National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BPC CONSULTANT INDIA PRIVATE LIMITED, BPC VILLAGE, KHUSIGANJ, TARAKESWAR, HOOGHLY, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 27/05/2022 to 26/05/2024 **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	MECHANICAL- BUILDINGS MATERIALS	Bricks	Compressive Strength	IS 3495 (Part 1)
2	MECHANICAL- BUILDINGS MATERIALS	Bricks	Efflorescence	IS 3495 (Part 3)
3	MECHANICAL- BUILDINGS MATERIALS	Bricks	Water Absorption	IS 3495 (Part 2)
4	MECHANICAL- BUILDINGS MATERIALS	Cement	Compressive Strength	IS 4031 (Part 6)
5	MECHANICAL- BUILDINGS MATERIALS	Cement	Consistency	IS 4031 (Part 4)
6	MECHANICAL- BUILDINGS MATERIALS	Cement	Final Setting Time	IS 4031 (Part 5)
7	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness Test by Dry Sieving	IS 4031 (Part 1)
8	MECHANICAL- BUILDINGS MATERIALS	Cement	Initial Setting Time	IS 4031 (Part 5)
9	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness by Le-Chatelier Method	IS 4031 (Part 3)
10	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	10% Fines Value	IS 2386 (Part 4)
11	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Bulk Density	IS 2386 (Part 3)
12	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Crushing Value	IS 2386 (Part 4)
13	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Elongation Index	IS 2386 (Part 1)
14	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Flakiness Index	IS 2386 (Part 1)
15	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Impact Value	IS 2386 (Part 4)
16	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Los Angeles Abrasion Value	IS 2386 (Part 4)
17	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Material Finer than 75 micron	IS 2386 (Part 1)

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18	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Sieve Analysis (Gradation) (Sieve Size: 80 mm, 63 mm, 40 mm, 20 mm, 16 mm, 12.5 mm, 10 mm, 4.75 mm, 2.36 mm)	IS 2386 (Part 1)
19	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Soundness Test	IS 2386 (Part 5)
20	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Specific Gravity	IS 2386 (Part 3)
21	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Stripping Value	IS 6241
22	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Water Absorption	IS 2386 (Part 3)
23	MECHANICAL- BUILDINGS MATERIALS	Common Burnt Clay Building Bricks	Dimensions - Height	IS 1077
24	MECHANICAL- BUILDINGS MATERIALS	Common Burnt Clay Building Bricks	Dimensions - Length	IS 1077
25	MECHANICAL- BUILDINGS MATERIALS	Common Burnt Clay Building Bricks	Dimensions - Width	IS 1077
26	MECHANICAL- BUILDINGS MATERIALS	Concrete	Compressive Strength (Cube)	IS 516 (Part 1, Section 1)
27	MECHANICAL- BUILDINGS MATERIALS	Concrete	Compressive Strength (Cylindrical)	IS 516 (Part 1, Section 1)
28	MECHANICAL- BUILDINGS MATERIALS	Concrete	Depth of Water Penetration under Pressure	IS 516 (Part 2, Section 1)
29	MECHANICAL- BUILDINGS MATERIALS	Concrete	Flexural Strength	IS 516 (Part1, Section 1)
30	MECHANICAL- BUILDINGS MATERIALS	Concrete	Workability (Slump Test)	IS 1199 (Part 2)
31	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Bulk Density	IS 2386 (Part 3)
32	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Bulking	IS 2386 (Part 3)
33	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Material Finer than 75 micron	IS 2386 (Part 1)
34	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Sieve Analysis (Gradation) (Sieve Size: 10 mm, 4.75 mm, 2.36 mm, 1.18 mm, 600 µ, 300 µ, 150 µ)	IS 2386 (Part 1)

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35	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Soundness Test	IS 2386 (Part 5)
36	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Specific Gravity	IS 2386 (Part 3)
37	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Water Absorption	IS 2386 (Part 3)
38	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Density	IS 516 (Part 2, Section 1)
39	MECHANICAL- BUILDINGS MATERIALS	Heavy Duty Bricks	Bulk Density	IS 2180
40	MECHANICAL- BUILDINGS MATERIALS	Heavy Duty Bricks	Dimensions - Height	IS 2180
41	MECHANICAL- BUILDINGS MATERIALS	Heavy Duty Bricks	Dimensions - Length	IS 2180
42	MECHANICAL- BUILDINGS MATERIALS	Heavy Duty Bricks	Dimensions - Width	IS 2180
43	MECHANICAL- SOIL AND ROCK	Rock	Brazilian Test	IS 10082
44	MECHANICAL- SOIL AND ROCK	Rock	Bulk Density	IS 13030
45	MECHANICAL- SOIL AND ROCK	Rock	Dry Density	IS 13030
46	MECHANICAL- SOIL AND ROCK	Rock	Hardness	IS 13630 (Part 13)
47	MECHANICAL- SOIL AND ROCK	Rock	Modulus of Elasticity	IS 9221
48	MECHANICAL- SOIL AND ROCK	Rock	Point Load Strength Index Test	IS 8764
49	MECHANICAL- SOIL AND ROCK	Rock	Poisson's Ratio	IS 9221
50	MECHANICAL- SOIL AND ROCK	Rock	Porosity	IS 13030
51	MECHANICAL- SOIL AND ROCK	Rock	Slake Durability Index	IS 10050
52	MECHANICAL- SOIL AND ROCK	Rock	Specific Gravity	IS 13030
53	MECHANICAL- SOIL AND ROCK	Rock	Unconfined Compression Strength Test	IS 9143

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54	MECHANICAL- SOIL AND ROCK	Rock	Water Absorption	IS 13030
55	MECHANICAL- SOIL AND ROCK	Rock	Water Content	IS 13031
56	MECHANICAL- SOIL AND ROCK	Soil	Bulk Density	BS 1377 (Part 2)
57	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio (CBR)	IS 2720 (Part 16)
58	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test (Co-efficient of Volume Compressibility mv)	IS 2720 (Part 15)
59	MECHANICAL- SOIL AND ROCK	Soil	Consolidation Test (Compression Index, Cc)	IS 2720 (Part 15)
60	MECHANICAL- SOIL AND ROCK	Soil	Constant Head Permeability	IS 2720 (Part 17)
61	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (Angle of Shearing Resistance -Phi)	IS 2720 (Part 13)
62	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test (Cohesion Intercept - c)	IS 2720 (Part 13)
63	MECHANICAL- SOIL AND ROCK	Soil	Dry Density	BS 1377 (Part 2)
64	MECHANICAL- SOIL AND ROCK	Soil	Falling Head Permeability	IS 2720 (Part 17)
65	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40)
66	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (Hydrometer Method)	IS 2720 (Part 4)
67	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (Wet Sieve Analysis)	IS 2720 (Part 4)
68	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (Maximum Dry Density)	IS 2720 (Part 8)
69	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (Optimum Moisture Content)	IS 2720 (Part 8)
70	MECHANICAL- SOIL AND ROCK	Soil	Laboratory Vane Shear Test	IS 2720 (Part 30)
71	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (Maximum Dry Density)	IS 2720 (Part 7)
72	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (Optimum Moisture Content)	IS 2720 (Part 7)

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73	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (Part 5)
74	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 5)
75	MECHANICAL- SOIL AND ROCK	Soil	Relative Density	IS 2720 (Part 14)
76	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Limit	IS 2720 (Part 6)
77	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (Part 3, Section 1)
78	MECHANICAL- SOIL AND ROCK	Soil	Swelling Pressure	IS 2720 (Part 41)
79	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Compression Test without the Measurement of Pore Water Pressure (UU) (Angle of Shear Plane - Phi)	IS 2720 (Part 11)
80	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Compression Test without the Measurement of Pore Water Pressure (UU) (Cohesion - C)	IS 2720 (Part 11)
81	MECHANICAL- SOIL AND ROCK	Soil	Unconfined Compressive Strength	IS 2720 (Part 10)
82	MECHANICAL- SOIL AND ROCK	Soil	Water Content	IS 2720 (Part 2, Section 1)

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Site Facility				
1	MECHANICAL- SOIL AND ROCK	Soil - Field Testing	Benkelman Beam Deflection Test	IRC 81
2	MECHANICAL- SOIL AND ROCK	Soil - Field Testing	CBR % by Dynamic Cone Penetration Test (DCPT)	IRC SP - 72 (Appendix C)
3	MECHANICAL- SOIL AND ROCK	Soil - Field Testing	Dry Density of Soils in Place by Sand Replacement Method	IS 2720 (Part 28)
4	MECHANICAL- SOIL AND ROCK	Soil - Field Testing	Dry Density of Soils In-Place by Core Cutter Method	IS 2720 (Part 29)
5	MECHANICAL- SOIL AND ROCK	Soil - Field Testing	Field California Bearing Ratio	IS 2720 (Part 31)
6	MECHANICAL- SOIL AND ROCK	Soil - Field Testing	In Situ Permeability Test	IS 5529 (Part 1)
7	MECHANICAL- SOIL AND ROCK	Soil - Field Testing	Rapid Determination of Water Content from the Gas Pressure using Calcium Carbide (Rapid Moisture Meter Method)	IS 2720 (Part 2, Section 5)
8	MECHANICAL- SOIL AND ROCK	Soil - Field Testing	Standard Penetration Test	IS 2131
9	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Rebound Hammer Test	IS 516 (Part 5, Section 4)