National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BORREGAARD SOUTH ASIA PVT LTD, PLOT NO: A-80, C/O AERO CONTROLS, T.T.C INDUSTRIAL AREA, NAVI MUMBAI, THANE, MAHARASHTRA, INDIA

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- BUILDING MATERIAL	Microsilica	Moisture Content	IS 15388
2	CHEMICAL- BUILDING MATERIAL	Admixture	Ash Content	IS 9103
3	CHEMICAL- BUILDING MATERIAL	Admixture	Chloride Content	IS 6925
4	CHEMICAL- BUILDING MATERIAL	Admixture	Dry Material Content	IS 9103
5	CHEMICAL- BUILDING MATERIAL	Admixture	pH	IS 9103
6	CHEMICAL- BUILDING MATERIAL	Admixture	Relative Density	IS 9103
7	CHEMICAL- BUILDING MATERIAL	Coarse aggregate	Acid soluble sulphate	BS EN 1744-1
8	CHEMICAL- BUILDING MATERIAL	Coarse aggregate	Alkali Aggregate reactivity-Silica Released (SC)	IS 2386 Part 7
9	CHEMICAL- BUILDING MATERIAL	Coarse aggregate	Alkali Aggregate reactivity-Reduction in Alkalinity (RC)	IS 2386 Part 7
10	CHEMICAL- BUILDING MATERIAL	Coarse aggregate	Clay lumps	IS : 2386 Part 2
11	CHEMICAL- BUILDING MATERIAL	Coarse aggregate	Clay,Fine Silt and Fine Dust (Sedimentation test)	IS 2386 Part 2
12	CHEMICAL- BUILDING MATERIAL	Coarse aggregate	Soft Particles	IS 2386 Part 2
13	CHEMICAL- BUILDING MATERIAL	Coarse aggregate	Water soluble chloride	BS EN 1744-1
14	CHEMICAL- BUILDING MATERIAL	Concrete cube	Rapid Chloride Permeability Test(RCPT)	ASTM C-1202
15	CHEMICAL- BUILDING MATERIAL	concrete cube	RCMT	NTBuild 492-11
16	CHEMICAL- BUILDING MATERIAL	Fine aggregate	Acid soluble sulphate	IS1744-1
17	CHEMICAL- BUILDING MATERIAL	Fine aggregate	Alkali Aggregate reactivity-Silica Released (SC)	IS 2386 Part 7
18	CHEMICAL- BUILDING MATERIAL	Fine aggregate	Alkali Aggregate reactivity-Reduction in Alkalinity (RC)	IS 2386 Part 7

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19	CHEMICAL- BUILDING MATERIAL	Fine aggregate	Clay Lumps	IS 2386 Part 7
20	CHEMICAL- BUILDING MATERIAL	Fine aggregate	Clay,Fine Silt and Fine Dust(Sedimentation test)	IS 2386 Part 2
21	CHEMICAL- BUILDING MATERIAL	Fine aggregate	Organic Impurities	IS 2386 Part 2
22	CHEMICAL- BUILDING MATERIAL	Fine aggregate	Water soluble chloride	BS EN 1744-1
23	CHEMICAL- BUILDING MATERIAL	Fly Ash	Calcium Oxide (CaO)	IS 1727
24	CHEMICAL- BUILDING MATERIAL	Fly ash	chloride content	IS 4032
25	CHEMICAL- BUILDING MATERIAL	Fly Ash	Combined Ferric Oxide & Alumina (Al2O3 + Fe2O3)	IS1727
26	CHEMICAL- BUILDING MATERIAL	Fly Ash	Loss On Ignition	IS 1727
27	CHEMICAL- BUILDING MATERIAL	Fly Ash	Magnesia (MgO)	IS 1727
28	CHEMICAL- BUILDING MATERIAL	Fly Ash	Silica Content(SiO2)	IS 1727
29	CHEMICAL- BUILDING MATERIAL	Fly Ash	Sulfuric Anhydride(SO3)	IS 1727
30	CHEMICAL- BUILDING MATERIAL	GGBS	Alumina (Al2O3)	IS 4032
31	CHEMICAL- BUILDING MATERIAL	GGBS	Calcium Oxide (CaO)	IS 4032
32	CHEMICAL- BUILDING MATERIAL	GGBS	Chloride	IS 4032
33	CHEMICAL- BUILDING MATERIAL	GGBS	Ferric Oxide (Fe2O3)	IS 4032
34	CHEMICAL- BUILDING MATERIAL	GGBS	Insoluble Residue	IS 4032
35	CHEMICAL- BUILDING MATERIAL	GGBS	Loss on Ignition	IS 4032
36	CHEMICAL- BUILDING MATERIAL	GGBS	Magnesia (MgO)	IS 4032
37	CHEMICAL- BUILDING MATERIAL	GGBS	Silica Content	IS 4032

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
38	CHEMICAL- BUILDING MATERIAL	GGBS	Sulpuric Anhydride (SO3)	IS 4032
39	CHEMICAL- BUILDING MATERIAL	Hardened concrete	Sulphate	BS 1881-124
40	CHEMICAL- BUILDING MATERIAL	Hardened Concrete cube	chloride	BS 1881-124
41	CHEMICAL- BUILDING MATERIAL	Microsilica	Loss on ignition	IS 1727
42	CHEMICAL- BUILDING MATERIAL	Microsilica	Moisture Content	IS 15388
43	CHEMICAL- BUILDING MATERIAL	Microsilica	Silica content	IS 1727
44	CHEMICAL- BUILDING MATERIAL	OPC	Alumina (Al2O3)	IS 4032
45	CHEMICAL- BUILDING MATERIAL	OPC	Calcium Oxide(CaO)	IS 4032
46	CHEMICAL- BUILDING MATERIAL	OPC	Chloride	IS 4032
47	CHEMICAL- BUILDING MATERIAL	OPC	Ferric Oxide(Fe2O3)	IS 4032
48	CHEMICAL- BUILDING MATERIAL	OPC	Insoluble Residue	IS 4032
49	CHEMICAL- BUILDING MATERIAL	OPC	Loss On Ignition	IS 4032
50	CHEMICAL- BUILDING MATERIAL	OPC	Magnesia (MgO)	IS 4032
51	CHEMICAL- BUILDING MATERIAL	OPC	Silica Content (SiO2)	IS 4032
52	CHEMICAL- BUILDING MATERIAL	OPC	Sulfuric Anhydride(SO3)	IS 4032
53	CHEMICAL- BUILDING MATERIAL	PPC	Alumina(Al2O3)	IS 4032
54	CHEMICAL- BUILDING MATERIAL	PPC	Calcium Oxide(CaO)	IS 4032
55	CHEMICAL- BUILDING MATERIAL	PPC	Chloride content	IS 4032
56	CHEMICAL- BUILDING MATERIAL	PPC	Ferric Oxide(Fe2O3)	IS 4032

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57	CHEMICAL- BUILDING MATERIAL	PPC	Insoluble residue	IS 4032
58	CHEMICAL- BUILDING MATERIAL	PPC	Loss on ignition	IS 4032
59	CHEMICAL- BUILDING MATERIAL	PPC	Magnesia (MgO)	IS 4032
60	CHEMICAL- BUILDING MATERIAL	PPC	Silica Content (SiO2)	IS 4032
61	CHEMICAL- BUILDING MATERIAL	PPC	Sulfuric Anhydride(SO3)	IS 4032
62	CHEMICAL- BUILDING MATERIAL	PSC	Insoluble residue	S 4032
63	CHEMICAL- BUILDING MATERIAL	PSC	Alumina(Al2O3)	IS 4032
64	CHEMICAL- BUILDING MATERIAL	PSC	Calcium Oxide(CaO)	IS 4032
65	CHEMICAL- BUILDING MATERIAL	PSC	Chloride content	IS 4032
66	CHEMICAL- BUILDING MATERIAL	PSC	Ferric Oxide(Fe2O3)	IS4032
67	CHEMICAL- BUILDING MATERIAL	PSC	Loss on ignition	IS 4032
68	CHEMICAL- BUILDING MATERIAL	PSC	Magnesia (MgO)	IS 4032
69	CHEMICAL- BUILDING MATERIAL	PSC	Silica	IS 4032
70	CHEMICAL- BUILDING MATERIAL	PSC	Sulfuric Anhydride(SO3)	IS 4032
71	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Carbon	IS 228 Part 1
72	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Phosphorus	IS 228 Part 3
73	CHEMICAL- METALS & ALLOYS	Plain Carbon & Low Alloy Steel	Sulphur	BSAPL/SOP/03/02/053, dt: 01.05.2017
74	CHEMICAL- WATER	construction water	Acidity	IS 3025 Part 22
75	CHEMICAL- WATER	construction water	Alkalinity	IS 3025 Part 23
76	CHEMICAL- WATER	construction water	Chloride (Cl-)	IS 3025 Part 32

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77	CHEMICAL- WATER	construction water	Inorganic Impurities	IS 3025 Part 18
78	CHEMICAL- WATER	construction water	Organic Impurities	IS 3025 Part 18
79	CHEMICAL- WATER	Construction water	pH	IS 3025 Part 11
80	CHEMICAL- WATER	construction water	Sulphate (SO3)	IS 3025 Part 24
81	CHEMICAL- WATER	construction water	Total Hardness(as CaCO3)	IS 3025 Part 21
82	CHEMICAL- WATER	construction water	Total Suspended Solids	IS 3025 Part 17
83	MECHANICAL- BUILDINGS MATERIALS	Accelerated Cured Concrete Cubes	Compressive Strength	IS 9013
84	MECHANICAL- BUILDINGS MATERIALS	Building Bricks	Compressive Strength	IS 3495 (Part 1)
85	MECHANICAL- BUILDINGS MATERIALS	Building Bricks	Efflorescence Test	IS 3495 (Part 3)
86	MECHANICAL- BUILDINGS MATERIALS	Building Bricks	Height	IS 1077
87	MECHANICAL- BUILDINGS MATERIALS	Building Bricks	Length	IS 1077
88	MECHANICAL- BUILDINGS MATERIALS	Building Bricks	Water Absorption	IS 3495 (Part 2)
89	MECHANICAL- BUILDINGS MATERIALS	Building Bricks	Width	IS 1077
90	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 Part 3
91	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 Part 4
92	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 Part 1
93	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 Part 1
94	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 Part 4
95	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Los Angeles Abrasion Value	IS 2386 Part 4
96	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis (2.36 mm to 80 mm)	IS 2386 Part 1
97	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness by Na2So4 & MgSo4	IS 2386 Part 5

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98	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 Part 3
99	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Ten Percent Fines Value	IS 2386 Part 4
100	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 Part 3
101	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 Part 3
102	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulking of sand	IS 2386 Part 3
103	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Material Finer than 75 micron	IS 2386 Part 1
104	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (0.150 mm to 10 mm)	IS 2386 Part 1
105	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness by Na2So4 & MgSo4	IS 2386 Part 5
106	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 Part 3
107	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 Part 3
108	MECHANICAL- BUILDINGS MATERIALS	Fly Ash	Fineness by Blaine's Air Permeability	IS 1727
109	MECHANICAL- BUILDINGS MATERIALS	Fly Ash & Microsilica	Compressive Strength	IS 1727
110	MECHANICAL- BUILDINGS MATERIALS	Fly Ash & Microsilica	Final Setting Time	IS 1727
111	MECHANICAL- BUILDINGS MATERIALS	Fly Ash & Microsilica	Initial Setting Time	IS 1727
112	MECHANICAL- BUILDINGS MATERIALS	Fly Ash & Microsilica	Residue On 45micron IS Sieve	IS 1727
113	MECHANICAL- BUILDINGS MATERIALS	Fly Ash & Microsilica	Soundness by Le-Chateliers Method	IS 1727
114	MECHANICAL- BUILDINGS MATERIALS	Fly Ash & Microsilica	Specific Gravity	IS 1727
115	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete	Setting Time by Penetration Resistance	IS 1199 Part 7
116	MECHANICAL- BUILDINGS MATERIALS	Ground Granulated Blast Furnace Slag (GGBS)	Fineness by Blaine's Air Permeability method	IS 4031 Part 2

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117	MECHANICAL- BUILDINGS MATERIALS	Ground Granulated Blast Furnace Slag (GGBS)	Slag Activity Index - 28 days	IS 16714
118	MECHANICAL- BUILDINGS MATERIALS	Ground Granulated Blast Furnace Slag (GGBS)	Slag Activity Index - 7 days	IS 16714
119	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Compressive Strength	IS 516 (Part-1/Sec. 1)
120	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Depth of Water Penetration	IS 516 Part 2 / Sec 1
121	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Drying Shrinkage	IS 516 (Part-6)
122	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Initial Surface Absorption Test	BS 1881 Part 208
123	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Water Absorption	BS 1881 Part 122
124	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete Beam	Flexural Strength	IS 516 (Part-1/Sec. 1)
125	MECHANICAL- BUILDINGS MATERIALS	OPC, PPC & PSC	Compressive Strength	IS 4031 Part 6
126	MECHANICAL- BUILDINGS MATERIALS	OPC, PPC & PSC	Density	IS 4031 Part 11
127	MECHANICAL- BUILDINGS MATERIALS	OPC, PPC & PSC	Final Setting Time	IS 4031 Part 5
128	MECHANICAL- BUILDINGS MATERIALS	OPC, PPC & PSC	Fineness by Blaine's Air Permeability method	IS 4031 Part 2
129	MECHANICAL- BUILDINGS MATERIALS	OPC, PPC & PSC	Initial Setting Time	IS 4031 Part 5
130	MECHANICAL- BUILDINGS MATERIALS	OPC, PPC & PSC	Soundness by Le-Chateliers Method	IS 4031 Part 3
131	MECHANICAL- BUILDINGS MATERIALS	OPC, PPC & PSC	Standard Consistency	IS 4031 Part 4
132	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Paving Blocks	Compressive Strength	IS 15658
133	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Paving Blocks	Water Absorption	IS 15658
134	MECHANICAL- BUILDINGS MATERIALS	Reinforced Steel bars	Mass per meter	IS 1786
135	MECHANICAL- BUILDINGS MATERIALS	Reinforced Steel bars	Yield Stress	IS 1608 Part 1

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136	MECHANICAL- BUILDINGS MATERIALS	Reinforcement steel	Bend	IS 1599
137	MECHANICAL- BUILDINGS MATERIALS	Reinforcement steel	Elongation Percent	IS 1608 (PART- 1)
138	MECHANICAL- BUILDINGS MATERIALS	Reinforcement steel	Rebend	IS 1786
139	MECHANICAL- BUILDINGS MATERIALS	Reinforcement steel	Tensile Strength	IS 1608 Part 1
140	MECHANICAL- BUILDINGS MATERIALS	Silica Fume	Compressive Strength	IS 1727
141	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio	IS 2720 Part 16
142	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (Part 40)
143	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis (0.075 to 19 mm)	IS 2720 (Part 4)
144	MECHANICAL- SOIL AND ROCK	soil	Heavy Compaction - Maximum Dry Density	IS 2720 (Part 8)
145	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction - Optimum Moisture Content	IS 2720 (Part 8)
146	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction - Maximum Dry Density	IS 2720 Part 7
147	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction - Optimum Moisture Content	IS 2720 (Part 7)
148	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit by Casagrade Apparatus	IS 2720
149	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 5)
150	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Ultrasonic Pulse Velocity	IS : 516 (Part- 5 /Sec 1)
151	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Rebound Hammer	IS 13311 Part 2