National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : FINEST ENGINEERING LAB, GROUND FLOOR,INDUSTRIAL UNIT NO. 10 C, PALA BUILDING, AMBERNATH, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8959 **Page No** 1 of 14

Validity 17/08/2022 to 16/08/2024 **Last Amended on** 11/10/2022

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	Admixture	Ash Content	IS:9103
2	CHEMICAL- BUILDING MATERIAL	Admixture	Chloride	IS:6925
3	CHEMICAL- BUILDING MATERIAL	Admixture	pH	IS:9103
4	CHEMICAL- BUILDING MATERIAL	Admixture	Relative Density	IS:9103
5	CHEMICAL- BUILDING MATERIAL	Admixture	Solid Content	IS:9103
6	CHEMICAL- BUILDING MATERIAL	Concrete	Chloride Content	BS:1881(Part-124)
7	CHEMICAL- BUILDING MATERIAL	Concrete	Sulphate	BS:1881(Part-124)
8	CHEMICAL- BUILDING MATERIAL	Concrete	Water Soluble Chloride	IS:14959 (Part-2)
9	CHEMICAL- METALS & ALLOYS	Mild Steel	Aluminium	IS 8811
10	CHEMICAL- METALS & ALLOYS	Mild Steel	Aluminum	ASTM E 415
11	CHEMICAL- METALS & ALLOYS	Mild Steel	Carbon	ASTM E 415
12	CHEMICAL- METALS & ALLOYS	Mild Steel	Carbon	IS 8811
13	CHEMICAL- METALS & ALLOYS	Mild Steel	Chromium	ASTM E 415
14	CHEMICAL- METALS & ALLOYS	Mild Steel	Chromium	IS 8811
15	CHEMICAL- METALS & ALLOYS	Mild Steel	Copper	ASTM E 415
16	CHEMICAL- METALS & ALLOYS	Mild Steel	Copper	IS 8811
17	CHEMICAL- METALS & ALLOYS	Mild Steel	Manganese	ASTM E 415
18	CHEMICAL- METALS & ALLOYS	Mild steel	Manganese	IS:8811

SCOPE OF ACCREDITATION

Laboratory Name :	FINEST ENGINEERING LAB, GROUND FLOOR,INDUSTRIAL UNIT NO. 10 C, PALA BUILDING, AMBERNATH, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8959	**Page No**	2 of 14
Validity	17/08/2022 to 16/08/2024	**Last Amended on**	11/10/2022

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
19	CHEMICAL- METALS & ALLOYS	Mild Steel	Molybdenum	ASTM E 415
20	CHEMICAL- METALS & ALLOYS	Mild Steel	Molybdenum	IS 8811
21	CHEMICAL- METALS & ALLOYS	Mild Steel	Nickel	ASTM E 415
22	CHEMICAL- METALS & ALLOYS	Mild Steel	Nickel	IS 8811
23	CHEMICAL- METALS & ALLOYS	Mild Steel	Phosphorus	ASTM E 415
24	CHEMICAL- METALS & ALLOYS	Mild steel	Phosphorus	IS:8811
25	CHEMICAL- METALS & ALLOYS	Mild Steel	Silicon	ASTM E 415
26	CHEMICAL- METALS & ALLOYS	Mild steel	Silicon	IS:8811
27	CHEMICAL- METALS & ALLOYS	Mild Steel	Sulphur	ASTM E 415
28	CHEMICAL- METALS & ALLOYS	Mild steel	Sulphur	IS 8811
29	CHEMICAL- METALS & ALLOYS	Mild Steel	Vanadium	ASTM E 415
30	CHEMICAL- METALS & ALLOYS	Mild Steel	Vanadium	IS 8811
31	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel and Low Alloy Steel	Molybdenum	ASTM E 415
32	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel and Low Alloy Steel	Aluminium	IS:8811
33	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel and Low Alloy Steel	Aluminum	ASTM E 415
34	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel and Low Alloy Steel	Boron	ASTM E 415
35	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel and Low Alloy Steel	Boron	IS:8811
36	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel and Low Alloy Steel	Carbon	ASTM E 415
37	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel and Low Alloy Steel	Carbon	IS 8811

SCOPE OF ACCREDITATION

Laboratory Name :	FINEST ENGINEERING LAB, GROUND FLOOR,INDUSTRIAL UNIT NO. 10 C, PALA BUILDING, AMBERNATH, MAHARASHTRA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-8959
Page No	3 of 14
Validity	17/08/2022 to 16/08/2024
Last Amended on	11/10/2022

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- METALS & ALLOYS	Plain Carbon Steel and Low Alloy Steel	Chromium	ASTM E 415
39	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel and Low Alloy Steel	Chromium	IS 8811
40	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel and Low Alloy Steel	Cobalt	ASTM E 415
41	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel and Low Alloy Steel	Cobalt	IS 8811
42	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel and Low Alloy Steel	Copper	ASTM E 415
43	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel and Low Alloy Steel	Copper	IS 8811
44	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel and Low Alloy Steel	Manganese	ASTM E 415
45	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel and Low Alloy Steel	Manganese	IS 8811
46	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel and Low Alloy Steel	Molybdenum	IS 8811
47	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel and Low Alloy Steel	Nickel	ASTM E 415
48	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel and Low Alloy Steel	Nickel	IS 8811
49	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel and Low Alloy Steel	Nitrogen	ASTM E 415
50	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel and Low Alloy Steel	Phosphorous	IS 8811
51	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel and Low Alloy Steel	Phosphorus	ASTM E 415
52	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel and Low Alloy Steel	Silicon	ASTM E 415
53	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel and Low Alloy Steel	Silicon	IS 8811
54	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel and Low Alloy Steel	Sulphur	ASTM E 415
55	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel and Low Alloy Steel	Sulphur	IS 8811
56	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel and Low Alloy Steel	Titanium	ASTM E 415

SCOPE OF ACCREDITATION

Laboratory Name :	FINEST ENGINEERING LAB, GROUND FLOOR,INDUSTRIAL UNIT NO. 10 C, PALA BUILDING, AMBERNATH, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8959	**Page No**	4 of 14
Validity	17/08/2022 to 16/08/2024	**Last Amended on**	11/10/2022

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
57	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel and Low Alloy Steel	Titanium	IS 8811
58	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel and Low Alloy Steel	Vanadium	ASTM E 415
59	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel and Low Alloy Steel	Vanadium	IS 8811
60	CHEMICAL- METALS & ALLOYS	Stainless steel	Nickel	IS 9879
61	CHEMICAL- METALS & ALLOYS	Stainless steel	Phosphorus	IS 9879
62	CHEMICAL- METALS & ALLOYS	Stainless steel	Silicon	IS 9879
63	CHEMICAL- METALS & ALLOYS	Stainless steel	Sulphur	IS 9879
64	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon	ASTM E 1086
65	CHEMICAL- METALS & ALLOYS	Stainless steel	Carbon	IS 9879
66	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium	ASTM E 1086
67	CHEMICAL- METALS & ALLOYS	Stainless steel	Chromium	IS 9879
68	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper	ASTM E 1086
69	CHEMICAL- METALS & ALLOYS	Stainless steel	Copper	IS 9879
70	CHEMICAL- METALS & ALLOYS	Stainless Steel	Maganese	ASTM E 1086
71	CHEMICAL- METALS & ALLOYS	Stainless steel	Maganese	IS 9879
72	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum	ASTM E 1086
73	CHEMICAL- METALS & ALLOYS	Stainless steel	Molybdenum	IS 9879
74	CHEMICAL- METALS & ALLOYS	Stainless steel	Nickel	ASTM E 1086
75	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorus	ASTM E 1086

SCOPE OF ACCREDITATION

Laboratory Name :	FINEST ENGINEERING LAB, GROUND FLOOR,INDUSTRIAL UNIT NO. 10 C, PALA BUILDING, AMBERNATH, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8959	**Page No**	5 of 14
Validity	17/08/2022 to 16/08/2024	**Last Amended on**	11/10/2022

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
76	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	ASTM E 1086
77	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur	ASTM E 1086
78	CHEMICAL- SOIL AND ROCK	Soil	Organic Matters	IS 2720 (Part 22)
79	CHEMICAL- SOIL AND ROCK	Soil	pH Value	IS 2720 (Part 26)
80	CHEMICAL- SOIL AND ROCK	Soil	Sulphate	IS 2720 (Part 27)
81	CHEMICAL- SOIL AND ROCK	Soil	Total Soluble Solids	IS 2720 (Part 21)
82	CHEMICAL- WATER	Drinking Water	Acidity	IS 3025 (Part-22)
83	CHEMICAL- WATER	Drinking Water	Alkalinity	IS 3025 (Part-23)
84	CHEMICAL- WATER	Drinking Water	Calcium	IS 3025 (Part 40)
85	CHEMICAL- WATER	Drinking Water	Chloride	IS 3025 (Part-32)
86	CHEMICAL- WATER	Drinking Water	Color	IS 3025 (Part-4)
87	CHEMICAL- WATER	Drinking Water	Conductivity	IS 3025 (Part 14)
88	CHEMICAL- WATER	Drinking Water	M Alkalinity	IS 3025 (Part 23)
89	CHEMICAL- WATER	Drinking Water	Magnesium	IS 3025 (Part 46)
90	CHEMICAL- WATER	Drinking Water	Odour	IS 3025 (Part-5)
91	CHEMICAL- WATER	Drinking Water	P Alkalinity	IS 3025 (Part 23)
92	CHEMICAL- WATER	Drinking Water	pH	IS 3025 (Part-11)
93	CHEMICAL- WATER	Drinking Water	Sulphate	IS 3025 (P-24)
94	CHEMICAL- WATER	Drinking Water	Sulphate (Gravimetric)	IS 3025(P-24)
95	CHEMICAL- WATER	Drinking Water	Taste	IS 3025 (Part-8)
96	CHEMICAL- WATER	Drinking Water	Total Dissolved solids	IS 3025 (Part-16)
97	CHEMICAL- WATER	Drinking Water	Total Hardness	IS 3025(Part-21)
98	CHEMICAL- WATER	Drinking Water	Total residual chlorine	IS 3025 (Part-26)
99	CHEMICAL- WATER	Drinking Water	Total suspended solids	IS 3025 (Part-17)
100	CHEMICAL- WATER	Drinking Water	Turbidity	IS 3025 (Part-10)
101	CHEMICAL- WATER	Industrial Water	Biological oxygen demand	IS 3025 (Part-44)
102	CHEMICAL- WATER	Industrial Water	Chemical Oxygen demand	IS 3025 (Part-58)

SCOPE OF ACCREDITATION

Laboratory Name : FINEST ENGINEERING LAB, GROUND FLOOR,INDUSTRIAL UNIT NO. 10 C, PALA BUILDING, AMBERNATH, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8959 **Page No** 6 of 14

Validity 17/08/2022 to 16/08/2024 **Last Amended on** 11/10/2022

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
103	CHEMICAL- WATER	Industrial Water	Color	IS 3025 (Part-4)
104	CHEMICAL- WATER	Industrial Water	Dissolved Oxygen	IS 3025(Part-38)
105	CHEMICAL- WATER	Industrial Water	Odour	IS 3025 (Part-5)
106	CHEMICAL- WATER	Industrial Water	pH	IS 3025(Part-11)
107	CHEMICAL- WATER	Industrial Water	Suspended Solid	IS 3025 (Part-17)
108	CHEMICAL- WATER	Industrial Water	Total dissolved Solid	IS 3025 (Part-16)
109	CHEMICAL- WATER	Water for construction purpose	Acidity	IS 3025 (Part-22)
110	CHEMICAL- WATER	Water for construction purpose	Alkalinity	IS 3025 (Part-23)
111	CHEMICAL- WATER	Water for construction purpose	Chloride	IS:3025 (Part-32)
112	CHEMICAL- WATER	Water for construction purpose	Inorganic Solid	IS 3025(Part-18)
113	CHEMICAL- WATER	Water for construction purpose	Organic Solid	IS 3025 (Part-18)
114	CHEMICAL- WATER	Water for construction purpose	pH	IS 3025 (Part-11)
115	CHEMICAL- WATER	Water for construction purpose	Sulphate	IS 3025 (PART 24)
116	CHEMICAL- WATER	Water for construction purpose	Sulphate (Gravimetric)	IS 3025 (Part-24)
117	CHEMICAL- WATER	Water for construction purpose	Total Dissolved Solid	IS 3025 (Part-16)
118	CHEMICAL- WATER	Water for construction purpose	Total Hardness	IS 3025 (Part 21)
119	CHEMICAL- WATER	Water for construction purpose	Total Suspended Solid	IS 3025 (Part-17)
120	MECHANICAL- BUILDINGS MATERIALS	Autoclaved cellular concrete block	Compressive strength	IS 6441 (Part-5)
121	MECHANICAL- BUILDINGS MATERIALS	Autoclaved cellular concrete block	Dry density	IS 6441(Part-1)
122	MECHANICAL- BUILDINGS MATERIALS	Autoclaved cellular concrete block	Drying Shrinkage	IS 6441(Part-2)
123	MECHANICAL- BUILDINGS MATERIALS	Autoclaved cellular concrete block	Height	IS 2185 (Part-3)
124	MECHANICAL- BUILDINGS MATERIALS	Autoclaved cellular concrete block	Length	IS 2185 (Part-3)
125	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular Concrete Block	Moisture Content	6441(Part-1)
126	MECHANICAL- BUILDINGS MATERIALS	Autoclaved cellular concrete block	Width	IS 2185 (Part-3)
127	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10% Fines value	IS 2386 (Part-4)

SCOPE OF ACCREDITATION

Laboratory Name : FINEST ENGINEERING LAB, GROUND FLOOR,INDUSTRIAL UNIT NO. 10 C, PALA BUILDING, AMBERNATH, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8959 **Page No** 7 of 14

Validity 17/08/2022 to 16/08/2024 **Last Amended on** 11/10/2022

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
128	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density (Loose)	IS 2386 (Part-3)
129	MECHANICAL- BUILDINGS MATERIALS	Coarse aggregate	Bulk density (rodded)	IS 2386 (Part-3)
130	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (Part-4)
131	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Deleterious Material	IS 2386 (Part-2)
132	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part-1)
133	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness index	IS 2386 (Part-1)
134	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2380 (Part-4)
135	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis (Sieve Size: 2.36 mm to 80 mm)	IS 2386 (Part-1)
136	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part-3)
137	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part -3)
138	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Soundness	IS 2386 (Part-5)
139	MECHANICAL- BUILDINGS MATERIALS	Concrete Core	Compressive Strength	IS 516 (Part-4)
140	MECHANICAL- BUILDINGS MATERIALS	Concrete Cube	ACT	IS 9013
141	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density (Loose)	IS 2386 (Part-3)
142	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk density (rodded)	IS 2386 (Part-3)
143	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Material Finer than 75 Micron	IS 2386 (Part-1)
144	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (Sieve Size: 0.150 mm to 10 mm)	IS 2386 (Part-1)
145	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific gravity	IS 2386 (Part-3)
146	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water absorption	IS 2386 (Part-3)

SCOPE OF ACCREDITATION

Laboratory Name :	FINEST ENGINEERING LAB, GROUND FLOOR,INDUSTRIAL UNIT NO. 10 C, PALA BUILDING, AMBERNATH, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8959	**Page No**	8 of 14
Validity	17/08/2022 to 16/08/2024	**Last Amended on**	11/10/2022

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
147	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Deleterious Material	IS 2386 (Part-2)
148	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Soundness	IS 2386 (Part-5)
149	MECHANICAL- BUILDINGS MATERIALS	Hardened concrete	Compressive strength	IS 516 (Part 1) : Sec-1
150	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Flexural strength	IS 516 (Part 1) : Sec-1
151	MECHANICAL- BUILDINGS MATERIALS	High strength Deformed steel bar	Mass per meter	IS 1786
152	MECHANICAL- BUILDINGS MATERIALS	High strength deformed steel bars	Elongation Percent	IS1608 (Part 1)
153	MECHANICAL- BUILDINGS MATERIALS	High strength deformed steel bars	Ultimate tensile strength	IS 1608 (Part 1)
154	MECHANICAL- BUILDINGS MATERIALS	High strength deformed steel bars	Yeild Stress	IS1608 (Part 1)
155	MECHANICAL- BUILDINGS MATERIALS	High strength performed steel bars	Bend test	IS:1599
156	MECHANICAL- BUILDINGS MATERIALS	High strength performed steel bars	Rebend Test	IS:1786
157	MECHANICAL- BUILDINGS MATERIALS	Hollow and Solid Concrete Blocks	Compressive Strength	IS 2185 (Part 1) - Annex D
158	MECHANICAL- BUILDINGS MATERIALS	Hollow and Solid Concrete Blocks	Dry Density	IS 2185 (Part 1) -Annex C
159	MECHANICAL- BUILDINGS MATERIALS	Hollow and Solid Concrete Blocks	Drying Shrinkage	IS 2185 (Part 1) -Annex F
160	MECHANICAL- BUILDINGS MATERIALS	Hollow and Solid Concrete Blocks	Height	IS 2185 (Part 1)-Annex B
161	MECHANICAL- BUILDINGS MATERIALS	Hollow and Solid Concrete Blocks	Length	IS 2185 (Part 1) -Annex B
162	MECHANICAL- BUILDINGS MATERIALS	Hollow and Solid Concrete Blocks	Moisture Movement	IS 2185 (Part 1) - Annex G
163	MECHANICAL- BUILDINGS MATERIALS	Hollow and Solid Concrete Blocks	Water Absorption	IS 2185 (Part 1) -Annex D
164	MECHANICAL- BUILDINGS MATERIALS	Hollow and Solid Concrete Blocks	Width	IS 2185 (Part 1) -Annex B
165	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Compressive strength	IS 15658

SCOPE OF ACCREDITATION

Laboratory Name : FINEST ENGINEERING LAB, GROUND FLOOR,INDUSTRIAL UNIT NO. 10 C, PALA BUILDING, AMBERNATH, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8959 **Page No** 9 of 14

Validity 17/08/2022 to 16/08/2024 **Last Amended on** 11/10/2022

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
166	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Water absorption	IS 15658
167	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Couplers for Mechanical Splices of Bars in Concrete	Static Tensile Test	IS 16172 : Annex B
168	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Material	% Elongation	IS 1608 (Part 1)
169	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Material	% Reduction in area	IS 1608 (Part 1)
170	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Material	0.2 % Proof Stress	IS 1608 (Part 1)
171	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Material	Bend (20, 32, 36,41, 44, 48,50 56, 60, 64, 70, 72, 75, 80, 84, 96, 100, 112, 120, 125, 128, 140, 150, 160, 175, 192, 224, 240, 250, 256, 280, 320.)	ASTM A 370
172	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Material	Bend (20, 32, 36,41, 44, 48,50 56, 60, 64, 70, 72, 75, 80, 84, 96, 100, 112, 120, 125, 128, 140, 150, 160, 175, 192, 224, 240, 250, 256, 280, 320.)	ASTM E 290
173	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Material	Bend (20, 32, 36,41, 44, 48,50 56, 60, 64, 70, 72, 75, 80, 84, 96, 100, 112, 120, 125, 128, 140, 150, 160, 175, 192, 224, 240, 250, 256, 280, 320.)	IS 1599
174	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Material	Charpy V Notch Impact Test (35 °C to -196°C)	ISO 148-1
175	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Material	Macro examination	ASTM E 340
176	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Material	Macro examination	ASTM E 381
177	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Material	Nick Break Test	API 1104

SCOPE OF ACCREDITATION

Laboratory Name :	FINEST ENGINEERING LAB, GROUND FLOOR,INDUSTRIAL UNIT NO. 10 C, PALA BUILDING, AMBERNATH, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8959	**Page No**	10 of 14
Validity	17/08/2022 to 16/08/2024	**Last Amended on**	11/10/2022

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
178	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	Rcokwell Hardness	ISO 6508
179	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	Reverse Bend Test (20, 32, 36,41, 44, 48,50 56, 60, 64, 70, 72, 75, 80, 84, 96, 100, 112, 120, 125, 128, 140, 150, 160, 175, 192, 224, 240, 250, 256, 280, 320.)	ASTM A 1016/A 1016M
180	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	Rockwell Hardness	ASTM A 370
181	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	Rockwell Hardness	ASTM A 370
182	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	Rockwell Hardness	ASTM E18
183	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	Rockwell Hardness	ASTM E18
184	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	Rockwell Hardness	IS 1586 (Part 1)
185	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	Tensile Strength	IS 1608 (Part 1)
186	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Material	Transverse Tensile Test	API 1104
187	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ferrous Metal	Reverse Bend Test (20, 32, 36,41, 44, 48,50 56, 60, 64, 70, 72, 75, 80, 84, 96, 100, 112, 120, 125, 128, 140, 150, 160, 175, 192, 224, 240, 250, 256, 280, 320.)	ASTM A 370
188	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Hex Nut	Proof Load Test	IS 1367 (part 6)
189	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal, alloy & stainless steel	Hardness vickers	IS 1501(Part-1)

SCOPE OF ACCREDITATION

Laboratory Name : FINEST ENGINEERING LAB, GROUND FLOOR,INDUSTRIAL UNIT NO. 10 C, PALA BUILDING, AMBERNATH, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8959 **Page No** 11 of 14

Validity 17/08/2022 to 16/08/2024 **Last Amended on** 11/10/2022

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190	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal, alloy & welding rod electrode & filler metals	Charpy impact test	IS 1757
191	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal, alloy,welding rod electrodes & filler metals	Izod impact	IS 1598
192	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Mild steel, wire, rod & pin	Shear Strength	IS 5242
193	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Material	% Reduction in area	IS 1608 (Part 1)
194	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Material	0.2 % Proof Stress	IS 1608 (Part 1)
195	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Material	Bend Test (20, 32, 36,41, 44, 48,50 56, 60, 64, 70, 72, 75, 80, 84, 96, 100, 112, 120, 125, 128, 140, 150, 160, 175, 192, 224, 240, 250, 256, 280, 320.)	IS 1599
196	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Material	Bend Test (20, 32, 36,41, 44, 48,50 56, 60, 64, 70, 72, 75, 80, 84, 96, 100, 112, 120, 125, 128, 140, 150, 160, 175, 192, 224, 240, 250, 256, 280, 320.)	IS 2329
197	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Material	Rockwell Hardness	ASTM E 18
198	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Material	Rockwell Hardness	ASTM E 18
199	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non Ferrous Material	Yield Stress	IS 1608 (Part 1)
200	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pipe and Tubes	Bend Test (20, 32, 36,41, 44, 48,50 56, 60, 64, 70, 72, 75, 80, 84, 96, 100, 112, 120, 125, 128, 140, 150, 160, 175, 192, 224, 240, 250, 256, 280, 320.)	IS 2329
201	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pipe and Tubes	Flattening	IS 2328

SCOPE OF ACCREDITATION

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8959	**Page No**	12 of 14
Validity	17/08/2022 to 16/08/2024	**Last Amended on**	11/10/2022

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
202	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pipe and Tubes	Flattening Test	ASTM A 999/A999M
203	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pipe and Tubes	Flattening Test	IS 2328
204	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pipe and Tubes	Reverse Flattening Test	ASTM A 370
205	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Pipes and Tubes	Flattening Test	ASTM A 370
206	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural steel	Bend test(20, 32, 36,41, 44, 48,50 56, 60, 64, 70, 72, 75, 80, 84, 96, 100, 112, 120, 125, 128, 140, 150, 160, 175, 192, 224, 240, 250, 256, 280, 320.)	IS:1599
207	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural steel	Hardness rockwell	IS:1586 (Part-1)
208	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in metal	Bend Test (20, 32, 36,41, 44, 48,50 56, 60, 64, 70, 72, 75, 80, 84, 96, 100, 112, 120, 125, 128, 140, 150, 160, 175, 192, 224, 240, 250, 256, 280, 320.)	API 1104
209	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metals	Bend Test : Root, face and Side bend (20, 32, 36,41, 44, 48,50 56, 60, 64, 70, 72, 75, 80, 84, 96, 100, 112, 120, 125, 128, 140, 150, 160, 175, 192, 224, 240, 250, 256, 280, 320.)	ASME BPVC Sec IX
210	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Weld in Metals	Transverse Tensile Strength	ASME BPVC Sec IX
211	MECHANICAL- SOIL AND ROCK	Soil and Granular Material	CBR	IS 2720 (Part 16)
212	MECHANICAL- SOIL AND ROCK	Soil and Granular Material	Free Swell Index	IS 2720 (Part 40)
213	MECHANICAL- SOIL AND ROCK	Soil and Granular Material	Grain Size Analysis (Gravel-4.75mm to 100mm)	IS 2720 (Part 4)
214	MECHANICAL- SOIL AND ROCK	Soil and Granular Material	Grain Size Analysis (Sand-0.075mm to 2 mm)	IS 2720 (Part 4)

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8959	**Page No**	13 of 14
Validity	17/08/2022 to 16/08/2024	**Last Amended on**	11/10/2022

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215	MECHANICAL- SOIL AND ROCK	Soil and Granular Material	Grain Size Analysis of % fines (0.075mm below)	IS 2720 (Part 4)
216	MECHANICAL- SOIL AND ROCK	Soil and Granular Material	Heavy Compaction- MDD	IS 2720 (Part 8)
217	MECHANICAL- SOIL AND ROCK	Soil and Granular Material	Heavy compaction- OMC	IS 2720 (Part 8)
218	MECHANICAL- SOIL AND ROCK	Soil and Granular Material	Light Compaction- MDD	IS 2720 (Part 7)
219	MECHANICAL- SOIL AND ROCK	Soil and Granular Material	Light Compaction- OMC	IS 2720 (Part 7)
220	MECHANICAL- SOIL AND ROCK	Soil and Granular Material	Liquid Limit	IS 2720 (Part-5)
221	MECHANICAL- SOIL AND ROCK	Soil and Granular Material	Plastic Limit	IS 2720 (Part 5)
222	MECHANICAL- SOIL AND ROCK	Soil and Granular Material	Specific Gravity	IS 2720 (Part 3) : sec 1
223	MECHANICAL- SOIL AND ROCK	Soil and Granular Material	Water Content	IS 2720 (Part 2)
224	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Carbonation Test	Depth of Carbonation	IS 516 (Part-5) Sec-3-5
225	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Half Cell Potential	Half Cell Potential	ASTM C 876
226	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Half Cell Potential	Half Cell Potential	IS 516 (Part-5) : Sec 2

SCOPE OF ACCREDITATION

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8959	**Page No**	14 of 14
Validity	17/08/2022 to 16/08/2024	**Last Amended on**	11/10/2022

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Site Facility				
1	MECHANICAL- SOIL AND ROCK	Soil and Granular Material	Field Density (By core cutter method)	IS 2720 (Part-29)
2	MECHANICAL- SOIL AND ROCK	Soil and Granular Material	Field Density(By Sand replacement Method)	IS 2720 (Part 28)
3	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Carbonation Test	Depth of Carbonation	IS 516 (Part-5) Sec-3-5
4	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete Structure	Rebound Hammer	IS 516 (Part-5)-Sec-4
5	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Concrete Structure	Ultrasonic Pulse Velocity	IS 516 (Part-5) : Sec-1
6	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Half Cell Potential	Half Cell Potential	ASTM C 876
7	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Half Cell Potential	Half Cell Potential	IS 516 (Part-5) : Sec 2