



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

Laboratory Name STONE TESTING LABORATORY-CENTRE FOR DEVELOPMENT OF STONES, SP-8, SITAPURA INDUSTRIAL AREA, PHASE-IV, JAIPUR, RAJASTHAN , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5794 Page No. : 1 / 17

Validity 08/06/2019 to 07/06/2021 Last Amended on -

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
<b>Permanent Facility</b>					
1	MECHANICAL- SOIL AND ROCK	Granite	Abrasive Resistance (Wide Wheel Abrasion)	EN-14157: 2017	10 mm to 30 mm
2	MECHANICAL- SOIL AND ROCK	Granite	Abrasive Resistance of Stone Subjected to Foot Traffic	ASTM C241/C241 M: 2015	3 Ha to 180 Ha
3	MECHANICAL- SOIL AND ROCK	Granite	Apparent Sp. Gravity	IS:1124: 2003	1.90 to 4.00
4	MECHANICAL- SOIL AND ROCK	Granite	Bulk Density	ASTM C-97/C-97 M: 2018	1800 Kg/m <sup>3</sup> to 3300 Kg/m <sup>3</sup>
5	MECHANICAL- SOIL AND ROCK	Granite	Bulk Specific Gravity	ASTM C-97/C-97 M: 2018	1.90 to 4.00
6	MECHANICAL- SOIL AND ROCK	Granite	Compressive Strength	EN- 1926: 2006	20 MPa to 350 MPa
7	MECHANICAL- SOIL AND ROCK	Granite	Compressive Strength	ASTM C170/C170 M: 2017	20 MPa to 350 MPa
8	MECHANICAL- SOIL AND ROCK	Granite	Durability of Natural Building Stones (Gain / loss in mass)	IS:1126: 2013	0.001 % to 5.00 %
9	MECHANICAL- SOIL AND ROCK	Granite	Flexural strength under concentrated load (Single point)	EN 12372: 2006	2 MPa to 60 MPa
10	MECHANICAL- SOIL AND ROCK	Granite	Flexural strength under constant moment (Double point)	EN 13161: 2008	2 MPa to 60 MPa
11	MECHANICAL- SOIL AND ROCK	Granite	Frost Resistance (Technological Test) (Pre & Post Compressive Strength)	EN- 12371, EN 1926: 2010	20 MPa to 350 MPa



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12	MECHANICAL- SOIL AND ROCK	Granite	Frost Resistance (Technological Test) Pre & Post Flexural Strength	EN- 12371, EN 12372: 2010	2 MPa to 60 MPa
13	MECHANICAL- SOIL AND ROCK	Granite	Hardness of Stones	CDOS/TP/23: 2013	Qualitative(2 to 9)
14	MECHANICAL- SOIL AND ROCK	Granite	Measuring Surface Frictional Properties Using the British Pendulum Tester	ASTM E 303: 2003	5 BPN to 100 BPN
15	MECHANICAL- SOIL AND ROCK	Granite	Modulus of Rupture	ASTM C 99/C-99 M: 2018	2 MPa to 60 MPa
16	MECHANICAL- SOIL AND ROCK	Granite	Porosity	IS:1124: 2003	0.01 % to 35 %
17	MECHANICAL- SOIL AND ROCK	Granite	Resistance to Salt Crystallization (Gain / lose in mass )	EN 12370: 1999	0.001 % to 5.00 %
18	MECHANICAL- SOIL AND ROCK	Granite	Rupture energy or Impact resistance	EN 14158: 2004	1 Joules to 15 Joules
19	MECHANICAL- SOIL AND ROCK	Granite	Slip Resistance By Means of Pendulum Tester	EN 14231: 2003	5 SRV to 100 SRV
20	MECHANICAL- SOIL AND ROCK	Granite	Strength Properties of Natural Building Stones (Compressive strength)	IS:1121 (Part-1): 2013	20 MPa to 350 MPa
21	MECHANICAL- SOIL AND ROCK	Granite	Tactility	EN 12057, EN12058: 2015	Qualitative
22	MECHANICAL- SOIL AND ROCK	Granite	True Specific Gravity of Natural Building Stones	IS:1122: 2003	1.90 to 4.00



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23	MECHANICAL- SOIL AND ROCK	Granite	Visual Appearance	EN 12057, EN12058, EN 1469: 2015	Qualitative
24	MECHANICAL- SOIL AND ROCK	Granite	Water Absorption	IS:1124: 2003	0.01 % to 12.00 %
25	MECHANICAL- SOIL AND ROCK	Granite	Water Absorption	ASTM C-97/C-97 M: 2018	0.01 % to 12.00 %
26	MECHANICAL- SOIL AND ROCK	Granite	Water absorption at atmospheric pressure	EN-13755: 2008	0.01 % to 12.00 %
27	MECHANICAL- SOIL AND ROCK	Granite	Water Absorption by Capillary	EN1925: 1999	0.10 g/m <sup>2</sup> s <sup>0.5</sup> to 10.00 g/m <sup>2</sup> s <sup>0.5</sup>
28	MECHANICAL- SOIL AND ROCK	Limestone	Abrasive Resistance (Wide Wheel Abrasion)	EN-14157: 2017	10 mm to 30 mm
29	MECHANICAL- SOIL AND ROCK	Limestone	Abrasive Resistance of Stone Subjected to Foot Traffic	ASTM C241/C241 M: 2015	3 Ha to 180 Ha
30	MECHANICAL- SOIL AND ROCK	Limestone	Apparent Sp. Gravity	IS 1124: 2003	1.90 to 4.00
31	MECHANICAL- SOIL AND ROCK	Limestone	Bulk Density	ASTM C-97/C-97 M: 2018	1800 to 3300
32	MECHANICAL- SOIL AND ROCK	Limestone	Bulk Specific Gravity	ASTM C-97/C-97 M: 2018	1.90 to 4.00
33	MECHANICAL- SOIL AND ROCK	Limestone	Compressive Strength	ASTM C170/C170 M: 2017	20 MPa to 350 MPa
34	MECHANICAL- SOIL AND ROCK	Limestone	Compressive Strength	EN 1926: 2006	20 MPa to 350 MPa
35	MECHANICAL- SOIL AND ROCK	Limestone	Durability of Natural Building Stones (Gain / loss in mass)	IS:1126: 2013	0.001 % to 5.00 %



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36	MECHANICAL- SOIL AND ROCK	Limestone	Flexural strength under concentrated load (Single point)	EN 12372: 2006	2 MPa to 60 MPa
37	MECHANICAL- SOIL AND ROCK	Limestone	Flexural strength under constant moment (Double point)	EN 13161: 2008	2 MPa to 60 MPa
38	MECHANICAL- SOIL AND ROCK	Limestone	Frost Resistance (Technological Test) (Pre & Post Compressive Strength)	EN- 12371, EN 1926: 2010	20 MPa to 350 MPa
39	MECHANICAL- SOIL AND ROCK	Limestone	Frost Resistance (Technological Test) Pre & Post Flexural Strength	EN- 12371, EN 12372: 2010	2 MPa to 60 MPa
40	MECHANICAL- SOIL AND ROCK	Limestone	Hardness of Stones	CDOS/TP/23: 2013	Qualitative(2 to 9)
41	MECHANICAL- SOIL AND ROCK	Limestone	Measuring Surface Frictional Properties Using the British Pendulum Tester	ASTM E 303: 2003	5 BPN to 100 BPN
42	MECHANICAL- SOIL AND ROCK	Limestone	Modulus of Rupture	ASTM C 99/C-99 M: 2018	2 MPa to 60 MPa
43	MECHANICAL- SOIL AND ROCK	Limestone	Porosity	IS 1124: 2003	0.01 % to 35 %
44	MECHANICAL- SOIL AND ROCK	Limestone	Resistance to Salt Crystallization (Gain / lose in mass )	EN 12370: 1999	0.001 % to 5.00 %
45	MECHANICAL- SOIL AND ROCK	Limestone	Rupture energy or Impact resistance	EN 14158: 2004	1 Joules to 15 Joules



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46	MECHANICAL- SOIL AND ROCK	Limestone	Slip Resistance By Means of Pendulum Tester	EN 14231: 2003	5 SRV to 100 SRV
47	MECHANICAL- SOIL AND ROCK	Limestone	Strength Properties of Natural Building Stones (Compressive strength)	IS:1121 (Part-1): 2013	20 MPa to 350 MPa
48	MECHANICAL- SOIL AND ROCK	Limestone	Tactility	EN 12057, EN12058: 2015: 2015	Qualitative
49	MECHANICAL- SOIL AND ROCK	Limestone	True Specific Gravity of Natural Building Stones	IS 1122: 2003	1.90 to 4.00
50	MECHANICAL- SOIL AND ROCK	Limestone	Visual Appearance	EN 12057, EN12058, EN 1469: 2015	Qualitative
51	MECHANICAL- SOIL AND ROCK	Limestone	Water Absorption	ASTM C-97/C-97 M: 2018	0.01 % to 12.00 %
52	MECHANICAL- SOIL AND ROCK	Limestone	Water Absorption	IS:1124: 2003	0.01 % to 12.00 %
53	MECHANICAL- SOIL AND ROCK	Limestone	Water absorption at atmospheric pressure	EN 13755: 2008	0.01 % to 12.00 %
54	MECHANICAL- SOIL AND ROCK	Limestone	Water Absorption by Capillary	EN 1925: 1999	0.10 to 10.00
55	MECHANICAL- SOIL AND ROCK	Marble	Abrasive Resistance (Wide Wheel Abrasion)	EN-14157: 2017	10 mm to 30 mm
56	MECHANICAL- SOIL AND ROCK	Marble	Abrasive Resistance of Stone Subjected to Foot Traffic	ASTM C241/C241 M: 2015	3 Ha to 180 Ha
57	MECHANICAL- SOIL AND ROCK	Marble	Apparent Sp. Gravity	IS:1124: 2003	1.90 to 4.00
58	MECHANICAL- SOIL AND ROCK	Marble	Bulk Density	ASTM C-97/C-97 M: 2018	1800 to 3300



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59	MECHANICAL- SOIL AND ROCK	Marble	Bulk Specific Gravity	ASTM C-97/C-97 M: 2018	1.90 to 4.00
60	MECHANICAL- SOIL AND ROCK	Marble	Compressive Strength	ASTM C170/C170 M: 2017	20 MPa to 350 MPa
61	MECHANICAL- SOIL AND ROCK	Marble	Compressive Strength	EN 1926: 2006	20 MPa to 350 MPa
62	MECHANICAL- SOIL AND ROCK	Marble	Durability of Natural Building Stones (Gain / loss in mass)	IS:1126: 2013	0.001 % to 5.00 %
63	MECHANICAL- SOIL AND ROCK	Marble	Flexural strength under concentrated load (Single point)	EN 12372: 2006	2 MPa to 60 MPa
64	MECHANICAL- SOIL AND ROCK	Marble	Flexural strength under constant moment (Double point)	EN 13161: 2008	2 to 60
65	MECHANICAL- SOIL AND ROCK	Marble	Frost Resistance (Technological Test) (Pre & Post Compressive Strength)	EN- 12371, EN 1926: 2010	20 MPa to 350 MPa
66	MECHANICAL- SOIL AND ROCK	Marble	Frost Resistance (Technological Test) Pre & Post Flexural Strength	EN- 12371, EN 12372: 2010	2 MPa to 60 MPa
67	MECHANICAL- SOIL AND ROCK	Marble	Hardness of Stones	CDOS/TP/23: 2013	Qualitative(2 to 9)
68	MECHANICAL- SOIL AND ROCK	Marble	Measuring Surface Frictional Properties Using the British Pendulum Tester	ASTM E 303: 2003	5 BPN to 100 BPN



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69	MECHANICAL- SOIL AND ROCK	Marble	Modulus of Rupture	ASTM C 99/C-99 M: 2018	2 MPa to 60 MPa
70	MECHANICAL- SOIL AND ROCK	Marble	Porosity	IS:1124: 2003	0.01 % to 35 %
71	MECHANICAL- SOIL AND ROCK	Marble	Resistance to Salt Crystallization (Gain / lose in mass )	EN 12370: 1999	0.001 % to 5.00 %
72	MECHANICAL- SOIL AND ROCK	Marble	Rupture energy or Impact resistance	EN 14158: 2004	1 Joule to 15 Joule
73	MECHANICAL- SOIL AND ROCK	Marble	Slip Resistance By Means of Pendulum Tester	EN 14231: 2003	5 SRV to 100 SRV
74	MECHANICAL- SOIL AND ROCK	Marble	Strength Properties of Natural Building Stones (Compressive strength)	IS:1121 (Part-1): 2013	20 MPa to 350 MPa
75	MECHANICAL- SOIL AND ROCK	Marble	Tactility	EN 12057, EN12058: 2015	Qualitative
76	MECHANICAL- SOIL AND ROCK	Marble	True Specific Gravity of Natural Building Stones	IS:1122: 2003	1.90 to 4.00
77	MECHANICAL- SOIL AND ROCK	Marble	Visual Appearance	EN 12057, EN12058, EN 1469: 2015	Qualitative
78	MECHANICAL- SOIL AND ROCK	Marble	Water Absorption	IS:1124: 2003	0.01 % to 12.00 %
79	MECHANICAL- SOIL AND ROCK	Marble	Water Absorption	ASTM C-97/C-97 M: 2018	0.01 % to 12.00 %
80	MECHANICAL- SOIL AND ROCK	Marble	Water absorption at atmospheric pressure	EN 13755: 2008	0.01 % to 12.00 %
81	MECHANICAL- SOIL AND ROCK	Marble	Water Absorption by Capillary	EN 1925: 1999	0.10 to 10.00



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82	MECHANICAL- SOIL AND ROCK	Quartzite	Abrasive Resistance (Wide Wheel Abrasion)	EN 14157: 2017	10 mm to 30 mm
83	MECHANICAL- SOIL AND ROCK	Quartzite	Abrasive Resistance of Stone Subjected to Foot Traffic	ASTM C241/C241 M: 2015	3 Ha to 180 Ha
84	MECHANICAL- SOIL AND ROCK	Quartzite	Apparent Sp. Gravity	IS:1124: 2003	1.90 to 4.00
85	MECHANICAL- SOIL AND ROCK	Quartzite	Bulk Density	ASTM C-97/C-97 M: 2018	1800 to 3300
86	MECHANICAL- SOIL AND ROCK	Quartzite	Bulk Specific Gravity	ASTM C-97/C-97 M: 2018	1.90 to 4.00
87	MECHANICAL- SOIL AND ROCK	Quartzite	Compressive Strength	ASTM C170/C170 M: 2017	20 MPa to 350 MPa
88	MECHANICAL- SOIL AND ROCK	Quartzite	Compressive Strength	EN- 1926: 2006	20 MPa to 350 MPa
89	MECHANICAL- SOIL AND ROCK	Quartzite	Durability of Natural Building Stones (Gain / loss in mass)	IS 1126: 2013	0.001 % to 5.00 %
90	MECHANICAL- SOIL AND ROCK	Quartzite	Flexural strength under concentrated load (Single point)	EN 12372: 2006	2 MPa to 60 MPa
91	MECHANICAL- SOIL AND ROCK	Quartzite	Flexural strength under constant moment (Double point)	EN 13161: 2008	2 MPa to 60 MPa
92	MECHANICAL- SOIL AND ROCK	Quartzite	Frost Resistance (Technological Test) (Pre & Post Compressive Strength)	EN- 12371, EN 1926: 2010	20 MPa to 350 MPa





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93	MECHANICAL- SOIL AND ROCK	Quartzite	Frost Resistance (Technological Test) Pre & Post Flexural Strength	EN- 12371, EN 12372: 2010	2 MPa to 60 MPa
94	MECHANICAL- SOIL AND ROCK	Quartzite	Hardness of Stones	CDOS/TP/23: 2013	Qualitative(2 to 9)
95	MECHANICAL- SOIL AND ROCK	Quartzite	Measuring Surface Frictional Properties Using the British Pendulum Tester	ASTM E 303: 2003	5 BPN to 100 BPN
96	MECHANICAL- SOIL AND ROCK	Quartzite	Modulus of Rupture	ASTM C 99/C-99 M: 2018	2 MPa to 60 MPa
97	MECHANICAL- SOIL AND ROCK	Quartzite	Porosity	IS 1124: 2003	0.01 % to 35 %
98	MECHANICAL- SOIL AND ROCK	Quartzite	Resistance to Salt Crystallization (Gain / lose in mass )	EN 12370: 1999	0.001 % to 5.00 %
99	MECHANICAL- SOIL AND ROCK	Quartzite	Rupture energy or Impact resistance	EN 14158: 2004	1 Joules to 15 Joules
100	MECHANICAL- SOIL AND ROCK	Quartzite	Slip Resistance By Means of Pendulum Tester	EN 14231: 2003	5 SRV to 100 SRV
101	MECHANICAL- SOIL AND ROCK	Quartzite	Strength Properties of Natural Building Stones (Compressive strength)	IS 1121 Part I): 2013	20 MPa to 350 MPa
102	MECHANICAL- SOIL AND ROCK	Quartzite	Tactility	EN 12057, EN12058: 2015	Qualitative
103	MECHANICAL- SOIL AND ROCK	Quartzite	True Specific Gravity of Natural Building Stones	IS 1122: 2003	1.90 to 4.00



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104	MECHANICAL- SOIL AND ROCK	Quartzite	Visual Appearance	EN 12057, EN12058, EN 1469: 2015	Qualitative
105	MECHANICAL- SOIL AND ROCK	Quartzite	Water Absorption	IS 1124: 2003	0.01 % to 12.00 %
106	MECHANICAL- SOIL AND ROCK	Quartzite	Water Absorption	ASTM C-97/C-97 M: 2018	0.01 % to 12.00 %
107	MECHANICAL- SOIL AND ROCK	Quartzite	Water absorption at atmospheric pressure	EN 13755: 2008	0.01 % to 12.00 %
108	MECHANICAL- SOIL AND ROCK	Quartzite	Water Absorption by Capillary	EN 1925: 1999	0.10 g/m <sup>2</sup> s <sup>0.5</sup> to 10.00 g/m <sup>2</sup> s <sup>0.5</sup>
109	MECHANICAL- SOIL AND ROCK	Sandstone	Abrasive Resistance (Wide Wheel Abrasion)	EN 14157: 2017	10 mm to 30 mm
110	MECHANICAL- SOIL AND ROCK	Sandstone	Abrasive Resistance of Stone Subjected to Foot Traffic	ASTM C241/C241 M: 2015	3 Ha to 180 Ha
111	MECHANICAL- SOIL AND ROCK	Sandstone	Apparent Sp. Gravity	IS 1124: 2003	1.90 to 4.00
112	MECHANICAL- SOIL AND ROCK	Sandstone	Bulk Density	ASTM C-97/C-97 M: 2018	1800 Kg/m <sup>3</sup> to 3300 Kg/m <sup>3</sup>
113	MECHANICAL- SOIL AND ROCK	Sandstone	Bulk Specific Gravity	ASTM C-97/C-97 M: 2018	1.90 to 4.00
114	MECHANICAL- SOIL AND ROCK	Sandstone	Compressive Strength	EN 1926: 2006	20 MPa to 350 MPa
115	MECHANICAL- SOIL AND ROCK	Sandstone	Compressive Strength	ASTM C170/C170 M: 2017	20 MPa to 350 MPa
116	MECHANICAL- SOIL AND ROCK	Sandstone	Durability of Natural Building Stones (Gain / loss in mass)	IS:1126: 2003	0.001 % to 5.00 %



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118	MECHANICAL- SOIL AND ROCK	Sandstone	Flexural strength under constant moment (Double point)	EN 13161: 2008	2 MPa to 60 MPa
119	MECHANICAL- SOIL AND ROCK	Sandstone	Frost Resistance (Technological Test) (Pre & Post Compressive Strength)	EN- 12371, EN 1926: 2010	20 MPa to 350 MPa
120	MECHANICAL- SOIL AND ROCK	Sandstone	Frost Resistance (Technological Test) Pre & Post Flexural Strength	EN- 12371, EN 12372: 2010	2 MPa to 60 MPa
121	MECHANICAL- SOIL AND ROCK	Sandstone	Hardness of Stones	CDOS/TP/23: 2013	Qualitative(2 to 9)
122	MECHANICAL- SOIL AND ROCK	Sandstone	Measuring Surface Frictional Properties Using the British Pendulum Tester	ASTM E 303: 2003	5 BPN to 100 BPN
123	MECHANICAL- SOIL AND ROCK	Sandstone	Modulus of Rupture	ASTM C 99/C-99 M: 2018	2 MPa to 60 MPa
124	MECHANICAL- SOIL AND ROCK	Sandstone	Porosity	IS:1124: 2003	0.01 % to 35 %
125	MECHANICAL- SOIL AND ROCK	Sandstone	Resistance to Salt Crystallization (Gain / lose in mass )	EN 12370: 1999	0.001 % to 5.00 %
126	MECHANICAL- SOIL AND ROCK	Sandstone	Rupture energy or Impact resistance	EN 14158: 2004	1 Joules to 15 Joules



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128	MECHANICAL- SOIL AND ROCK	Sandstone	Strength Properties of Natural Building Stones (Compressive strength)	IS:1121 (Part-1): 2013	20 MPa to 350 MPa
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130	MECHANICAL- SOIL AND ROCK	Sandstone	True Specific Gravity of Natural Building Stones	IS 1122: 2003	1.90 to 4.00
131	MECHANICAL- SOIL AND ROCK	Sandstone	Visual Appearance	EN 12057, EN12058, EN 1469: 2015	Qualitative
132	MECHANICAL- SOIL AND ROCK	Sandstone	Water Absorption	IS:1124: 2003	0.01 % to 12.00 %
133	MECHANICAL- SOIL AND ROCK	Sandstone	Water Absorption	ASTM C-97/C-97 M: 2018	0.01 % to 12.00 %
134	MECHANICAL- SOIL AND ROCK	Sandstone	Water absorption at atmospheric pressure	EN 13755: 2008	0.01 % to 12.00 %
135	MECHANICAL- SOIL AND ROCK	Sandstone	Water Absorption by Capillary	EN1925: 1999	0.10 g/m <sup>2</sup> s <sup>0.5</sup> to 10.00 g/m <sup>2</sup> s <sup>0.5</sup>
136	MECHANICAL- SOIL AND ROCK	Schist	Abrasive Resistance (Wide Wheel Abrasion)	EN 14157: 2017	10 mm to 30 mm
137	MECHANICAL- SOIL AND ROCK	Schist	Abrasive Resistance of Stone Subjected to Foot Traffic	ASTM C241/C241 M: 2015	3 Ha to 180 Ha
138	MECHANICAL- SOIL AND ROCK	Schist	Apparent Sp. Gravity	IS:1124: 2003	1.90 to 4.00
139	MECHANICAL- SOIL AND ROCK	Schist	Bulk Density	ASTM C-97/C-97 M: 2018	1800 Kg/m <sup>3</sup> to 3300 Kg/m <sup>3</sup>



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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
140	MECHANICAL- SOIL AND ROCK	Schist	Bulk Specific Gravity	ASTM C-97/C-97 M: 2018	1.90 to 4.00
141	MECHANICAL- SOIL AND ROCK	Schist	Compressive Strength	ASTM C170/C170 M: 2017	20 MPa to 350 MPa
142	MECHANICAL- SOIL AND ROCK	Schist	Compressive Strength	EN- 1926: 2006	20 MPa to 350 MPa
143	MECHANICAL- SOIL AND ROCK	Schist	Durability of Natural Building Stones (Gain / loss in mass)	IS 1126: 2003	0.001 % to 5.00 %
144	MECHANICAL- SOIL AND ROCK	Schist	Flexural strength under concentrated load (Single point)	EN 12372: 2006	2 MPa to 60 MPa
145	MECHANICAL- SOIL AND ROCK	Schist	Flexural strength under constant moment (Double point)	EN 13161: 2008	2 MPa to 60 MPa
146	MECHANICAL- SOIL AND ROCK	Schist	Frost Resistance (Technological Test) (Pre & Post Compressive Strength)	EN- 12371, EN 1926: 2006	20 MPa to 350 MPa
147	MECHANICAL- SOIL AND ROCK	Schist	Frost Resistance (Technological Test) Pre & Post Flexural Strength	EN- 12371, EN 12372: 2010	2 MPa to 60 MPa
148	MECHANICAL- SOIL AND ROCK	Schist	Hardness of Stones	CDOS/TP/23: 2013	Qualitative(2 to 9)
149	MECHANICAL- SOIL AND ROCK	Schist	Measuring Surface Frictional Properties Using the British Pendulum Tester	ASTM E 303: 2003	5 BPN to 100 BPN



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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
150	MECHANICAL- SOIL AND ROCK	Schist	Modulus of Rupture	ASTM C 99/C-99 M: 2018	2 MPa to 60 MPa
151	MECHANICAL- SOIL AND ROCK	Schist	Porosity	IS 1124: 2003	0.01 % to 35 %
152	MECHANICAL- SOIL AND ROCK	Schist	Resistance to Salt Crystallization (Gain / lose in mass )	EN 12370: 1999	0.001 % to 5.00 %
153	MECHANICAL- SOIL AND ROCK	Schist	Rupture energy or Impact resistance	EN 14158: 2004	1 Joules to 15 Joules
154	MECHANICAL- SOIL AND ROCK	Schist	Slip Resistance By Means of Pendulum Tester	EN 14231: 2003	5 SRV to 100 SRV
155	MECHANICAL- SOIL AND ROCK	Schist	Strength Properties of Natural Building Stones (Compressive strength)	IS:1121 (Part-1): 2013	20 MPa to 350 MPa
156	MECHANICAL- SOIL AND ROCK	Schist	Tactility	EN 12057, EN12058: 2015	Qualitative
157	MECHANICAL- SOIL AND ROCK	Schist	True Specific Gravity of Natural Building Stones	IS 1122: 2003	1.90 to 4.00
158	MECHANICAL- SOIL AND ROCK	Schist	Visual Appearance	EN 12057, EN12058, EN 1469: 2015	Qualitative
159	MECHANICAL- SOIL AND ROCK	Schist	Water Absorption	ASTM C-97/C-97 M: 2018	0.01 % to 12.00 %
160	MECHANICAL- SOIL AND ROCK	Schist	Water Absorption	IS 1124: 2003	0.01 % to 12.00 %
161	MECHANICAL- SOIL AND ROCK	Schist	Water absorption at atmospheric pressure	EN 13755: 2008	0.01 % to 12.00 %
162	MECHANICAL- SOIL AND ROCK	Schist	Water Absorption by Capillary	EN 1925: 1999	0.10 g/m <sup>2</sup> s <sup>0.5</sup> to 10.00 g/m <sup>2</sup> s <sup>0.5</sup>



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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
163	MECHANICAL- SOIL AND ROCK	Slate	Abrasive Resistance (Wide Wheel Abrasion)	EN 14157: 2017	10 mm to 30 mm
164	MECHANICAL- SOIL AND ROCK	Slate	Abrasive Resistance of Stone Subjected to Foot Traffic	ASTM C241/C241 M: 2018	3 Ha to 180 Ha
165	MECHANICAL- SOIL AND ROCK	Slate	Apparent Sp. Gravity	IS 1124: 2003	1.90 to 4.00
166	MECHANICAL- SOIL AND ROCK	Slate	Bulk Density	ASTM C-97/C-97 M: 2018	1800 Kg/m <sup>3</sup> to 3300 Kg/m <sup>3</sup>
167	MECHANICAL- SOIL AND ROCK	Slate	Bulk Specific Gravity	ASTM C-97/C-97 M: 2018	1.90 to 4.00
168	MECHANICAL- SOIL AND ROCK	Slate	Compressive Strength	EN- 1926: 2006	20 MPa to 350 MPa
169	MECHANICAL- SOIL AND ROCK	Slate	Compressive Strength	ASTM C170/C170 M: 2017	20 MPa to 350 MPa
170	MECHANICAL- SOIL AND ROCK	Slate	Durability of Natural Building Stones (Gain / loss in mass)	IS:1126: 2003	0.001 % to 5.00 %
171	MECHANICAL- SOIL AND ROCK	Slate	Flexural strength under concentrated load (Single point)	EN 12372: 2006	2 MPa to 60 MPa
172	MECHANICAL- SOIL AND ROCK	Slate	Flexural strength under constant moment (Double point)	EN 13161: 2008	2 MPa to 60 MPa
173	MECHANICAL- SOIL AND ROCK	Slate	Frost Resistance (Technological Test) (Pre & Post Compressive Strength)	EN- 12371, EN 1926: 2010	20 MPa to 350 MPa



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174	MECHANICAL- SOIL AND ROCK	Slate	Frost Resistance (Technological Test) Pre & Post Flexural Strength	EN- 12371, EN 12372: 2010	2 MPa to 60 MPa
175	MECHANICAL- SOIL AND ROCK	Slate	Hardness of Stones	CDOS/TP/23: 2013	Qualitative(2 to 9)
176	MECHANICAL- SOIL AND ROCK	Slate	Measuring Surface Frictional Properties Using the British Pendulum Tester	ASTM E 303: 2003	5 BPN to 100 BPN
177	MECHANICAL- SOIL AND ROCK	Slate	Modulus of Rupture	ASTM C 99/C-99 M: 2018	2 MPa to 60 MPa
178	MECHANICAL- SOIL AND ROCK	Slate	Porosity	IS 1124: 2003	0.01 % to 35 %
179	MECHANICAL- SOIL AND ROCK	Slate	Resistance to Salt Crystallization (Gain / lose in mass )	EN 12370: 1999	0.001 % to 5.00 %
180	MECHANICAL- SOIL AND ROCK	Slate	Rupture energy or Impact resistance	EN 14158: 2004	1 Joules to 15 Joules
181	MECHANICAL- SOIL AND ROCK	Slate	Slip Resistance By Means of Pendulum Tester	EN 14231: 2003	5 SRV to 100 SRV
182	MECHANICAL- SOIL AND ROCK	Slate	Strength Properties of Natural Building Stones (Compressive strength)	IS:1121 (Part-1): 2013	20 MPa to 350 MPa
183	MECHANICAL- SOIL AND ROCK	Slate	Tactility	EN 12057, EN12058: 2015	Qualitative
184	MECHANICAL- SOIL AND ROCK	Slate	True Specific Gravity of Natural Building Stones	IS 1122: 2003	1.90 to 4.00





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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
185	MECHANICAL- SOIL AND ROCK	Slate	Visual Appearance	EN 12057, EN12058, EN 1469: 2015	Qualitative
186	MECHANICAL- SOIL AND ROCK	Slate	Water Absorption	ASTM C-97/C-97 M: 2018	0.01 % to 12.00 %
187	MECHANICAL- SOIL AND ROCK	Slate	Water Absorption	IS 1124: 2003	0.01 % to 12.00 %
188	MECHANICAL- SOIL AND ROCK	Slate	Water absorption at atmospheric pressure	EN 13755: 2008	0.01 % to 12.00 %
189	MECHANICAL- SOIL AND ROCK	Slate	Water Absorption by Capillary	EN 1925: 1999	0.10 g/m <sup>2</sup> s <sup>0.5</sup> to 10.00 g/m <sup>2</sup> s <sup>0.5</sup>