2013	10.0 % to 70 %
23	CHEMICAL- BUILDING MATERIAL	Admixture	pH	IS 9103:1999 RA: 2013	2.0 to 14
24	CHEMICAL- BUILDING MATERIAL	Admixture	Relative Density	IS 9103:1999 RA: 2013	1 to 2
25	CHEMICAL- BUILDING MATERIAL	Concrete	Chloride (as Cl)	IS 14959 (Part-1):2001 RA: 2016	0.05 % to 5.0 %
26	CHEMICAL- BUILDING MATERIAL	Concrete	Sulphate (as SO ₄)	IS 1727:1967 RA: 2013	0.05 % to 5.0 %
27	CHEMICAL- BUILDING MATERIAL	Fly Ash	Available Alkalis as Potassium Oxide (K ₂ O)	IS 4032:1985 RA: 2014	0.01 % to 2.0 %
28	CHEMICAL- BUILDING MATERIAL	Fly Ash	Available Alkalis as Sodium Oxide (Na ₂ O)	IS 4032:1985 RA: 2014	0.01 % to 2.0 %
29	CHEMICAL- BUILDING MATERIAL	Fly Ash	Combined Alumina & Ferric Oxide (as R ₂ O ₃)	IS 1727:1967 RA: 2013	5.0 % to 30.0 %
30	CHEMICAL- BUILDING MATERIAL	Fly Ash	Loss on Ignition	IS 1727:1967 RA: 2013	0.1 % to 15 %
31	CHEMICAL- BUILDING MATERIAL	Fly Ash	Magnesium Oxide (MgO)	IS 1727:1967 RA: 2013	0.1 % to 10.0 %
32	CHEMICAL- BUILDING MATERIAL	Fly Ash	Moisture Content	IS 1727:1967 RA: 2013	0.1 % to 10.0 %



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33	CHEMICAL- BUILDING MATERIAL	Fly Ash	Silicon dioxide (SiO ₂)	IS 1727:1967 RA: 2013	10 % to 70 %
34	CHEMICAL- BUILDING MATERIAL	Fly Ash	Sulphur Trioxide (SO ₃)	IS 1727:1967 RA: 2013	0.01 % to 5.0 %
35	CHEMICAL- BUILDING MATERIAL	Fly Ash	Total Chlorides (as Cl)	IS 4032:1985 RA: 2014	0.01 % to 0.5 %
36	CHEMICAL- BUILDING MATERIAL	Micro Silica / Silica Fume	Available Alkalis as Potassium Oxide (K ₂ O)	IS 4032:1985 RA: 2014	0.01 % to 1.0 %
37	CHEMICAL- BUILDING MATERIAL	Micro Silica / Silica Fume	Available Alkalis as Sodium Oxide (Na ₂ O)	IS 4032:1985 RA: 2014	0.01 % to 1.0 %
38	CHEMICAL- BUILDING MATERIAL	Micro Silica / Silica Fume	Loss on Ignition	IS 1727:1967 RA: 2013	0.1 % to 5.0 %
39	CHEMICAL- BUILDING MATERIAL	Micro Silica / Silica Fume	Moisture Content	IS 1727:1967 RA: 2013	0.1 % to 5.0 %
40	CHEMICAL- BUILDING MATERIAL	Micro Silica / Silica Fume	Silicon dioxide (SiO ₂)	IS 1727:1967 RA: 2013	50.0 % to 99.0 %
41	CHEMICAL- BUILDING MATERIAL	Ordinary Portland Cement (OPC)	Aluminum Oxide (as Al ₂ O ₃)	IS 4032:1985 RA: 2014	2.0 % to 10 %
42	CHEMICAL- BUILDING MATERIAL	Ordinary Portland Cement (OPC)	Calcium Oxide (as CaO)	IS 4032:1985 RA: 2014	35.0 % to 70.0 %
43	CHEMICAL- BUILDING MATERIAL	Ordinary Portland Cement (OPC)	Insoluble Residue	IS 4032:1985 RA: 2014	1.0 % to 35 %
44	CHEMICAL- BUILDING MATERIAL	Ordinary Portland Cement (OPC)	Iron Oxide (as Fe ₂ O ₃)	IS 4.32:1985 RA: 2014	2.0 % to 10 %
45	CHEMICAL- BUILDING MATERIAL	Ordinary Portland Cement (OPC)	Loss on ignition	IS 4032:1985 RA: 2014	1.0 % to 10 %
46	CHEMICAL- BUILDING MATERIAL	Ordinary Portland Cement (OPC)	Magnesium Oxide (as MgO)	IS 4032:1985 RA: 2014	1.0 % to 10.0 %



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47	CHEMICAL- BUILDING MATERIAL	Ordinary Portland Cement (OPC)	Potassium Oxide	IS 4032:1985 RA: 2014	0.1 % to 2.5 %
48	CHEMICAL- BUILDING MATERIAL	Ordinary Portland Cement (OPC)	Silica (as SiO ₂)	IS 4032:1985 RA: 2014	15.0 % to 35 %
49	CHEMICAL- BUILDING MATERIAL	Ordinary Portland Cement (OPC)	Sodium Oxide	IS 4032:1985 RA: 2014	0.1 % to 2.5 %
50	CHEMICAL- BUILDING MATERIAL	Ordinary Portland Cement (OPC)	Sulphuric Anhydride	IS 4032:1985 RA: 2014	1.0 % to 5.0 %
51	CHEMICAL- BUILDING MATERIAL	Ordinary Portland Cement (OPC)	Total Chloride (as Cl)	IS 4032:1985 RA: 2014	0.01 % to 0.5 %
52	CHEMICAL- BUILDING MATERIAL	Plaster of Paris	Calcium Oxide (as CaO)	IS 1288:1982 RA: 2016	20.0 % to 50.0 %
53	CHEMICAL- BUILDING MATERIAL	Plaster of Paris	Loss on Ignition	IS 2547(Part-1):1976 RA: 2017	2.0 % to 15 %
54	CHEMICAL- BUILDING MATERIAL	Plaster of Paris	Soluble Magnesium Salt (as MgO)	IS 2547(Part-1):1976 RA: 2017	0.05 % to 1.0 %
55	CHEMICAL- BUILDING MATERIAL	Plaster of Paris	Soluble Magnesium Salt (as MgO)	IS 1288:1982 RA: 2016	0.05 % to 1.0 %
56	CHEMICAL- BUILDING MATERIAL	Plaster of Paris	Soluble Sodium Salt (as Na ₂ O)	IS 4032:1985 RA: 2014	0.01 % to 1.0 %
57	CHEMICAL- BUILDING MATERIAL	Plaster of Paris	Soluble Sodium Salt (as Na ₂ O)	IS 2547(part-1):1976 RA: 2017	0.01 % to 1.0 %
58	CHEMICAL- BUILDING MATERIAL	Plaster of Paris	Sulphur Trioxide (as SO ₃)	IS 1288:1982 RA: 2016	10.0 % to 50.0 %
59	CHEMICAL- BUILDING MATERIAL	Portland Pozzolana Cement (PPC)	Insoluble Residue	IS 4032:1985 RA: 2014	1.0 % to 35 %
60	CHEMICAL- BUILDING MATERIAL	Portland Pozzolana Cement (PPC)	Loss on Ignition	IS 4032:1985 RA: 2014	1.0 % to 10.0 %



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61	CHEMICAL- BUILDING MATERIAL	Portland Pozzolana Cement (PPC)	Magnesium Oxide (as MgO)	IS 4032:1985 RA: 2014	1.0 % to 10.0 %
62	CHEMICAL- BUILDING MATERIAL	Portland Pozzolana Cement (PPC)	Potassium Oxide	IS 4032:1985 RA: 2014	0.1 % to 2.5 %
63	CHEMICAL- BUILDING MATERIAL	Portland Pozzolana Cement (PPC)	Sodium Oxide	IS 4032:1985 RA: 2014	0.1 % to 2.5 %
64	CHEMICAL- BUILDING MATERIAL	Portland Pozzolana Cement (PPC)	Sulphuric Anhydride	IS 4032:1985 RA: 2014	1.0 % to 5.0 %
65	CHEMICAL- BUILDING MATERIAL	Portland Pozzolana Cement (PPC)	Total Chloride (as Cl)	IS 4032:1985 RA: 2014	0.01 % to 0.50 %
66	CHEMICAL- BUILDING MATERIAL	Portland Slag Cement (PSC)	Insoluble Residue	IS 4032:1985 RA: 2014	1.0 % to 35.0 %
67	CHEMICAL- BUILDING MATERIAL	Portland Slag Cement (PSC)	Loss on Ignition	IS 4032:1985 RA: 2014	1.0 % to 10.0 %
68	CHEMICAL- BUILDING MATERIAL	Portland Slag Cement (PSC)	Magnesium Oxide (as MgO)	IS 4032:1985 RA: 2014	1.0 % to 10.0 %
69	CHEMICAL- BUILDING MATERIAL	Portland Slag Cement (PSC)	Potassium Oxide	IS 4032:1985 RA: 2014	0.1 % to 2.5 %
70	CHEMICAL- BUILDING MATERIAL	Portland Slag Cement (PSC)	Sodium Oxide	IS 4032:1985 RA: 2014	0.1 % to 2.5 %
71	CHEMICAL- BUILDING MATERIAL	Portland Slag Cement (PSC)	Sulfide Sulphur	IS 4032:1985 RA: 2014	0.1 % to 2.0 %
72	CHEMICAL- BUILDING MATERIAL	Portland Slag Cement (PSC)	Sulphuric Anhydride (SO ₃)	IS 4032:1985 RA: 2014	1.0 % to 5.0 %
73	CHEMICAL- BUILDING MATERIAL	Portland Slag Cement (PSC)	Total Chloride (as Cl)	IS 4032:1985 RA: 2014	0.01 % to 0.5 %
74	CHEMICAL- METALS & ALLOYS	Aluminium Products	Thickness of Anodizing Coating	IS 5523:1983 RA: 2016	5 micron to 50 micron



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75	CHEMICAL- METALS & ALLOYS	Mild Steel	Carbon (C)	IS 228(Part-1):1987 Ra: 2018	0.05 % to 2.5 %
76	CHEMICAL- METALS & ALLOYS	Mild Steel	Manganese (Mn)	IS 228(Part-2):1987 RA: 2018	0.1 % to 2.0 %
77	CHEMICAL- METALS & ALLOYS	Mild Steel	Phosphorus (P)	IS 228(Part-3):1987 RA: 2018	0.01 % to 0.5 %
78	CHEMICAL- METALS & ALLOYS	Mild Steel	Silicon (Si)	IS 228(part-8):1989 RA: 2014	0.05 % to 5.0 %
79	CHEMICAL- METALS & ALLOYS	Mild Steel	Sulphur (S)	IS 228(Part-9):1987 RA: 2018	0.01 % to 0.25 %
80	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon (C)	IS 228(Part-1):1987 RA: 2018	0.05 % to 2.5 %
81	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium (Cr)	IS 228(Part-6):1987 RA: 2014	5 % to 20 %
82	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese (Mn)	IS 228(Part-2):1987 RA: 2018	0.12 % to 1.5 %
83	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel (Ni)	IS 228 (Part-5):1987 RA: 2014	1.0 % to 12 %
84	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus (P)	IS 228(Part-3): 1987 RA: 2018	0.02 % to 0.5 %
85	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon (Si)	IS 228 (part-8) :1989 RA: 2014	0.2 % to 1.0 %
86	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur (S)	IS 228(PART-9):1989 RA: 2014	0.01 % to 0.25 %
87	CHEMICAL- METALS & ALLOYS	Steel Products	Mass of Zinc Coating (Mass/Unit area)	IS 6745:1972 RA: 2016	50 g/m ² to 2000 g/m ²
88	CHEMICAL- METALS & ALLOYS	Steel Products	Uniformity of Zinc coating	IS 2633:1986 RA: 2016	Qualitative

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



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89	CHEMICAL- POLLUTION & ENVIRONMENT	Soil / Agriculture Soil / Sludge (Hazardous Waste)	Available Phosphorus	Laboratory SOP-No. EMTC/TPM-09C.08 Based on Ministry of agriculture Manual2011-4.6.3/13: 2011	5.0 mg/kg to 5000.0 mg/kg
90	CHEMICAL- POLLUTION & ENVIRONMENT	Soil / Agriculture Soil / Sludge (Hazardous Waste)	Available Potassium (as K)	Laboratory SOP-No. EMTC/TPM-09C.06 Based on Ministry of agriculture Manual2011-4.6.3/14: 2011	5.0 mg/kg to 1000.0 mg/kg
91	CHEMICAL- POLLUTION & ENVIRONMENT	Soil / Agriculture Soil / Sludge (Hazardous Waste)	Available Sodium (as Na)	Laboratory SOP-No. EMTC/TPM-09C.10 Based on Ministry of agriculture Manual2011-4.6.3/14: 2011	5.0 mg/kg to 1000.0 mg/kg
92	CHEMICAL- POLLUTION & ENVIRONMENT	Soil / Agriculture Soil / Sludge (Hazardous Waste)	Available Sulphur	Laboratory SOP-No. EMTC/TPM-09C.09 Based on Ministry of agriculture Manual2011-4.6.3/15 RA: 2011	5.0 mg/kg to 10000.0 mg/kg
93	CHEMICAL- POLLUTION & ENVIRONMENT	Soil / Agriculture Soil / Sludge (Hazardous Waste)	Chloride (as Cl)	Laboratory SOP-No. EMTC/TPM-09C.12 Based on USDA-M-13,1954 Edition by LA Richards 1969: 1954	5.0 mg/kg to 3000.0 mg/kg
94	CHEMICAL- POLLUTION & ENVIRONMENT	Soil / Agriculture Soil / Sludge (Hazardous Waste)	Conductivity	IS:2720 (P-21)-1977 RA: 2015	10.0 micronS/cm to 5000.0 microS/cm



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95	CHEMICAL- POLLUTION & ENVIRONMENT	Soil / Agriculture Soil / Sludge (Hazardous Waste)	Exchangeable Calcium (as Ca)	Laboratory SOP-No. EMTC/TPM-09C.07 Based on Ministry of agriculture Manual2011-4.6.3/16: 2011	5.0 mg/kg to 5000.0 mg/kg
96	CHEMICAL- POLLUTION & ENVIRONMENT	Soil / Agriculture Soil / Sludge (Hazardous Waste)	Magnesium (as Mg)	Laboratory SOP-No. EMTC/TPM-09C.11 Based on USDA-M-7, 1954 Edition by LA Richards 1969: 1954	10.0 mg/kg to 2500.0 mg/kg
97	CHEMICAL- POLLUTION & ENVIRONMENT	Soil / Agriculture Soil / Sludge (Hazardous Waste)	Organic carbon / Organic Matter	IS:2720 (P-22)-1972 RA: 2015	0.3 % to 50.0 %
98	CHEMICAL- POLLUTION & ENVIRONMENT	Soil / Agriculture Soil / Sludge (Hazardous Waste)	pH	IS:2720 (P-26)-1987 RA: 2011	2.0 to 14.0
99	CHEMICAL- POLLUTION & ENVIRONMENT	Soil / Agriculture Soil / Sludge (Hazardous Waste)	Sulphate (as SO ₄)	IS:2720 (P-27)-1977 RA: 2015	5.0 mg/kg to 1000.0 mg/kg
100	CHEMICAL- POLLUTION & ENVIRONMENT	Soil / Agriculture Soil / Sludge (Hazardous Waste)	Total Nitrogen	Laboratory SOP-No. EMTC/TPM-09C.05 Based on Ministry of agriculture Manual2011-4.6.3/10 : 2011	5.0 mg/kg to 10000.0 mg/kg
101	CHEMICAL- POLLUTION & ENVIRONMENT	Soil / Agriculture Soil / Sludge (Hazardous Waste)	Total Soluble Solid	IS 2720(P-21):1977 RA: 2015	0.005 mg/kg to 5000.0 mg/kg



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102	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent Water	Ammoniacal Nitrogen (as N)	IS 3025(Part-34):1988 RA: 2014	1.0 mg/L to 100 mg/L
103	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent Water	Bio Chemical Oxygen Demand (BOD)(5 days at 20°C)(3 days at 27°C)	IS 3025(Part-44):1993 RA: 2014	2.0 mg/L to 10000 mg/L
104	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent Water	Chemical Oxygen Demand (COD)	IS 3025(Part-58):2006 RA: 2012	4.0 mg/L to 20000 mg/L
105	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent Water	Colour / Appearance	IS 3025(Part-4):1983 RA: 2012	1.0 Hazen to 10000 Hazen
106	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent Water	Conductivity	IS 3025(Part-14):1992 RA: 2012	1.0 microS/cm to 10000 microS/cm
107	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent Water	Dissolved Oxygen	IS 3025(Part-38):1988 RA: 2014	1.0 mg/L to 12.0 mg/L
108	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent Water	Fluoride (as F)	IS 3025(Part-60):2008 RA: 2013	0.2 mg/L to 100.0 mg/L
109	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent Water	Free Ammonia	IS 3025(Part-34):1988 RA: 2014	1.0 mg/L to 200.0 mg/L
110	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent Water	Hexavalent Chromium (as Cr+6)	IS 3025(Part-52):2003 RA: 2014	0.05 mg/L to 10.0 mg/L



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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
111	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent Water	Iron (as Fe)	IS 3025(Part-53):2003 RA: 2014	0.1 mg/L to 50 mg/L
112	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent Water	Nitrate (as N/as NO ₃)	IS 3025(Part-34):1988 RA: 2014	0.2 mg/L to 200.0 mg/L
113	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent Water	Odour	IS 3025(Part-5):1983 RA: 2017	Qualitative
114	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent Water	Oil & Grease	IS 3025(Part-39):1991 RA: 2014	4.0 mg/L to 1000 mg/L
115	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent Water	pH	IS 3025(Part-11):1983 RA: 2012	1.0 to 14.0
116	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent Water	Phenol/Phenolic Compound	IS 3025(Part-43):1992 RA: 2014	0.05 mg/L to 100 mg/L
117	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent Water	Phosphorous (as P) / Phosphate (as PO ₄ , P ₂ O ₅)	IS 3025(Part-31):1988 RA: 2014	0.1 mg/L to 100 mg/L
118	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent Water	Sulphate (as SO ₄)	IS 3025(Part-24):1986 RA: 2014	1.0 mg/L to 2000.0 mg/L
119	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent Water	Sulphide (as H ₂ S)	IS 3025(Part-29):1986 RA: 2014	0.5 mg/L to 20.0 mg/L
120	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent Water	Temperature	IS 3025(Part-9):1984 RA: 2006	-10 Degree C to 100 Degree C



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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
121	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent Water	Total Kjeldahl Nitrogen (as N)	IS 3025(Part-34):1988 RA: 2014	1.0 mg/L to 100.0 mg/L
122	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent Water	Total Solid / Total Dissolved Solid	IS 3025(Part-16):1984 RA: 2012	1.0 mg/L to 50000 mg/L
123	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent Water	Total Suspended Solid	IS 3025(Part-17):1984 RA: 2012	5.0 mg/L to 10000 mg/L
124	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, Effluent Water	Turbidity	IS3025(Part-10):1984 RA: 2012	1.0 NTU to 100.0 NTU
125	CHEMICAL- WATER	Construction Water	Acidity as(NaOH)	IS 3025(Part-23):1986 RA: 2014	1.0 mg/L to 5000 mg/L
126	CHEMICAL- WATER	Construction Water	Alkalinity	IS 3025(Part-22):1986 RA: 2014	1.0 mg/L to 500 mg/L
127	CHEMICAL- WATER	Construction Water	Chloride (as Cl-)	IS 3025(Part-32):1988 Argentometric Method, RA: 2014	2.0 mg/L to 5000 mg/L
128	CHEMICAL- WATER	Construction Water	Inorganic Solid	IS:3025(Part-18):1984 RA: 2012	5.0 mg/L to 10000 mg/L
129	CHEMICAL- WATER	Construction water	Inorganic Solid	APHA 23rd Edn.2017 - 2540 E (Fixed and Volatile Solids Ignited at 5500C): 2017	5.0 mg/L to 10000 mg/L
130	CHEMICAL- WATER	Construction water	Organic Solid	APHA-2540 E:23rd edition: 2017	5.0 mg/L to 1000 mg/L
131	CHEMICAL- WATER	Construction Water	Organic Solid	IS:3025(part-18) :1984 RA: 2012	5.0 mg/L to 1000 mg/L



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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
132	CHEMICAL- WATER	Construction Water	pH	IS 3025 (Part 11) Electrometric method: 1983 Reaffirmed: 2017	2.0 to 12.0
133	CHEMICAL- WATER	Construction Water	Sulphate (as SO ₃)	IS 3025 (Part 24) Turbidity Method: 1986 Reaffirmed: 2014	1.0 mg/L to 2000 mg/L
134	CHEMICAL- WATER	Construction Water	Total Solid / Total Dissolved Solid	IS 3025(Part-16):1984 RA: 2012	1.0 mg/L to 50000 mg/L
135	CHEMICAL- WATER	Construction Water	Total Suspended Solid	IS 3025(Part-17):1984 RA:: 2012	5.0 mg/L to 10000 mg/L
136	CHEMICAL- WATER	Construction Water	Volume of 0.02N, H ₂ SO ₄ required to neutralize 100ml sample of water using mix Indicator	Is:3025 (Part-18):1984 Ra: 2012	5.0 % to 1000 %
137	CHEMICAL- WATER	Construction Water	Volume of 0.02N, NaOH reported to Neutralize 100ml sample of water using phenolphthalein	IS:3025 (Part-19): 1984 RA: 2016	0.05 % to 1000 %
138	CHEMICAL- WATER	Drinking Water	Temperature	APHA-2550 B-23rd Ed. RA: 2017	5.0 Degree C to 40.0 Degree C
139	CHEMICAL- WATER	Drinking Water	Acidity	APHA 23rd Edn.2017 - 2310 B (Titration Method): 2017	1.0 mg/L to 500.0 mg/L
140	CHEMICAL- WATER	Drinking Water	Acidity	IS:3025 (Part-22):1986 RA: 2014	1.0 mg/L to 500.0 mg/L
141	CHEMICAL- WATER	Drinking Water	Alkalinity	IS:3025(Part-23):1986 RA: 2014	1.0 mg/L to 5000.0 mg/L



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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
142	CHEMICAL- WATER	Drinking Water	Alkalinity	APHA 23RD Edn.2017 -2320 B (Titration Method): 2017	1.0 mg/L to 5000.0 mg/L
143	CHEMICAL- WATER	Drinking Water	Ammonia (as Total Ammonia – N)	IS:3025(Part-34):1988 RA: 2014	1.0 mg/L to 100.0 mg/L
144	CHEMICAL- WATER	Drinking Water	Ammoniacal Nitrogen	IS:3025(Part-34):1988 Titrimetric method, RA: 2014	1.0 mg/L to 100.0 mg/L
145	CHEMICAL- WATER	Drinking Water	Ammoniacal Nitrogen	APHA 23rd Edn.2017 - 4500 NH3 C- (Titrametric Method): 2017	1.0 mg/L to 100.0 mg/L
146	CHEMICAL- WATER	Drinking Water	Anionic (Detergent) Surface Active Agent	IS: 13428:2005, Annex 4, RA: 2014	0.05 mg/L to 100.0 mg/L
147	CHEMICAL- WATER	Drinking Water	Anionic (Detergent) Surface Active Agent	APHA 23rd Edn.2017 - 5540 (Anionic Surfactants as MBAS): 2017	0.05 mg/L to 100.0 mg/L
148	CHEMICAL- WATER	Drinking Water	Bio Chemical Oxygen Demand (BOD) @27 deg C for 3 days	IS:3025(Part-44):1993 RA: 2014	2.0 mg/L to 1000.0 mg/L
149	CHEMICAL- WATER	Drinking Water	Bio Chemical Oxygen Demand (BOD) @27 deg C for 5 days	APHA 23rd Edn.2017 - 5210B: 2017	2.0 mg/L to 1000.0 mg/L
150	CHEMICAL- WATER	Drinking Water	Boron (as B)	IS:3025(Part-57):2005 RA: 2010	0.25 mg/L to 10.0 mg/L
151	CHEMICAL- WATER	Drinking Water	Boron (as B)	APHA 23rdEdn.2017 -- 4500B/B (Curcumin Method): 2017	0.25 mg/L to 10.0 mg/L



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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
152	CHEMICAL- WATER	Drinking Water	Calcium (as Ca)	APHA 23rd Edn.2017 -- 3500Ca - B (EDTA Titrimetric Method): 2017	5.0 mg/L to 1000.0 mg/L
153	CHEMICAL- WATER	Drinking Water	Calcium (as Ca)	IS 3025 (Part 40) EDTA Titrimetric method:1991 Reaffirmed: 2014	5.0 mg/L to 1000.0 mg/L
154	CHEMICAL- WATER	Drinking Water	Chemical Oxygen Demand (COD)	IS:3025(Part-58):2006 RA: 2012	4.0 mg/L to 1000.0 mg/L
155	CHEMICAL- WATER	Drinking Water	Chemical Oxygen Demand (COD)	APHA 23rd Edn.2017 - 5220B (Open Reflux Method): 2017	4.0 mg/L to 1000.0 mg/L
156	CHEMICAL- WATER	Drinking Water	Chloride (as Cl)	IS 3025 (Part 32) Argentometric method: 1988 Reaffirmed: 2014	5.0 mg/L to 5000.0 mg/L
157	CHEMICAL- WATER	Drinking Water	Chloride (as Cl-)	APHA 23rd Edn.2017 -- 4500Cl- B (Argentometric Method): 2017	5.0 mg/L to 5000.0 mg/L
158	CHEMICAL- WATER	Drinking Water	Colour / Appearance	APHA 23rd Edn.2017 - 2120B, (Visual Comparison Method): 2017	1.0 Hazen to 50.0 Hazen
159	CHEMICAL- WATER	Drinking Water	Colour / Appearance	IS 3025(Part-4):1983 RA: 2012	1.0 Hazen to 50.0 Hazen
160	CHEMICAL- WATER	Drinking Water	Conductivity	IS 3025(Part-14):1983 RA: 2013	1.0 microS/cm to 10000 microS/cm



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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
161	CHEMICAL- WATER	Drinking Water	Conductivity	APHA 23rd Edn.2017 -2510 B (Laboratory Method): 2017	1.0 micronS/cm to 5000 microS/cm
162	CHEMICAL- WATER	Drinking Water	Dissolved Oxygen	APHA-4500 O – C & G - 23rd Ed RA.: 2017	1.0 mg/L to 20.0 mg/L
163	CHEMICAL- WATER	Drinking Water	Dissolved Oxygen	IS 3025 (Part 38) Titrimetric method (Winker method): 1989 Reaffirmed: 2014	1.0 mg/L to 10.0 mg/L
164	CHEMICAL- WATER	Drinking Water	Fluoride (as F)	APHA-4500F D-23rd Ed RA: 2017	0.2 mg/L to 10.0 mg/L
165	CHEMICAL- WATER	Drinking Water	Fluoride (as F)	APHA 23rd Edn.2017 -- 4500 F- D (SPANDS method): 2017	0.2 mg/L to 10.0 mg/L
166	CHEMICAL- WATER	Drinking Water	Hardness (as CaCO ₃)	APHA 23rd Edn.2017 -2340 C (EDTA Titrimetric Method): 2017	1.0 mg/L to 5000.0 mg/L
167	CHEMICAL- WATER	Drinking Water	Hardness (as CaCO ₃)	IS 3025 (Part 21) EDTA Titrimetric method: 2009 Reaffirmed: 2014	1.0 mg/L to 1000 mg/L
168	CHEMICAL- WATER	Drinking Water	Inorganic Solid (Fixed Solid)	APHA 23rd Edn.2017 - 2540 E (Fixed and Volatile Solids Ignited at 550 degreeC): 2017	5.0 mg/L to 10000.0 mg/L
169	CHEMICAL- WATER	Drinking Water	Inorganic Solid (Fixed Solid)	IS:3025 (Part-18):1984 RA: 2017	5.0 mg/L to 10000.0 mg/L



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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
170	CHEMICAL- WATER	Drinking Water	Iron (as Fe)	IS:3025(Part-53):2003, 1,10 Phenanthroline method, RA: 2014	0.01 mg/L to 20.0 mg/L
171	CHEMICAL- WATER	Drinking Water	Iron (as Fe)	APHA 23rd Edn.2017 - 3500 Fe B (Phenanthroline Method): 2017	0.01 mg/L to 10.0 mg/L
172	CHEMICAL- WATER	Drinking Water	Magnesium (as Mg)	APHA 23rd Edn.2017 -- 3500Mg - B (By Calculation Method): 2017	5 mg/L to 800.0 mg/L
173	CHEMICAL- WATER	Drinking Water	Magnesium (as Mg)	IS 3025 (Part 46) Volumetric method using EDTA: 1994 Reaffirmed: 2014	5 mg/L to 1000 mg/L
174	CHEMICAL- WATER	Drinking Water	Nitrate / Nitrate Nitrogen (as N/as NO ₃)	IS:3025(Part-34):1988 RA: 2014	0.2 mg/L to 100.0 mg/L
175	CHEMICAL- WATER	Drinking Water	Odour	IS 3025(Part-5):1983 RA: 2017	Qualitative(Visual Inspection)
176	CHEMICAL- WATER	Drinking Water	Organic Solid (Volatile Solid)	APHA 23rd Edn.2017 - 2540 E (Fixed and Volatile Solids Ignited at 550 degreeC): 2017	5.0 mg/L to 1000.0 mg/L
177	CHEMICAL- WATER	Drinking Water	Organic Solid (Volatile Solid)	IS:3025 (Part-18):1984 RA: 2017	5.0 mg/L to 1000.0 mg/L
178	CHEMICAL- WATER	Drinking Water	pH	APHA 23rd Edn.2017 - 4500H+ B (Electrometric Method): 2017	2.0 to 12.0



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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
179	CHEMICAL- WATER	Drinking Water	pH	IS 3025 (Part 11) Electrometric method: 1983 Reaffirmed: 2017	2.0 to 12.0
180	CHEMICAL- WATER	Drinking Water	Phenol/Phenolic Compound (C6H5OH)	IS:3025(Part-43):1992, 4 aminoantipyrine method with chloroform extraction RA: 2014	0.001 mg/L to 100.0 mg/L
181	CHEMICAL- WATER	Drinking Water	Phenol/Phenolic Compound (C6H5OH)	APHA-5530 C, D-23rd Ed RA: 2017	0.001 mg/L to 100.0 mg/L
182	CHEMICAL- WATER	Drinking Water	Phosphorus (as P/PO4)	APHA 23rd Edn.2017 - 4500 P-D (Ascorbic Acid Method): 2017	0.1 mg/L to 10.0 mg/L
183	CHEMICAL- WATER	Drinking Water	Phosphorus (as P/PO4)	IS:3025(Part-31):1988 RA: 2014	0.1 mg/L to 20.0 mg/L
184	CHEMICAL- WATER	Drinking Water	Potassium (as K)	IS:3025(Part-45):1993 RA: 2014	1.0 mg/L to 500.0 mg/L
185	CHEMICAL- WATER	Drinking Water	Potassium (as K)	APHA 23rd Edn.2017 -3500 K-D (Flame Emission Photometric Method): 2017	1.0 mg/L to 500.0 mg/L
186	CHEMICAL- WATER	Drinking Water	Residual Free Chlorine	APHA-4500Cl B-23rd Ed RA.: 2017	2.0 mg/L to 10.0 mg/L
187	CHEMICAL- WATER	Drinking Water	Residual Free Chlorine	IS:3025(Part-26):1986 RA: 2014	2.0 mg/L to 10.0 mg/L
188	CHEMICAL- WATER	Drinking Water	Silica (as SiO2)	IS:3025(Part-35):1988, Molybdosilicate method, RA: 2014	0.2 mg/L to 10.0 mg/L



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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
189	CHEMICAL- WATER	Drinking Water	Silica (as SiO ₂)	APHA 23rd Edn.2017 - 4500 SiO ₂ (Molybdosilicate method): 2017	0.2 mg/L to 10.0 mg/L
190	CHEMICAL- WATER	Drinking water	Sodium (as Na)	IS:3025(Part-45):1993 RA: 2014	1.0 mg/L to 10000.0 mg/L
191	CHEMICAL- WATER	Drinking Water	Sodium (as Na)	APHA-3500Na B-23rd Ed RA: 2017	1.0 mg/L to 3000.0 mg/L
192	CHEMICAL- WATER	Drinking Water	Sulphate (as SO ₄)	APHA 23rd Edn.2017 - 4500 SO ₄ -2 E (Turbidimetric Method): 2017	1.0 mg/L to 1000.0 mg/L
193	CHEMICAL- WATER	Drinking Water	Sulphate (as SO ₄)	IS:3025(Part-24):1986 RA: 2014	1.0 mg/L to 1000.0 mg/L
194	CHEMICAL- WATER	Drinking Water	Sulphide (as H ₂ S)	IS:3025(Part-29):1986, Iodometric method,: 2014	0.05 mg/L to 50.0 mg/L
195	CHEMICAL- WATER	Drinking Water	Sulphide (as H ₂ S)	APHA 23rd Edn.2017 - 4500 S ₂ F (Iodometric Method): 2017	0.05 mg/L to 50.0 mg/L
196	CHEMICAL- WATER	Drinking Water	Taste	APHA-2160 C-23rd Ed. RA: 2017	Qualitative(Visual)
197	CHEMICAL- WATER	Drinking Water	Taste	IS 3025(Part-8):1984 RA: 2017	Qualitative(visual)
198	CHEMICAL- WATER	Drinking Water	Temperature	IS 3025(Part-9):1984 RA: 2017	5.0 Degree C to 40.0 Degree C
199	CHEMICAL- WATER	Drinking Water	Total Dissolved Solid	IS:3025(Part-16):1984 RA: 2017	5.0 mg/L to 10000 mg/L
200	CHEMICAL- WATER	Drinking Water	Total Dissolved Solid	APHA-2540 (C)-23rd Ed RA.: 2017	5.0 mg/L to 10000.0 mg/L

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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
201	CHEMICAL- WATER	Drinking Water	Total Kjeldahl Nitrogen (as N)	IS:3025(Part-34):1988 RA: 2014	1.0 mg/L to 1000.0 mg/L
202	CHEMICAL- WATER	Drinking Water	Total Kjeldahl Nitrogen (as N)	APHA 23rd Edn.2017 - 4500 N org-(Macro Kjeldahl Method): 2017	1.0 mg/L to 200.0 mg/L
203	CHEMICAL- WATER	Drinking Water	Total Suspended Solid	IS:3025(Part-17):1984 RA: 2017	5.0 mg/L to 1000.0 mg/L
204	CHEMICAL- WATER	Drinking Water	Total Suspended Solid	APHA-2540 D-23rd Ed RA.: 2017	5.0 mg/L to 1000.0 mg/L
205	CHEMICAL- WATER	Drinking Water	Turbidity	APHA-2130 B-23rd Ed. RA: 2017	1.0 NTU to 50.0 NTU
206	CHEMICAL- WATER	Drinking Water	Turbidity	IS 3025(Part-10):1984 RA: 2017	1.0 NTU to 50.0 NTU
207	CHEMICAL- WATER	RO Water	Alkalinity	IS:3025(Part-23):1986 RA: 2014	1.0 mg/L to 1000.0 mg/L
208	CHEMICAL- WATER	RO Water	Alkalinity	APHA 23rd Edn.2017 -2320 B (Titration Method): 2017	1.0 mg/L to 500.0 mg/L
209	CHEMICAL- WATER	RO Water	Anionic (Detergent) Surface Active Agent	IS: 13428:2005 Annex K, RA: 2014	0.05 mg/L to 10.0 mg/L
210	CHEMICAL- WATER	RO Water	Anionic (Detergent) Surface Active Agent	APHA 23rd Edn.2017 - 5540 (Anionic Surfactants as MBAS): 2017	0.05 mg/L to 10.0 mg/L
211	CHEMICAL- WATER	RO Water	Calcium (as Ca)	APHA 23rd Edn.2017 -- 3500Ca - B (EDTA Titrimetric Method): 2017	0.5 mg/L to 200.0 mg/L



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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
230	CHEMICAL- WATER	RO Water	Residual Free Chloride	IS:3025(Part-26):1986 RA: 2014	2.0 mg/L to 10.0 mg/L
231	CHEMICAL- WATER	RO Water	Sodium (as Na)	IS:3025(Part-45):1993 Flame Photometry method, RA: 2014	1.0 mg/L to 500.0 mg/L
232	CHEMICAL- WATER	RO Water	Sodium (as Na)	APHA 23rd Edn.2017 -3500 Na-B (Flame Emission Photometric Method): 2017	1.0 mg/L to 500.0 mg/L
233	CHEMICAL- WATER	RO Water	Sulphate (as SO ₄)	APHA 23rd Edn.2017 - 4500 SO ₄ -2 E (Turbidimetric Method): 2017	1.0 mg/L to 100.0 mg/L
234	CHEMICAL- WATER	RO Water	Sulphate (as SO ₄)	IS 3025 (Part 24) Turbidity Method: 1986 Reaffirmed: 2014	1.0 mg/L to 100.0 mg/L
235	CHEMICAL- WATER	RO Water	Sulphide (as H ₂ S)	IS:3025(Part-29):1986, Iodometric method, RA: 2014	0.05 mg/L to 10.0 mg/L
236	CHEMICAL- WATER	RO Water	Sulphide (as H ₂ S)	APHA 23rd Edn.2017 - 4500 S ₂ F (Iodometric Method): 2017	0.05 mg/L to 5.0 mg/L
237	CHEMICAL- WATER	RO Water	Taste	IS:3025(Part-8): 1984 RA: 2012	Qualitative(Visual)
238	CHEMICAL- WATER	RO Water	Taste	APHA-2160 C-23rd Ed. RA: 2017	Qualitative(Visual)
239	CHEMICAL- WATER	RO Water	Total Dissolved Solid	APHA-2540 (C)- 23rd Ed. RA: 2017	5.0 mg/L to 500.0 mg/L
240	CHEMICAL- WATER	RO Water	Total Dissolved Solid	IS:3025(Part-16):1984 RA: 2012	5.0 mg/L to 500.0 mg/L

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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
241	CHEMICAL- WATER	Surface/ Ground Water	Acidity	IS:3025 (Part-22):1986 RA: 2014	1.0 mg/L to 500.0 mg/L
242	CHEMICAL- WATER	Surface/ Ground Water	Acidity	APHA 23rd Edn.2017 - 2310 B (Titration Method): 2017	1.0 mg/L to 500.0 mg/L
243	CHEMICAL- WATER	Surface/ Ground Water	Alkalinity	IS:3025(Part-23):1986 RA: 2014	1.0 mg/L to 5000.0 mg/L
244	CHEMICAL- WATER	Surface/ Ground Water	Alkalinity	APHA 23rd Edn.2017 -2320 B (Titration Method): 2017	1.0 mg/L to 5000.0 mg/L
245	CHEMICAL- WATER	Surface/ Ground Water	Ammonia (as Total Ammonia – N)	IS:3025(Part-34):1988, Phenate method, RA: 2014	1.0 mg/L to 100.0 mg/L
246	CHEMICAL- WATER	Surface/ Ground Water	Ammoniacal Nitrogen	IS:3025(Part-34):1988 Titrimetric method, RA: 2014	1.0 mg/L to 100.0 mg/L
247	CHEMICAL- WATER	Surface/ Ground Water	Ammonical Nitrogen	APHA 23rd Edn.2017 - 4500 NH3 C- (Titrametric Method): 2017	1.0 mg/L to 100.0 mg/L
248	CHEMICAL- WATER	Surface/ Ground Water	Anionic (Detergent) Surface Active Agent	APHA 23rd Edn.2017 - 5540 (Anionic Surfactants as MBAS): 2017	0.05 mg/L to 100.0 mg/L
249	CHEMICAL- WATER	Surface/ Ground Water	Anionic (Detergent) Surface Active Agent	IS: 13428:2005, Annex K , RA: 2014	0.05 mg/L to 100.0 mg/L
250	CHEMICAL- WATER	Surface/ Ground Water	Bio Chemical Oxygen Demand (BOD) @27 deg C for 3 days	IS:3025(Part-44):1993 RA: 2014	2.0 mg/L to 1000.0 mg/L



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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
261	CHEMICAL- WATER	Surface/ Ground Water	Colour / Appearance	APHA 23rd Edn.2017 - 2120B, (Visual Comparison Method): 2017	1.0 Hazen to 50.0 Hazen
262	CHEMICAL- WATER	Surface/ Ground Water	Conductivity	APHA-2510 - 23rd Ed. RA: 2017	1.0 micronS/cm to 15000.0 micronS/cm
263	CHEMICAL- WATER	Surface/ Ground Water	Conductivity	IS:3025(Part-14):1984 RA: 2013	1.0 microS/cm to 10000.0 microS/cm
264	CHEMICAL- WATER	Surface/ Ground Water	Dissolved Oxygen	IS 3025 (Part 38) Titrimetric method (Winker method): 1989 Reaffirmed: 2014	1.0 mg/L to 10.0 mg/L
265	CHEMICAL- WATER	Surface/ Ground Water	Dissolved Oxygen	APHA-4500 O – C & G - 23rd Ed. RA: 2017	1.0 mg/L to 10.0 mg/L
266	CHEMICAL- WATER	Surface/ Ground Water	Fluoride (as F)	IS 3025 (part 60) 2008 RA: 2013	0.2 mg/L to 10.0 mg/L
267	CHEMICAL- WATER	Surface/ Ground Water	Fluoride (as F)	APHA-4500F D-23rd Ed. RA: 2017	0.2 mg/L to 100.0 mg/L
268	CHEMICAL- WATER	Surface/ Ground Water	Hardness (as CaCO ₃)	IS 3025 (Part 21) EDTA Titrimetric method: 2009 Reaffirmed: 2014	5.0 mg/L to 2000.0 mg/L
269	CHEMICAL- WATER	Surface/ Ground Water	Hardness (as CaCO ₃)	APHA-2340 C-23rd Ed. RA: 2017	1.0 mg/L to 5000.0 mg/L
270	CHEMICAL- WATER	Surface/ Ground Water	Inorganic Solid (Fixed Solid)	APHA 23rd Edn.2017 - 2540 E (Fixed and Volatile Solids Ignited at 550 degree C): 2017	5.0 mg/L to 10000.0 mg/L
271	CHEMICAL- WATER	Surface/ Ground Water	Inorganic Solid (Fixed Solid)	IS:3025 (Part-18):1984 RA: 2012	5.0 mg/L to 10000.0 mg/L

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



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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
272	CHEMICAL- WATER	Surface/ Ground Water	Iron (as Fe)	IS:3025(Part-53):2003, 1,10 Phenanthroline method, RA: 2014	0.01 mg/L to 10.0 mg/L
273	CHEMICAL- WATER	Surface/ Ground Water	Iron (as Fe)	APHA 23rd Edn.2017 - 3500 Fe B (Phenanthroline Method): 2017	0.01 mg/L to 10.0 mg/L
274	CHEMICAL- WATER	Surface/ Ground Water	Magnesium (as Mg)	APHA 23rd Edn.2017 -- 3500Mg - B (By Calculation Method): 2017	5 mg/L to 500.0 mg/L
275	CHEMICAL- WATER	Surface/ Ground Water	Magnesium (as Mg)	IS 3025 (Part 46) Volumetric method using EDTA: 1994 Reaffirmed: 2014	5 mg/L to 500.0 mg/L
276	CHEMICAL- WATER	Surface/ Ground Water	Nitrate / Nitrate Nitrogen (as N/as NO3)	IS:3025(Part-34):1988 RA: 2014	0.2 mg/L to 200.0 mg/L
277	CHEMICAL- WATER	Surface/ Ground Water	Odour	IS:3025(Part-5): 1983 RA: 2012	Qualitative(visual)
278	CHEMICAL- WATER	Surface/ Ground Water	Organic Solid (Volatile Solid)	APHA 23rd Edn.2017 - 2540 E (Fixed and Volatile Solids Ignited at 550 degree C): 2017	5.0 mg/L to 1000.0 mg/L
279	CHEMICAL- WATER	Surface/ Ground Water	Organic Solid (Volatile Solid)	IS:3025 (Part-18):1984 RA: 2012	5.0 mg/L to 1000.0 mg/L
280	CHEMICAL- WATER	Surface/ Ground Water	pH	IS 3025 (Part 11) Electrometric method: 1983 Reaffirmed: 2017	2.0 to 12.0



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281	CHEMICAL- WATER	Surface/ Ground Water	pH	APHA 23rd Edn.2017 - 4500H+ B (Electrometric Method),: 2017	2.0 to 12.0
282	CHEMICAL- WATER	Surface/ Ground Water	Phenol/Phenolic Compound (C ₆ H ₅ OH)	IS:3025(Part-43):1992 RA: 2014	0.001 mg/L to 1000.0 mg/L
283	CHEMICAL- WATER	Surface/ Ground Water	Phenol/Phenolic Compound (C ₆ H ₅ OH)	APHA 23rd Edn.2017 - 5530 C (Chloroform Extraction Method): 2017	0.01 mg/L to 100.0 mg/L
284	CHEMICAL- WATER	Surface/ Ground Water	Phosphorus (as P/PO ₄)	IS:3025(Part-31):1988 RA: 2014	0.1 mg/L to 50.0 mg/L
285	CHEMICAL- WATER	Surface/ Ground Water	Phosphorus (as P/PO ₄)	APHA-4500 P (D)- 23rd Ed. RA: 2017	0.1 mg/L to 50.0 mg/L
286	CHEMICAL- WATER	Surface/ Ground Water	Potassium (as K)	IS:3025(Part-45):1993 Flame Photometry method, RA: 2014	1.0 mg/L to 200.0 mg/L
287	CHEMICAL- WATER	Surface/ Ground Water	Potassium (as K)	APHA 23rd Edn.2017 -3500 K-D (Flame Emission Photometric Method): 2017	1.0 mg/L to 200.0 mg/L
288	CHEMICAL- WATER	Surface/ Ground Water	Residual Free Chlorine	APHA-4500Cl B-23rd Ed. RA: 2017	2.0 mg/L to 10.0 mg/L
289	CHEMICAL- WATER	Surface/ Ground Water	Residual Free Chlorine	IS:3025(Part-26):1986 RA: 2014	2.0 mg/L to 10.0 mg/L
290	CHEMICAL- WATER	Surface/ Ground Water	Silica (as SiO ₂)	IS:3025(Part-35):1988, Molybdosilicate method, RA: 2014	0.2 mg/L to 50.0 mg/L



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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
334	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Coarse)	Los Angles Abrasion Test	IS 2386(Part-4):1963 RA: 2016	1 % to 50 %
335	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Coarse)	Material finer than 75 micron	IS 2386(Part-1):1963 RA: 2016	0.01 % to 20 %
336	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Coarse)	Soundness Test	IS 2386(Part-5):1963 RA: 2016	1 % to 50 %
337	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Coarse)	Specific Gravity	IS 2386(Part-3):1963 RA: 2016	1.00 to 3.00
338	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Coarse)	Water Absorption	IS 2386(Part-3):1963 RA: 2016	1 % to 10 %
339	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Fine)	Bulk Density	IS 2386(Part-3):1963 RA: 2016	1 g/cc to 5 g/cc
340	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Fine)	Material finer than 75 micron	IS 2386(Part-1):1963 RA: 2016	0.01 % to 20 %
341	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Fine)	Sieve Analysis	IS 2386(Part-1):1963 RA: 2016	0.075 mm to 4.75 mm (up to 100%)
342	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Fine)	Soundness Test	IS 2386(Part-5):1963 RA: 2016	1 % to 50 %
343	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Fine)	Specific Gravity	IS 2386(Part-3):1963 RA: 2016	1.00 to 3.00



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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
344	MECHANICAL-BUILDINGS MATERIALS	Aggregate (Fine)	Water Absorption	IS 2386(Part-3):1963 RA: 2016	1 % to 10 %
345	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208:1978 RA: 2014	10 cm to 100 cm
346	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Flash Point	IS 1448(Part-69): 2013	50 0C to 360 0C
347	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Loss on Heating	IS 1212:1978 RA: 2014	0.1 % to 3 %
348	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205:1978 RA: 2014	27 0C to 200 0C
349	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Solubility in Trichloroethylene	IS 1216:1978 RA: 2014	50 % to 99.9 %
350	MECHANICAL-BUILDINGS MATERIALS	Brick (Brunt Clay Brick)	Compressive Strength	IS 3495(Part-1):1992 RA: 2016	2 N/mm ² to 30 N/mm ²
351	MECHANICAL-BUILDINGS MATERIALS	Brick (Brunt Clay Brick)	Dimension (Height)	IS 1077-1992 RA: 2016	300 mm to 2200 mm
352	MECHANICAL-BUILDINGS MATERIALS	Brick (Brunt Clay Brick)	Dimension (Length)	IS 1077:1992 RA: 2016	1200 mm to 5000 mm
353	MECHANICAL-BUILDINGS MATERIALS	Brick (Brunt Clay Brick)	Dimension (Width)	IS 1077:1992 RA: 2016	1500 mm to 2500 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
354	MECHANICAL-BUILDINGS MATERIALS	Brick (Brunt Clay Brick)	Efflorescence	IS 3495(Part-3):1992 RA: 2016	Qualitative
355	MECHANICAL-BUILDINGS MATERIALS	Brick (Brunt Clay Brick)	Water Absorption	IS 3495(Part-2):1992 RA: 2016	1 % to 35 %
356	MECHANICAL-BUILDINGS MATERIALS	Brick (Brunt Clay Fly Ash Brick)	Compressive Strength	IS 3495(Part-1):1992 RA: 2016	2 N/mm ² to 30 N/mm ²
357	MECHANICAL-BUILDINGS MATERIALS	Brick (Brunt Clay Fly Ash Brick)	Dimension (Height)	IS 13757:1993 RA: 2016	500 mm to 5000 mm
358	MECHANICAL-BUILDINGS MATERIALS	Brick (Brunt Clay Fly Ash Brick)	Dimension (Length)	IS 13757:1993 RA: 2016	500 mm to 5000 mm
359	MECHANICAL-BUILDINGS MATERIALS	Brick (Brunt Clay Fly Ash Brick)	Dimension (Width)	IS 13757:1993 RA: 2016	500 mm to 5000 mm
360	MECHANICAL-BUILDINGS MATERIALS	Brick (Brunt Clay Fly Ash Brick)	Efflorescence	IS 3495(Part-3):1992 RA : 2016	Qualitative
361	MECHANICAL-BUILDINGS MATERIALS	Brick (Brunt Clay Fly Ash Brick)	Water Absorption	IS 3495(Part-2):1992 RA: 2016	1 % to 35 %
362	MECHANICAL-BUILDINGS MATERIALS	Brick (Fly As Brick)	Dimension (Length)	IS 12894:2002 RA: 2017	500 mm to 5000 mm
363	MECHANICAL-BUILDINGS MATERIALS	Brick (Fly Ash Brick)	Compressive Strength	IS 3495(Part-1):1992 RA: 2016	2 N/mm ² to 30 N/mm ²



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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
364	MECHANICAL-BUILDINGS MATERIALS	Brick (Fly Ash Brick)	Dimension (Height)	IS 12894:2002 RA: 2017	500 mm to 5000 mm
365	MECHANICAL-BUILDINGS MATERIALS	Brick (Fly Ash Brick)	Dimension (Width)	IS 12894:2002 RA: 2017	500 mm to 5000 mm
366	MECHANICAL-BUILDINGS MATERIALS	Brick (Fly Ash Brick)	Efflorescence	IS 3495(Part-3):1992 RA: 2016	Qualitative
367	MECHANICAL-BUILDINGS MATERIALS	Brick (Fly Ash Brick)	Water Absorption	IS 3495(Part-2):1992 RA: 2016	1 % to 35 %
368	MECHANICAL-BUILDINGS MATERIALS	Brick (Sewer Brick)	Compressive Strength	IS 3495(Part-1):1992 RA: 2016	2 N/mm ² to 30 N/mm ²
369	MECHANICAL-BUILDINGS MATERIALS	Brick (Sewer Brick)	Dimension (Height)	IS 4885:1988 RA: 2016	500 mm to 5000 mm
370	MECHANICAL-BUILDINGS MATERIALS	Brick (Sewer Brick)	Dimension (Length)	IS 4885:1988 RA: 2016	500 mm to 5000 mm
371	MECHANICAL-BUILDINGS MATERIALS	Brick (Sewer Brick)	Dimension (Width)	IS 4885:1988 RA: 2016	500 mm to 5000 mm
372	MECHANICAL-BUILDINGS MATERIALS	Brick (Sewer Brick)	Efflorescence	IS 3495(Part-3):1992 RA: 2016	Qualitative
373	MECHANICAL-BUILDINGS MATERIALS	Brick (Sewer Brick)	Water Absorption	IS 3495(Part-2):1992 RA: 2016	1 % to 35 %



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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
384	MECHANICAL-BUILDINGS MATERIALS	Cement	Soundness (Autoclave Method)	IS 4031(Part-3):1988 RA: 2014	0.02 % to 2 %
385	MECHANICAL-BUILDINGS MATERIALS	Cement	Soundness (Le-Chatelier Method)	IS 4031(Part-3):1988 RA: 2014	0.1 mm to 10 mm
386	MECHANICAL-BUILDINGS MATERIALS	Cement Concrete Flooring Tile	Resistance to Wear	IS: 13801: 2013	500 mm ³ to 15000 mm ³
387	MECHANICAL-BUILDINGS MATERIALS	Ceramic Tiles	Bulk Density	IS 13630(Part-2):2006 RA: 2016	1 g/cc to 5 g/cc
388	MECHANICAL-BUILDINGS MATERIALS	Ceramic Tiles	Length	IS 13630(Part-1):2006 RA: 2017	10 mm to 600 mm
389	MECHANICAL-BUILDINGS MATERIALS	Ceramic Tiles	Rectangularity	IS 13630(Part-1):2006 RA: 2016	0.01 % to 3 %
390	MECHANICAL-BUILDINGS MATERIALS	Ceramic Tiles	Resistance to Household Chemicals	IS 13630(Part-8):2006 RA: 2016	Qualitative
391	MECHANICAL-BUILDINGS MATERIALS	Ceramic Tiles	Resistance to Staining	IS 13630(Part-8):2006 RA: 2016	Qualitative
392	MECHANICAL-BUILDINGS MATERIALS	Ceramic Tiles	Scratch Hardness of Surface	IS 13630(Part-13):2006 RA: 2016	Qualitative((2 mho's to 9 mho's))
393	MECHANICAL-BUILDINGS MATERIALS	Ceramic Tiles	Straightness of Side	IS 13630(Part-1):2006 RA: 2017	0.01 % to 5 %



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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
394	MECHANICAL-BUILDINGS MATERIALS	Ceramic Tiles	Surface Flatness	IS 13630(Part-1):2006 RA: 2016	0.01 % to 3 %
395	MECHANICAL-BUILDINGS MATERIALS	Ceramic Tiles	Surface Quality	IS 13630(Part-1):2006 RA: 2016	Qualitative
396	MECHANICAL-BUILDINGS MATERIALS	Ceramic Tiles	Thickness	IS 13630(Part-1):2006 RA: 2017	1 mm to 25 mm
397	MECHANICAL-BUILDINGS MATERIALS	Ceramic Tiles	Water Absorption	IS 13630(Part-2):2006 RA: 2016	1 % to 25 %
398	MECHANICAL-BUILDINGS MATERIALS	Ceramic Tiles	Width	IS 13630(Part-1):2006 RA: 2017	10 mm to 600 mm
399	MECHANICAL-BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Dimension-Length	IS:13801: : 2013	1.0 mm to 600 mm
400	MECHANICAL-BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Dimensions- Thickness	IS 13801: 2013	1 mm to 25 mm
401	MECHANICAL-BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Dimensions Width	IS 13801: 2013	0 mm to 600 mm
402	MECHANICAL-BUILDINGS MATERIALS	Chequered Cement Concrete Tile	Flatness of the Surface	IS:13801: 2013	0.05 mm to 1.0 mm
403	MECHANICAL-BUILDINGS MATERIALS	Chequered Cement Concrete Tile	Resistance to Wear	IS:13801: 2013	500 mm ³ to 15000 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
404	MECHANICAL-BUILDINGS MATERIALS	Chequered Cement Concrete Tile	Straightness	IS:13801: 2013	0.1 % to 5 %
405	MECHANICAL-BUILDINGS MATERIALS	Chequered Cement Concrete Tile	Thickness of wearing layer	IS:13801: 2013	0.01 mm to 50 mm
406	MECHANICAL-BUILDINGS MATERIALS	Chequered Cement Concrete Tile	Water Absorption %	IS;13801: 2013	1 % to 20 %
407	MECHANICAL-BUILDINGS MATERIALS	Chequered Cement Concrete Tile	Wet Transverse Strength	IS:1237: 2012	5 N/mm ² to 50 N/mm ²
408	MECHANICAL-BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Flatness of the Tile surface	IS:13801: 2013	0.05 mm to 5.0 mm
409	MECHANICAL-BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Perpendicularity	IS:13801: 2013	0.1 % to 5 %
410	MECHANICAL-BUILDINGS MATERIALS	Concrete	Accelerated Compressive Strength by Boiling Water Method	IS 9013-1978 RA: 2013	5.0 N/mm ² to 80 N/mm ²
411	MECHANICAL-BUILDINGS MATERIALS	Concrete	Compressive Strength (20 KN to 2000 KN)	IS 516-1959 RA: 2013	5.0 N/mm ² to 80 N/mm ²
412	MECHANICAL-BUILDINGS MATERIALS	Concrete Block for Paving (Paver Block)	Compressive Strength	IS 15658:2006: 2017	10 N/mm ² to 65 N/mm ²



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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
413	MECHANICAL-BUILDINGS MATERIALS	Concrete Block for Paving (Paver Block)	Water Absorption	IS 15658:2006 RA: 2017	0.2 % to 50 %
414	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Cast Iron Fittings for Pressure Pipes for Water, Gas & Sewage	Mass	IS 1538:1993 RA: 2013	0.35 kg/m to 20.0 kg/ m
415	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Cast Iron/Ductile Iron Drainage Pipes	Mass	IS 1729: 2002	0.35 kg/m to 15 kg/m
416	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Centrifugally Cast Iron Pressure pipes for Water, Gas & Sewage application	Mass	IS 1536:2001 RA: 2012	0.35 kg/m to 15 kg/m
417	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Dimensions for Hot Rolled Steel Beam, Column, Channel & Angle Sections	Mass	IS:808: 1989 RA: 2004	0.35 kg/m to 15 kg/m
418	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Galvanized Steel Barbed Wire for Fencing	Mass	IS 278: 2009	0.05 kg/m to 5 kg/m
419	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed steel, bars & wires for Concrete reinforcement	Mass	IS 1786: 2008	0.35 kg/m to 15 kg/m



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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
420	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed steel, bars & wires for Concrete reinforcement, Structural Steel	0.2% proof stress	IS 1608(Part-1): 2018	200 kN to 1000 kN
421	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed steel, bars & wires for Concrete reinforcement, Structural Steel	Bend Test	IS 1599: 2012	Qualitative
422	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed steel, bars & wires for Concrete reinforcement, Structural Steel	Percentage Elongation	IS 1608(Part-1): 2018	5 % to 35 %
423	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed steel, bars & wires for Concrete reinforcement, Structural Steel	Rebend Test	IS 1786: 2008	Qualitative(Mandrel dia = 32 m, 40 mms, 48 m, 56 m, 60 mm, 70 mm, 72 mm, 112 mm, 140 mm, 175, mm, 192 mm, 225 mm,)
424	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed steel, bars & wires for Concrete reinforcement, Structural Steel	Tensile Strength	IS 1608(Part-1): 2018	1 kN to 1000 kN
425	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed steel, bars & wires for Concrete reinforcement, Structural Steel	Total Elongation at maximum force	IS 1608(Part-1): 2018	1 % to 30 %



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426	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed steel, bars & wires for Concrete reinforcement, Structural Steel	TS/YS Ratio	IS 1786: 2008	Qualitative(1.02 - 1.3)
427	MECHANICAL- MECHANICAL PROPERTIES OF METALS	HOLLOW STEEL SECTIONS FOR STRUCTURAL USE	Mass	IS 4923: 2017	0.35 kg/ m to 15 kg/m
428	MECHANICAL- MECHANICAL PROPERTIES OF METALS	HOT ROLLED CARBON STEEL SHEET AND STRIP	Dimensions	IS 1079: 2009	1 mm mm to 3000 mm
429	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Hot Rolled Medium and High Tensile Structural Steel	Bend Test	IS 1599: 2012	Qualitative(Mandrel dia = 24 mm, 30 mm, 32 mm, 36 mm, 40 mm, 48 mm, 60 mm, 72 mm, 75 mm, 80 mm, 100 mm, 112 mm, 120 mm, 125 mm, 140 mm, 150 mm, 175 mm, 192 mm, 225 mm, 240 mm,)
430	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Hot Rolled Medium and High Tensile Structural Steel	Percentage Elongation	IS 1608(Part-1): 2018	5 % to 35 %
431	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Hot Rolled Medium and High Tensile Structural Steel	Tensile Strength	IS 1608(Part-1): 2018	1 kN to 1000 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
432	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Hot Rolled Medium and High Tensile Structural Steel	Yield Stress	IS 1608(Part-1): 2018	200 N/ mm ² to 1000 N/ mm ²
433	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Specification for Rolling & Cutting Tolerance for Hot Rolled Steel Products	Mass	IS:1852:1985 RA: 2008	0.35 kg to 20.0 kg
434	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Bars round and Square for structural and general engineering purpose	Dimensions	IS 1732: 1989	1 mm to 200 mm
435	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Bars, Round & Square for Structural & General Engg. Purpose	Mass	IS:1732:1989 RA: 2004	0.35 kg to 20.0 kg
436	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Pipes	Flattening Test	IS 2328: 2018	Qualitative
437	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Plates	Sides (Length, Width)	IS 1730: 1989	1 mm to 5000 mm
438	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Plates	Thickness	IS 1730: 1989	0.1 mm to 25 mm



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439	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel plates, sheets, Strips & Flats for Structural & General Engg. Purposes- Dimension	Mass	IS:1730:1989 RA: 2014	.35 kg to 20 kg
440	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Products (Angle, Channel, Beam)	Depth	IS 808: 1989	0.1 mm to 150 mm
441	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Tubes for Structural Purposes	Diameter	IS 1161: 2014	20 mm to 300 mm
442	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Tubes for Structural Purposes- Specification	Mass	IS:1161:2014 RA: 2014	0.001 kg to 20.0 kg
443	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Tubes Used for Water Wells	Dimensions	IS 4270: 2001	20 mm to 300 mm
444	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Tubes, Tubulars and Other Wrought Fittings Part 1: Steel Tubes	Mass	IS 1239(Part-1): 2004	0.001 kg to 20 kg



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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
445	MECHANICAL- MECHANICAL PROPERTIES OF METALS	WROUGHT ALUMINIUM AND ALUMINIUM ALLOYS — EXTRUDED ROUND TUBE AND HOLLOW SECTIONS FOR GENERAL ENGINEERING PURPOSES	Dimensions	IS 1285: 2002	0.5 mm to 200 mm
446	MECHANICAL- SOIL AND ROCK	Rock	Density by Saturation and Caliper Techniques	IS 13030:1991 RA: 2016	2.40 g/cc to 2.90 g/cc
447	MECHANICAL- SOIL AND ROCK	Rock	Point Load Strength	IS 8764:1979 RA: 2014	1 Mpa to 34 Mpa
448	MECHANICAL- SOIL AND ROCK	Rock	Porosity by Saturation and Caliper Techniques	IS 13030:1991 RA: 2016	1 % to 30 %
449	MECHANICAL- SOIL AND ROCK	Rock	Slake Durability Test	IS 10050:1981 RA: 2016	5 % to 100 %
450	MECHANICAL- SOIL AND ROCK	Rock	Tensile Strength of Rock (Brazilian Test)	IS 10082:1981 RA: 2016	5 N/mm ² to 60 N/mm ²
451	MECHANICAL- SOIL AND ROCK	Rock	Unconfined Compressive Strength	IS 9143:1979 RA: 2016	10 N/mm ² to 300 N/mm ²
452	MECHANICAL- SOIL AND ROCK	Rock	Water Content	IS 13030:1991 RA: 2016	0.1 % to 10 %
453	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio (CBR)	IS 2720(Part-16):1987 RA: 2016	1 % to 60 %
454	MECHANICAL- SOIL AND ROCK	Soil	Consolidated Drained (CD) (C)	BS EN ISO 17892-9: 2018	0.1 kg/cm ² to 2 kg/cm ²



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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
478	MECHANICAL- SOIL AND ROCK	Stone (Granite, Kota, Marble)	Density by Saturation and Caliper Techniques	IS 13030:1991 RA: 2016	1 g/cc to 4 g/cc
479	MECHANICAL- SOIL AND ROCK	Stone (Granite, Kota, Marble)	Water Content	IS 13030:1991 RA: 2016	0.05 % to 20 %
480	MECHANICAL- SOIL AND ROCK	Stones (Granite, Kota, Marble)	Apparent Specific Gravity	IS 1124:1974 RA: 2017	1 to 4
481	MECHANICAL- SOIL AND ROCK	Stones (Granite, Kota, Marble)	Specific Gravity	IS 1122:1974 RA: 2017	2.0 to 3.5
482	MECHANICAL- SOIL AND ROCK	Stones (Granite, Kota, Marble)	Water Absorption	IS 1124:1974 RA: 2017	0.01 % to 20 %
483	MECHANICAL- WOOD AND WOOD PRODUCTS	Plywood	Density	IS 1734(Part-1):1983 RA: 2013	0.4 g/cc to 1.5 g/cc
484	MECHANICAL- WOOD AND WOOD PRODUCTS	Plywood	Dimension (Length)	IS 303:1989 RA: 2013	1 mm to 5000 mm
485	MECHANICAL- WOOD AND WOOD PRODUCTS	Plywood	Dimension (Thickness)	IS 303:1989 RA: 2013	0.5 mm to 25 mm
486	MECHANICAL- WOOD AND WOOD PRODUCTS	Plywood	Dimension (Width)	IS 303:1989 RA: 2013	1 mm to 5000 mm
487	MECHANICAL- WOOD AND WOOD PRODUCTS	Plywood	Edge Straightness	IS 303:1989 RA: 2013	0.01 mm to 5 mm
488	MECHANICAL- WOOD AND WOOD PRODUCTS	Plywood	Moisture Content	IS 1734(Part-1):1983 RA: 2013	1 % to 50 %



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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
489	MECHANICAL- WOOD AND WOOD PRODUCTS	Plywood	Squareness	IS 303:1989 RA: 2013	0.01 mm to 5 mm
490	MECHANICAL- WOOD AND WOOD PRODUCTS	Timber/Wood	Density	IS 1734(Part-1):1983 RA: 2014	0.6 g/cc to 1.5 g/cc
491	MECHANICAL- WOOD AND WOOD PRODUCTS	Timber/Wood	Moisture Content	IS 1708(Part-1):1986 RA: 2015	5 % to 50 %