

CERTIFICATE OF ACCREDITATION

This is to attest that

DUROCRETE ENGINEERING SERVICES PRIVATE LTD.

SURVEY NO. 38, HISSA NO. 2/3 NEAR PARI COMPANY CHOWK, NARHE INDUSTRIAL ESTATE RD OPPOSITE VENKATESH SHARVIL SOCIETY, PUNE, MH 411041, REPUBLIC OF INDIA

Testing Laboratory TL-1092

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 October 22, 2023



President

International Accreditation Service, Inc.

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DUROCRETE ENGINEERING SERVICES PRIVATE LTD.

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Accredited to ISO/IEC 17025:2017

Effective Date October 22, 2023

Admixture, Water Proofing Compound			
IS 6925	Specification for Methods of Test for Determination of Water Soluble Chlorides in Concrete Admixtures		
IS 9103	Specification for Concrete Admixtures		
Aggregate			
IS 2386: Part 1	Methods of Test for Aggregates for Concrete - Part I: Particle Size and Shape (Excluding Sec. 6)		
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	Methods of test for aggregates for concrete Part 4 Mechanical properties (Excluding Sec. 6)		
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 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		
Autoclave Aerated Blocks	(AAC Block)		
IS 2185: Part 3	Concrete Masonry Units Part 3 Autoclaved Cellular Aerated Concrete Blocks		
IS 3346	Method of the determination of thermal conductivity of thermal insulation materials (two slab guarded hot plate method)		
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		



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Burnt Clay Bricks & FI	v Ash Bricks			
	<u>-</u>			
IS 1077	Common Burnt Clay Building Bricks -Specification			
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 12894	Pulverized Fuel Ash-Lime Bricks.			
IS 13757	Burnt Clay Fly Ash Building Bricks-specification			
Carbon and Low Alloy	Steel (Chemical Analysis by OES)			
ASTM E415	Standard Test Method for Analysis of Carbon and Low-Alloy Steel by Spark Atomic Emission Spectrometry. Inclusions (Element & Range): Carbon 0.080% to 0.900% Silicon 0.150% to 0.450% Manganese 0.100% to 2.000% Sulphur 0.010% to 0.055% Phosphorus 0.010% to 0.085%			
IS 8811	Method for Emission Spectrometric Analysis of Plain Carbon and Low Alloy Steels Point to Plane Technique Inclusions (Element & Range): Carbon 0.080% to 0.900% Silicon 0.150% to 0.450% Manganese 0.100% to 2.000% Sulphur 0.010% to 0.055% Phosphorus 0.010% to 0.085%			
JIS G 1253	Iron and steel—Method for spark discharge atomic emission spectrometric analysis Inclusions (Element & Range): Carbon 0.080% to 0.900% Silicon 0.150% to 0.450% Manganese 0.100% to 2.000% Sulphur 0.010% to 0.055% Phosphorus 0.010% to 0.085%			
Cellular Light Weight (Concrete Block			
IS 2185: Part 4	Concrete masonry units - Part 4 Preformed foam cellular concrete blocks.			
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Cement Concrete Chequered Tiles					
IS 13801	Chequered Cement Concrete Tiles				
Cement Concrete Flooring Tiles					
IS 1237	Cement Concrete Flooring Tiles - Specification				
Cementitious Material (Cement & GGBS/GGBFS)					
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 finenes 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 densit				
IS 4032	Method of chemical analysis of hydraulic cement				
IS 16714	Ground Granulated Blast Furnace Slag for Use in Cement, Mortar & Concrete-Specification				
Ceramic Tiles					
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	Ceramic Tiles — Methods of Test, Sampling and Basis for Acceptance Part 2 Determination of Water Absorption and Bulk Density				
IS 13630: Part 3	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				



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IS 13630: Part 9	Ceramic Tiles — Methods of Test, Sampling and Basis for Acceptance Part 9 Determination of Crazing 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	
Concrete / Hardened Co	oncrete / Hardened Concrete Core	
ASTM F710-11	Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring	
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 4	Hardened Concrete —Methods of Test Part 4 Sampling, Preparing and Testing of Concrete Cores	
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 1199 Part 2	Fresh Concrete— Methods of Sampling, Testing and Analysis Part 2 Determination of Consistency of Fresh Concrete (Excluding 4.4, 4.5, 4.6)	
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 2770: Part 1	Methods of testing bond in reinforced concrete Part 1 Pull-out test	
IS 4032	Method of chemical analysis of hydraulic cement	
IS 9013	Method of making, curing and determining compressive strength of accelerated cured concrete test specimens	
Door Shutter		
IS 4020	Door Shutters - Methods of Tests, Inclusions: Parts - 1, 2, 3, 4, 5, 8, 10, 11, 13, 14, 15 and 16	
Finishing Product/Adhe	esive/Mortar	
BS 1881-207	Testing concrete Recommendations for the assessment of concrete strength by near-to-surface tests	
Flooring Product Tile	·	



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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		
Flooring Product Tile/Mar	ble/Granite		
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		
GSB			
Morth Table 400-1 Grading for Granular Sub-Base Material	Specification for Road – Earthwork, Sub-base & Base course as per Morth		
Gypsum Plaster			
IS 1288	Methods of test for mineral gypsum		
IS 2547: Part 1	Gypsum building plaster: Part 1 Excluding premixed lightweight plaster		
IS 2547: Part 2	Gypsum building plaster: Part 2 Lightweight plaster		
Lime			
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		
Masonry Block (Hollow/So	olid)		
IS 2185: Part 1	Concrete masonry units - Part 1 Hollow and solid concrete blocks		
Masonry Mortar			
BS EN 1015 Part 1 to 12	Methods of Test For Mortar For Masonry		
Masonry Structure			
IS 13946: Part 4	Determination of rock stress-Code of practice Part 4 Using flat jack technique.		
Metallic Materials (Mechai	nical Tests)		
ASTM A249	Standard Specification for Welded Austenitic Steel Boiler, Super heater, Hear 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 A 1038	Standard Test Method for Portable Hardness Testing by the Ultrasonic Contact Impedance Method		
ASTM E8/E8M	Standard Test Methods for Tension Testing of Metallic Materials		
ASTM A999 ASTM A 1038	Standard Test Methods and Definitions for Mechanical Testing of Steel Products Standard Specification for General Requirements for Alloy and Stainless S Pipe Standard Test Method for Portable Hardness Testing by the Ultrasonic Co Impedance Method		



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ASTM E797 / E797M-15	Standard Practice for Measuring Thickness by Manual Ultrasonic Pulse-Echo Contact Method			
IS 1599	Metallic Materials - Bend Test			
IS 1608: Part 1	Metallic materials - Tensile testing - Part 1: Method of test at room temperature			
IS 1757 Part 1	Metallic Materials — Charpy Pendulum Impact Test Part 1 Test Method			
IS 1786	High strength deformed steel bars and wires for concrete reinforcement-			
IS 2328	Metallic Materials — Tube — Flattening Test			
ISO 6892-Part- 1	Metallic materials — Tensile testing — Part 1: Method of test at room temperature			
Metallic Material (Non Des	tructive Testing)			
ASME Sec V, Article 4, Edition 2023	Non-destructive Examination, Article 4- Ultrasonic Examination Methods for Welds.			
ASME Sec V, Article 5, Edition 2023	Non-destructive Examination, Article 5- Ultrasonic Examination Methods for Materials.			
ASME Sec. V, Article 6, Edition 2023	Non-destructive Examination, Article 6- Liquid Penetrant Examination.			
ASME Sec. V, Article 7, Edition 2023	Non-destructive Examination, Article 7- Magnetic Particle Examination			
ASME Sec. V, Article 9, Edition 2023	Non-destructive Examination, Article 9- Visual Examination			
ASME Sec VIII, Division 1, Appendix 6, Edition 2023	Rules for Construction of Pressure Vessels - Appendix 6: Methods for Magnetic Particle Examination (MT)			
ASME Sec VIII, Division 1, Appendix 8, Edition 2023	Rules for Construction of Pressure Vessels - Appendix 8: Methods for Liquid Penetrant Examination. (PT)			
ASME Sec VIII, Division 1, Appendix 12, Edition 2023	Rules for Construction of Pressure Vessels - Appendix 12: Ultrasonic Examination for Welds. (UT)			
Micro Silica				
ASTM C1240	Standard Specification for Silica Fume Used in Cementitious Mixtures1			
IS 1727	Methods of test for Pozzolanic materials			
IS 15388	Specification for Silica Fume			
Natural Building Stone				
IS 1121: Part 1	Determination of Strength Properties of Natural Building Stones - Methods of Test Part 1 Compressive Strength			



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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 1706	Method for determination of resistance to wear by abrasion of natural building stones	
IS 14223: Part 1	Polished Building Stones: Part 1 Granite	
Paint	·	
ASTM D4414-95	Standard Practice for Measurement of Wet Film Thickness by Notch Gages Inclusion: Procedure A	
IS 101: Part 1: Sec 1	Methods Of Sampling And Test For Paints, Varnishes And Related Products Part 1 Test On Liquid Paints (general And Physical) Sec 1 Sampling	
IS 101: Part 1: Sec 5	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 Par 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	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 4: Sec 2	Methods of sampling and test for paints varnishes and related products: Part 4 optical tests: Sec 2 colour	
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°	
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 15489	Paint, Plastic Emulsion - Specification	
Paving Block	<u> </u>	
IS 15658	Concrete Paving Blocks – Specification, Excluding Annexure E & H	
Plaster Product		



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IS 2542: Part 1	Methods of Test for Gypsum Plaster, Concrete and Products - Part I : Plaster and Concrete. Inclusions Sec- 1,3,5,6,12			
Plywood				
IS 1734: Part 1 to 20	Methods of test for plywood			
Precast Concrete Kerb	Stone			
IS 5758	Precast Concrete Kerbs, Channels, Edging, Quadrants and Other Associated Fittings - Specification			
Pre-stressed Strand				
IS 14268	Uncoated Stress Relieved Low Relaxation Seven-Wire (Ply) Strand for Prestressed Concrete - Specification			
Pulverised Fuel Ash / F	ly Ash			
IS 1727	Methods of test for Pozzolanic materials			
IS 3812: Part 1	Methods of test for Pozzolanic materials			
Reinforce Concrete Str	ructural Members			
BS 1881-204	Testing concrete Recommendations on the use of electromagnetic cover meters.			
IS 456	Plain and Reinforced Concrete - Code of Practice			
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			
Reinforced Steel (Mech	nanical tests)			
IS 1599	Metallic Materials - Bend Test			
IS 1608: Part 1	Metallic materials - Tensile testing - Part 1: Method of test at room temperature			
IS 1786	High strength deformed steel bars and wires for concrete reinforcement			
Reinforcement Couple	r			
IS 16172	Reinforcement Couplers for Mechanical Splices of Bars in Concrete - Specification			
Soil / GSB/ Earth-Fill / S	Stabilized Sub-Base/ WBM / WMM			





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ASTM D6572	Standard Test Methods for Determining Dispersive Characteristics of Clayey Soils by the Crumb Test.			
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 Fin 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 7	Methods of test for soils: Part 7 Determination of water content-dry density relation using light compaction.			
IS 2720: Part 8	Methods of test for soils: Part 8 Determination of water content-dry density relation using heavy compaction			
IS 2720: Part 10	Methods of test for soils: Part 10 Determination of unconfined compressive strength			
IS 2720: Part 13	Methods of test for soils: Part 13 Direct shear test			
IS 2720: Part 16	Methods of test for soils: Part 16 Laboratory determination of CBR			
IS 2720: Part 17	Methods of test for soils: Part 17 Laboratory determination of permeability			
IS 2720: Part 26	Method of test for soils: Part 26 Determination of pH value			
IS 2720: Part 27	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			
Soil in situ Test				
DIN 18134	Determining the deformation and strength characteristics of soil by the plate loading test			
IS 1888	Method of load test on soils			
IS 2720: Part 28	Methods of test for soils: Part 28 Determination of dry density of soils, in-place, by the sand replacement method			
IS 2720: Part 29	Methods of Test for Soils - Part 29: Determination of Dry Density of Soils In- place by the Core-cutter Method			
IS 2720: Part 31	Methods of test for soils: Part 31 Field determination of California Bearing Ratio			
IS 9214	Method of determination of modulus of subgrade reaction (K-value) of soils in field.			
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IS 15736	Geological exploration by geophysical method (electrical resistivity) - Code of practice		
Stones / Rock			
BS EN 12407	Natural stone test methods - petrographic examination		
IS 8764	Method of determination of point load strength index of rocks		
IS 9143	Method for the determination of unconfined compressive strength of rock materials		
IS 9221	Method for the determination of modulus of elasticity and Poisson's ratio of rock materials in uniaxial compression.		
IS 13030	Method of test for laboratory determination of water content, porosity, density and related properties of rock material		
Tile / Block Adhesive			
IS 15477	Adhesives for Use with Ceramic Tiles and Mosaics		
Water for Construction	Purpose		
IS 3025: Part 11	Methods of sampling and test (physical and chemical) for water and wastewater Part 11 pH value		
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 wastewater: Part 17 Non-filterable residue (total suspended solids		
IS 3025: Part 18	Methods of sampling and test (physical and chemical) for water and wastewater: Part 18 Volatile and fixed residue (total filterable and non-filterable)		
IS 3025: Part 21	Methods of sampling and test (physical and chemical) for water and wastewater: Part 21 Total hardness		
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	Methods of Sampling and Test (Physical and Chemical) for Water and Waste Water - Part 24 Sulphates Section 1 Gravimetric and turbidity methods		
IS 3025: Part 32	Methods of sampling and test (physical and chemical) for water and wastewater: Part 32 Chloride		
WMM	'		
Morth Table 400-13 Grading Requirement of	Specification for Road – Earthwork, Sub-base & Base course as per Morth		



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Aggregates for Wet Mix Macadam			
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