National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)

SCOPE OF ACCREDITATION

Laboratory Name	DUROCRETE ENGINEERING SERVICES PVT LTD, 19/1, HINGANE KHURD, VITTHALWADI, SINHAGAD ROAD, PUNE, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5887	Page No. :	1 / 7
Validity	24/04/2019 to 23/04/2021	Last Amended on	04/05/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
Permanent Facility					
1	CHEMICAL- BUILDING MATERIAL	Glazed Ceramic Tile	Resistance to acids and alkalies.(WIth the exception of hydrofluoric acid.)	IS 13630: 2016	Qualitative(Examine By Visual Observation.)
2	CHEMICAL- BUILDING MATERIAL	Glazed Ceramic Tile	Resistance to household chemicals and swimming pool water.	IS 13630: 2016	Qualitative(Examine By Visual Observation.)
3	CHEMICAL- BUILDING MATERIAL	Concrete Admixture	Ash Content	IS 9103: 2013	1 % to 25 %
4	CHEMICAL- BUILDING MATERIAL	Concrete Admixture	Dry Material Content	IS 9103: 2013	10 % to 60 %
5	CHEMICAL- BUILDING MATERIAL	Concrete Admixture	pH	IS 9103: 2013	4 to 12
6	CHEMICAL- BUILDING MATERIAL	Concrete Admixture	Relative Density	IS 9103: 2013	1 to 2
7	CHEMICAL- BUILDING MATERIAL	Fly ash	Chloride	IS 4032: 2014	0.05 % to 0.5 %
8	CHEMICAL- BUILDING MATERIAL	Fly ash	Loss On Ignition	IS 1727: 2013	0.5 % to 5 %
9	CHEMICAL- BUILDING MATERIAL	Glazed ceramic Tile	Resistance to staining of glazed tile.	IS 13630: 2016	Qualitative(Examine By Visual Observation.)
10	CHEMICAL- BUILDING MATERIAL	Gypsum Plaster	Calcium Oxide	IS 1288: 2016	20 % to 50 %
11	CHEMICAL- BUILDING MATERIAL	Gypsum Plaster	Free Lime	IS 2547: 2017	0.1 % to 0.5 %
12	CHEMICAL- BUILDING MATERIAL	Gypsum Plaster	Loss On Ignition	IS 2547: 2017	1 % to 10 %

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13	CHEMICAL- BUILDING MATERIAL	Gypsum Plaster	Sulphur Trioxide (SO3)	IS 1288: 2016	25 % to 60 %
14	CHEMICAL- WATER	Water	Acidity ((Volume of 0.02 N NaOH required to neutralize 100ml of water using phenolphthalein indicator	IS 3025: 2009	0.1 ml to 25 ml
15	CHEMICAL- WATER	Water	Alkalinity (Volume of 0.02 N H2SO4 Used to neutralize 100 ml water using mixed indicator)	IS 3025: 2009	0.1 ml to 100 ml
16	CHEMICAL- WATER	Water	Chlorides	IS 3025: 2009	50 ppm to 5000 ppm
17	CHEMICAL- WATER	Water	pH	IS 3025: 2012	5 to 12
18	CHEMICAL- WATER	Water	Sulphates	IS 3025: 2009	50 ppm to 4000 ppm
19	CHEMICAL- WATER	Water	Total Hardness	IS 3025: 2014	20 ppm to 2000 ppm
20	CHEMICAL- WATER	Water	Total Suspended Solids	IS 3025: 2012	10 ppm to 3000 ppm
21	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Compressive Strength	IS 6441 Part 5: 2017	1 MPa to 10 MPa
22	MECHANICAL- BUILDINGS MATERIALS	AAC Block	Density	IS 6441 Part 2: 2017	400 Kg/m3 to 1500 Kg/m3
23	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks & Fly ash Bricks	Compressive Strength	IS 3495 Part 1: 1992	1 MPa to 30 MPa
24	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks & Fly Ash Bricks	Dimensions (Length)	IS 1077: 2016	2000 mm to 6000 mm

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25	MECHANICAL-BUILDINGS MATERIALS	Burnt Clay Bricks & Fly Ash Bricks	Efflorescence Test	IS 3495: 1992	Qualitative
26	MECHANICAL-BUILDINGS MATERIALS	Burnt Clay Bricks & Fly Ash Bricks	Water Absorption	IS 3495: 1992	1 % to 30 %
27	MECHANICAL-BUILDINGS MATERIALS	Burnt Clay Bricks & Flyash Bricks	Dimension (Width)	IS 1077: 1992	1000 mm to 4000 mm
28	MECHANICAL-BUILDINGS MATERIALS	Burnt Clay Bricks & Flyash Bricks	Dimensions (Height)	IS 1077: 1992	500 mm to 2000 mm
29	MECHANICAL-BUILDINGS MATERIALS	Cement	168 Hrs Compressive Strength	IS 4031 Part 6: 1988	10 MPa to 50 MPa
30	MECHANICAL-BUILDINGS MATERIALS	Cement	672 Hrs Compressive Strength	IS 4031 Part 6: 1988	30 MPa to 80 MPa
31	MECHANICAL-BUILDINGS MATERIALS	Cement	72 Hrs Compressive Strength	IS 4031 Part 6: 1988	5 MPa to 40 MPa
32	MECHANICAL-BUILDINGS MATERIALS	Cement	Blain's Fineness	IS 4031 Part 2: 1999	150 m2/Kg to 650 m2/Kg
33	MECHANICAL-BUILDINGS MATERIALS	Cement	Density/Sp.Gravity	IS 4031 Part 11: 1988	1.5 to 5
34	MECHANICAL-BUILDINGS MATERIALS	Cement	Final Setting Time	IS 4031 Part 5: 1988	15 Min. to 600 Min.

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35	MECHANICAL-BUILDINGS MATERIALS	Cement	Fineness by dry sieving	IS 4031: 1988	0.5 % to 30 %
36	MECHANICAL-BUILDINGS MATERIALS	Cement	Initial Setting Time	IS 4031 Part 5: 1988	5 Min. to 350 Min.
37	MECHANICAL-BUILDINGS MATERIALS	Cement	Normal Consistency	IS 4031 Part 4: 1988	10 % to 35 %
38	MECHANICAL-BUILDINGS MATERIALS	Cement	Soundness Le-Chatelier expansion	IS 4031 Part 3: 1988	0.1 mm to 10 mm
39	MECHANICAL-BUILDINGS MATERIALS	Concrete Chequred / Flooring Tile	Water Absorption	IS 1237, IS 13801: 2013	0.01 % to 15 %
40	MECHANICAL-BUILDINGS MATERIALS	Concrete Chequred / Flooring Tile	Wet Transverse Strength	IS 1237, IS 13801: 2013	0.2 MPa to 20 MPa
41	MECHANICAL-BUILDINGS MATERIALS	Glazed Ceramic Tiles	Dimension (Width in width)	IS 13630: 2006	0 % to 5 %
42	MECHANICAL-BUILDINGS MATERIALS	Glazed Ceramic Tiles	Dimensions (Thickness deviation)	IS 13630 Part 1: 2006	0 mm to 15 mm
43	MECHANICAL-BUILDINGS MATERIALS	Glazed Ceramic Tiles	Flexural Strength	IS 13630: 2006	0.2 MPa to 80 MPa
44	MECHANICAL-BUILDINGS MATERIALS	Glazed Ceramic tiles	Rectangularity	13630: 2016	0 % to 5 %

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45	MECHANICAL-BUILDINGS MATERIALS	Glazed Ceramic Tiles	Scratch Hardness	IS 13630: 2006	1 Mohs Scale to 9 Mohs Scale
46	MECHANICAL-BUILDINGS MATERIALS	Glazed Ceramic Tiles	Straightness of sides	IS 13630: 2016	0 % to 5 %
47	MECHANICAL-BUILDINGS MATERIALS	Glazed Ceramic Tiles	Surface Flatness(warpage/curvature)	IS 13630: 2016	0 % to 5 %
48	MECHANICAL-BUILDINGS MATERIALS	Glazed Ceramic Tiles	Water Absorption	IS 13630 Part 2: 2006	0.01 % to 25 %
49	MECHANICAL-BUILDINGS MATERIALS	Glazes Ceramic Tiles	Dimension (Length deviation)	IS 13630 Part 1: 2006	0 % to 5 %
50	MECHANICAL-BUILDINGS MATERIALS	Hardened Concrete	Compressive strength of Cube/Cores	IS 516: 1959	10 MPa to 120 MPa
51	MECHANICAL-BUILDINGS MATERIALS	Masonry Block(Hollow/Solid)	Water Absorption	IS 2185 Part1: 2005	1 % to 15 %
52	MECHANICAL-BUILDINGS MATERIALS	Masonry Blocks (Hollow /Solid)	Compressive Strength	IS 2185 Part 1: 2005	1 MPa to 15 MPa
53	MECHANICAL-BUILDINGS MATERIALS	Paving Block	Compressive Strength	IS 15658: 2006	10 MPa to 80 MPa
54	MECHANICAL-BUILDINGS MATERIALS	Paving Block	Water Absorption	IS 15658: 2006	0.5 % to 40 %

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55	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforced Steel	% Elongation	IS 1608 Part 1: 2018	1 % to 40 %
56	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforced Steel	Bend Test	IS 1599: 2012 (RA 2017)	Qualitative((18 to 256 mm Mandrel Dia)except 28 mm)
57	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforced Steel	Rebend Test	IS 1786: 2013	Qualitative((18 to 256 mm Mandrel Dia) except 28 mm)
58	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforced Steel	Tensile Strength	IS 1608 Part 1: 2018	200 MPa to 950 MPa
59	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforced Steel	Weight per Meter	IS 1786: 2013	0.1 Kg/m to 12 Kg/m
60	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforced Steel	Yield Strength	IS 1608 Part 1: 2018	200 MPa to 850 MPa

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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
Site Facility					
1	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete	Carbonation test	BS EN 14630: 2006	Qualitative
2	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete	Cover Depth	BS 1881 : 1988	5 mm to 100 mm
3	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete	Half cell potential difference test	ASTM C 876: 2015	-1 mV to -500 mV
4	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete	Rebound Hammer	IS 13311: 2013	10 MPa to 80 MPa
5	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete	UPV	IS 516 Part 5: 2018	1.5 km/sec to 5.5 km/sec