National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BHADRAH CIVIL SOLUTIONS LLP, 24/335A, JANATHA JUNCTION, P. O. MANJUMMEL, ERNAKULAM, KERALA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-17194 **Page No** 1 of 10

Validity 02/12/2025 to 01/12/2029 **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 Testing				
1	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Accelerated Cured Concrete Cube	Compressive Strength	IS 9013
2	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Autoclaved Aerated Concrete Blocks	Compressive Strength	IS 6441 (Part 5)
3	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Autoclaved Aerated Concrete Blocks	Dimensions - Length	IS 2185 (Part 3)
4	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Autoclaved Aerated Concrete Blocks	Dimensions - Thickness	IS 2185 (Part 3)
5	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Autoclaved Aerated Concrete Blocks	Dimensions - Width	IS 2185 (Part 3)
6	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Autoclaved Aerated Concrete Blocks	Moisture Content	IS 6441 (Part 1)
7	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Burnt Clay Building Bricks	Compressive Strength	IS 3495 (Part 1)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-17194 **Page No** 2 of 10

Validity 02/12/2025 to 01/12/2029 **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
8	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Burnt Clay Building Bricks	Dimension - Height	IS 1077
9	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Burnt Clay Building Bricks	Dimension - Length	IS 1077
10	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Burnt Clay Building Bricks	Dimension - Width	IS 1077
11	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Burnt Clay Building Bricks	Water Absorption	IS 3495 (Part 2)
12	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregate	Bulk Density (Compacted)	IS 2386 (Part 3)
13	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregate	Bulk Density (Loose)	IS 2386 (Part 3)
14	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part 4)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-17194 **Page No** 3 of 10

Validity 02/12/2025 to 01/12/2029 **Last Amended on** -

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15	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part 1)
16	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (Part 1)
17	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (Part 4)
18	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregate	Sieve Analysis (Sieve Size : 100 mm - 4.75 mm)	IS 2386 (Part 1)
19	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part 3)
20	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part 3)
21	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Concrete Paving Blocks	Compressive Strength	IS 15658 (Clause 6.2.5.1, 7.3, Annexure D)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-17194 **Page No** 4 of 10

Validity 02/12/2025 to 01/12/2029 **Last Amended on** -

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22	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Concrete Paving Blocks	Dimensions - Length	IS 15658 (Clause 7.2, Annexure B)
23	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Concrete Paving Blocks	Dimensions - Thickness	IS 15658 (Clause 7.2, Annexure B)
24	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Concrete Paving Blocks	Dimensions - Width	IS 15658 (Clause 7.2, Annexure B)
25	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Fine Aggregate	Bulk Density (Compacted)	IS 2386 (Part 3)
26	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Fine Aggregate	Bulk Density (Loose)	IS 2386 (Part 3)
27	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Fine Aggregate	Materials Finer than 75 microns	IS 2386 (Part 1)
28	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Fine Aggregate	Sieve Analysis (Sieve Size : 0.075 mm - 4.75 mm)	IS 2386 (Part 1)

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-17194 **Page No** 5 of 10

Validity 02/12/2025 to 01/12/2029 **Last Amended on** -

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29	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (Part 3)
30	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (Part 3)
31	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Fresh Concrete	Slump Test	IS 1199 (Part 2)
32	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Hardened Concrete (Core)	Compressive Strength	IS 516 (Part 4)
33	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Hardened Concrete (Cube)	Compressive Strength	IS 516 (Part 1, Section1)
34	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	High Strength Deformed Steel Bars for Concrete	Bend Test (Mandrel Size: 30 mm, 32 mm, 36 mm, 40 mm, 48 mm, 50 mm, 60 mm, 64 mm, 72 mm, 80 mm, 84 mm, 100 mm, 112 mm, 120 mm, 125 mm, 140 mm)	IS 1599
35	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	High Strength Deformed Steel Bars for Concrete	Elongation Percentage	IS 1608 (Part 1)

SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-17194 **Page No** 6 of 10

Validity 02/12/2025 to 01/12/2029 **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
36	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	High Strength Deformed Steel Bars for Concrete	Rebend Test (Mandrel Size : 32 mm, 40 mm, 48 mm, 50 mm, 56 mm, 60 mm, 70 mm, 72 mm, 84 mm, 96 mm, 112 mm, 120 mm, 128 mm, 140 mm)	IS 1786
37	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	High Strength Deformed Steel Bars for Concrete	Ultimate Tensile Strength	IS 1608 (Part 1)
38	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	High Strength Deformed Steel Bars for Concrete	Weigh / Meter	IS 1786
39	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	High Strength Deformed Steel Bars for Concrete	Yield stress	IS 1608 (Part 1)
40	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Ordinary Portland Cement 33,43,53 Grade	Standard Consistency	IS 4031 (Part 4)
41	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Ordinary Portland Cement 33,43,53 Grade	Density	IS 4031 (Part 11)
42	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Ordinary Portland Cement 33,43,53 Grade	Final Setting Time	IS 4031 (Part 5)

SCOPE OF ACCREDITATION

Laboratory Name : BHADRAH CIVIL SOLUTIONS LLP, 24/335A, JANATHA JUNCTION, P. O. MANJUMMEL, ERNAKULAM, KERALA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-17194 **Page No** 7 of 10

Validity 02/12/2025 to 01/12/2029 **Last Amended on** -

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43	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Ordinary Portland Cement 33,43,53 Grade	Fineness	IS 4031 (Part 1) - by Dry Sieving Method
44	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Ordinary Portland Cement 33,43,53 Grade	Initial Setting Time	IS 4031 (Part 5)
45	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Ordinary Portland Cement 33,43,53 Grade	Soundness	IS 4031 (Part 3) - by Le-Chatelier Method
46	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Ordinary Portland Cement 33,43,53 Grade	Compressive Strength - 168 Hours	IS 4031 (Part 6)
47	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Ordinary Portland Cement 33,43,53 Grade	Compressive Strength - 672 Hours	IS 4031 (Part 6)
48	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Ordinary Portland Cement 33,43,53 Grade	Compressive Strength - 72 Hours	IS 4031 (Part 6)
49	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Paver Blocks	Water Absorption	IS 15658 (Clause 7.3, Annexure C)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-17194 **Page No** 8 of 10

Validity 02/12/2025 to 01/12/2029 **Last Amended on** -

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50	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Portland Pozzolana Cement	Compressive Strength - 168 Hours	IS 4031 (Part 6)
51	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Portland Pozzolana Cement	Compressive Strength - 672 Hours	IS 4031 (Part 6)
52	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Portland Pozzolana Cement	Compressive Strength - 72 Hours	IS 4031 (Part 6)
53	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Portland Pozzolana Cement	Density	IS 4031 (Part 11)
54	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Portland Pozzolana Cement	Final Setting Time	IS 4031 (Part 5)
55	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Portland Pozzolana Cement	Fineness	IS 4031 (Part 1) - by Dry Sieving Method
56	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Portland Pozzolana Cement	Initial Setting Time	IS 4031 (Part 5)

SCOPE OF ACCREDITATION

Laboratory Name : BHADRAH CIVIL SOLUTIONS LLP, 24/335A, JANATHA JUNCTION, P. O. MANJUMMEL, ERNAKULAM, KERALA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-17194 **Page No** 9 of 10

Validity 02/12/2025 to 01/12/2029 **Last Amended on** -

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57	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Portland Pozzolana Cement	Soundness	IS 4031 (Part 3) - by Le-Chatelier Method
58	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Portland Pozzolana Cement	Standard Consistency	IS 4031 (Part 4)
59	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Precast Autoclaved Cellular (Aerated) Concrete Blocks	Bulk Density	IS 6441(Part 1)
60	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Solid Concrete Blocks	Block Density	IS 2185 (Part 1, Clauses 9.3, 10, Annexure C)
61	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Solid Concrete Blocks	Compressive Strength	IS 2185 (Part 1, Clauses 9.4, 10, Annexure D)
62	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Solid Concrete Blocks	Dimensions - Height	IS 2185 (Part 1, Clauses 9.2, 10, Annexure B)
63	MECHANICAL-BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Solid Concrete Blocks	Dimensions - Length	IS 2185 (Part 1, Clauses 9.2, 10, Annexure B)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-17194 **Page No** 10 of 10

Validity 02/12/2025 to 01/12/2029 **Last Amended on** -

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64	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Solid Concrete Blocks	Dimensions - Width	IS 2185 (Part 1, Clauses 9.2, 10, Annexure B)
65	MECHANICAL- BUILDING, INFRASTRUCTURE & CONSTRUCTION MATERIALS	Solid Concrete Blocks	Water Absorption	IS 2185 (Part 1, Clauses 9.5, 10, Annexure E)
66	MECHANICAL- SOIL- BASIC	Soil	Free Swell Index	IS 2720 (Part 40)
67	MECHANICAL- SOIL- BASIC	Soil	Heavy Compaction – MDD	IS 2720 (Part 8)
68	MECHANICAL- SOIL- BASIC	Soil	Heavy Compaction – OMC	IS 2720 (Part 8)
69	MECHANICAL- SOIL- BASIC	Soil	Light Compaction – MDD	IS 2720 (Part 7)
70	MECHANICAL- SOIL- BASIC	Soil	Light Compaction – OMC	IS 2720 (Part 7)
71	MECHANICAL- SOIL- BASIC	Soil	Liquid Limit	IS 2720 (Part 5)
72	MECHANICAL- SOIL- BASIC	Soil	Plastic Limit	IS 2720 (Part 5)
73	MECHANICAL- SOIL- BASIC	Soil	Sieve Analysis (Sieve Size : 100 mm - 4.75 mm)	IS 2720 (Part 4) - by Dry Sieving Method
74	MECHANICAL- SOIL- BASIC	Soil	Sieve Analysis (Sieve Size : 4.75 mm - 0.075 mm)	IS 2720 (Part 4) - by Wet Sieving Method
75	MECHANICAL- SOIL- BASIC	Soil	Water Content	IS 2720 (Part 2)