



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name KDM ENGINEERS (INDIA) PRIVATE LIMITED, D.NO.62/7B, BLOCK NO.9, R.AGRAHARAM, GUNTUR, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5518 Page No. : 1 / 19

Validity 24/04/2019 to 23/04/2021 Last Amended on 23/05/2019

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	Admixtures	Ash Content	IS 9103: 1999	0.03 % to 35 %
2	CHEMICAL- BUILDING MATERIAL	Admixtures	Dry Material Content	IS 9103: 1999	0.1 % to 60 %
3	CHEMICAL- BUILDING MATERIAL	Admixtures	pH	IS 9103: 1999	4 to 12
4	CHEMICAL- BUILDING MATERIAL	Admixtures	Relative Density	IS 9103: 1999	1 to 13
5	CHEMICAL- BUILDING MATERIAL	Aggregate	Chloride as Cl	BS 812 Part 117: 1988	0 % to 0.5 %
6	CHEMICAL- BUILDING MATERIAL	Aggregate	Sulphate Content as SO ₃	BS 812, Part 118: 1988	0.01 % to 1.0 %
7	CHEMICAL- BUILDING MATERIAL	Aggregates	Alkali Aggregate Reactivity, m.moles) Reduction in Alkalinity of 1.0 N NaOH RC ii) Silica Dissolved SC	IS 2386 Part 7: 1963	0.1 m.moles to 200 m.moles
8	CHEMICAL- BUILDING MATERIAL	Fly Ash	Lime as CaO	IS 1727: 1967	0.1 % to 40 %
9	CHEMICAL- BUILDING MATERIAL	Fly Ash	Loss on Ignition	IS 1727: 1967	0.1 % to 30 %
10	CHEMICAL- BUILDING MATERIAL	Fly Ash	Magnesia as MgO	IS 1727: 1967	0.1 % to 10 %
11	CHEMICAL- BUILDING MATERIAL	Fly Ash	Mixed Oxides (Fe ₂ O ₃ +Al ₂ O ₃)	IS 1727: 1967	10 % to 50 %
12	CHEMICAL- BUILDING MATERIAL	Fly Ash	Silica content as SiO ₂	IS 1727: 1967	25 % to 70 %



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name KDM ENGINEERS (INDIA) PRIVATE LIMITED, D.NO.62/7B, BLOCK NO.9, R.AGRAHARAM, GUNTUR, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5518 Page No. : 2 / 19

Validity 24/04/2019 to 23/04/2021 Last Amended on 23/05/2019

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
13	CHEMICAL- BUILDING MATERIAL	Fly Ash	Sulphuric Anhydride as SO ₃	IS 1727: 1967	0.1 % to 5 %
14	CHEMICAL- BUILDING MATERIAL	OPC	Alumina as Al ₂ O ₃	IS 4032: 1985	0.2 % to 15 %
15	CHEMICAL- BUILDING MATERIAL	OPC	Calcium Oxide as CaO	IS 4032: 1985	25 % to 75 %
16	CHEMICAL- BUILDING MATERIAL	OPC	Ferric Oxide as Fe ₂ O ₃	IS 4032: 1985	0.1 % to 6 %
17	CHEMICAL- BUILDING MATERIAL	OPC	Insoluble Residue	IS 4032: 1985	0.1 % to 40 %
18	CHEMICAL- BUILDING MATERIAL	OPC	Loss on Ignition	IS 4032: 1985	0.1 % to 8 %
19	CHEMICAL- BUILDING MATERIAL	OPC	Magnesia as MgO	IS 4032: 1985	0.5 % to 10 %
20	CHEMICAL- BUILDING MATERIAL	OPC	Silica content as SiO ₂	IS 4032: 1985	0.2 % to 40 %
21	CHEMICAL- BUILDING MATERIAL	OPC	Sulfuric Anhydride as SO ₃	IS 4032: 1985	0.1 % to 5 %
22	CHEMICAL- BUILDING MATERIAL	PPC	Alumina as Al ₂ O ₃	IS 4032: 1985	0.2 % to 15 %
23	CHEMICAL- BUILDING MATERIAL	PPC	Calcium Oxide as CaO	IS 4032: 1985	25 % to 75 %
24	CHEMICAL- BUILDING MATERIAL	PPC	Ferric Oxide as Fe ₂ O ₃	IS 4032: 1985	0.1 % to 6 %
25	CHEMICAL- BUILDING MATERIAL	PPC	Insoluble Residue	IS 4032: 1985	0.1 % to 40 %
26	CHEMICAL- BUILDING MATERIAL	PPC	Loss on Ignition	IS 4032: 1985	0.1 % to 8 %



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name KDM ENGINEERS (INDIA) PRIVATE LIMITED, D.NO.62/7B, BLOCK NO.9, R.AGRAHARAM, GUNTUR, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5518 Page No. : 3 / 19

Validity 24/04/2019 to 23/04/2021 Last Amended on 23/05/2019

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
27	CHEMICAL- BUILDING MATERIAL	PPC	Magnesia as MgO	IS 4032: 1985	0.5 % to 10 %
28	CHEMICAL- BUILDING MATERIAL	PPC	Silica Content as SiO ₂	IS 4032: 1985	0.2 % to 40 %
29	CHEMICAL- BUILDING MATERIAL	PPC	Sulfuric Anhydride as SO ₃	IS 4032: 1985	0.1 % to 5 %
30	CHEMICAL- BUILDING MATERIAL	PSC	Alumina as Al ₂ O ₃	IS 4032: 1985	0.2 % to 15 %
31	CHEMICAL- BUILDING MATERIAL	PSC	Calcium Oxide as CaO	IS 4032: 1985	25 % to 75 %
32	CHEMICAL- BUILDING MATERIAL	PSC	Ferric Oxide as Fe ₂ O ₃	IS 4032: 1985	0.1 % to 6 %
33	CHEMICAL- BUILDING MATERIAL	PSC	Insoluble Residue	IS 4032: 1985	0.1 % to 40 %
34	CHEMICAL- BUILDING MATERIAL	PSC	Loss on Ignition	IS 4032: 1985	0.1 % to 8 %
35	CHEMICAL- BUILDING MATERIAL	PSC	Magnesia as MgO	IS 4032: 1985	0.5 % to 10 %
36	CHEMICAL- BUILDING MATERIAL	PSC	Silica Content as SiO ₂	IS 4032: 1985	0.2 % to 40 %
37	CHEMICAL- BUILDING MATERIAL	PSC	Sulfuric anhydride as SO ₃	IS 4032: 1985	0.1 % to 5 %
38	CHEMICAL- BUILDING MATERIAL	Silica Fume	Lime as CaO	IS 1727: 1967	0.1 % to 40 %
39	CHEMICAL- BUILDING MATERIAL	Silica Fume	Loss on ignition	IS 1727: 1967	0.1 % to 30 %
40	CHEMICAL- BUILDING MATERIAL	Silica Fume	Magnesia as MgO	IS 1727: 1967	0.1 % to 10 %



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name KDM ENGINEERS (INDIA) PRIVATE LIMITED, D.NO.62/7B, BLOCK NO.9, R.AGRAHARAM, GUNTUR, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5518 Page No. : 4 / 19

Validity 24/04/2019 to 23/04/2021 Last Amended on 23/05/2019

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
41	CHEMICAL- BUILDING MATERIAL	Silica Fume	Mixed Oxides (Fe ₂ O ₃ + Al ₂ O ₃)	IS 1727: 1967	10 % to 50 %
42	CHEMICAL- BUILDING MATERIAL	Silica Fume	Silica content as SiO ₂	IS 1727: 1967	25 % to 98 %
43	CHEMICAL- BUILDING MATERIAL	Silica Fume	Sulphuric Anhydride as SO ₃	IS 1727: 1967	0.1 % to 5 %
44	CHEMICAL- METALS & ALLOYS	Steel	Carbon	IS 8811: 1998	0.1 % to 0.4 %
45	CHEMICAL- METALS & ALLOYS	Steel	Phosphorous	IS 8811: 1998	0.005 % to 0.060 %
46	CHEMICAL- METALS & ALLOYS	Steel	Sulphur	IS 8811: 1988	0.001 % to 0.060 %
47	CHEMICAL- WATER	Construction water	Acidity(ml of 0.02N NaOH consumed to neutralize 100ml of water using Phenolphthalein as indicator)	IS 3025 Part-22: 1986	0.1 ml to 5 ml
48	CHEMICAL- WATER	Construction water	Alkalinity (ml of 0.02N H ₂ SO ₄ consumed to neutralize 100ml of water using Mixed indicator)	IS 3025 Part-23: 1986	0.1 ml to 50 ml
49	CHEMICAL- WATER	Construction Water	Chloride content	IS 3025 Part-32: 1964	5 mg/L to 5000 mg/L
50	CHEMICAL- WATER	Construction water	Inorganic Solids	IS 3025 Part-18: 1984	10 mg/L to 10000 mg/L
51	CHEMICAL- WATER	Construction water	Organic Solids	IS 3025 Part-18: 1984	1 mg/L to 4000 mg/L
52	CHEMICAL- WATER	Construction water	pH	IS 3025 Part-11: 1964	4 to 12
53	CHEMICAL- WATER	Construction Water	Sulphate content as SO ₃	IS 3025 Part-24: 1986	5 mg/L to 2000 mg/L



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name KDM ENGINEERS (INDIA) PRIVATE LIMITED, D.NO.62/7B, BLOCK NO.9, R.AGRAHARAM, GUNTUR, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5518 Page No. : 5 / 19

Validity 24/04/2019 to 23/04/2021 Last Amended on 23/05/2019

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
54	CHEMICAL- WATER	Construction water	Suspended Matter	IS 3025 Part-17: 1964	1 mg/L to 1000 mg/L
55	MECHANICAL- BUILDINGS MATERIALS	AAC Blocks	Block Density	IS 6441 Part 1: 1972	0.45 g/cc to 1 g/cc
56	MECHANICAL- BUILDINGS MATERIALS	AAC Blocks	Compression Strength	IS 6441 Part 5: 1972	20 kg/cm ² to 102 kg/cm ²
57	MECHANICAL- BUILDINGS MATERIALS	AAC Blocks	Dimensions	IS 2185 Part 3: 1984	100 mm to 600 mm
58	MECHANICAL- BUILDINGS MATERIALS	BC	Binder Content	IRC SP 11;Appendix 5 Clause C: 1984	2 % to 8 %
59	MECHANICAL- BUILDINGS MATERIALS	BC	Density	ASTM D 2726 :2017 / D 2726 M: 2019	1.90 g/cc to 2.75 g/cc
60	MECHANICAL- BUILDINGS MATERIALS	BC	Flow	ASTM D 6927: 2015	2 mm to 8 mm
61	MECHANICAL- BUILDINGS MATERIALS	BC	Marshal Stability	ASTM D 6927: 2015	7.85 kN to 40 kN
62	MECHANICAL- BUILDINGS MATERIALS	BC	Sieve Analysis	IS 2386 Part 1: 1963	0 % to 100 % (0.075 mm to 60 mm)
63	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Absolute Viscosity at 60°C	IS 1206 Part 2: 1978	360 Poises to 4000 Poises



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name KDM ENGINEERS (INDIA) PRIVATE LIMITED, D.NO.62/7B, BLOCK NO.9, R.AGRAHARAM, GUNTUR, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5518 Page No. : 6 / 19

Validity 24/04/2019 to 23/04/2021 Last Amended on 23/05/2019

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
64	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Ductility at 25°C	IS 1208: 1978	5 cm to 100 cm
65	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Flash Point	IS 1206: 1978	200 °C to 350 °C
66	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Kinematic Viscosity at 135°C	IS 1206 Part 3: 1978	60 cSt to 650 cSt
67	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Penetration at 25°C (1/10th mm)	IS 1203: 1978	10 division to 350 division
68	MECHANICAL-BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205: 1978	35 °C to 100 °C
69	MECHANICAL-BUILDINGS MATERIALS	Bituminous Emulsion	Residue on 600 microns	IS 8887 ;Annex B: 2017	0.01 % to 2 %
70	MECHANICAL-BUILDINGS MATERIALS	Bituminous Emulsion	Viscosity by Saybolt Furol Viscometer	IS 3117: 2004	5 Sec to 150 Sec
71	MECHANICAL-BUILDINGS MATERIALS	BM	Binder Content	IRC SP 11;Appendix 5 Clause C: 1984	2 % to 8 %
72	MECHANICAL-BUILDINGS MATERIALS	BM	Density	ASTM D 2726 :2017 / D 2726 M: 2019	1.9 g/cc to 2.75 g/cc
73	MECHANICAL-BUILDINGS MATERIALS	BM	Flow	ASTM D 6927: 2015	2 mm to 8 mm



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name KDM ENGINEERS (INDIA) PRIVATE LIMITED, D.NO.62/7B, BLOCK NO.9, R.AGRAHARAM, GUNTUR, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5518 Page No. : 7 / 19

Validity 24/04/2019 to 23/04/2021 Last Amended on 23/05/2019

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
74	MECHANICAL-BUILDINGS MATERIALS	BM	Marshall Stability	ASTM D 1559 Part 7: 1989	800 kg to 4000 kg
75	MECHANICAL-BUILDINGS MATERIALS	BM	Sieve Analysis	IS 2386 Part 1: 1963	0.075 mm to 60 mm
76	MECHANICAL-BUILDINGS MATERIALS	Burnt Clay Bricks	Compression Strength	IS 3495 Part 1: 1992	3.5 N/mm ² to 30 N/mm ²
77	MECHANICAL-BUILDINGS MATERIALS	Burnt Clay bricks	Dimensions	IS 1077: 1992	1200 mm to 5000 mm
78	MECHANICAL-BUILDINGS MATERIALS	Burnt Clay Bricks	Efflorescence	IS 3495 Part 3: 1992	Qualitative
79	MECHANICAL-BUILDINGS MATERIALS	Burnt Clay Bricks	Water Absorption	IS 3495 Part 2: 1992	1 % to 35 %
80	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	10% fines value	IS 2386 Part 4: 1963	50 T to 200 T (50 KN to 200 KN)
81	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	Clause 3.0 of IS 2386 Part 3: 1963	1.2 kg/L to 2.5 kg/L
82	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Crushing value	Clause 2.0 of IS 2386 Part 4: 1963	1 % to 50 %
83	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	Clause 5.0 of IS 2386 Part 1: 1963	1 % to 50 %



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name KDM ENGINEERS (INDIA) PRIVATE LIMITED, D.NO.62/7B, BLOCK NO.9, R.AGRAHARAM, GUNTUR, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5518 Page No. : 8 / 19

Validity 24/04/2019 to 23/04/2021 Last Amended on 23/05/2019

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
84	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	Clause 5.0 of IS 2386 Part 1: 1963	1 % to 50 %
85	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	Clause 4.0 of IS 2386 Part 4: 1963	1 % to 50 %
86	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Los Angels Abrasion Value	Clause 5.3 of IS 2386 Part 4: 1963	10 % to 60 %
87	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Polished Stone Value	Clause 6.0 of IS 2386 Part 4: 1963	40 % to 90 %
88	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis	Clause 2.0 of IS 2386 Part 1: 1963	0 % to 100 % (4.75 mm to 80 mm)
89	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Soundness (Na ₂ So ₄ & MgSo ₄)	IS 2386 Part 5: 1963	0.1 % to 25 %
90	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	Clause 2.0 of IS 2386 Part 3: 1963	2 to 4
91	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Stripping Value	IS 6241: 1971	20 % to 100 %
92	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 Part 3: 1963	0.01 % to 10 %
93	MECHANICAL-BUILDINGS MATERIALS	Concrete Paving Blocks	Compression Strength	Annex D of IS 15658: 2006	10 N/mm ² to 75 N/mm ²



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name KDM ENGINEERS (INDIA) PRIVATE LIMITED, D.NO.62/7B, BLOCK NO.9, R.AGRAHARAM, GUNTUR, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5518 Page No. : 9 / 19

Validity 24/04/2019 to 23/04/2021 Last Amended on 23/05/2019

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
94	MECHANICAL-BUILDINGS MATERIALS	Concrete Paving Blocks	Water Absorption	Annex C of IS 15658: 2006	0.1 % to 25 %
95	MECHANICAL-BUILDINGS MATERIALS	DBM	Binder content	ASTM D 2172: 2011	2 % to 8 %
96	MECHANICAL-BUILDINGS MATERIALS	DBM	Density	ASTM D 1559 Part 7: 1989	1.9 g/cc to 2.75 g/cc
97	MECHANICAL-BUILDINGS MATERIALS	DBM	Flow	ASTM D 1559 Part 7: 1989	2 mm to 8 mm
98	MECHANICAL-BUILDINGS MATERIALS	DBM	Marshall Stability	ASTM D 1559 Part 7: 1989	800 kg to 4000 kg
99	MECHANICAL-BUILDINGS MATERIALS	DBM	Sieve Analysis	IS 2386 Part 1: 1963	0 % to 100 % (0.075 mm to 60 mm)
100	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Sand Equivalent Value	IS 2720 Part-37: 1976	20 % to 90 %
101	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	Clause 2.0 of IS 2386 Part 3: 1963	2 to 4
102	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	Clause 2.0 of IS 2386 Part 3: 1963	0.01 % to 10 %
103	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregates	Bulk density	Clause 3.0 of IS 2386 Part 3: 1963	1.2 kg/L to 3.0 kg/L



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name KDM ENGINEERS (INDIA) PRIVATE LIMITED, D.NO.62/7B, BLOCK NO.9, R.AGRAHARAM, GUNTUR, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5518 Page No. : 10 / 19

Validity 24/04/2019 to 23/04/2021 Last Amended on 23/05/2019

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
104	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregates	Finer Than 75 Microns	Clause 3.0 of IS 2386 Part 1: 1963	0.1 % to 25 %
105	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregates	Sieve Analysis	Clause 2.0 of IS 2386 Part 1: 1963	0 % to 100 % (0.075 mm to 4.75 mm)
106	MECHANICAL-BUILDINGS MATERIALS	Fine aggregates	Soundness (Na ₂ So ₄ & MgSo ₄)	IS 2386 Part 5: 1963	0.1 % to 25 %
107	MECHANICAL-BUILDINGS MATERIALS	Fly Ash	Comparative compression strength	IS 1727: 1967	5 N/mm ² to 80 N/mm ²
108	MECHANICAL-BUILDINGS MATERIALS	Fly Ash	Fineness by Blaine's air permeability	IS 1727: 1967	100 m ² /kg to 700 m ² /kg
109	MECHANICAL-BUILDINGS MATERIALS	Fly Ash	Lime Reactivity	IS 1727: 1967	0.5 N/mm ² to 15 N/mm ²
110	MECHANICAL-BUILDINGS MATERIALS	Fly Ash	Retained on 45 Microns sieve	IS 1727: 1967	1 % to 60 %
111	MECHANICAL-BUILDINGS MATERIALS	Fly Ash	Soundness by autoclave	IS 1727: 1967	0.01 % to 2.0 %
112	MECHANICAL-BUILDINGS MATERIALS	Fly Ash	Specific gravity	IS 1727: 1967	1 to 3
113	MECHANICAL-BUILDINGS MATERIALS	Fly Ash Bricks	Compression strength	IS 3495 Part 1: 1992	3.5 N/mm ² to 30 N/mm ²



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name KDM ENGINEERS (INDIA) PRIVATE LIMITED, D.NO.62/7B, BLOCK NO.9, R.AGRAHARAM, GUNTUR, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5518 Page No. : 11 / 19

Validity 24/04/2019 to 23/04/2021 Last Amended on 23/05/2019

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
114	MECHANICAL-BUILDINGS MATERIALS	Fly Ash Bricks	Dimensions	IS 1077: 1992	1200 mm to 5000 mm
115	MECHANICAL-BUILDINGS MATERIALS	Fly Ash Bricks	Efflorescence	IS 3495 Part 3: 1992	Qualitative
116	MECHANICAL-BUILDINGS MATERIALS	Fly Ash Bricks	Water Absorption	IS 3495 Part 2: 1992	1 % to 35 %
117	MECHANICAL-BUILDINGS MATERIALS	Fly Ash Lime Bricks	Compression strength	IS 3495 Part 1: 1992	3.5 N/mm ² to 30 N/mm ²
118	MECHANICAL-BUILDINGS MATERIALS	Fly Ash Lime Bricks	Dimensions	IS 1077: 1992	1200 mm to 5000 mm
119	MECHANICAL-BUILDINGS MATERIALS	Fly Ash Lime Bricks	Efflorescence	IS 3495 Part 3: 1992	Qualitative
120	MECHANICAL-BUILDINGS MATERIALS	Fly Ash Lime Bricks	Water Absorption	IS 3495 Part 2: 1992	1 % to 35 %
121	MECHANICAL-BUILDINGS MATERIALS	Hardened Concrete	Accelerated Cured Compressive Strength by Boiling water Method	Clause 5.0 of IS 9013: 1978	5 N/mm ² to 85 N/mm ²
122	MECHANICAL-BUILDINGS MATERIALS	Hardened Concrete	Compressive Strength	IS 516: 1959	5 N/mm ² to 88 N/mm ²



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name KDM ENGINEERS (INDIA) PRIVATE LIMITED, D.NO.62/7B, BLOCK NO.9, R.AGRAHARAM, GUNTUR, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5518 Page No. : 12 / 19

Validity 24/04/2019 to 23/04/2021 Last Amended on 23/05/2019

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
123	MECHANICAL-BUILDINGS MATERIALS	Hardened Concrete	Flexural Strength	IS 516: 1959	1 N/mm ² to 10 N/mm ²
124	MECHANICAL-BUILDINGS MATERIALS	Hardened Concrete	Permeability	BS EN 12390 Part 8: 2009	0.1 mm to 150 mm
125	MECHANICAL-BUILDINGS MATERIALS	Hollow & Solid Concrete Block	Block Density	Annex C of IS 2185 Part 1: 2005	1000 kg/m ³ to 2300 kg/m ³
126	MECHANICAL-BUILDINGS MATERIALS	Hollow & Solid Concrete Block	Compression Strength	Annex D of IS 2185 Part 1: 2005	1 N/mm ² to 35 N/mm ²
127	MECHANICAL-BUILDINGS MATERIALS	Hollow & Solid Concrete Block	Dimensions	Annex B of IS 2185 Part 1: 2005	100 mm to 600 mm
128	MECHANICAL-BUILDINGS MATERIALS	Hollow & Solid Concrete Block	Water Absorption	Annex E of IS 2185 Part 1: 2005	1 % to 50 %
129	MECHANICAL-BUILDINGS MATERIALS	Hollow & Solid Light weight Blocks	Block Density	IS 2185 Part 1: 2005	1000 kg/Cu.m to 2300 kg/Cu.m
130	MECHANICAL-BUILDINGS MATERIALS	Hollow & Solid Light weight Blocks	Compression Strength	IS 2185 Part 1 & 2: 1983	1 N/mm ² to 35 N/mm ²
131	MECHANICAL-BUILDINGS MATERIALS	Hollow & Solid Light weight Blocks	Dimensions	IS 2185 : 1983	100 mm to 600 mm
132	MECHANICAL-BUILDINGS MATERIALS	Hollow & Solid Light weight Blocks	Water Absorption	IS 2185 Part 1 & 2: 1983	1 % to 50 %



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name KDM ENGINEERS (INDIA) PRIVATE LIMITED, D.NO.62/7B, BLOCK NO.9, R.AGRAHARAM, GUNTUR, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5518 Page No. : 13 / 19

Validity 24/04/2019 to 23/04/2021 Last Amended on 23/05/2019

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
133	MECHANICAL-BUILDINGS MATERIALS	Micro silica	Comparative compression strength	IS 1727: 1967	5 N/mm ² to 80 N/mm ²
134	MECHANICAL-BUILDINGS MATERIALS	Micro Silica	Fineness by Blaine's air permeability	IS 1727 : 1967	100 m ² /kg to 700 m ² /kg
135	MECHANICAL-BUILDINGS MATERIALS	Micro silica	Lime Reactivity	IS 1727: 1967	0.5 N/mm ² to 15 N/mm ²
136	MECHANICAL-BUILDINGS MATERIALS	Micro silica	Retained on 45 Microns sieve	IS 1727: 1967	1 % to 60 %
137	MECHANICAL-BUILDINGS MATERIALS	Micro silica	Soundness by autoclave	IS 1727: 1967	0.01 % to 2 %
138	MECHANICAL-BUILDINGS MATERIALS	Micro Silica	Specific gravity	IS 1727: 1967	1 to 3
139	MECHANICAL-BUILDINGS MATERIALS	OPC	Compressive Strength	IS 4031 Part- 6: 1988	10 N/mm ² to 80 N/mm ²
140	MECHANICAL-BUILDINGS MATERIALS	OPC	Density	IS 4031 Part-11: 1988	2.8 g/cc to 3.3 g/cc
141	MECHANICAL-BUILDINGS MATERIALS	OPC	Fineness by Blain's air permeability	IS 4031 Part 2: 1999	150 m ² /kg to 700 m ² /kg
142	MECHANICAL-BUILDINGS MATERIALS	OPC	Normal Consistency	IS 4031 Part 4: 1988	20 % to 40 %



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name KDM ENGINEERS (INDIA) PRIVATE LIMITED, D.NO.62/7B, BLOCK NO.9, R.AGRAHARAM, GUNTUR, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5518 Page No. : 14 / 19

Validity 24/04/2019 to 23/04/2021 Last Amended on 23/05/2019

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
143	MECHANICAL-BUILDINGS MATERIALS	OPC	Setting Time Final	IS 4031 Part 5: 1988	100 minutes to 600 minutes
144	MECHANICAL-BUILDINGS MATERIALS	OPC	Setting Time Initial	IS 4031 Part 5: 1988	30 minutes to 300 minutes
145	MECHANICAL-BUILDINGS MATERIALS	OPC	Soundness by Lechatlier Method	IS 4031 Part 3: 1988	0.1 mm to 10 mm
146	MECHANICAL-BUILDINGS MATERIALS	PPC	Compressive Strength	IS 4031 Part 6: 1988	10 N/mm ² to 80 N/mm ²
147	MECHANICAL-BUILDINGS MATERIALS	PPC	Density	IS 4031 Part 11: 1988	2.8 g/cc to 3.3 g/cc
148	MECHANICAL-BUILDINGS MATERIALS	PPC	Fineness by Blain's air permeability	IS 4031 Part 2: 1999	150 m ² /kg to 700 m ² /kg
149	MECHANICAL-BUILDINGS MATERIALS	PPC	Normal Consistency	IS 4031 Part 4: 1988	20 % to 40 %
150	MECHANICAL-BUILDINGS MATERIALS	PPC	Setting Time Final	IS 4031 Part-5: 1988	100 minutes to 600 minutes
151	MECHANICAL-BUILDINGS MATERIALS	PPC	Setting Time initial	IS 4031 Part 5: 1988	30 minutes to 300 minutes
152	MECHANICAL-BUILDINGS MATERIALS	PPC	Soundness by LeChattelier	IS 4031 Part 3: 1988	0.1 mm to 10 mm



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name KDM ENGINEERS (INDIA) PRIVATE LIMITED, D.NO.62/7B, BLOCK NO.9, R.AGRAHARAM, GUNTUR, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5518 Page No. : 15 / 19

Validity 24/04/2019 to 23/04/2021 Last Amended on 23/05/2019

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
153	MECHANICAL-BUILDINGS MATERIALS	PSC	Compressive Strength	IS 4031 Part 6: 1988	10 N/mm ² to 80 N/mm ²
154	MECHANICAL-BUILDINGS MATERIALS	PSC	Density	IS 4031 Part 11: 1988	2.8 g/cc to 3.3 g/cc
155	MECHANICAL-BUILDINGS MATERIALS	PSC	Fineness by Blaine's air permeability	IS 4031 Part 2: 1999	150 m ² /kg to 700 m ² /kg
156	MECHANICAL-BUILDINGS MATERIALS	PSC	Normal Consistency	IS 4031 Part 4: 1988	20 % to 40 %
157	MECHANICAL-BUILDINGS MATERIALS	PSC	Setting Time Final	IS 4031 Part 5: 1988	100 minutes to 600 minutes
158	MECHANICAL-BUILDINGS MATERIALS	PSC	Setting Time Initial	IS 4031 Part 5: 1988	30 minutes to 300 minutes
159	MECHANICAL-BUILDINGS MATERIALS	PSC	Soundness by Le Chatelier	IS 4031 Part 3: 1988	0.1 to 10
160	MECHANICAL-BUILDINGS MATERIALS	SDBC	Binder Content	ASTM D 2172: 2011	2 % to 8 %
161	MECHANICAL-BUILDINGS MATERIALS	SDBC	Density	ASTM D 1559 Part 7: 1989	1.9 g/cc to 2.75 g/cc
162	MECHANICAL-BUILDINGS MATERIALS	SDBC	Flow	ASTM D 1559 Part 7: 1989	2 mm to 8 mm



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name KDM ENGINEERS (INDIA) PRIVATE LIMITED, D.NO.62/7B, BLOCK NO.9, R.AGRAHARAM, GUNTUR, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5518 Page No. : 16 / 19

Validity 24/04/2019 to 23/04/2021 Last Amended on 23/05/2019

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
163	MECHANICAL-BUILDINGS MATERIALS	SDBC	Marshal Stability	ASTM D 1559 Part 7: 1989	800 kg to 4000 kg
164	MECHANICAL-BUILDINGS MATERIALS	SDBC	Sieve Analysis	IS 2386 Part 1: 1963	0 % to 100 % (0.075 mm to 60 mm)
165	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Ultimate Tensile Strength	IS1608: 2005	100 N/mm ² to 900 N/mm ²
166	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Bend Test	IS 1599: 2017	Qualitative(Mandrel Size(mm)8,10,12,16,18,22,24,28,32,40,48,56,60,64,80,84,100,112,125,140,160,175,195,225)
167	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Elongation	IS 1608: 2005	5 % to 50 %
168	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Mass per Meter	IS 1786: 2008	0.01 kg/m to 20 kg/m
169	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Re bend Test	IS 1786: 2008	Qualitative(Mandrel Size(mm)16,18,22,24,28,32,40,48,56,60,64,80,84,100,112,125,140,160,175,195,225)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name KDM ENGINEERS (INDIA) PRIVATE LIMITED, D.NO.62/7B, BLOCK NO.9, R.AGRAHARAM, GUNTUR, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5518 Page No. : 17 / 19

Validity 24/04/2019 to 23/04/2021 Last Amended on 23/05/2019

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
170	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Reinforcement Steel	Yield Stress	IS 1608: 2005	100 N/mm ² to 700 N/mm ²
171	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel	Bend Test	IS 1599: 2017	Qualitative(Mandrel Size(mm)8,10,12,16,18,22,24,28,32,40,48,56,60,64,80,84,100,112,125,140,160)
172	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel	Elongation	IS 1608 : 2005	5 % to 50 %
173	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel	Mass per Meter	IS 1786: 2008	0.01 kg/m to 20 kg/m
174	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel	Re Bend Test	IS 1786: 2008	Qualitative(Mandrel Size (mm)16,18,22,24,28,32,40,48,56,60,64,80,84,100,112,125,140,160,175,195,225)
175	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel	Ultimate Tensile Strength	IS 1608: 2005	100 N/mm ² to 900 N/mm ²
176	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel	Yield Stress	IS 1608: 2005	100 N/mm ² to 700 N/mm ²



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name KDM ENGINEERS (INDIA) PRIVATE LIMITED, D.NO.62/7B, BLOCK NO.9, R.AGRAHARAM, GUNTUR, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5518 Page No. : 18 / 19

Validity 24/04/2019 to 23/04/2021 Last Amended on 23/05/2019

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
177	MECHANICAL- SOIL AND ROCK	Rock	Density	IS 13030: 1991	1 g/cc to 4 g/cc
178	MECHANICAL- SOIL AND ROCK	Rock	Point Load Index	IS 8764: 1998	1 Mpa to 34 MPa
179	MECHANICAL- SOIL AND ROCK	Rock	Unconfined Compression Strength	IS 9143: 1979	5 MPa to 200 MPa
180	MECHANICAL- SOIL AND ROCK	Rock	Water Content	IS 13030: 1991	0.01 % to 50 %
181	MECHANICAL- SOIL AND ROCK	Soil	CBR	IS 2720 Part 16: 1987	4 % to 100 %
182	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 Part 40: 1987	1 % to 90 %
183	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis	IS 2720 Part 4: 1985	0 % to 100 % (0.075mm to 80 mm)
184	MECHANICAL- SOIL AND ROCK	Soil	Heavy CompactionMDD	IS 2720 Part 8: 1983	1.0 g/cc to 3.0 g/cc
185	MECHANICAL- SOIL AND ROCK	Soil	Heavy CompactionOMC	IS 2720 Part 8: 1983	1 % to 20 %
186	MECHANICAL- SOIL AND ROCK	Soil	Light CompactionMDD	IS 2720 Part 7: 1980	1.0 g/cc to 3.00 g/cc
187	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	Clause 3.0 of IS 2720 Part 5: 1985	15 % to 80 %
188	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 Part 5: 1985	10 % to 40 %
189	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 Part 3/Sec1: 1980	1.0 to 3.0
190	MECHANICAL- SOIL AND ROCK	Soil	Triaxial CompressionAngle of Internal friction	IS 2720 Part 11: 1993	5 ° to 40 °



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name KDM ENGINEERS (INDIA) PRIVATE LIMITED, D.NO.62/7B, BLOCK NO.9, R.AGRAHARAM, GUNTUR, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5518 Page No. : 19 / 19

Validity 24/04/2019 to 23/04/2021 Last Amended on 23/05/2019

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
191	MECHANICAL- SOIL AND ROCK	Soil	Triaxial Compression Cohesion	IS 2720 Part 11: 1993	0 kg/cm ² to 1 kg/cm ²
192	MECHANICAL- SOIL AND ROCK	Soil	Water Content by Oven Drying Method	IS 2720 Part 2: 1973	0.1 % to 35 %