



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name GLOBAL LAB, 1073, LASHKAR HAT, WARD NO. 107, PICNIC GARDEN, KOLKATA, WEST BENGAL , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8522 Page No. : 1 / 13

Validity 29/05/2019 to 28/05/2021 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- BUILDING MATERIAL	Coarse & Fine Aggregate	Alkali Aggregate Reactivity - Silica Released	IS 2386 (Part 7): 1963 RA: 2016	0.003 mol/l to 0.5 mol/l
2	CHEMICAL- BUILDING MATERIAL	Coarse & Fine Aggregate	Alkali Aggregate Reactivity -Reduction in Alkalinity	IS 2386 (Part 7): 1963 RA: 2016	0.01 mol/l to 1 mol/l
3	CHEMICAL- BUILDING MATERIAL	Coarse & Fine Aggregate	Chloride	BS EN 1744 (Part 1): 2012	0.001 % to 5 %
4	CHEMICAL- BUILDING MATERIAL	Coarse & Fine Aggregate	Sulphate	BS EN 1744 (Part 1): 2012	0.001 % to 5 %
5	CHEMICAL- BUILDING MATERIAL	Concrete	Chloride	BS 1881 (Part 124): 2015	0.01 % to 5 %
6	CHEMICAL- BUILDING MATERIAL	Concrete	Sulphate	BS 1881 (Part 124): 2015	0.08 % to 5 %
7	CHEMICAL- BUILDING MATERIAL	Construction Admixture	pH Value	IS 9103: 1999 RA: 2013	3 to 14
8	CHEMICAL- BUILDING MATERIAL	Construction Admixture	Ash Content	IS 9103: 1999 RA: 2013	1 % to 20 %
9	CHEMICAL- BUILDING MATERIAL	Construction Admixture	Dry Material Content	IS 9103: 1999 RA: 2013	15 % to 50 %
10	CHEMICAL- BUILDING MATERIAL	Construction Admixture	Relative Density	IS 9103: 1999 RA: 2013	0.9 to 1.3
11	CHEMICAL- BUILDING MATERIAL	Construction Admixture	Soluble Chloride Content	IS 6925 (Clause 4): 1973 RA: 2013	0.004 % to 0.4 %
12	CHEMICAL- BUILDING MATERIAL	Hydraulic Cement (OPC/PPC/PSC, GGBS)	Calcium Oxide (CaO)	IS 4032 (Clause 4.7.2): 1985 RA: 2014	25 % to 75 %



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13	CHEMICAL- BUILDING MATERIAL	Hydraulic Cement (OPC/PPC/PSC, GGBS)	Insoluble Residue	IS 4032 (Clause 4.10): 1985 RA: 2014	1 % to 40 %
14	CHEMICAL- BUILDING MATERIAL	Hydraulic Cement (OPC/PPC/PSC, GGBS)	Iron Oxide Content (Fe ₂ O ₃)	IS 4032 (Clause 4.5.2): 1985 RA: 2014	1 % to 10 %
15	CHEMICAL- BUILDING MATERIAL	Hydraulic Cement (OPC/PPC/PSC, GGBS)	Sulphur Trioxide (SO ₃)	IS 4032 (Clause 4.9): 1985 RA: 2014	0.5 % to 5 %
16	CHEMICAL- BUILDING MATERIAL	Hydraulic Cement (OPC/PPC/PSC/GGBS)	Alumina Content (Al ₂ O ₃)	IS 4032 (Clause 4.6.1): 1985 RA : 2014	2 % to 10 %
17	CHEMICAL- BUILDING MATERIAL	Hydraulic Cement (OPC/PPC/PSC/GGBS)	Chloride Content	IS 4032: 1985 RA: 2014	0.004 % to 1 %
18	CHEMICAL- BUILDING MATERIAL	Hydraulic Cement (OPC/PPC/PSC/GGBS)	Loss on Ignition	IS 4032 (Clause 4.2): 1985 RA : 2014	0.2 % to 10 %
19	CHEMICAL- BUILDING MATERIAL	Hydraulic Cement (OPC/PPC/PSC/GGBS)	Magnesium Oxide (MgO)	IS 4032 (Clause 4.8.2 & 7.2.1.1): 1985 RA: 2014	0.5 % to 5 %
20	CHEMICAL- BUILDING MATERIAL	Hydraulic Cement (OPC/PPC/PSC/GGBS)	Silica Content (SiO ₂)	IS 4032 (Clause 4.3): 1985 RA: 2014	15 % to 55 %
21	CHEMICAL- METALS & ALLOYS	Ferrous Base Carbon Steel & Low Alloy Steel	Aluminum (Al)	ASTM E415: 2017	0.017 % to 0.093 %
22	CHEMICAL- METALS & ALLOYS	Ferrous Base Carbon Steel & Low Alloy Steel	Carbon (C)	ASTM E415: 2017	0.044 % to 1.1 %
23	CHEMICAL- METALS & ALLOYS	Ferrous Base Carbon Steel & Low Alloy Steel	Chromium (Cr)	ASTM E415: 2017	0.206 % to 3.03 %

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



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24	CHEMICAL- METALS & ALLOYS	Ferrous Base Carbon Steel & Low Alloy Steel	Copper (Cu)	ASTM E415: 2017	0.022 % to 0.427 %
25	CHEMICAL- METALS & ALLOYS	Ferrous Base Carbon Steel & Low Alloy Steel	Manganese (Mn)	ASTM E415: 2017	0.195 % to 0.903 %
26	CHEMICAL- METALS & ALLOYS	Ferrous Base Carbon Steel & Low Alloy Steel	Molybdenum (Mo)	ASTM E415: 2017	0.025 % to 0.83 %
27	CHEMICAL- METALS & ALLOYS	Ferrous Base Carbon Steel & Low Alloy Steel	Nickel (Ni)	ASTM E415: 2017	0.052 % to 3.02 %
28	CHEMICAL- METALS & ALLOYS	Ferrous Base Carbon Steel & Low Alloy Steel	Phosphorous (P)	ASTM E415: 2017	0.009 % to 0.048 %
29	CHEMICAL- METALS & ALLOYS	Ferrous Base Carbon Steel & Low Alloy Steel	Silicon (Si)	ASTM E415: 2017	0.111 % to 1.18 %
30	CHEMICAL- METALS & ALLOYS	Ferrous Base Carbon Steel & Low Alloy Steel	Sulphur (S)	ASTM E415: 2017	0.01 % to 0.055 %
31	CHEMICAL- METALS & ALLOYS	Ferrous Base Carbon Steel & Low Alloy Steel	Vanadium (V)	ASTM E415: 2017	0.008 % to 0.300 %
32	CHEMICAL- WATER	Construction Water	Acidity	IS 3025 (Part 22): 1986 RA: 2019	0.1 ml to 8 ml
33	CHEMICAL- WATER	Construction Water	Alkalinity	IS 3025 (Part 23): 1986 RA: 2019	0.1 ml to 75 ml
34	CHEMICAL- WATER	Construction Water	Chloride Content	IS 3025 (Part 32): 1988 RA: 2019	5 mg/l to 5000 mg/l
35	CHEMICAL- WATER	Construction Water	Inorganic Impurities	IS 3025 (Part 18): 1984 RA: 2017	4 mg/l to 7500 mg/l
36	CHEMICAL- WATER	Construction Water	Organic Impurities	IS 3025 (Part 18): 1984 RA: 2017	2 mg/l to 1000 mg/l
37	CHEMICAL- WATER	Construction Water	pH value	IS 3025 (Part-11): 1983 RA: 2017	4 to 14



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38	CHEMICAL- WATER	Construction Water	Total Suspended Solid	IS 3025 (Part 17): 1984 RA: 2017	1 mg/l to 50000 mg/l
39	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density (Loose & Rodded)	IS 2386 (Part 3): 1963 RA: 2016	1.2 kg/l to 2 kg/l
40	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular Concrete Block	Compressive Strength	IS 6441 (Part 5): 1972 RA: 2017	0.5 N/mm ² to 15 N/mm ²
41	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular Concrete Block	Dimension: Height	IS 2185 (Part 3): 1984 RA: 2015	40 mm to 300 mm
42	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular Concrete Block	Dimension: Length	IS 2185 (Part 3): 1984 RA: 2015	200 mm to 900 mm
43	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular Concrete Block	Dimension: Width	IS 2185 (Part 3): 1984 RA: 2015	40 mm to 300 mm
44	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular Concrete Block	Dry Density	IS 6441 (Part 1): 1972 RA: 2017	0.4 g/cc to 1.2 g/cc
45	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular Concrete Block	Drying Shrinkage	IS 6441 (Part 2): 1972 RA: 2017	0.01 % to 0.1 %
46	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular Concrete Block	Moisture Content	IS 6441(Part-01): (RA:2017): 1972	3 % to 45 %
47	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tile	Breaking Strength	IS 13630 (Part 6): 2006 RA: 2015	500 N to 5000 N



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48	MECHANICAL-BUILDINGS MATERIALS	Ceramic Tile	Dimension: Length / Width	IS 13630 (Part 1): 2006 RA: 2015	100 mm to 600 mm
49	MECHANICAL-BUILDINGS MATERIALS	Ceramic Tile	Dimension: Thickness	IS 13630 (Part 1): 2006 RA: 2015	3 mm to 25 mm
50	MECHANICAL-BUILDINGS MATERIALS	Ceramic Tile	Modulus of Rupture	IS 13630 (Part 6): 2006 RA: 2015	5 N/mm ² to 80 N/mm ²
51	MECHANICAL-BUILDINGS MATERIALS	Ceramic Tile	Rectangularity	IS 13630 (Part 1): 2006 RA: 2015	0.01 % to 2.5 %
52	MECHANICAL-BUILDINGS MATERIALS	Ceramic Tile	Scratch Hardness	IS 13630 (Part 13):2006 RA: 2017	Qualitative(up to 9 Mohs')
53	MECHANICAL-BUILDINGS MATERIALS	Ceramic Tile	Straightness	IS 13630 (Part 1): 2006 RA: 2015	0.01 % to 2.5 %
54	MECHANICAL-BUILDINGS MATERIALS	Ceramic Tile	Water Absorption	IS 13630 (Part 1): 2006 RA: 2015	0.01 % to 25 %
55	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Deleterious Materials	IS 2386 (Part 1 & 2): 1963 RA: 2016	0.01 % to 15 %
56	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	10 % Fines Value	IS 2386 (Part 4): 1963 RA: 2016	4 T to 50 T
57	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Aggregate Impact Value	IS 2386 (Part 4): 1963 RA: 2016	2 % to 50 %



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58	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density (Loose & Rodded)	IS 2386 (Part 3): 1963 RA: 2016	1.2 kg/l to 2 kg/l
59	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part 4): 1963 RA: 2016	2 % to 50 %
60	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1): 1963 RA: 2016	3 % to 75 %
61	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part 1): 1963 RA: 2016	3 % to 75 %
62	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis	IS 2386 (Part-1): (RA 2016 Amd-4): 1963	4.75 mm to 63 mm
63	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Soundness by Na ₂ SO ₄ / MgSO ₄	IS 2386 (Part 5): 1963 RA: 2016	0.5 % to 25 %
64	MECHANICAL-BUILDINGS MATERIALS	Coarse aggregate	Specific Gravity	IS 2386 (Part 3): 1963 RA: 2016	2 to 4
65	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part3): 1963 RA: 2016	0.5 % to 5 %
66	MECHANICAL-BUILDINGS MATERIALS	Common Burnt Clay Building Bricks	Dimension: Length	IS 1077: 1992 RA: 2016	500 mm to 5000 mm
67	MECHANICAL-BUILDINGS MATERIALS	Common Burnt Clay Building Bricks	Dimension: Width	IS 1077: 1992 RA: 2016	100 mm to 3000 mm



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68	MECHANICAL-BUILDINGS MATERIALS	Common Burnt Clay Building Bricks	Dimension: Height	IS 1077: 1992 RA: 2016	500 mm to 2700 mm
69	MECHANICAL-BUILDINGS MATERIALS	Common Burnt Clay Building Bricks / Pulverized Fuel Ash Bricks	Compressive Strength	IS 3495 (Part-1): (RA:2016): 1992	2 N/mm ² to 25 N/mm ²
70	MECHANICAL-BUILDINGS MATERIALS	Common Burnt Clay Building Bricks / Pulverized Fuel Ash Bricks	Efflorescence	IS 3495 (Part 3): 1992 RA: 2016	Qualitative
71	MECHANICAL-BUILDINGS MATERIALS	Common Burnt Clay Building Bricks / Pulverized Fuel Ash Bricks	Water Absorption	IS 3495 (Part 2): 1992 RA: 2016	2 % to 40 %
72	MECHANICAL-BUILDINGS MATERIALS	Concrete	Change In Length	IS 1199: 1959 RA: 2013	0.01 % to 0.5 %
73	MECHANICAL-BUILDINGS MATERIALS	Concrete	Determination of Compressive Strength of Cube / Core & Cylinder	IS 516: 1959 RA: 2013	5 N/mm ² to 120 N/mm ²
74	MECHANICAL-BUILDINGS MATERIALS	Concrete	Determination Of Water Permeability of Cube / Cylinder	DIN 1048 (Part 5): 1991	0 mm to 150 mm
75	MECHANICAL-BUILDINGS MATERIALS	Concrete	Flexural Strength of Beam	IS 516: 1959 RA: 2013	5 kg/cm ² to 350 kg/cm ²
76	MECHANICAL-BUILDINGS MATERIALS	Concrete	Initial Surface Water Absorption Test	BS 1881 (Part 208): 1996	0.01 ml/m ² /s to 0.3 ml/m ² /s



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77	MECHANICAL-BUILDINGS MATERIALS	Concrete	Modulus of Elasticity	ASTM C469: 2014	15 GPa to 60 GPa
78	MECHANICAL-BUILDINGS MATERIALS	Concrete	Water Absorption	BS 1881 (Part 122): 2011	0.2 % to 4 %
79	MECHANICAL-BUILDINGS MATERIALS	Concrete Paver Block	Compressive Strength	IS 15658 : 2006 RA: 2017	10 N/mm ² to 80 N/mm ²
80	MECHANICAL-BUILDINGS MATERIALS	Concrete Paver Block	Flexural Strength	IS 15658: 2006 RA: 2017	1 N/mm ² to 20 N/mm ²
81	MECHANICAL-BUILDINGS MATERIALS	Concrete Paver Block	Water Absorption	IS 15658: 2006 RA: 2017	1 % to 15 %
82	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Material Finer than 75 µm	IS 2386 (Part 1): 1963 RA: 2016	1 % to 25 %
83	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Deleterious Material	IS 2386 (Part 1 & 2): 1963 RA: 2016	1 % to 10 %
84	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis	IS 2386 (Part-1) : (RA 2016 Amd-4): 1963	0.075 mm to 4.75 mm
85	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Soundness by Na ₂ SO ₄ / MgSO ₄	IS 2386 (Part 5): 1963 RA: 2016	1 % to 25 %
86	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 3): 1963 RA: 2016	1.5 to 4



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87	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part 3): 1963 RA: 2016	0.1 % to 10 %
88	MECHANICAL-BUILDINGS MATERIALS	Hydraulic Cement (OPC-33,43,53 Grade, PSC, PPC)	Density	IS 4031 (Part 11): 1988 RA: 2014	2.8 g/cc to 3.2 g/cc
89	MECHANICAL-BUILDINGS MATERIALS	Hydraulic Cement (OPC-33,43,53 Grade, PSC, PPC)	Fineness by Blaine's Air Permeability	IS 4031 (Part 2): 1999 RA: 2013	200 m ² /kg to 400 m ² /kg
90	MECHANICAL-BUILDINGS MATERIALS	Hydraulic Cement (OPC-33,43,53 Grade, PSC, PPC)	Compressive Strength	IS 4031 (Part 6): 1988 RA: 2014	10 N/mm ² to 80 N/mm ²
91	MECHANICAL-BUILDINGS MATERIALS	Hydraulic Cement (OPC-33,43,53 Grade, PSC, PPC)	Final Setting Time	IS 4031 (Part 5): 1988 RA: 2014	100 minutes to 600 minutes
92	MECHANICAL-BUILDINGS MATERIALS	Hydraulic Cement (OPC-33,43,53 Grade, PSC, PPC)	Fineness by Sieving	IS 4031 (Part 1): 1996 RA: 2016	1 % to 20 %
93	MECHANICAL-BUILDINGS MATERIALS	Hydraulic Cement (OPC-33,43,53 Grade, PSC, PPC)	Initial Setting Time	IS 4031 (Part 5): 1988 RA: 2014	15 minutes to 300 minutes
94	MECHANICAL-BUILDINGS MATERIALS	Hydraulic Cement (OPC-33,43,53 Grade, PSC, PPC)	Normal Consistency	IS 4031 (Part 4): 1988 RA: 2014	25 % to 40 %
95	MECHANICAL-BUILDINGS MATERIALS	Hydraulic Cement (OPC-33,43,53 Grade, PSC, PPC)	Soundness LeChatelier Method	IS 4031 (Part 3): 1988 RA: 2014	1 mm to 10 mm



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96	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials (Tube)	Flattening	IS 2328: 2018	Qualitative(Up to 500 Ø)
97	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials / Steel	Bend Test	IS 1599: 2012 RA: 2017	Qualitative(Mandrel Diameter: 24,30,36,40,48, 50, 60,64,70,72,80,96,100, 112,125,140,150,160,1 75,192, 200, 224, 240, 256, 280, 320 mm)
98	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials / Steel	Elongation	IS 1608 (Part 1): 2018	3 % to 40 %
99	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials / Steel	Rebend Test	IS 1786: 2008 RA: 2013	Qualitative(Mandrel Diameter: 24,30,36,40,48, 50, 60,64,70,72,80,96,100, 112,125,140,150,160,1 75,192, 200, 224, 240, 256, 280, 320 mm)
100	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials / Steel	Tensile Strength	IS 1608 (Part 1): 2018	100 N/mm ² to 900 N/mm ²
101	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials/ Steel	0.2 % Proof Stress / Yield Stress	IS 1608 (Part 1): 2018	100 N/mm ² to 700 N/mm ²



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102	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials/ Steel	Mass per meter	IS 1786: 2008 RA: 2013	0.1 kg/m to 15 kg/m
103	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Couplers for Mechanical Splices of Bars in Concrete	Tensile Test	IS 16172 (Annexure B): 2014	200 N/mm ² to 800 N/mm ²
104	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Wire Strand	Breaking Strength	IS14268: 2017, IS 1608 (Part 1): 2018	80 kN to 325 kN
105	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Wire Strand	Diameter of Wire Strand	IS 14268 (Annexure A): 2017	9 mm to 16 mm
106	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Wire Strand	Elongation	IS 14268: 2017	1 % to 9 %
107	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Wire Strand	Lay Length	IS 14268 (Annexure A): 2017	150 mm to 300 mm
108	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Wire Strand	Percent Difference in Diameters of Center Wire and Surrounding Wires	IS 14268 (Annexure A): 2017	1 % to 5 %



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109	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Wire Strand	Unit Weight	IS 14268 (Annexure B): 2017	400 kg/km to 1200 kg/km
110	MECHANICAL- SOIL AND ROCK	Soil & Granular Material	California Bearing Ratio	IS 2720 (Part 16): 1987 RA: 2016	2 % to 100 %
111	MECHANICAL- SOIL AND ROCK	Soil & Granular Material	Free Swell Index	IS 2720 (Part 40): 1977 RA: 2016	1 % to 400 %
112	MECHANICAL- SOIL AND ROCK	Soil & Granular Material	Grain Size Analysis	IS 2720 Part-04: (RA:2015): 1985	0.075 mm to 4.75 mm
113	MECHANICAL- SOIL AND ROCK	Soil & Granular Material	Heavy Compaction - Maximum Dry Density	IS 2720 (Part 8): 1983 RA: 2015	1.4 g/cc to 2.75 g/cc
114	MECHANICAL- SOIL AND ROCK	Soil & Granular Material	Heavy Compaction - Optimum Moisture Content	IS 2720 (Part 8): 1983 RA: 2015	4 % to 30 %
115	MECHANICAL- SOIL AND ROCK	Soil & Granular Material	Light Compaction Test- Maximum Dry Density	IS 2720 (Part 7): 1980 RA: 2016	1.2 g/cc to 2.5 g/cc
116	MECHANICAL- SOIL AND ROCK	Soil & Granular Material	Light Compaction Test- Optimum Moisture Content	IS 2720 (Part 7): 1980 RA: 2016	6 % to 30 %
117	MECHANICAL- SOIL AND ROCK	Soil & Granular Material	Liquid Limit	IS 2720 (Part 5): 1985 RA: 2015	10 % to 100 %
118	MECHANICAL- SOIL AND ROCK	Soil & Granular Material	Moisture Content	IS 2720 (Part 2): 1973 RA: 2015	5 % to 30 %
119	MECHANICAL- SOIL AND ROCK	Soil & Granular Material	Plastic Limit / Plasticity Index	IS 2720 (Part 5): 1985 RA: 2015	2 % to 80 %



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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
Site Facility					
1	MECHANICAL- SOIL AND ROCK	Soil & Granular Material	Dry Density - By Sand Replacement Method	IS 2720 (Part 28): 1974 RA: 2015	1.3 g/cc to 2.5 g/cc
2	MECHANICAL- SOIL AND ROCK	Soil & Granular Material	Field Dry Density- Core Cutter Method	IS 2720 (Part 29): 1975 RA: 2015	1.3 g/cc to 2.5 g/cc