National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : NILAWAR LABORATORIES (A UNIT OF MNEC CONSULTANTS PVT. LTD.), AT KM STONE 16.5, AMRAVATI ROAD, WADDHAMANA, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 23/08/2021 to 22/08/2023 **Last Amended on** 10/09/2021

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Ammonia	IS 5182 (Part 25)
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Arsenic	SOP No. SOP/AR/09 Dated 01/11/2020, Issue No. 01
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Carbon Monoxide	IS 5182 (Part 10, Clause 3)
4	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Lead	IS 5182 (Part 22, Clause 5)
5	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Nickel	IS 5182 (Part 26, Clause 4)
6	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Oxide of Nitrogen (NO2)	IS 5182 (Part 6)
7	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Ozone	IS 5182 (Part 9)
8	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Particulate Matter (PM 10)	IS 5182 (Part 23)
9	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Particulate Matter (PM 2.5)	IS 5182 (Part 24)
10	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Sulphur Dioxide (SO2)	IS 5182 (Part 2)
11	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Noise	Noise Level	IS 9989
12	CHEMICAL- BUILDING MATERIAL	Coarse Aggregate	pH	DOTD TR 122 Rev. 06/15/20 (Page 1 to 4)
13	CHEMICAL- BUILDING MATERIAL	Concrete Admixture	Ash Content	IS 9103 (Clause 10.1)
14	CHEMICAL- BUILDING MATERIAL	Concrete Admixture	Dry Material Content	IS 9103 (Clause 10.1)
15	CHEMICAL- BUILDING MATERIAL	Concrete Admixture	pH	IS 9103 (Clause 10.1)
16	CHEMICAL- BUILDING MATERIAL	Concrete Admixture	Relative Density	IS 9103 (Clause 10.1)
17	CHEMICAL- BUILDING MATERIAL	Fine Aggregate	pH	DOTD TR 122 Rev 06/15/20 (Page 1 to 4)

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18	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Available Phosphorus (as P)	Methods Manual - Soil Testing in India by Department of Agriculture & Cooperation, Ministry of Agriculture, Govt. of India (Page 95-98)
19	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Available Molybdenum (as Mo)	Methods Manual - Soil Testing in India, by Department of Agriculture & Cooperation, Ministry of Agriculture, Govt. of India (Page 118-120)
20	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Available Nitrogen (as N)	Methods Manual - Soil Testing in India, by Department of Agriculture & Cooperation, Ministry of Agriculture, Govt. of India (Page 89-91)
21	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Available Potassium (as K)	Methods Manual - Soil Testing in India, by Department of Agriculture & Cooperation, Ministry of Agriculture, Govt. of India (Page 99-100)
22	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Boron (as B)	Methods Manual - Soil Testing in India, by Department of Agriculture & Cooperation, Ministry of Agriculture, Govt. of India (Page 117-118)
23	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Calcium (as Ca)	Methods Manual - Soil Testing in India, by Department of Agriculture & Cooperation, Ministry of Agriculture, Govt. of India (Page 102-105)
24	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Cation Exchange Capacity	Methods Manual - Soil Testing in India, by Department of Agriculture & Cooperation, Ministry of Agriculture, Govt. of India (Page 74-76)
25	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Chloride (as Cl-)	BS 1377 (Part 3, Page 14-18)
26	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Copper (as Cu)	Methods Manual - Soil Testing in India, by Department of Agriculture & Cooperation, Ministry of Agriculture, Govt. of India (Page 105-114)

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Certificate Number	TC-9782	**Page No**	3 of 12
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27	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Electric Conductivity	Methods Manual - Soil Testing in India, by Department of Agriculture & Cooperation, Ministry of Agriculture, Govt. of India (Page 81-82)
28	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Free Lime %	IS 2720 (Part 23)
29	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Iron (as Fe)	Methods Manual - Soil Testing in India, by Department of Agriculture & Cooperation, Ministry of Agriculture, Govt. of India (Page 105-114)
30	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Magnesium (as Mg)	Methods Manual - Soil Testing in India, by Department of Agriculture & Cooperation, Ministry of Agriculture, Govt. of India (Page 102-105)
31	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Manganese (as Mn)	Methods Manual - Soil Testing in India, by Department of Agriculture & Cooperation, Ministry of Agriculture, Govt. of India (Page 105-114)
32	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Organic Matter	IS 2720 (Part 22)
33	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	pH	IS 2720 (Part 26)
34	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Sulfur (as S)	IS 2720 (Part 27, Clause 4)
35	CHEMICAL- POLLUTION & ENVIRONMENT	Soil	Zinc (as Zn)	Methods Manual - Soil Testing in India, by Department of Agriculture & Cooperation, Ministry of Agriculture, Govt. of India (Page 105-114)
36	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Biochemical Oxygen Demand-BOD (3 Days at 27 °C)	IS 3025 (Part 44)
37	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)
38	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Chloride (as Cl)	IS 3025 (Part 32, Clause 2)
39	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Non-filterable Residue (Total Suspended Solids)	IS 3025 (Part 17)

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40	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Oil & Grease	IS 3025 (Part 39, Clause 5)
41	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	pH value at 25 °C	IS 3025 (Part 11, Clause 2)
42	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Sulphates (as SO4)	APHA 23rd Edition 4500 SO4 -2 E (Page No 4-199 to 4-200)
43	CHEMICAL- RESIDUES IN WATER	Water	Aluminium (as Al)	IS 3025 (Part 55, Clause 6)
44	CHEMICAL- RESIDUES IN WATER	Water	Arsenic (as As)	IS 3025 (Part 37, Clause 2)
45	CHEMICAL- RESIDUES IN WATER	Water	Cadmium (as Cd)	IS 3025 (Part 41, Clause 5)
46	CHEMICAL- RESIDUES IN WATER	Water	Copper (as Cu)	IS 3025 (Part 42, Clause 6)
47	CHEMICAL- RESIDUES IN WATER	Water	Iron (as Fe)	IS 3025 (Part 53, Clause 7)
48	CHEMICAL- RESIDUES IN WATER	Water	Lead (as Pb)	IS 3025 (Part 47, Clause 7)
49	CHEMICAL- RESIDUES IN WATER	Water	Manganese (as Mn)	APHA 23rd Edition 3111B
50	CHEMICAL- RESIDUES IN WATER	Water	Mercury (as Hg)	IS 3025 (Part 48, Clause 5)
51	CHEMICAL- RESIDUES IN WATER	Water	Nickel (as Ni)	IS 3025 (Part 54, Clause 7)
52	CHEMICAL- RESIDUES IN WATER	Water	Total Chromium (as Cr)	IS 3025 (Part 52, Clause 7)
53	CHEMICAL- RESIDUES IN WATER	Water	Zinc (as Zn)	IS 3025 (Part 49, Clause 5)
54	CHEMICAL- WATER	Surface Water	Chloride (as Cl)	IS 3025 (Part 32, Clause 2)
55	CHEMICAL- WATER	Surface Water	Colour	IS 3025 (Part 4, Clause 2)
56	CHEMICAL- WATER	Surface Water	Nitrite (as NO2N)	IS 3025 (Part 34, Clause 4)
57	CHEMICAL- WATER	Surface Water	Non-Filterable Residue (Total Suspended Solids)	IS 3025 (Part 17)
58	CHEMICAL- WATER	Surface Water	Potassium (as K)	IS 3025 (Part 45, Clause 5)
59	CHEMICAL- WATER	Surface Water	Total Alkalinity	IS 3025 (Part 23)
60	CHEMICAL- WATER	Construction Water	Acidity	IS 3025 (Part 22)

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61	CHEMICAL- WATER	Construction Water	Chloride (as Cl)	IS 3025 (Part 32, Clause 2)
62	CHEMICAL- WATER	Construction Water	Filterable Residue (Total Dissolved Solids)	IS 3025 (Part 16)
63	CHEMICAL- WATER	Construction Water	Fixed Residue (Inorganic)	IS 3025 (Part 18)
64	CHEMICAL- WATER	Construction Water	Non-Filterable Residue (Total Suspended Solids/ Matter)	IS 3025 (Part 17)
65	CHEMICAL- WATER	Construction Water	pH Value at 25 °C	IS 3025 (Part 11)
66	CHEMICAL- WATER	Construction Water	Sulphate (as SO3)	APHA 23 Edition 4500 SO4 -2 E
67	CHEMICAL- WATER	Construction Water	Total Alkalinity	IS 3025 (Part 23)
68	CHEMICAL- WATER	Construction Water	Volatile Residue (Organic)	IS 3025 (Part 18)
69	CHEMICAL- WATER	Drinking Water	Ammonical Nitrogen (as NH3N)	IS 3025 (Part 34, Clause 2.3)
70	CHEMICAL- WATER	Drinking Water	Anionic Detergents (as MBAS)	APHA 23rd Edition 5540 C (Page No. 5-53 to 5-55)
71	CHEMICAL- WATER	Drinking Water	Boron (as B)	IS 3025 (Part 57, Clause 6)
72	CHEMICAL- WATER	Drinking Water	Calcium (as Ca)	IS 3025 (Part 40, Clause 5)
73	CHEMICAL- WATER	Drinking Water	Chloride (as Cl)	IS 3025 (Part 32, Clause 2)
74	CHEMICAL- WATER	Drinking Water	Colour	IS 3025 (Part 4, Clause 2)
75	CHEMICAL- WATER	Drinking Water	Filterable Residue (Total Dissolved Solids)	IS 3025 (Part 16)
76	CHEMICAL- WATER	Drinking Water	Fluoride (as F)	APHA 23rd Edition 4500 F- D (Page No. 4-87 to 4-88)
77	CHEMICAL- WATER	Drinking Water	Magnesium (as Mg)	APHA 23rd Edition 3500 Mg B (Page No. 3-86)
78	CHEMICAL- WATER	Drinking Water	Nitrate (as NO3 N)	APHA 23 Edition Method 4500 NO3-B (Page 4-127)
79	CHEMICAL- WATER	Drinking Water	Nitrite (as NO2N)	IS 3025 (Part 34, Clause 4)
80	CHEMICAL- WATER	Drinking Water	Non-Filterable Residue (Total Suspended Solids)	IS 3025 (Part 17)
81	CHEMICAL- WATER	Drinking Water	pH value at 25 °C	IS 3025 (Part 11, Clause 2)
82	CHEMICAL- WATER	Drinking Water	Sulphates (as SO4)	APHA 23rd Edition 4500 SO4 -2 E (Page No. 4-199 to 4-200)
83	CHEMICAL- WATER	Drinking Water	Total Alkalinity	IS 3025 (Part 23)
84	CHEMICAL- WATER	Drinking Water	Total Hardness	IS 3025 (Part 21, Clause 5)
85	CHEMICAL- WATER	Drinking Water	Turbidity	IS 3025 (Part 10)

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
86	CHEMICAL- WATER	Ground Water	Ammonical Nitrogen (as NH3N)	IS 3025 (Part 34, Clause 2.3)
87	CHEMICAL- WATER	Ground Water	Anionic Detergents (as MBAS)	APHA 23rd Edition 5540 C (Page No. 5-53 to 5-55)
88	CHEMICAL- WATER	Ground Water	Biochemical Oxygen Demand-BOD (3 Days at 27 °C)	IS 3025 (Part 44)
89	CHEMICAL- WATER	Ground Water	Boron (as B)	IS 3025 (Part 57, Clause 6)
90	CHEMICAL- WATER	Ground Water	Calcium (as Ca)	IS 3025 (Part 40, Clause 5)
91	CHEMICAL- WATER	Ground Water	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)
92	CHEMICAL- WATER	Ground Water	Chloride (as Cl)	IS 3025 (Part 32, Clause 2)
93	CHEMICAL- WATER	Ground Water	Colour	IS 3025 (Part 4, Clause 2)
94	CHEMICAL- WATER	Ground Water	Dissolved Oxygen	IS 3025 (Part 38, Clause 4)
95	CHEMICAL- WATER	Ground Water	Electric Conductivity	IS 3025 (Part 14)
96	CHEMICAL- WATER	Ground Water	Filterable Residue (Total Dissolved Solids)	IS 3025 (Part 16)
97	CHEMICAL- WATER	Ground Water	Fluoride (as F)	APHA 23rd Edition 4500 F- D (Page No. 4-87 to 4-88)
98	CHEMICAL- WATER	Ground Water	Magnesium (as Mg)	APHA 23rd Edition 3500 Mg B (Page 3-86)
99	CHEMICAL- WATER	Ground Water	Nitrate (as NO3 N)	APHA 23 Edition Method 4500 NO3-B (Page 4-127)
100	CHEMICAL- WATER	Ground Water	Nitrite (as NO2N)	IS 3025 (Part 34, Clause 4)
101	CHEMICAL- WATER	Ground Water	Non-Filterable Residue (Total Suspended Solids)	IS 3025 (Part 17)
102	CHEMICAL- WATER	Ground Water	Oil & Grease	IS 3025 (Part 39)
103	CHEMICAL- WATER	Ground Water	pH Value at 25 °C	IS 3025 (Part 11, Clause 2)
104	CHEMICAL- WATER	Ground Water	Phosphates (as P)	IS 3025 (Part 31, Clause 4)
105	CHEMICAL- WATER	Ground Water	Silica (as SiO2)	IS 3025 (Part 35)
106	CHEMICAL- WATER	Ground Water	Sodium (as Na)	IS 3025 (Part 45, Clause 5)
107	CHEMICAL- WATER	Ground Water	Sulphates (as SO4)	APHA 23rd Edition 4500 SO4 -2 E (Page No. 4-199 to 4-200)
108	CHEMICAL- WATER	Ground Water	Total Alkalinity	IS 3025 (Part 23)
109	CHEMICAL- WATER	Ground Water	Total Hardness	IS 3025 (Part 21, Clause 5)
110	CHEMICAL- WATER	Ground Water	Turbidity	IS 3025 (Part 10)

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111	CHEMICAL- WATER	Surface Water	Ammonical Nitrogen (as NH3N)	IS 3025 (Part 34, Clause 2.3)
112	CHEMICAL- WATER	Surface Water	Anionic Detergents (as MBAS)	APHA 23rd Edition 5540 C (Page 5-53 to 5-55)
113	CHEMICAL- WATER	Surface Water	Biochemical Oxygen Demand-BOD (3 Days at 27 °C)	IS 3025 (Part 44)
114	CHEMICAL- WATER	Surface Water	Boron (as B)	IS 3025 (Part 57, Clause 6)
115	CHEMICAL- WATER	Surface Water	Calcium (as Ca)	IS 3025 (Part 40, Clause 5)
116	CHEMICAL- WATER	Surface Water	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)
117	CHEMICAL- WATER	Surface Water	Dissolved Oxygen	IS 3025 (Part 38, Clause 4)
118	CHEMICAL- WATER	Surface Water	Electric Conductivity	IS 3025 (Part 14)
119	CHEMICAL- WATER	Surface Water	Filterable Residue (Total Dissolved Solids)	IS 3025 (Part 16)
120	CHEMICAL- WATER	Surface Water	Fluoride (as F)	APHA 23rd Edition 4500 F- D (Page 4-87 to 4-88)
121	CHEMICAL- WATER	Surface Water	Magnesium (as Mg)	APHA 23rd Edition 3500 Mg B (Page 3-86)
122	CHEMICAL- WATER	Surface Water	Nitrate (as NO3 N)	APHA 23 Edition Method 4500 NO3-B (Page 4-127)
123	CHEMICAL- WATER	Surface Water	Oil & Grease	IS 3025 (Part 39)
124	CHEMICAL- WATER	Surface Water	pH value at 25 °C	IS 3025 (Part 11, Clause 2)
125	CHEMICAL- WATER	Surface Water	Phosphates (as P)	IS 3025 (Part 31, Clause 4)
126	CHEMICAL- WATER	Surface Water	Silica (as SiO2)	IS 3025 (Part 35)
127	CHEMICAL- WATER	Surface Water	Sodium (as Na)	IS 3025 (Part 45, Clause 5)
128	CHEMICAL- WATER	Surface Water	Sulphates (as SO4)	APHA 23rd Edition 4500 SO4 -2 E (Page 4-199 to 4-200)
129	CHEMICAL- WATER	Surface Water	Total Hardness	IS 3025 (Part 21, Clause 5)
130	CHEMICAL- WATER	Surface Water	Turbidity	IS 3025 (Part 10)
131	MECHANICAL- BUILDINGS MATERIALS	Aggregate Coarse	10% Fines Value	IS 2386 (Part 4, Clause 3)
132	MECHANICAL- BUILDINGS MATERIALS	Aggregate Coarse	Bulk Density	IS 2386 (Part 3, Clause 3)
133	MECHANICAL- BUILDINGS MATERIALS	Aggregate Coarse	Crushing Value	IS 2386 (Part 4, Clause 2)

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134	MECHANICAL- BUILDINGS MATERIALS	Aggregate Coarse	Elongation Index	IS 2386 (Part 1, Clause 5)
135	MECHANICAL- BUILDINGS MATERIALS	Aggregate Coarse	Flakiness Index	IS 2386 (Part 1, Clause 4)
136	MECHANICAL- BUILDINGS MATERIALS	Aggregate Coarse	Impact Value	IS 2386 (Part 4, Clause 4)
137	MECHANICAL- BUILDINGS MATERIALS	Aggregate Coarse	Los Angles Abrasion Value	IS 2386 (Part 4, Clause 5)
138	MECHANICAL- BUILDINGS MATERIALS	Aggregate Coarse	Sieve Analysis (Sieve Size: 4.75 mm to 80 mm)	IS 2386 (Part 1, Clause 2)
139	MECHANICAL- BUILDINGS MATERIALS	Aggregate Coarse	Soundness by Sodium Sulphate & Magnisium Sulphate	IS 2386 (Part 5)
140	MECHANICAL- BUILDINGS MATERIALS	Aggregate Coarse	Specific Gravity	IS 2386 (Part 3, Clause 2.2 & 2.3)
141	MECHANICAL- BUILDINGS MATERIALS	Aggregate Coarse	Water Absorption	IS 2386 (Part 3, Clause 2.2 & 2.3)
142	MECHANICAL- BUILDINGS MATERIALS	Aggregate Fine	Bulking of Sand	IS 2386 (Part 3, Clause 4.3.3)
143	MECHANICAL- BUILDINGS MATERIALS	Aggregate Fine	Material Finer than 75 micron	IS 2386 (Part 1, Clause 3)
144	MECHANICAL- BUILDINGS MATERIALS	Aggregate Fine	Sieve Analysis (Sieve Size: 10.0 mm to 150 µm)	IS 2386 (Part 1, Clause 2)
145	MECHANICAL- BUILDINGS MATERIALS	Aggregate Fine	Soundness by Sodium Sulphate & Magnisium Sulphate	IS 2386 (Part 5)
146	MECHANICAL- BUILDINGS MATERIALS	Aggregate Fine	Specific Gravity (Pyknometer Method)	IS 2386 (Part 3, Clause 2.4)
147	MECHANICAL- BUILDINGS MATERIALS	Aggregate Fine	Water Absorption	IS 2386 (Part 3, Clause 2.4)
148	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility Test	IS 1208
149	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penitration Value	IS 1203
150	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Specific Gravity	IS 1202
151	MECHANICAL- BUILDINGS MATERIALS	Building Brick	Compressive Strength	IS 3495 (Part 1)
152	MECHANICAL- BUILDINGS MATERIALS	Building Brick	Dimenssion	IS 1077

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153	MECHANICAL- BUILDINGS MATERIALS	Building Brick	Efflorescence	IS 3495 (Part 3)
154	MECHANICAL- BUILDINGS MATERIALS	Building Brick	Water Absorption	IS 3495 (Part 2)
155	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Compressive Strength of Hydraulic Cement	IS 4031 (Part 6)
156	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Consistency	IS 4031 (Part 4)
157	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Density	IS 4031 (Part 11)
158	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Final Setting Time	IS 4031 (Part 5)
159	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Fineness Dry Sieving	IS 4031 (Part 1)
160	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Initial Setting Time	IS 4031 (Part 5)
161	MECHANICAL- BUILDINGS MATERIALS	Cement (OPC & PPC)	Soundness by Le-chatelier	IS 4031 (Part 3)
162	MECHANICAL- BUILDINGS MATERIALS	Concrete	Compressive Strength of Concrete cubes	IS 516 (Clause 5)
163	MECHANICAL- BUILDINGS MATERIALS	Concrete	Flexural on Beam	IS 516 (Clause 6)
164	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Compressive Strength	IS 15658 Annex D
165	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Plan Area	IS 15658 Annex B
166	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Water Absorption	IS 15658 Annex C
167	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	0.2 % Proof Strength	IS 1608 (Part 1)
168	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Bend Test	IS 1599
169	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Mass per meter	IS 1786

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170	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Percent Elongation	IS 1608 (Part 1)
171	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Re- Bend Test	IS 1786
172	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Tensile Strength	IS 1608 (Part 1)
173	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Yield strength	IS 1608 (Part 1)
174	MECHANICAL- SOIL AND ROCK	Rock	Point Load Test	IS 8764
175	MECHANICAL- SOIL AND ROCK	Rock	Porosity	IS 13030 (Clause 5)
176	MECHANICAL- SOIL AND ROCK	Rock	Specific Gravity	IS 1124
177	MECHANICAL- SOIL AND ROCK	Rock	Split Tensile for Brazilian Test	IS 10082 (Clause 4)
178	MECHANICAL- SOIL AND ROCK	Rock	Uniaxial Compressive Strength Test	IS 9143
179	MECHANICAL- SOIL AND ROCK	Rock	Water Absorption	IS 1124
180	MECHANICAL- SOIL AND ROCK	Rock	Water Content	IS 13030 (Clause 4)
181	MECHANICAL- SOIL AND ROCK	Rock	Wet/ Dry Density	IS 13030 (Clause 5)
182	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio (CBR) Test	IS 2720 (Part 16)
183	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test (Compression Index Cc)	IS 2720 (Part 15)
184	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test Angle (Ø)	IS 2720 (Part 13)
185	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test Cohesion (C)	IS 2720 (Part 13)
186	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40)

SCOPE OF ACCREDITATION

Laboratory Name :	NILAWAR LABORATORIES (A UNIT OF MNEC CONSULTANTS PVT. LTD.), AT KM STONE 16.5, AMRAVATI ROAD, WADDHAMANA, NAGPUR, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
187	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (Hydrometer)	IS 2720 (Part 4, Clause 5.2)
188	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (Sieve) Gravel % (Dry & Wet Sieve Analysis) (Sieve Size: 80 mm to 75 micron)	IS 2720 (Part 4, Clause 3 & 4)
189	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (Sieve)- Sand % (Dry & Wet Sieve Analysis) (Sieve Size: 80 mm to 75 micron)	IS 2720 (Part 4, Clause 3 & 4)
190	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction of Soil (OMC)	IS 2720 (Part 8)
191	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction of Soil (MDD)	IS 2720 (Part 8)
192	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part 5, Clause 3)
193	MECHANICAL- SOIL AND ROCK	Soil	Natural Moisture Content (Oven Dry Method)	IS 2720 (Part 2)
194	MECHANICAL- SOIL AND ROCK	Soil	Permeability Test (Falling Head)	IS 2720 (Part 17, Clause 6)
195	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 5, Clause 7)
196	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 (Part 6)
197	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part 3, Section 1)
198	MECHANICAL- SOIL AND ROCK	Soil	Standard Proctor Test (Light Compaction) (MDD)	IS 2720 (Part 7)
199	MECHANICAL- SOIL AND ROCK	Soil	Standard Proctor Test (Light Compaction) (OMC)	IS 2720 (Part 7)
200	MECHANICAL- SOIL AND ROCK	Soil	Swell Pressure test	IS 2720 (Part 41)

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Site Facility				
1	MECHANICAL- SOIL AND ROCK	In - Situ Tests (Soil)	In Situ Density Test By Sand Replacement Method	IS 2720 (Part 28)
2	MECHANICAL- SOIL AND ROCK	In - Situ Tests (Soil)	Load Test on Pile by Lateral Load Method	IS 2911 (Part 4, Clause 8)
3	MECHANICAL- SOIL AND ROCK	In - Situ Tests (Soil)	Load Test on Pile by Pull out Method	IS 2911 (Part 4, Clause 9)
4	MECHANICAL- SOIL AND ROCK	In - Situ Tests (Soil)	Plate Load Test	IS 1888