National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : UNITECH TESTING LABORATORY, NEW BY PASS ROAD, SHIVA JEE NAGAR (EAST INDRA NAGAR), KANKARBAGH, PATNA, BIHAR, 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	Admixture	Ash Content	IS 9103
2	CHEMICAL- BUILDING MATERIAL	Admixture	Chloride	IS 6925
3	CHEMICAL- BUILDING MATERIAL	Admixture	Dry material Content (DMC)	IS 9103
4	CHEMICAL- BUILDING MATERIAL	Admixture	pH	IS:9103
5	CHEMICAL- BUILDING MATERIAL	Admixture	Relative density	IS 9103
6	CHEMICAL- BUILDING MATERIAL	Aggregate & Concrete	Sulphate	BS 1881 (P-124)
7	CHEMICAL- BUILDING MATERIAL	Aggregate and concrete	chloride	BS 1881 (p-124)
8	CHEMICAL- BUILDING MATERIAL	Cement - OPC	Al203	IS 4032
9	CHEMICAL- BUILDING MATERIAL	Cement - OPC	Fe2O3	IS 4032
10	CHEMICAL- BUILDING MATERIAL	Cement - OPC	Insoluble Residue (IR)	IS 4032
11	CHEMICAL- BUILDING MATERIAL	Cement - OPC	LOI	IS 4032
12	CHEMICAL- BUILDING MATERIAL	Cement - OPC	Silica	IS 4032
13	CHEMICAL- BUILDING MATERIAL	Cement - PPC	LOI	IS 4032
14	CHEMICAL- BUILDING MATERIAL	Cement - PPC	SO3	IS 4032
15	CHEMICAL- BUILDING MATERIAL	Cement -OPC	Chloride (Cl)	IS 12423
16	CHEMICAL- BUILDING MATERIAL	Cement OPC	CaO	IS 4032
17	CHEMICAL- BUILDING MATERIAL	Cement OPC	MgO	IS 4032
18	CHEMICAL- BUILDING MATERIAL	Cement OPC	SO3	Is 4032

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19	CHEMICAL- BUILDING MATERIAL	cement PPC	Chloride(Cl)	IS 4032
20	CHEMICAL- BUILDING MATERIAL	cement PPC	Insoluble Residue	IS 4032
21	CHEMICAL- BUILDING MATERIAL	cement- PPC	MgO	IS 4032
22	CHEMICAL- BUILDING MATERIAL	stone Aggregate	Alkali Aggregate Reactivity	IS 2386 (p-7)
23	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Non Ferrous Alloys (Aluminum)	Anodic Coating	IS 5523
24	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Metallic Coating Ferrous And non Ferrous Alloys	Power Coating	IS 101(p-3/ section-2)
25	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Metallic Coating Ferrous and non Ferrous	uniformity of Zinc Coating	IS 2633
26	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	metallic coatings Ferrous and non Ferrous Alloys	Mass of Zinc Coatings	IS 6745
27	CHEMICAL- METALS & ALLOYS	Low Alloys and Plain carbon steel	Nickle	IS 228 (P-5)
28	CHEMICAL- METALS & ALLOYS	Low Alloys Steel and Plain Carbon	Silicon	IS 228 (P-8)
29	CHEMICAL- METALS & ALLOYS	Low Alloys steel and plain carbon steel	Carbon	IS 228 (p-1)
30	CHEMICAL- METALS & ALLOYS	Low Alloys Steel and Plain Carbon Steel	Chromium	IS: 228(P-5)
31	CHEMICAL- METALS & ALLOYS	Low Alloys Steel and Plain Carbon Steel	Manganese	IS 228 (P-2)
32	CHEMICAL- METALS & ALLOYS	Low Alloys Steel and Plain Carbon Steel	Molybdenum	IS: 228{P-4}
33	CHEMICAL- METALS & ALLOYS	Low Alloys Steel and plain carbon Steel	Phosphorus	IS 228 (P-3)
34	CHEMICAL- METALS & ALLOYS	Low Alloys Steel and Plain Carbon Steel	Sulphur	IS 228 (P-9)
35	CHEMICAL- METALS & ALLOYS	Mild steel	Carbon	IS 228 (P-1)

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36	CHEMICAL- METALS & ALLOYS	Mild Steel	Manganese	Is 228 (P-2)
37	CHEMICAL- METALS & ALLOYS	Mild Steel	Nickle	IS:228{P-5)
38	CHEMICAL- METALS & ALLOYS	Mild Steel	Phosphorus	Is 228 (P-3)
39	CHEMICAL- METALS & ALLOYS	Mild Steel	Silicon	IS 228 (P-4)
40	CHEMICAL- METALS & ALLOYS	Mild Steel	sulphur	IS 228 (P-9)
41	CHEMICAL- METALS & ALLOYS	stainless Steel	Carbon	IS 228 (p-1)
42	CHEMICAL- METALS & ALLOYS	stainless Steel	Chromium	IS 228 (p-6)
43	CHEMICAL- METALS & ALLOYS	stainless steel	manganese	IS 228(p-2)
44	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickle	IS 228 (p-5)
45	CHEMICAL- METALS & ALLOYS	Stainless Steel	phosphorus	IS 228 (p-3)
46	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon	IS 228 (P- 4)
47	CHEMICAL- METALS & ALLOYS	Stainless Steel	sulphur	IS 228 (p-9)
48	CHEMICAL- SOIL AND ROCK	Soil	Carbonate	IS 2720 (P-23)
49	CHEMICAL- SOIL AND ROCK	soil	Organic Matter	IS 2720 (P-22/sec 1)
50	CHEMICAL- SOIL AND ROCK	soil	pH	IS 2720 (P-26)
51	CHEMICAL- SOIL AND ROCK	Soil	Sulphate(SO4)	IS 2720 (P-27)
52	CHEMICAL- SOIL AND ROCK	Soil	Water content	IS 2720 (P2)
53	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Ductility	IS 1208
54	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Flash/Fire Point	IS 1209

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55	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration	IS 1203
56	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205
57	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix DBM/ BM/ BC	Flow value	ASTM D-6927
58	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix DBM/BM/BC	Impact value	IS 2386 (P-4)
59	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix DBM/ BM/ BC	Density	ASTM D-2726
60	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix DBM/ BM/BC	Los Angeles Abrasion Value	IS 2386 (P-4)
61	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix DBM/ BM/BC	stripping value	IS 6241
62	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix DBM/BM/BC	Bitumen content	IRC SP -11
63	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix DBM/BM/BC	Gradation	IS 2386 (P-1)
64	MECHANICAL- BUILDINGS MATERIALS	Bituminous Mix DBM/BM/BC	Marshall Stability	ASTM D 6927
65	MECHANICAL- BUILDINGS MATERIALS	Bricks	Compressive strength	IS:3495(P-1)
66	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension (Length)	IS:1077
67	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension(Height)	IS 1077
68	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension(Width)	IS 1077
69	MECHANICAL- BUILDINGS MATERIALS	Bricks	Efflorescence	IS:3495(P-3)
70	MECHANICAL- BUILDINGS MATERIALS	Bricks	Water absorption	IS:3495(P-2)
71	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10% Fines Value	IS:2386 (P-4)
72	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 (P-3)
73	MECHANICAL- BUILDINGS MATERIALS	Coarse aggregate	Crushing Value	IS:2386 (P-4)

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74	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (P-1)
75	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (P-1)
76	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact value	IS 2386(P-4)
77	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Los Angeles Abrasion value	IS 2386(P-4)
78	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis (80mm to 2.36 mm)	IS 2386(P-1)
79	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness MgSO4 &Na2SO4	IS 2386 (P-5)
80	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386(P-3)
81	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Total Deleterious Material	IS 2386(P-1 & 2)
82	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (P-3)
83	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386(p-3)
84	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Organic Impurities	IS 2386 (P-1 & 2)
85	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (10 mm to 0.150mm)	IS 2386 (p-1)
86	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness MgSO4 &Na2SO4	IS 2386 (P-5)
87	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386(P-3)
88	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Total Deleterious Material	IS:2386 (P-1 & 2)
89	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS:2386 (P-3)
90	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Compressive strength of Cores and Cubes	IS 516
91	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Flexural Strength of Beam	IS 516
92	MECHANICAL- BUILDINGS MATERIALS	OPC/PPC	Compressive strength	IS:4031 (P-6)

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93	MECHANICAL- BUILDINGS MATERIALS	OPC/PPC	Consistency	IS:4031(P-4)
94	MECHANICAL- BUILDINGS MATERIALS	OPC/PPC	Density	IS:4031(P-11)
95	MECHANICAL- BUILDINGS MATERIALS	OPC/PPC	Final Setting Time	IS: 4031(P-5)
96	MECHANICAL- BUILDINGS MATERIALS	OPC/PPC	Fineness By blain’s air permeability	IS:4031(P-2)
97	MECHANICAL- BUILDINGS MATERIALS	OPC/PPC	Initial Setting time	IS: 4031(P-5)
98	MECHANICAL- BUILDINGS MATERIALS	OPC/PPC	Soundness by Autoclave expansion	IS 4031(Part-3)
99	MECHANICAL- BUILDINGS MATERIALS	OPC/PPC	Soundness By Le Chatelier Expansion	IS 4031(Part-3)
100	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Compressive strength	IS:15658
101	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Dimension (Thickness)	IS 15658
102	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Dimension (width)	IS 15658
103	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Dimension(Length	IS 15658
104	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Thickness of wearing layer	IS 15658
105	MECHANICAL- BUILDINGS MATERIALS	Paver block	Water Absorption	IS: 15658
106	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous Metal	Brinell Hardness(BHN)	IS 1500 (P-1)
107	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous & Non Ferrous metal	Rockwell Hardness (HRB/ HRC)	IS 1586 (P-1)
108	MECHANICAL- MECHANICAL PROPERTIES OF METALS	H.T. Strand wire	Breaking load	IS 1608 (PART 1)
109	MECHANICAL- MECHANICAL PROPERTIES OF METALS	H.T. Strand Wire	Lay length	IS 14268

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110	MECHANICAL-MECHANICAL PROPERTIES OF METALS	H.T. Strand Wire	Mass/ kg/ km	IS 14268
111	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Hollow Steel Section	Elongation	IS 1608 (part 1)
112	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Hollow Steel section	mass	IS 4923
113	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Hollow Steel Section	Tensile Strength	IS 1608 (part 1)
114	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Hollow Steel Section	Yield Stress	IS 1608 (part 1)
115	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Splicing Coupler	Breaking load	IS 1608 (part 1)
116	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Tube / G.I. Pipe/ M.S.Pipe	Dimension	IS 1239 (P-1)
117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Tube/ G.I. Pipe/ M.S. Pipe(Is : 1169 & 1239)	mass , kg/m	IS 1239(P-1)
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Tube/G.I. pipe/ M.S.pipe (IS : 1161 & 1239)	Tensile Strength	IS 1608 part 1
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Tube/G.I. pipe/M.S. pipe (IS : 1161 & 1239)	Elongation %	IS 1608 part 1
120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel tube/G.I.pipe/ M.S. pipe (IS: 1161 &1239)	Flattening Test	IS 2328
121	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural steel Beam / Plate/Angle/ Channel/ Round Bar	Mass per weight	IS 808
122	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel Beam/ Plate/ Angle/ Channel/ Round Bar	Bend Test (8 to 40 mm)	IS 1599
123	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel Beam/ Plate/ Angle/ Channel/ Round Bar	Elongation, %	IS 1608 part 1

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124	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel Beam/ Plate/Angle/Channel/round Bar	Tensile strength	IS 1608 part 1
125	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Structural Steel Beam/Plate/ Angle/ channel/Round Bar	Yield Stress	IS 1608 part 1
126	MECHANICAL-MECHANICAL PROPERTIES OF METALS	TMT bar/ Tor Steel	Bend Test (8 to 40 mm)	IS 1599
127	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tmt Bar/ Tor Steel	Elongation	IS 1608 part 1
128	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tmt Bar/ Tor Steel	Mass/ meter	IS 1786
129	MECHANICAL-MECHANICAL PROPERTIES OF METALS	TMT Bar/ Tor Steel	Rebend test (8 to 40 mm)	IS 1786
130	MECHANICAL-MECHANICAL PROPERTIES OF METALS	TMT Bar/ TOR Steel	Tensile Strength	IS 1608 part 1
131	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Tmt bar/Tor Steel	Yield Stress	IS 1608 part 1
132	MECHANICAL- SOIL AND ROCK	Bentonite	Density	ASTMD 4380
133	MECHANICAL- SOIL AND ROCK	Bentonite	Fitness by dry sieve (150 to 75 Micron)	IS 6186
134	MECHANICAL- SOIL AND ROCK	Bentonite	Free Swelling Index	IS 2720 (pt-40)
135	MECHANICAL- SOIL AND ROCK	Bentonite	Liquid Limit	IS : 2720 (pt-5)
136	MECHANICAL- SOIL AND ROCK	Bentonite	moisture contemt	IS 6186
137	MECHANICAL- SOIL AND ROCK	Bentonite	sand content	IS 6186
138	MECHANICAL- SOIL AND ROCK	Granite Stone/ stone	Compressive strength	IS 1121 (P-1)
139	MECHANICAL- SOIL AND ROCK	Granite Stone/ stone	Density	IS 13030

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140	MECHANICAL- SOIL AND ROCK	Granite Stone/ stone	Hardness	IS 13630 (P-13)
141	MECHANICAL- SOIL AND ROCK	Granite Stone/ stone	Specific gravity	IS 1124
142	MECHANICAL- SOIL AND ROCK	Granite Stone/ stone	Water Absorption	IS 1124
143	MECHANICAL- SOIL AND ROCK	GSB / WMM	Impact Value	IS 2386 (p-4)
144	MECHANICAL- SOIL AND ROCK	GSB / WMM	Loss Angeles abrasion value	IS 2386 (P-4)
145	MECHANICAL- SOIL AND ROCK	GSB/ WMM	Sieve Analysis	IS 2386 (P-1)
146	MECHANICAL- SOIL AND ROCK	GSB/ WMM	California Bearing Ratio(CBR)	IS 2720 (p-16)
147	MECHANICAL- SOIL AND ROCK	GSB/ WMM	Proctor Compaction	IS 2720(p-8)
148	MECHANICAL- SOIL AND ROCK	GSB/WMM	Liquid Limit	IS 2720 (p-5)
149	MECHANICAL- SOIL AND ROCK	GSB/WMM	Plastic limit	IS 2720 (p-5)
150	MECHANICAL- SOIL AND ROCK	Rock	Density	IS 13030
151	MECHANICAL- SOIL AND ROCK	Rock	Hardness	IS 13630 (p-13)
152	MECHANICAL- SOIL AND ROCK	Rock	Unconfined Compressive Strength	IS 9047
153	MECHANICAL- SOIL AND ROCK	Rock	Water content	Is 13030
154	MECHANICAL- SOIL AND ROCK	Soil	California Bearing Ratio (CBR)	IS:2720(P-16)
155	MECHANICAL- SOIL AND ROCK	soil	Direct shear Test (Cohesion, Angle of friction))	IS 2720 (P-13)
156	MECHANICAL- SOIL AND ROCK	Soil	Free swelling	IS 2720 (Part-40)
157	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction OMC	IS:2720(P-8)
158	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction MDD	IS:2720(P-8)

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159	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit(Casagranade method)	IS:2720(P-5)
160	MECHANICAL- SOIL AND ROCK	Soil	Moisture content	IS 2720 (Part–2)
161	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS:2720(P-5)
162	MECHANICAL- SOIL AND ROCK	Soil	Plasticity Index	IS 2720 (Part-5)
163	MECHANICAL- SOIL AND ROCK	Soil	Sieve Analysis	IS:2720(P-4)
164	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS:2720(P-3,Sec. I & II)

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Site Facility				
1	MECHANICAL- SOIL AND ROCK	soil	Field dry density (By core cutter)	IS 2720(P-29)
2	MECHANICAL- SOIL AND ROCK	soil	field dry density(By Sand Replace method)	IS 2720 (P-28)