National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ARIHANT TESTING & RESEARCH CENTRE LLP, 19-8-94, THIRD MILL, SECOND GATE, SURYADEVARA BHASVAIHA ESTATE, GUNTUR, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7878 **Page No** 1 of 9

Validity 26/09/2021 to 25/09/2023 **Last Amended on** -

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- BUILDING MATERIAL	Bentonite	Loss on Ignition	IS 6186
2	CHEMICAL- BUILDING MATERIAL	Bentonite	Moisture Content	IS 6186
3	CHEMICAL- BUILDING MATERIAL	Bentonite	pH	IS 6186
4	CHEMICAL- BUILDING MATERIAL	Coarse Aggregate	Alkali aggregate Reactivity (Chemical) -Dissolved Silica -- Reduction in alkalinity -Nature	IS 2386 (Part 7)
5	CHEMICAL- BUILDING MATERIAL	Coarse Aggregate	Sulphate	BS 812 (Part 118)
6	CHEMICAL- BUILDING MATERIAL	Concrete	Sulphate	BS 812 Part 118)
7	CHEMICAL- BUILDING MATERIAL	Concrete Admixture	Ash Content	IS 9103
8	CHEMICAL- BUILDING MATERIAL	Concrete Admixture	Chloride Content	IS 6925
9	CHEMICAL- BUILDING MATERIAL	Concrete Admixture	Dry Material Content	IS 9103
10	CHEMICAL- BUILDING MATERIAL	Concrete Admixture	pH	IS 9103
11	CHEMICAL- BUILDING MATERIAL	Concrete Admixture	Relative Density	IS 9103
12	CHEMICAL- BUILDING MATERIAL	Fine Aggregate	Alkali aggregate Reactivity (Chemical) Dissolved Silica Reduction in alkanity nature	IS 2386 (Part 7)
13	CHEMICAL- BUILDING MATERIAL	Fine Aggregate	Sulphate	BS 812(Part 118)
14	CHEMICAL- BUILDING MATERIAL	Fly ash, Silica Fume, Micro Silica	Alumina (Al2O3)	IS 1727
15	CHEMICAL- BUILDING MATERIAL	Fly ash, Silica Fume, Micro Silica	Calcium Oxide (CaO)	IS 1727
16	CHEMICAL- BUILDING MATERIAL	Fly ash, Silica Fume, Micro Silica	Iron Oxide (Fe2O3)	IS 1727
17	CHEMICAL- BUILDING MATERIAL	Fly ash, Silica Fume, Micro Silica	Loss on Ignition	IS 1727

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7878 **Page No** 2 of 9

Validity 26/09/2021 to 25/09/2023 **Last Amended on** -

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18	CHEMICAL- BUILDING MATERIAL	Fly ash, Silica Fume, Micro Silica	Magnesium Oxide (MgO)	IS 1727
19	CHEMICAL- BUILDING MATERIAL	Fly ash, Silica Fume, Micro Silica	Moisture Content	IS 15388
20	CHEMICAL- BUILDING MATERIAL	Fly ash, Silica Fume, Micro Silica	Silica (as SiO2)	IS 1727
21	CHEMICAL- BUILDING MATERIAL	Fly ash, Silica Fume, Micro Silica	Sulphuric Anhydride (SO3)	IS 1727
22	CHEMICAL- BUILDING MATERIAL	OPC 33,43,53,43S,53S/PPC/PSG/GGBS	Al2O3	IS 4032
23	CHEMICAL- BUILDING MATERIAL	OPC 33,43,53,43S,53S/PPC/PSG/GGBS	Calcium Oxide (as CaO)	IS 4032
24	CHEMICAL- BUILDING MATERIAL	OPC 33,43,53,43S,53S/PPC/PSG/GGBS	Fe2O3	IS 4032
25	CHEMICAL- BUILDING MATERIAL	OPC 33,43,53,43S,53S/PPC/PSG/GGBS	Insoluble Residue	IS 4032
26	CHEMICAL- BUILDING MATERIAL	OPC 33,43,53,43S,53S/PPC/PSG/GGBS	Loss on Ignition	IS 4032
27	CHEMICAL- BUILDING MATERIAL	OPC 33,43,53,43S,53S/PPC/PSG/GGBS	Magnesium Oxide (as MgO)	IS 4032
28	CHEMICAL- BUILDING MATERIAL	OPC 33,43,53,43S,53S/PPC/PSG/GGBS	Silicon Dioxide	IS 4032
29	CHEMICAL- BUILDING MATERIAL	OPC 33,43,53,43S,53S/PPC/PSG/GGBS	Sulfuric Anhydride	IS 4032
30	CHEMICAL- BUILDING MATERIAL	Soil	Conductivity (1: 2) at 25 °C	IS 2720 (Part 21)
31	CHEMICAL- BUILDING MATERIAL	Soil	Organic Matter	IS 2720 (Part 22)
32	CHEMICAL- BUILDING MATERIAL	Soil	pH	IS 2720 (Part 26)
33	CHEMICAL- BUILDING MATERIAL	Soil	Silica	IS 2720 (Part 25)
34	CHEMICAL- METALS & ALLOYS	HT Strand Wire	Phosphorus	IS 228 (Part 3)
35	CHEMICAL- METALS & ALLOYS	HT Strand Wire	Sulphur	IS 228 (Part 9)
36	CHEMICAL- METALS & ALLOYS	Plain Carbon, Low Alloy, Steels & Tor Steel	Carbon	IS 228 (Part 1)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7878 **Page No** 3 of 9

Validity 26/09/2021 to 25/09/2023 **Last Amended on** -

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37	CHEMICAL- METALS & ALLOYS	Plain Carbon, Low Alloy, Steels & Tor Steel	Manganese	IS 228 (Part 2)
38	CHEMICAL- METALS & ALLOYS	Plain Carbon, Low Alloy, Steels & Tor Steel	Phosphorus	IS 228 (Part 3)
39	CHEMICAL- METALS & ALLOYS	Plain Carbon, Low Alloy, Steels & Tor Steel	Silicon	IS 228 (Part 8)
40	CHEMICAL- METALS & ALLOYS	Plain Carbon, Low Alloy, Steels & Tor Steel	Sulphur	IS 228 (Part 9)
41	CHEMICAL- WATER	Drinking Water	Alkalinity	IS 3025 (Part 23)
42	CHEMICAL- WATER	Drinking Water	Calcium	IS 3025 (Part 40)
43	CHEMICAL- WATER	Drinking Water/Ground Water/Surface Water	Chlorides	IS 3025 (Part 32)
44	CHEMICAL- WATER	Drinking Water/Ground Water/Surface Water	Colour	IS 3025 (Part 4)
45	CHEMICAL- WATER	Drinking Water/Ground Water/Surface Water	Conductivity	IS 3025 (Part 14)
46	CHEMICAL- WATER	Drinking Water/Ground Water/Surface Water	Fluoride	IS 3025 (Part 60)
47	CHEMICAL- WATER	Drinking Water/Ground Water/Surface Water	Iron	IS 3025 (Part 53)
48	CHEMICAL- WATER	Drinking Water/Ground Water/Surface Water	Magnesium	IS 3025 (Part 46)
49	CHEMICAL- WATER	Drinking Water/Ground Water/Surface Water	Nitrate as (NO3)	IS 3025 (Part 34)
50	CHEMICAL- WATER	Drinking Water/Ground Water/Surface Water	pH	IS 3025 (Part 11)
51	CHEMICAL- WATER	Drinking Water/Ground Water/Surface Water	Phenolic Compounds (as C6H5OH)	IS 3025 (Part 43)
52	CHEMICAL- WATER	Drinking Water/Ground Water/Surface Water	Residual Free Chlorine	IS 3025 (Part 26)
53	CHEMICAL- WATER	Drinking Water/Ground Water/Surface Water	Sulphates	IS 3025 (Part 24)
54	CHEMICAL- WATER	Drinking Water/Ground Water/Surface Water	Total Dissolved Solids	IS 3025 (Part 16)
55	CHEMICAL- WATER	Drinking Water/Ground Water/Surface Water	Total Hardness	IS 3025 (Part 21)
56	CHEMICAL- WATER	Drinking Water/Ground Water/Surface Water	Turbidity	IS 3025 (Part 4)
57	CHEMICAL- WATER	Water for construction purpose	Chloride	IS 3025 (Part 32)
58	CHEMICAL- WATER	Water for construction purpose	Inorganic Solids	IS 3025 (Part 18)
59	CHEMICAL- WATER	Water for construction purpose	Organic Solids	IS 3025 (Part 18)
60	CHEMICAL- WATER	Water for construction purpose	pH	IS 3025 (Part 11)
61	CHEMICAL- WATER	Water for construction purpose	Sulphate	IS 3025 (Part 24)
62	CHEMICAL- WATER	Water for construction purpose	Suspended Solids	IS 3025 (Part 17)
63	CHEMICAL- WATER	Water for construction purpose	To Neutralize 100 ml sample of water, using Mixed Indicator	IS 3025 (Part 22)

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7878 **Page No** 4 of 9

Validity 26/09/2021 to 25/09/2023 **Last Amended on** -

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
64	CHEMICAL- WATER	Water for construction purpose	To Neutralize 100 ml sample of water, using phenolphthalein as an Indicator	IS 3025 (Part 23)
65	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Block Density	IS 6441 (Part 1)
66	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Compressive Strength	IS 6441 (Part 5)
67	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Dimension	IS 2185 (Part 3)
68	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Moisture Content	IS 6441 (Part 1)
69	MECHANICAL- BUILDINGS MATERIALS	Bentonite	Gel Formation Index	IS 6186
70	MECHANICAL- BUILDINGS MATERIALS	Bentonite	Liquid limit	IS 2720 (Part 5)
71	MECHANICAL- BUILDINGS MATERIALS	Bentonite	Sand Content	IS 6186
72	MECHANICAL- BUILDINGS MATERIALS	Bentonite	Swelling Power	IS 6186
73	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Flash Point	IS 1209
74	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Solubility in Trichloroethylene	IS 1216
75	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks/ FlyAsh Bricks	Compressive Strength	IS 3495 (Part 1)
76	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks/ FlyAsh Bricks	Dimensions (Height)	IS 1077 & 12894
77	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks/ FlyAsh Bricks	Dimensions (Length)	IS 1077 & 12894
78	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks/ FlyAsh Bricks	Dimensions (Width)	IS 1077 & 12894
79	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks/ FlyAsh Bricks	Efflorescence	IS 3495 (Part 3)
80	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks/ FlyAsh Bricks	Water Absorption	IS 3495 (Part 2)
81	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10% Fine Value	IS 2386 (Part 1)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7878 **Page No** 5 of 9

Validity 26/09/2021 to 25/09/2023 **Last Amended on** -

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
82	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Aggregate impact value	IS 2386 (Part 4)
83	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 (Part 3)
84	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part 4)
85	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Deleterious Material	IS 2386 (Part 1 & 2)
86	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1)
87	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part 1)
88	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis	IS 2386 (Part 1)
89	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness (By MgSO4)	IS 2386 (Part 5)
90	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness (By Na2SO4)	IS 2386 (Part 5)
91	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	specific Gravity	IS 2386 (Part 3)
92	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 3)
93	MECHANICAL- BUILDINGS MATERIALS	Concrete Admixture	Slump	IS 1199
94	MECHANICAL- BUILDINGS MATERIALS	Concrete Beam	Flexural Strength	IS 516
95	MECHANICAL- BUILDINGS MATERIALS	Concrete Core	Compressive Strength	IS 516 (Part 4)
96	MECHANICAL- BUILDINGS MATERIALS	Concrete Core	Density	IS 516 (Part 2 / Sec 1)
97	MECHANICAL- BUILDINGS MATERIALS	Concrete Cube	Compressive Strength	IS 516
98	MECHANICAL- BUILDINGS MATERIALS	Concrete Cube	Density	IS 516
99	MECHANICAL- BUILDINGS MATERIALS	Concrete Cube/Cylinder	Accelerated Cured Concrete Test	IS 9013
100	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (Part 3)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7878 **Page No** 6 of 9

Validity 26/09/2021 to 25/09/2023 **Last Amended on** -

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101	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Deleterious Material	IS 2386 (Part 1 & 2)
102	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Organic Impurities	IS 2386 (Part 2)
103	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis	IS 2386 (Part 1)
104	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Slit Content	CPWD:2019, Appendix C, Clause 3.1.3.2
105	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness (By MgSO4)	IS2386 (Part 5)
106	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness (By Na2SO4)	IS 2386 (Part 5)
107	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 3)
108	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part 3)
109	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Compressive Strength	IS 1727
110	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Fineness by Blaine's air permeability	IS 1727
111	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Lime Reactivity	IS 1727
112	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Particle retained on 45µ Sieve (Wet Sieving)	IS 1727
113	MECHANICAL- BUILDINGS MATERIALS	Fly ash	Specific Gravity	IS 1727
114	MECHANICAL- BUILDINGS MATERIALS	Kerb	Water Absorption	IS 5758
115	MECHANICAL- BUILDINGS MATERIALS	Micro Siica	Particle retained on 45µ Sieve (Wet Sieving)	IS 1727
116	MECHANICAL- BUILDINGS MATERIALS	Micro Silica	Compressive Strength	IS 1727
117	MECHANICAL- BUILDINGS MATERIALS	OPC 33,43,53,43S,53S/PPC/PSG/GGBS	Compressive Strength (28 Days)	IS 4031 (Part 6)
118	MECHANICAL- BUILDINGS MATERIALS	OPC 33,43,53,43S,53S/PPC/PSG/GGBS	Compressive Strength (3 Days)	IS 4031 (Part 6)
119	MECHANICAL- BUILDINGS MATERIALS	OPC 33,43,53,43S,53S/PPC/PSG/GGBS	Compressive Strength (7 Days)	IS 4031 (Part 6)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7878 **Page No** 7 of 9

Validity 26/09/2021 to 25/09/2023 **Last Amended on** -

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120	MECHANICAL- BUILDINGS MATERIALS	OPC 33,43,53,43S,53S/PPC/PSG/GGBS	Density	IS 4031 (Part 11)
121	MECHANICAL- BUILDINGS MATERIALS	OPC 33,43,53,43S,53S/PPC/PSG/GGBS	Final Setting Time	IS 4031 (Part 5)
122	MECHANICAL- BUILDINGS MATERIALS	OPC 33,43,53,43S,53S/PPC/PSG/GGBS	Fineness by Blaine's Air Permeability	IS 4031 (Part 2)
123	MECHANICAL- BUILDINGS MATERIALS	OPC 33,43,53,43S,53S/PPC/PSG/GGBS	Initial Setting Time	IS 4031 (Part 5)
124	MECHANICAL- BUILDINGS MATERIALS	OPC 33,43,53,43S,53S/PPC/PSG/GGBS	Soundness by Le-Chatelier Method	IS 4031 (Part 3)
125	MECHANICAL- BUILDINGS MATERIALS	OPC 33,43,53,43S,53S/PPC/PSG/GGBS	Standard Consistency	IS 4031 (Part 4)
126	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Compressive Strength	IS 15658
127	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Dimensions	IS 15658
128	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Thickness of Wearing Layer	IS 15658
129	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Water Absorption	IS 15658
130	MECHANICAL- BUILDINGS MATERIALS	Water Proofing Compound	Compressive Strength (3 days)	IS 4031 (Part 6)
131	MECHANICAL- BUILDINGS MATERIALS	Water Proofing Compound	Compressive Strength (7 days)	IS 4031 (Part 6)
132	MECHANICAL- BUILDINGS MATERIALS	Water Proofing Compound	Final Setting Time	IS 4031 (Part 5)
133	MECHANICAL- BUILDINGS MATERIALS	Water Proofing Compound	Initial Setting Time	IS 4031 (Part 5)
134	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars, Hot Rolled Medium and High Tensile Structural Steel& Steel Section for Structural Purposes	Percentage Elongation after Fracture	IS 1608 (P-1)
135	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars, Hot Rolled Medium and High Tensile Structural Steel& Steel Section for Structural Purposes	Tensile Strength	IS 1608 (P-1)
136	MECHANICAL- MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars, Hot Rolled Medium and High Tensile Structural Steel& Steel Section for Structural Purposes	Yield Strength	IS 1608 (P-1)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7878 **Page No** 8 of 9

Validity 26/09/2021 to 25/09/2023 **Last Amended on** -

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137	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars	Bend Test	IS 1599
138	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and Wires	Nominal Mass	IS 1786
139	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength Deformed Steel Bars and Wires	Re Bend	IS 1786
140	MECHANICAL-MECHANICAL PROPERTIES OF METALS	HT Strand Wire	Difference in dia of central wire and surrounding wires	IS 14268
141	MECHANICAL-MECHANICAL PROPERTIES OF METALS	HT Strand Wire	Length of Lay	IS 14268
142	MECHANICAL-MECHANICAL PROPERTIES OF METALS	HT Strand Wire	Nominal area of Strand Wire	IS 14268
143	MECHANICAL-MECHANICAL PROPERTIES OF METALS	HT Strand Wire	Nominal dia of Strand	IS 14268
144	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Coupler	Tensile Strength	IS 16172
145	MECHANICAL- SOIL AND ROCK	Natural Building Stone	Apparent Specific Gravity	IS 1124
146	MECHANICAL- SOIL AND ROCK	Natural building Stone	Compressive Strength	IS 1121 (Part 1)
147	MECHANICAL- SOIL AND ROCK	Natural Building Stone	Moh's Hardness (Scratch Hardness)	IS 13630 (Part 13)
148	MECHANICAL- SOIL AND ROCK	Natural Building Stone	True Specific Gravity	IS 1122
149	MECHANICAL- SOIL AND ROCK	Natural Building stone	Water Absorption	Is 1124
150	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis	IS 2720 (Part 4)
151	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (MDD)	IS 2720 (Part 8)
152	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (OMC)	IS 2720 (Part 8)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7878 **Page No** 9 of 9

Validity 26/09/2021 to 25/09/2023 **Last Amended on** -

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153	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (MDD)	IS 2720 (Part 7)
154	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (OMC)	IS 2720 (Part 7)
155	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part 5)
156	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 5)
157	MECHANICAL- SOIL AND ROCK	soil	Water Content	IS 2720 (Part 2)
158	MECHANICAL- SOIL AND ROCK	Soil Field Test	Dry Density by Core cutter method	IS 2720 (Part 29)
159	MECHANICAL- SOIL AND ROCK	Soil Field Test	Dry Density by Sand Replacement Method	IS 2720 (Part 28)