



# CERTIFICATE OF ACCREDITATION

*This is to attest that*

## **DUROCRETE ENGINEERING SERVICES PRIVATE LTD.**

PLOT NO A387, CP TALAV, RAM NAGAR, RD NUMBER 28 NEAR SADHANA JUNIOR COLLEGE  
THANE, MH, 400604, REPUBLIC OF INDIA

### **Testing Laboratory TL-1123**

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Expiry Date January 1, 2027  
Effective Date January 10, 2024



A handwritten signature in black ink, reading 'Raj Nathan'.

**President**

Visit [www.iasonline.org](http://www.iasonline.org) for current accreditation information.

# SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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## DUROCRETE ENGINEERING SERVICES PRIVATE LTD.

[www.durocrete.in](http://www.durocrete.in)

**Contact Name** Irsha Kangude

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*Accredited to ISO/IEC 17025:2017*

*Effective Date January 10, 2024*

<b>Mechanical and Chemical</b>	
ASTM A249	Standard Specification for Welded Austenitic Steel Boiler, Superheater, Heat-Exchanger, and Condenser Tubes
ASTM A370	Standard Test Methods and Definitions for Mechanical Testing of Steel Products
ASTM A999	Standard Specification for General Requirements for Alloy and Stainless-Steel Pipe
ASTM C109/C109M	Standard Test Method for Compressive Strength of Hydraulic Cement Mortars
ASTM C307	Standard Test Method for Tensile Strength of Hydraulic-Cement Mortars
ASTM C348	Standard Test Method for Flexural Strength of Hydraulic-Cement Mortars
ASTM C1084	Standard Test Method for Portland-Cement Content of Hardened Hydraulic-Cement Concrete
ASTM C1202	Standard Test Method for Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration
ASTM C1240	Standard Specification for Silica Fume Used in Cementitious Mixtures <sup>1</sup>
ASTM C1660-10	Standard Specification for Thin-bed Mortar for Autoclaved Aerated Concrete (AAC) Masonry
ASTM E8/8M	Standard Test Methods for Tension Testing of Metallic Materials
BS 1881-122	Method for determination of water absorption.
BS 1881-204	Testing concrete Recommendations on the use of electromagnetic cover meters.
BS EN 1015 Parts 1 to 12	Methods of Test For Mortar For Masonry
IS 101: Part 1: Sec 5 Inclusion: Clause 3	Methods Of Sampling And Test For Paints, Varnishes And Related Products Part 1 Tests On Liquid Paints (general And Physical) Sec 5 Consistency
IS 101: Part 1: Sec 7	Methods of Sampling and Test for Paints, Varnishes and Related Products Part 1 Test on Liquid Paints (General and Physical) Section 7 Mass per 10 litres " Determination of density" Pycnometer method.
IS 101: Part 3: Sec 1	Methods Of Sampling And Test For Paints, Varnishes And Related Products Part 3 Tests On Paint Film Formation Sec 1 Drying Time
IS 101: Part 3: Sec 2 Inclusion: Method 3	Methods Of Sampling And Test For Paints, Varnishes And Related Products Part 3 Tests On Paint Film Formation Sec 2 Film Thickness.
IS 101: Part 3: Sec 4	Methods of sampling and test for paints, varnishes and related products part 3 Test on paint film formation sec 4 Finish
IS 101: Part 4: Sec 2	Methods of sampling and test for paints varnishes and related products: Part 4 optical tests: Sec 2 colour Third Revision
IS 101: Part 4: Sec 4	Methods of Sampling and Test for Paints, Varnishes and Related Products Part 4 Optical Test Section 4 Gloss " Determination of gloss value at 20°, 60° and 85°

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IS 101: Part 5: Sec 2	Methods of sampling and test for paints, varnishes and related products part 5 Mechanical test on paint films Sec 2 Flexibility and adhesion
IS 101: Part 8: Sec 2	Methods of sampling and test for paints, varnishes and related products Part 8 Tests for pigments and other solids Sec 2 Pigments and non-volatile matter
IS 101: Part 8: Sec 3	Methods of sampling and test for paints, varnishes and related products: Part 8 Tests for pigments and other solids: Sec 3 Ash content
IS 381	Sodium silicate - Specification
IS 516: Part 1: Sec 1	Hardened concrete methods of test part 1 testing of strength of hardened concrete section 1 compressive, flexural and split tensile strength.
IS 516: Part 2: Sec 1	Hardened Concrete — Methods of Test Part 2 Properties of Hardened Concrete other than Strength Section 1 Density of Hardened Concrete and Depth of Water Penetration Under Pressure
IS 516: Part 2: Sec 2	Methods of Test Part 2 Properties of Hardened Concrete other than Strength Section 2 Initial surface absorption.
IS 516: Part 4	Hardened Concrete —Methods of Test Part 4 Sampling, Preparing and Testing of Concrete Cores.
IS 516: Part 5: Sec 1	Hardened Concrete —Methods of Test Part 5 Non-destructive Testing of Concrete Section 1 Ultrasonic Pulse Velocity Testing.
IS 516: Part 5: Sec 2	Hardened concrete-methods of test part 5 non-destructive testing section 2 half -cell potentials of uncoated reinforcing steel in concrete.
IS 516: Part 5: Sec 3	Hardened Concrete - Methods of Test Part 5 Non-Destructive Testing of Concrete Section 3 Carbonation Depth Test.
IS 516: Part 5: Sec 4	Hardened Concrete- Methods of Test Part 5 Non-Destructive Testing of Concrete Section 4 Rebound Hammer Test.
IS 516: Part 6	Hardened Concrete — Methods of Test Part 6 Determination of Drying Shrinkage and Moisture Movement of Concrete Samples
IS 516: Part 8: Sec 1	Hardened Concrete -Methods of Test Part 8 Determination of Modulus of Elasticity Section 1 Static Modulus of Elasticity and Poisson's Ratio in Compression
IS 1077	Common Burnt Clay Building Bricks -Specification
IS 1121: Part 1	Determination of Strength Properties of Natural Building Stones - Methods of Test Part 1 Compressive Strength
IS 1121: Part 2	Determination of Strength Properties of Natural Building Stones - Methods of Test Part 2 Transverse Strength
IS 1124	Method of test for determination of water absorption, apparent specific gravity and porosity of natural building stones
IS 1199: Part 2 (Excluding 4.4, 4.5, 4.6)	Fresh Concrete— Methods of Sampling, Testing and Analysis Part 2 Determination of Consistency of Fresh Concrete.
IS 1199: Part 4	Fresh Concrete — Methods of Sampling, Testing and Analysis Part 4 Determination of Air Content of Fresh Concrete.
IS 1199: Part 7	Fresh Concrete — Methods of Sampling, Testing and Analysis Part 7 Determination of Setting Time of Concrete by Penetration Resistance.
IS 1237 Inclusion: Annexure E & F	Cement Concrete Flooring Tiles – Specification
IS 1288 Exclusion: Clause 13 and 14	Methods of test for mineral gypsum
IS 1599	Metallic Materials - Bend Test
IS 1608: Part 1	Metallic materials - Tensile testing - Part 1 : Method of test at room temperature
IS 1706	Method for determination of resistance to wear by abrasion of natural building stones
IS 1727	Methods of test for Pozzolanic materials

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IS 1734: Part 1 to 20 Inclusion: Part 1, 2,5, 6.	Methods of test for plywood.
IS 1786	High strength deformed steel bars and wires for concrete reinforcement
IS 2185: Part 1	Concrete masonry units - : Part 1 Hollow and solid concrete blocks
IS 2185: Part 3	Concrete Masonry Units Part 3 Autoclaved Cellular Aerated Concrete Blocks
IS 2185: Part 4	Concrete masonry units - : Part 4 Preformed foam cellular concrete blocks.
IS 2328	Metallic Materials — Tube — Flattening Test
IS 2386: Part 1	Methods of Test for Aggregates for Concrete - Part I : Particle Size and Shape
IS 2386: Part 2	Methods of test for aggregates for concrete Part 2 Estimation of deleterious materials and organic impurities
IS 2386: Part 3	Methods of test for aggregates for concrete Part 3 Specific gravity, density, voids, absorption and bulking
IS 2386: Part 4 (Excluding Sec. 6)	Methods of test for aggregates for concrete Part 4 Mechanical properties Exclusion – Determination of Polished Stone Value
IS 2386: Part 5	Methods of Test for Aggregates for Concrete - Part V: Soundness
IS 2386: Part 7	Methods of Test for Aggregates for Concrete - Part VII : Alkali Aggregate Reactivity
IS 2542: Part 1: Sec 1 to 12 (Inclusion Parts 1,3,5,6,12)	Methods of Test for Gypsum Plaster, Concrete and Products - Part I : Plaster and Concrete
IS 2547: Part 1	Gypsum building plaster: Part 1 Excluding premixed lightweight plaster
IS 2547: Part 2	Gypsum building plaster: Part 2 Premixed lightweight plaster
IS 2720: Part 2	Methods of test for soils: Part 2 Determination of water content
IS 2720: Part 3: Sec 1	Methods of test for soils: Part 3 Determination of specific gravity, Section 1 Fine grained soils.
IS 2720: Part 3: Sec 2	Methods of test for soils: Part 3 Determination of specific gravity, Section 2 Coarse grained soils
IS 2720: Part 4	Methods of test for soils: Part 4 Grain size analysis
IS 2720: Part 5	Methods of test for soils: Part 5 Determination of liquid and plastic limit.
IS 2720: Part 6	Methods of test for soils: Part 6 Determination of shrinkage factors
IS 2720: Part 8	Methods of test for soils: Part 8 Determination of water content-dry density relation using heavy compaction.
IS 2720: Part 16	Methods of test for soils: Part 16 Laboratory determination of CBR
IS 2720: Part 22	Methods of test for soils: Part 22 Determination of organic Matter
IS 2720: Part 26	Method of test for soils: Part 26 Determination of pH value
IS 2720: Part 27 Inclusion: Clause 2	Methods of test for soils: Part 27 Determination of total soluble sulphates
IS 2720: Part 40	Methods of test for soils: Part 40 Determination of free swell index of soils.
IS 2770: Part I	Methods of testing bond in reinforced concrete Part 1 Pull-out test.
IS 3025: Part 11	Methods of sampling and test (physical and chemical) for water and wastewater Part 11 pH value Second Revision
IS 3025: Part 15	Methods of sampling and test (physical and chemical) for water and wastewater : Part 15 Total residue (total solids-dissolved and suspended)
IS 3025: Part 17	Methods of Sampling and Test Physical and Chemical for Water and Waste Water Part 17 Non-Filterable Residue Total Suspended Solids at 103°C-105°C Second Revision
IS 3025: Part 18	Methods of Sampling and Test (Physical and Chemical) for Water and Wastewater - Part 18 Volatile and Fixed Solids (Total, Filterable and Non-Filterable) at 550°C
IS 3025: Part 21 Exclusion: Clause 6,7	Methods of sampling and test (physical and chemical) for water and wastewater : Part 21 Total hardness

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IS 3025: Part 22	Methods of Sampling and Test (Physical and Chemical) for Water and Waste Water - Part 22 : Acidity
IS 3025: Part 23	Methods of sampling and test (physical and chemical) for water and wastewater : Part 23 Alkalinity
IS 3025: Part 24 Inclusion: Clause 2	Methods of sampling and test (physical and chemical) for water and wastewater : Part 24 Sulphates
IS 3025: Part 32 Inclusion: Clause 2	Methods of sampling and test (physical and chemical) for water and wastewater : Part 32 Chloride
IS 3495: Part 1	Burnt Clay Building Bricks — Methods of Tests Part 1 Determination of Compressive Strength
IS 3495: Part 2	Burnt Clay Building Bricks — Methods of Tests Part 2 Determination of Water Absorption
IS 3495: Part 3	Burnt Clay Building Bricks — Methods of Tests Part 3 Determination of Efflorescence
IS 3812: Part 1	Pulverized Fuel Ash - Part 1 : For Use as Pozzolana in Cement, Cement Mortar and Concrete
IS 4020: Part 1 to 16 (Including Parts 8,10,13,14,15,16)	Door Shutters - Methods of Tests
IS 4031: Part 1	Methods of physical tests for hydraulic cement: Part 1 Determination of fineness by dry sieving
IS 4031: Part 2	Methods of physical tests for hydraulic cement: Part 2 Determination of fineness by specific surface by Blaine air permeability method
IS 4031: Part 3	Methods of physical tests for hydraulic cement: Part 3 Determination of soundness
IS 4031: Part 4	Methods of physical tests for hydraulic cement: Part 4 Determination of consistency of standard cement paste
IS 4031: Part 5	Methods of physical tests for hydraulic cement: Part 5 Determination of initial and final setting times
IS 4031: Part 6	Methods of physical tests for hydraulic cement: Part 6 Determination of compressive strength of hydraulic cement (other than masonry cement)
IS 4031: Part 10	Methods of physical tests for hydraulic cement: Part 10 Determination of drying shrinkage
IS 4031: Part 11	Methods of physical tests for hydraulic cement: Part 11 Determination of density
IS 4032 Exclusion: Clause 5	Method of chemical analysis of hydraulic cement
IS 5758	Precast Concrete Kerbs, Channels, Edging, Quadrants and Other Associated Fittings - Specification
IS 6441: Part 1	Methods of test for autoclaved cellular concrete products: Part I Determination of unit weight or bulk density and moisture content
IS 6441: Part 2	Methods of Test for Autoclaved Cellular Concrete Products - Part II : Determination of Drying Shrinkage.
IS 6441: Part 5	Methods of Test for Autoclaved Cellular Concrete Products - Part V : Determination of Compressive Strength
IS 6925	Specification for Methods of Test for Determination of Water-Soluble Chlorides in Concrete Admixtures
IS 6932: Part 1	Method of test for building limes Part 1 Determination of insoluble residue, loss on ignition, insoluble matter, silicone dioxide, ferric and aluminium oxide, calcium oxide and magnesium oxide
IS 9013	Method of making, curing and determining compressive strength of accelerated cured concrete test specimens.

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IS 9103 Exclusion: ANNEX B	Specification for Concrete Admixtures
IS 9143	Method for the determination of unconfined compressive strength of rock materials
IS 9162 (Inclusion: Clause 8,9,10)	Methods of tests for Epoxy resins, Hardeners and Epoxy resins Compositions For floor topping.
IS 9879	Method for Emission Spectrometric Analysis of Austenitic and Ferritic Stainless Steels Point to Plane Technique
IS 12894	Pulverized Fuel Ash-Lime Bricks.
IS 13030	Method of test for laboratory determination of water content, porosity, density and related properties of rock material
IS 13630: Part 1	Ceramic Tiles — Methods of Test, Sampling and Basis for Acceptance Part 1 Determination of Dimensions and Surface Quality
IS 13630: Part 2 Exclusion clause 5.2	Ceramic Tiles — Methods of Test, Sampling and Basis for Acceptance Part 2 Determination of Water Absorption and Bulk Density
IS 13630: Part 3 Exclusion clause 5.1	Ceramic Tiles — Methods of Test, Sampling and Basis for Acceptance Part 3 Determination of Moisture Expansion Using Boiling Water
IS 13630: Part 5	Ceramic Tiles — Methods of Test, Sampling and Basis for Acceptance Part 5 Determination of Resistance to Thermal Shock.
IS 13630: Part 6	Ceramic Tiles — Methods of Test, Sampling and Basis for Acceptance Part 6 Determination of Modulus of Rupture and Breaking Strength
IS 13630: Part 7	Ceramic Tiles — Methods of Test, Sampling and Basis for Acceptance Part 7 Determination of Stain and Chemical Resistance of Unglazed Tiles
IS 13630: Part 8	Ceramic Tiles — Methods of Test, Sampling and Basis for Acceptance Part 8 Determination of Stain and Chemical Resistance of Glazed Tiles
IS 13630: Part 9	Ceramic Tiles — Methods of Test, Sampling and Basis for Acceptance Part 9 Determination of Craze Resistance of Glazed Tiles
IS 13630: Part 13	Ceramic Tiles — Methods of Test Sampling and Basis for Acceptance Part 13 Determination of Scratch Hardness of Surface According to Mohs' Scale
IS 13757	Burnt Clay Fly Ash Building Bricks-specification
IS 13801 Inclusion: Annexure E & F	Chequered Cement Concrete Tiles- Specification
IS 14212 Exclusion: A-11, A-12	Sodium & Potassium silicate - Method of test
IS 14223: Part 1	Polished Building Stones: Part 1 Granite
IS 14268	Uncoated Stress Relieved Low Relaxation Seven-Wire (Ply) Strand for Pre-stressed Concrete - Specification
IS 14959: Part 2	Method of Test determination of water soluble and acid soluble chlorides in mortar and concrete Part 2 : Hardened mortar and concrete.
IS 15388	Specification for Silica Fume
IS 15489 Inclusion: Annex F, H, J	Paint, Plastic Emulsion - Specification
IS 15658 Excluding Annexure E & H	Concrete Paving Blocks – Specification
IS 16172 Exclusion: Clause 9.3, 9.4, 9.5	Reinforcement Couplers for Mechanical Splices of Bars in Concrete – Specification.
IS 16714	Ground Granulated Blast Furnace Slag for Use in Cement, Mortar & Concrete-Specification
IS 2720: Part 7	Methods of test for soils: Part 7 Determination of water content-dry density relation using light compaction.

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ISO 6892-Part- 1	Metallic materials — Tensile testing — Part 1: Method of test at room temperature
MORTH Table 400-1 Grading for Granular Sub-Base Material	Specification for Road – Earthwork, Sub-base & Base course as per MORTH
MORTH Table 400-13 Grading Requirement of Aggregates for Wet Mix Macadam	Specification for Road – Earthwork, Sub-base & Base course as per MORTH