National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

VRR ENGINEERING CONSULTANCY - TESTING DIVISION

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

NO. 2/81, SAIRAM AVENUE, 1ST STREET, BALAIAH GARDEN, MADIPAKKAM, CHENNAI, TAMIL NADU, INDIA

in the field of

TESTING

Certificate Number: TC-15870

Issue Date: 21/05/2025 **Valid Until:** 20/05/2029

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of thislaboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: VRR ENGINEERING CONSULTANCY

Signed for and on behalf of NABL

Anita Rani
Director

N. Venkateswaran
Chief Executive Officer

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VRR ENGINEERING CONSULTANCY - TESTING DIVISION, NO. 2/81, SAIRAM AVENUE, 1ST STREET, BALAIAH GARDEN, MADIPAKKAM, CHENNAI, TAMIL NADU, INDIA

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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
Permanent Testing				
1	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Clay Lumps	IS 2386 (Part 2)
2	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Soundness (by Sodium Sulphate Solution)	IS 2386 (Part 5)
3	MECHANICAL-BUILDINGS MATERIALS	AUTOCLAVED CELLULAR (AERATED) CONCRETE BLOCKS	Dimension - Height	IS 2185 (Part 3)
4	MECHANICAL-BUILDINGS MATERIALS	AUTOCLAVED CELLULAR (AERATED) CONCRETE BLOCKS	Dimension - Width	IS 2185 (Part 3)
5	MECHANICAL-BUILDINGS MATERIALS	AUTOCLAVED CELLULAR (AERATED) CONCRETE BLOCKS	Compressive Strength	IS 6441 (part 5)
6	MECHANICAL-BUILDINGS MATERIALS	AUTOCLAVED CELLULAR (AERATED) CONCRETE BLOCKS	Block Density	IS 6441 (Part 1)
7	MECHANICAL-BUILDINGS MATERIALS	AUTOCLAVED CELLULAR (AERATED) CONCRETE BLOCKS	Dimension - Length	IS 2185 (Part 3)
8	MECHANICAL-BUILDINGS MATERIALS	AUTOCLAVED CELLULAR (AERATED) CONCRETE BLOCKS	Moisture Content	IS 6441 (Part 1)
9	MECHANICAL-BUILDINGS MATERIALS	Bituminous Mix (BC / BM / DBM / SDBC)	Binder Content	IRC SP 11 (Appendix-5)
10	MECHANICAL-BUILDINGS MATERIALS	Bituminous Mix (BC / BM / DBM / SDBC)	Density	ASTM D 2726
11	MECHANICAL-BUILDINGS MATERIALS	Bituminous Mix (BC / BM / DBM / SDBC)	Marshall flow	IS 17127

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12	MECHANICAL-BUILDINGS MATERIALS	Bituminous Mix (BC / BM / DBM / SDBC)	Marshall Stability	IS 17127
13	MECHANICAL-BUILDINGS MATERIALS	Burnt Clay Building Bricks	Compressive Strength	IS 3495 (Part 1)
14	MECHANICAL-BUILDINGS MATERIALS	Burnt Clay Building Bricks	Water Absorption	IS 3495 (Part 2)
15	MECHANICAL-BUILDINGS MATERIALS	Burnt Clay Hollow Bricks	Crushing Strength	IS 3952
16	MECHANICAL-BUILDINGS MATERIALS	Burnt Clay Hollow Bricks	Dimension - Height	IS 3952
17	MECHANICAL-BUILDINGS MATERIALS	Burnt Clay Hollow Bricks	Dimension - Length	IS 3952
18	MECHANICAL-BUILDINGS MATERIALS	Burnt Clay Hollow Bricks	Dimension - Width	IS 3952
19	MECHANICAL-BUILDINGS MATERIALS	Burnt Clay Hollow Bricks	Water Absorption	IS 3952
20	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC/PPC/PSC/SRC)	Consistency	IS 4031 (Part 4)
21	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC/PPC/PSC/SRC)	Fineness Test by Dry Seiving	IS 4031 (Part 1)
22	MECHANICAL-BUILDINGS MATERIALS	Cement (OPC/PPC/PSC/SRC)	Soundness by Le-chatelier	IS 4031 (Part 3)
23	MECHANICAL-BUILDINGS MATERIALS	Coarse & Fine Aggregate	Bulk Density	IS 2386 (Part 3)

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24	MECHANICAL-BUILDINGS MATERIALS	Coarse & Fine Aggregate	Los Angeles Abrasion Value	IS 2386 (Part 4)
25	MECHANICAL-BUILDINGS MATERIALS	Coarse & Fine Aggregate	Specific Gravity	IS 2386 (Part 3)
26	MECHANICAL-BUILDINGS MATERIALS	Coarse & Fine Aggregate	Water Absorption	IS 2386 (Part 3)
27	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part 4)
28	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1)
29	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Flakiness index	IS 2386 (Part 1)
30	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part 4)
31	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis (40 mm to 4.75 mm)	IS 2386 (Part 1)
32	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	10 % Fines Value	IS 2386 (Part 4)
33	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Light Weight Pieces	IS 2386 (Part 2)
34	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Particle finer than 75µ	IS 2386 (Part 1)
35	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Soundness (By using Magnesium Sulphate Solution)	IS 2386 (Part 5)

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36	MECHANICAL-BUILDINGS MATERIALS	Common Burnt Clay Building Bricks	Dimension - Height	IS 1077
37	MECHANICAL-BUILDINGS MATERIALS	Common Burnt Clay Building Bricks	Dimension - Length	IS 1077
38	MECHANICAL-BUILDINGS MATERIALS	Common Burnt Clay Building Bricks	Dimension - Width	IS 1077
39	MECHANICAL-BUILDINGS MATERIALS	Concrete	Consistency by Flow Table Apparatus	IS 1199 (Part 2)
40	MECHANICAL-BUILDINGS MATERIALS	Concrete	Density	IS 516 (Part 2, Sec 1)
41	MECHANICAL-BUILDINGS MATERIALS	Concrete Admixture (Fresh Concrete)	Density	IS 1199 (Part 3)
42	MECHANICAL-BUILDINGS MATERIALS	Concrete blocks (Hollow/Solid)	Block Density	IS 2185 (Part 1)
43	MECHANICAL-BUILDINGS MATERIALS	Concrete blocks (Hollow/Solid)	Compressive Strength	IS 2185 (Part 1)
44	MECHANICAL-BUILDINGS MATERIALS	Concrete blocks (Hollow/Solid)	Water Absorption	IS 2185 (Part 1)
45	MECHANICAL-BUILDINGS MATERIALS	Concrete Core	Compressive Strength	IS 516 (Part 4)
46	MECHANICAL-BUILDINGS MATERIALS	Concrete Kerb	Compressive strength by core	IS 516 (Part 4)
47	MECHANICAL-BUILDINGS MATERIALS	Concrete Kerb	Height of Kerb	IS 5758

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48	MECHANICAL-BUILDINGS MATERIALS	Concrete Kerb	Length of Kerb	IS 5758
49	MECHANICAL-BUILDINGS MATERIALS	Concrete Kerb	Thickness of Kerb	IS 5758
50	MECHANICAL-BUILDINGS MATERIALS	Concrete Kerb	Water Absorption	IS 5758
51	MECHANICAL-BUILDINGS MATERIALS	Concrete specimen with Admixture	Flexural Strength	IS 516 (Part 1, Sec 1)
52	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (4.75 mm to 150 µm)	IS 2386 (Part 1)
53	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Clay Lumps	IS 2386 (Part 2)
54	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Light Weight Pieces	IS 2386 (Part 2)
55	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Particle finer than 75µ	IS 2386 (Part 1)
56	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Soundness (by Sodium Sulphate Solution)	IS 2386 (Part 5)
57	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Soundness (By using Magnesium Sulphate Solution)	IS 2386 (Part 5)
58	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregates	Bulking of Sand	IS 2386 (Part 3)
59	MECHANICAL-BUILDINGS MATERIALS	Fly ash	Comparative Compressive Strength	IS 1727

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60	MECHANICAL-BUILDINGS MATERIALS	Fly ash	Consistency	IS 4031 Part 4
61	MECHANICAL-BUILDINGS MATERIALS	Fly ash	Final Setting Time	IS 4031 (Part 5)
62	MECHANICAL-BUILDINGS MATERIALS	Fly ash	Initial Setting Time	IS 4031 (Part 5)
63	MECHANICAL-BUILDINGS MATERIALS	Fly ash	Lime reactivity	IS 1727
64	MECHANICAL-BUILDINGS MATERIALS	Fly ash	Particle retained on 45 micron IS sieve(wet sieving)	IS 1727
65	MECHANICAL-BUILDINGS MATERIALS	Fly ash	Soundness by Le-Chatelier Method	IS 4031 (Part 3)
66	MECHANICAL-BUILDINGS MATERIALS	Fly ash	Specific Gravity	IS 1727
67	MECHANICAL-BUILDINGS MATERIALS	Fresh Concrete	Consistency by Compaction Factor Apparatus	IS 1199 (Part 2)
68	MECHANICAL-BUILDINGS MATERIALS	Fresh Concrete	Slump Test	IS 1199 (Part 2)
69	MECHANICAL-BUILDINGS MATERIALS	Granular Subbase	Aggregate Impact value	IS 2386 (Part 4)
70	MECHANICAL-BUILDINGS MATERIALS	Granular Subbase	Aggregate Wet Impact value	IS 5640
71	MECHANICAL-BUILDINGS MATERIALS	Granular Subbase	Determination of 10% fines value	IS 2386 (Part 4)

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72	MECHANICAL-BUILDINGS MATERIALS	Granular Subbase	Los Angeles Abrasion value	IS 2386 (Part 4)
73	MECHANICAL-BUILDINGS MATERIALS	Granular Subbase	Sieve Analysis (75 mm, 53 mm, 26.50 mm, 9.50 mm, 4.75 mm, 2.36 mm, 0.85 mm, 425 micron, 75 micron)	IS 2386 (Part 1)
74	MECHANICAL-BUILDINGS MATERIALS	Granular Subbase	Specific Gravity	IS 2386 (Part 3)
75	MECHANICAL-BUILDINGS MATERIALS	Granular Subbase	Water Absorption	IS 2386 (Part 3)
76	MECHANICAL-BUILDINGS MATERIALS	Hardened Concrete	Accerelated Curing compressive strength	IS 9013
77	MECHANICAL-BUILDINGS MATERIALS	Hardened Concrete	Modulus of Elasticity	IS 516 (Part 8, Sec 1)
78	MECHANICAL-BUILDINGS MATERIALS	Hardened Concrete	Poisson's ratio	IS 516 (Part 8, Sec 1)
79	MECHANICAL-BUILDINGS MATERIALS	Hardened Concrete (Cube/cylinder/ beam & core)	Compressive Strength	IS 516 (Part 1, Sec 1)
80	MECHANICAL-BUILDINGS MATERIALS	Hardened Concrete (Cube/cylinder/ beam & core)	Flexural Strength	IS 516 (Part 1, Sec 1)
81	MECHANICAL-BUILDINGS MATERIALS	Paver blocks	Compressive Strength	IS 15658
82	MECHANICAL-BUILDINGS MATERIALS	Paver blocks	Flexural Strength	IS 15658

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83	MECHANICAL-BUILDINGS MATERIALS	Paver blocks	Split Tensile Strength	IS 15658
84	MECHANICAL-BUILDINGS MATERIALS	Paver blocks	Water Absorption	IS 15658
85	MECHANICAL-BUILDINGS MATERIALS	Paving Bitumen	Absolute Viscosity @ 60°C	IS 1206 (Part 2)
86	MECHANICAL-BUILDINGS MATERIALS	Paving Bitumen	Ductility at 25 deg C	IS 1208 (Part 1
87	MECHANICAL-BUILDINGS MATERIALS	Paving Bitumen	Flash Point	IS 1209
88	MECHANICAL-BUILDINGS MATERIALS	Paving Bitumen	Kinematic Viscosity @ 135°C	IS 1206 (Part 3)
89	MECHANICAL-BUILDINGS MATERIALS	Paving Bitumen	Matter Soluble in trichloroethylene	IS 1216
90	MECHANICAL-BUILDINGS MATERIALS	Paving Bitumen	Penetration at 25 deg C	IS 1203
91	MECHANICAL-BUILDINGS MATERIALS	Paving Bitumen	Softening point	IS 1205
92	MECHANICAL-BUILDINGS MATERIALS	Wet Mix Macadam	Aggregate Impact Value	IS 2386 (Part 4)
93	MECHANICAL-BUILDINGS MATERIALS	Wet Mix Macadam	Sieve Analysis (53.00 mm, 45.00 mm, 26.50 mm, 22.40 mm, 11.20 mm, 4.75 mm, 2.36 mm, 600 micron, 75 micron)	IS 2386 (Part 1)

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94	MECHANICAL-BUILDINGS MATERIALS	Wet Mix Macadam	Aggregate Wet Impact value	IS 5640
95	MECHANICAL-BUILDINGS MATERIALS	WMM	Elongation Test	IS 2386 (Part 1)
96	MECHANICAL-BUILDINGS MATERIALS	WMM	Flakiness Index	IS 2386 (Part 1)
97	MECHANICAL-BUILDINGS MATERIALS	WMM	Los Angeles Abrasion value	IS 2386 (Part 4)
98	MECHANICAL-BUILDINGS MATERIALS	WMM	Soundness (by Magnesium Sulphate Solution)	IS 2386 (Part 5)
99	MECHANICAL-BUILDINGS MATERIALS	WMM	Soundness (by Sodium Sulphate Solution)	IS 2386 (Part 5)
100	MECHANICAL-BUILDINGS MATERIALS	WMM	Water Absorption	IS 2386 (Part 3)
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength deformed steel bars	% Elongation	IS 1608 (Part 1)
102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength deformed steel bars	0.2% Proof Stress	IS 1608 (Part 1)
103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength deformed steel bars	Bend Test (32 mm, 40 mm, 44 mm, 48 mm, 50 mm, 60 mm, 64 mm, 80 mm, 100 mm, 125 mm, 150 mm, 160 mm & 192 mm)	IS 1599

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104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength deformed steel bars	Mean projected area of the rib	IS 1786
105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength deformed steel bars	Rebend Test (48 mm, 56 mm, 60 mm, 70 mm, 84 mm, 96 mm, 112 mm, 128 mm, 140 mm, 160 mm, 175 mm, 200 mm, 224 mm & 256 mm)	IS 1786
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength deformed steel bars	Tensile Strength	IS 1608 (Part 1)
107	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength deformed steel bars	Total elongation at maximum force	IS 1608 (Part 1)
108	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength deformed steel bars	Weight / meter	IS 1786
109	MECHANICAL-MECHANICAL PROPERTIES OF METALS	High Strength deformed steel bars	Yield Stress	IS 1608 (Part 1)
110	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement coupler	Tensile Strength	IS 16172
111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement coupler	Total elongation at maximum force	IS 16172
112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Tubes	% Elongation	IS 1608 (Part 1)

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113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Tubes	Flattening	IS 2328
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Tubes	Tensile Strength	IS 1608 (Part 1)
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Tubes	Weight / meter	IS 1161
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Tubes	Yield Stress	IS 1608 (Part 1)
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel / Hollow Steel Section	% Elongation	IS 1608 (Part 1)
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel / Hollow Steel Section	0.2% Proof Stress	IS 1608 (Part 1)
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel / Hollow Steel Section	Tensile Strength	IS 1608 (Part 1)
120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel / Hollow Steel Section	Yield Stress	IS 1608 (Part 1)
121	MECHANICAL- SOIL AND ROCKS	Bentonite	California Bearing Ratio (CBR) - Soaked	IS 2720 (Part 16)
122	MECHANICAL- SOIL AND ROCKS	Bentonite	Density	ASTM D4380 - 20

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123	MECHANICAL- SOIL AND ROCKS	Bentonite	Fineness	IS 6186
124	MECHANICAL- SOIL AND ROCKS	Bentonite	Gel Formation Index	IS 6186
125	MECHANICAL- SOIL AND ROCKS	Bentonite	Liquid Limit - Casagrande method	IS 2720 (Part 5)
126	MECHANICAL- SOIL AND ROCKS	Bentonite	Marsh Cone Viscosity	ASTM D 6910
127	MECHANICAL- SOIL AND ROCKS	Bentonite	Moisture Content	IS 6186
128	MECHANICAL- SOIL AND ROCKS	Bentonite	Plastic Limit	IS 2720 (Part 5)
129	MECHANICAL- SOIL AND ROCKS	Bentonite	Sand content	IS 6186
130	MECHANICAL- SOIL AND ROCKS	Bentonite	Specific Gravity	IS 2720 (Part 3, Sec 1)
131	MECHANICAL- SOIL AND ROCKS	Bentonite	Swelling power	IS 6186
132	MECHANICAL- SOIL AND ROCKS	CTB /CTSB (Cement Treated Base and Subbase materials)	CBR	IS 2720 (Part 16)
133	MECHANICAL- SOIL AND ROCKS	CTB /CTSB (Cement Treated Base and Subbase materials)	Determination of 10% fines value	IS 2386 (Part 4)
134	MECHANICAL- SOIL AND ROCKS	CTB /CTSB (Cement Treated Base and Subbase materials)	Durability	IRC SP 89 (Part 2)
135	MECHANICAL- SOIL AND ROCKS	CTB /CTSB (Cement Treated Base and Subbase materials)	Liquid Limit	IS 2720 (Part 5)
136	MECHANICAL- SOIL AND ROCKS	CTB /CTSB (Cement Treated Base and Subbase materials)	Plastic Limit	IS 2720 (Part 5)
137	MECHANICAL- SOIL AND ROCKS	CTB /CTSB (Cement Treated Base and Subbase materials)	Sieve Analysis (4.75 mm, 9.5 mm, 19 mm, 37.5 mm, 53 mm, 600 micron, 300 micron, 75 micron)	IS 2386 (Part 1)
138	MECHANICAL- SOIL AND ROCKS	CTB /CTSB (Cement Treated Base and Subbase materials)	Water Absorption	IS 2386 (Part 3)

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139	MECHANICAL- SOIL AND ROCKS	CTB /CTSB (Stabilized Soils)	Heavy Compaction (Maximum Dry density)	IS 4332 (Part 3)
140	MECHANICAL- SOIL AND ROCKS	CTB /CTSB (Stabilized Soils)	Heavy Compaction (Optimum Moisture Content)	IS 4332 (Part 3)
141	MECHANICAL- SOIL AND ROCKS	CTB /CTSB (Stabilized Soils)	Moisture Content	IS 4332 (Part 2)
142	MECHANICAL- SOIL AND ROCKS	Field Rock	Prebored Pressuremeter Test - Rock	ASTM D4719
143	MECHANICAL- SOIL AND ROCKS	Field Soil	Electrical Resistivity Tomography	IS 3043
144	MECHANICAL- SOIL AND ROCKS	Field Soil	Field CBR	IS 2720 (Part 31)
145	MECHANICAL- SOIL AND ROCKS	Field Soil	Field Permeability - Constant Head	IS 5529 - Part 1
146	MECHANICAL- SOIL AND ROCKS	Field Soil	Field Permeability - Falling Head	IS 5529 - Part 1
147	MECHANICAL- SOIL AND ROCKS	Field Soil	Field Vane Shear Test	IS 4434
148	MECHANICAL- SOIL AND ROCKS	Field Soil	Modulus of Subgrade reaction (K Value)	IS 9214
149	MECHANICAL- SOIL AND ROCKS	Field Soil	Packer Permeability Test	IS 5529 - Part 2
150	MECHANICAL- SOIL AND ROCKS	Field Soil	Prebored Pressuremeter Test - Soil	ASTM D4719
151	MECHANICAL- SOIL AND ROCKS	Field Soil	Standard Penetration Test	IS 2131
152	MECHANICAL- SOIL AND ROCKS	Field Soil	Static Plate Load Test	IS 1888
153	MECHANICAL- SOIL AND ROCKS	Fly ash	Heavy Compaction (Maximum Dry density)	IS 2720 (Part 8)
154	MECHANICAL- SOIL AND ROCKS	Fly ash	Heavy Compaction (Optimum moisture content)	IS 2720 (Part 8)

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155	MECHANICAL- SOIL AND ROCKS	Fly ash	Light Compaction (Maximum Dry density)	IS 2720 (Part 7)
156	MECHANICAL- SOIL AND ROCKS	Fly ash	Light Compaction (Optimum moisture content)	IS 2720 (Part 7)
157	MECHANICAL- SOIL AND ROCKS	Granular Subbase	CBR	IS 2720 (Part 16)
158	MECHANICAL- SOIL AND ROCKS	Granular Subbase	Heavy Compaction (Maximum Dry density)	IS 2720 (Part 8)
159	MECHANICAL- SOIL AND ROCKS	Granular Subbase	Heavy Compaction (Optimum moisture content)	IS 2720 (Part 8)
160	MECHANICAL- SOIL AND ROCKS	Granular Subbase	Liquid Limit	IS 2720 (Part 5)
161	MECHANICAL- SOIL AND ROCKS	Granular Subbase	Plastic Limit	IS 2720 (Part 5)
162	MECHANICAL- SOIL AND ROCKS	Ground Anchors	Pull Out Test	IS 11309
163	MECHANICAL- SOIL AND ROCKS	Pile Foundations	Dynamic Load Test	IRC 78
164	MECHANICAL- SOIL AND ROCKS	Pile Foundations	Lateral Load Test	IS 2911 (Part 4)
165	MECHANICAL- SOIL AND ROCKS	Pile Foundations	Pull Out Test	IS 2911 (Part 4)
166	MECHANICAL- SOIL AND ROCKS	Pile Foundations	Vertical Load Test	IS 2911 (Part 4)
167	MECHANICAL- SOIL AND ROCKS	Rock	Chercher Abrasivity	ASTM D7625
168	MECHANICAL- SOIL AND ROCKS	Rock	Dry Relative Density	IS 13030
169	MECHANICAL- SOIL AND ROCKS	Rock	Modulus of Elasticity	IS 9221
170	MECHANICAL- SOIL AND ROCKS	Rock	Point Load Strength Index	IS 8764

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171	MECHANICAL- SOIL AND ROCKS	Rock	Poisson's ratio	IS 9221
172	MECHANICAL- SOIL AND ROCKS	Rock	Scratch Hardness (Moh’s Scale)	IS 13630 (Part 13)
173	MECHANICAL- SOIL AND ROCKS	Rock	Slake Durability	IS 10050
174	MECHANICAL- SOIL AND ROCKS	Rock	Tensile Strength by Brazilian Apparatus	IS 10082
175	MECHANICAL- SOIL AND ROCKS	Rock	Triaxial Shear Strength of Rock - Angle of Shearing Resistance	IS 13047 : 1991
176	MECHANICAL- SOIL AND ROCKS	Rock	Triaxial Shear Strength of Rock - Cohesion Intercept	IS 13047 : 1991
177	MECHANICAL- SOIL AND ROCKS	Rock	Unconfined Compressive Strength	IS 9143
178	MECHANICAL- SOIL AND ROCKS	Rock	Water Content	IS 13030
179	MECHANICAL- SOIL AND ROCKS	Soil	California Bearing Ratio (CBR)	IS 2720 (Part 16)
180	MECHANICAL- SOIL AND ROCKS	Soil	Consolidation Test (Co-efficient of Consolidation)	IS 2720 (Part 15)
181	MECHANICAL- SOIL AND ROCKS	Soil	Direct Shear test for Angle of Internal Friction	IS 2720 (Part 13)
182	MECHANICAL- SOIL AND ROCKS	Soil	Direct Shear Test for Cohesion	IS 2729 (Part 13)
183	MECHANICAL- SOIL AND ROCKS	Soil	Field Density by Core Cutter Method	IS 2720 (Part 29)
184	MECHANICAL- SOIL AND ROCKS	Soil	Field Density by Sand Replacement Method	IS 2720 (Part 28)
185	MECHANICAL- SOIL AND ROCKS	Soil	Free Swell Index	IS 2720 (Part 40)
186	MECHANICAL- SOIL AND ROCKS	Soil	Grain Size Analysis by Hydrometer Method (	IS 2720 (Part 4)

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187	MECHANICAL- SOIL AND ROCKS	Soil	Heavy Compaction (Modified Proctor Compaction Test)	IS 2720 (Part 8)
188	MECHANICAL- SOIL AND ROCKS	Soil	Light Compaction (Standard Proctor Compaction Test)	IS 2720 (Part 7)
189	MECHANICAL- SOIL AND ROCKS	Soil	Liquid Limit	IS 2720 (Part 5)
190	MECHANICAL- SOIL AND ROCKS	Soil	Permeability Test (Constant and Falling Head Method)	IS 2720 (Part 17)
191	MECHANICAL- SOIL AND ROCKS	Soil	Plastic Limit	IS 2720 (Part 5)
192	MECHANICAL- SOIL AND ROCKS	Soil	Shrinkage Limit	IS 2720 (Part 6)
193	MECHANICAL- SOIL AND ROCKS	Soil	Sieve Analysis (4.75 mm, 2.36 mm, 1.18 mm, 600 micron, 425 micron, 212 micron, 150 micron, 75 micron)	IS 2720 (Part 4)
194	MECHANICAL- SOIL AND ROCKS	Soil	Specific Gravity	IS 2720 (Part 3)
195	MECHANICAL- SOIL AND ROCKS	Soil	Swelling Pressure of Soil - Consolidometer Test	IS 2720 (Part 41)
196	MECHANICAL- SOIL AND ROCKS	Soil	Triaxial Shear Parameter (CD with Pore water Pressure) for Angle of Shearing Resistance	IS 2720 (Part 12)
197	MECHANICAL- SOIL AND ROCKS	Soil	Triaxial Shear Parameter (CD with Pore water Pressure) for Cohesion Intercept	IS 2720 (Part 12)
198	MECHANICAL- SOIL AND ROCKS	Soil	Triaxial Shear Parameter (CU with Pore water Pressure) for Angle of Shearing Resistance	IS 2720 (Part 12)

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199	MECHANICAL- SOIL AND ROCKS	Soil	Triaxial Shear Parameter (CU with Pore water Pressure) for Cohesion Intercept	IS 2720 (Part 12)
200	MECHANICAL- SOIL AND ROCKS	Soil	Triaxial Shear Parameter (UU Without Pore Water Pressure) for Angle of Shearing Resistance	IS 2720 (Part 11)
201	MECHANICAL- SOIL AND ROCKS	Soil	Triaxial Shear Parameter (UU Without Pore Water Pressure) for Cohesion Intercept	IS 2720 (Part 11)
202	MECHANICAL- SOIL AND ROCKS	Soil	Unconfined Compressive Strength	IS 2720 (Part 10)
203	MECHANICAL- SOIL AND ROCKS	Soil	Water Content by Oven Dry Method	IS 2720 (Part 2)
204	MECHANICAL- SOIL AND ROCKS	Stone	Apparent Porosity	IS 1124
205	MECHANICAL- SOIL AND ROCKS	Stone	Apparent Specific Gravity	IS 1124
206	MECHANICAL- SOIL AND ROCKS	Stone	Water Absorption	IS 1124
207	MECHANICAL- SOIL AND ROCKS	Wet Mix Macadam	California Bearing Ratio	IS 2720 (Part 16)
208	MECHANICAL- SOIL AND ROCKS	WMM	Heavy Compaction (Maximum Dry density)	IS 2720 (Part 8)
209	MECHANICAL- SOIL AND ROCKS	WMM	Heavy Compaction (Optimum moisture content)	IS 2720 (Part 8)
210	MECHANICAL- SOIL AND ROCKS	WMM	Liquid Limit	IS 2720 (Part 5)
211	MECHANICAL- SOIL AND ROCKS	WMM	Plastic Limit	IS 2720 (Part 5)

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212	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Pavements	Axle Load Test for Roads	IRC 37
213	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Pile and D-Wall	Ultrasonic Crosshole Testing	ASTM 6760
214	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	RC Structures	Bridge Span Load Test	IRC SP-51
215	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	RC Structures	Pile Integrity Test	IS 14893
216	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	RC Structures	Rebound Hammer Test	IS 516 (Part 5, Sec 4)
217	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	RC Structures	Ultra Sonic Pulse Velocity Test	IS 516 (Part 5, Sec 1)
218	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Rock	Geological Hammer	IS 11315 (Part 5)

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Site Testing				
1	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Bulking of Sand	IS 2386 (Part 3)
2	MECHANICAL- SOIL AND ROCKS	Field Rock	Prebored Pressuremeter Test - Rock	ASTM D4719
3	MECHANICAL- SOIL AND ROCKS	Field Soil	Electrical Resistivity Tomography	IS 3043
4	MECHANICAL- SOIL AND ROCKS	Field Soil	Field CBR	IS 2720 (Part 31)
5	MECHANICAL- SOIL AND ROCKS	Field Soil	Field Permeability - Constant Head	IS 5529 - Part 1
6	MECHANICAL- SOIL AND ROCKS	Field Soil	Field Permeability - Falling Head	IS 5529 - Part 1
7	MECHANICAL- SOIL AND ROCKS	Field Soil	Field Vane Shear Test	IS 4434
8	MECHANICAL- SOIL AND ROCKS	Field Soil	Modulus of Subgrade reaction (K Value)	IS 9214
9	MECHANICAL- SOIL AND ROCKS	Field Soil	Packer Permeability Test	IS 5529 - Part 2
10	MECHANICAL- SOIL AND ROCKS	Field Soil	Prebored Pressuremeter Test - Soil	ASTM D4719
11	MECHANICAL- SOIL AND ROCKS	Field Soil	Standard Penetration Test	IS 2131
12	MECHANICAL- SOIL AND ROCKS	Field Soil	Static Plate Load Test	IS 1888
13	MECHANICAL- SOIL AND ROCKS	Ground Anchors	Pull Out Test	IS 11309
14	MECHANICAL- SOIL AND ROCKS	Pile Foundations	Dynamic Load Test	IRC 78
15	MECHANICAL- SOIL AND ROCKS	Pile Foundations	Lateral Load Test	IS 2911 (Part 4)

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16	MECHANICAL- SOIL AND ROCKS	Pile Foundations	Pull Out Test	IS 2911 (Part 4)
17	MECHANICAL- SOIL AND ROCKS	Pile Foundations	Vertical Load Test	IS 2911 (Part 4)
18	MECHANICAL- SOIL AND ROCKS	Soil	Field Density by Core Cutter Method	IS 2720 (Part 29)
19	MECHANICAL- SOIL AND ROCKS	Soil	Field Density by Sand Replacement Method	IS 2720 (Part 28)
20	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Pavements	Axle Load Test for Roads	IRC 37
21	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Pile and D-Wall	Ultrasonic Crosshole Testing	ASTM 6760
22	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	RC Structures	Bridge Span Load Test	IRC SP-51
23	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	RC Structures	Pile Integrity Test	IS 14893
24	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	RC Structures	Rebound Hammer Test	IS 516 (Part 5, Sec 4)

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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
25	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	RC Structures	Ultra Sonic Pulse Velocity Test	IS 516 (Part 5, Sec 1)
26	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Rock	Geological Hammer	IS 11315 (Part 5)