National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ADITI R&D SERVICES-TESTING LABORATORY, PLOT NO. I-B-17(P), SINDRI INDUSTRIAL AREA, P.O.-DOMGARH, DHANBAD, JHARKHAND, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 14/08/2021 to 13/08/2023 **Last Amended on** 27/08/2021

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- ATMOSPHERIC POLLUTION	AMBIENT AIR	OXIDES OF NITROGEN (NO2)	IS 5182 (Part-6)
2	CHEMICAL- ATMOSPHERIC POLLUTION	AMBIENT AIR QUALITY	PARTICULATE MATTER (PM10)	IS 5182 (Part 23)
3	CHEMICAL- ATMOSPHERIC POLLUTION	AMBIENT AIR QUALITY	SULPHUR DIOXIDE	IS 5182 (Part 2)
4	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Noise Level	Noise Level	IS 9989
5	CHEMICAL- ATMOSPHERIC POLLUTION	Particulate matter	PM 2.5	NAAQS Monitoring and Analysis of PM2.5 Guidelines Vol. 1 of CPCB at Sl. No. 4 , Pg. No, 15-30 by Gravimetric Method
6	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Oxides of Nitrogen	IS 11255 (Part 7)
7	CHEMICAL- ATMOSPHERIC POLLUTION	STACK EMISSION	PARTICULATE MATTER	IS 11255 (Part 1)
8	CHEMICAL- ATMOSPHERIC POLLUTION	Stack Emission	Sulphur Dioxide	IS 11255 (Part 2)
9	CHEMICAL- BUILDING MATERIAL	Cement OPC43, OPC53, PPC, PSC	Insoluble Residue	IS 4032
10	CHEMICAL- BUILDING MATERIAL	Cement OPC43, OPC53, PPC, PSC	Loss on Ignition	IS 4032
11	CHEMICAL- BUILDING MATERIAL	Cement OPC43, OPC53, PPC, PSC	Magnesium Oxide	IS 4032
12	CHEMICAL- BUILDING MATERIAL	Cement OPC43, OPC53, PPC, PSC	Sulphuric Anhydride	IS 4032
13	CHEMICAL- METALS & ALLOYS	Plain Carbin & Alloy Steel	Carbon	IS 228 (Part 1)
14	CHEMICAL- METALS & ALLOYS	Plain Carbon & Alloy Steel	Phosphorous	IS 228 (Part 3)
15	CHEMICAL- METALS & ALLOYS	Plain Carbon & Alloy Steel	Sulphur	IS 228 (Part 9)
16	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Biochemical Oxygen Demand	IS 3025 (Part 44)
17	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)

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18	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Oil & Grease	IS 3025 (Part 39) Soxhelt Extraction Method
19	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	pH	IS 3025 (Part 11)
20	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Suspended Solids	IS 3025 (Part 17)
21	CHEMICAL- WATER	Construction Water	Acidity as CaCO3	IS 3025 (Part 22)
22	CHEMICAL- WATER	Construction Water	Alkalinity as CaCO3	IS 3025 (Part 23)
23	CHEMICAL- WATER	Construction Water	Chloride	IS 3025 (Part 32) Argentometric Method
24	CHEMICAL- WATER	Construction Water	Inorganic Solids	IS 3025 (Part 16)
25	CHEMICAL- WATER	Construction Water	pH	IS 3025 (Part 11)
26	CHEMICAL- WATER	Construction Water	Sulphate	IS 3025 (P-24) Turbidity Method
27	CHEMICAL- WATER	Construction Water	Total Suspended Solids	IS 3025 (Part 17)
28	CHEMICAL- WATER	Drinking Water	Alkalinity as CaCO3	IS 3025 (Part 23)
29	CHEMICAL- WATER	Drinking Water	Biochemical Oxygen Demand (BOD)	IS 3025 (Part 44)
30	CHEMICAL- WATER	Drinking Water	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)
31	CHEMICAL- WATER	Drinking Water	Chloride	IS 3025 (Part 32) Argentometric Method
32	CHEMICAL- WATER	Drinking Water	Conductivity at 25 Deg. C	IS 3025 (Part 14)
33	CHEMICAL- WATER	Drinking Water	Iron	IS 3025 (Part 53) 1,10 Phenanthroline Method
34	CHEMICAL- WATER	Drinking Water	Nitrate	IS 3025 (Part 34) Chromotropic Acid Method
35	CHEMICAL- WATER	Drinking Water	Oil & Grease	IS 3025 (Part 39) Partition Gravimetric Method
36	CHEMICAL- WATER	Drinking Water	pH	IS 3025 (Part 11)
37	CHEMICAL- WATER	Drinking Water	Sulphate	IS 3025 (Part 24) Turbidity Method
38	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	IS 3025 (Part 16)
39	CHEMICAL- WATER	Drinking Water	Total Hardness as CaCO3	IS 3025 (Part 21) EDTA Method
40	CHEMICAL- WATER	Drinking Water	Total Suspended Solids	IS 3025 (Part 17)

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41	CHEMICAL- WATER	Drinking Water	Turbidity	IS 3025 (Part 10)
42	CHEMICAL- WATER	Water for construction purpose	Organic Solids	IS 3025 Part 18
43	MECHANICAL- BUILDINGS MATERIALS	BURNT CLAY BUILDING BRICKS/FLYASH BRICKS	COMPRESSIVE STRENGTH	IS 3495(P-1)
44	MECHANICAL- BUILDINGS MATERIALS	BURNT CLAY BUILDING BRICKS/FLYASH BRICKS	Dimension-Height	IS 1077
45	MECHANICAL- BUILDINGS MATERIALS	BURNT CLAY BUILDING BRICKS/FLYASH BRICKS	Dimension-LENGTH	IS 1077
46	MECHANICAL- BUILDINGS MATERIALS	BURNT CLAY BUILDING BRICKS/FLYASH BRICKS	Dimension-Width	IS 1077
47	MECHANICAL- BUILDINGS MATERIALS	BURNT CLAY BUILDING BRICKS/FLYASH BRICKS	Efflorescence	IS 3495(P-3)
48	MECHANICAL- BUILDINGS MATERIALS	BURNT CLAY BUILDING BRICKS/FLYASH BRICKS	WATER ABSORPTION	IS 3495(P-2)
49	MECHANICAL- BUILDINGS MATERIALS	Cement OPC43, OPC53, PPC, PSC	Specific Gravity	IS 4031
50	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Cube/ Core	Compressive Strength	IS 516
51	MECHANICAL- BUILDINGS MATERIALS	Cement OPC43, OPC53, PPC, PSC	COMPRESSIVE STRENGTH- 3 Days	IS 4031(P-6)
52	MECHANICAL- BUILDINGS MATERIALS	Cement OPC43, OPC53, PPC, PSC	COMPRESSIVE STRENGTH- 7 Days	IS 4031(P-6)
53	MECHANICAL- BUILDINGS MATERIALS	Cement OPC43, OPC53, PPC, PSC	COMPRESSIVE STRENGTH-28 Days	IS 4031(P-6)
54	MECHANICAL- BUILDINGS MATERIALS	Cement OPC43, OPC53, PPC, PSC	CONSISTENCY	IS 4031(P-4)
55	MECHANICAL- BUILDINGS MATERIALS	Cement OPC43, OPC53, PPC, PSC	FINAL SETTING TIME	IS 4031(P-5)
56	MECHANICAL- BUILDINGS MATERIALS	Cement OPC43, OPC53, PPC, PSC	Fineness by Blain's Method	IS 4031(P-2)
57	MECHANICAL- BUILDINGS MATERIALS	Cement OPC43, OPC53, PPC, PSC	INITIAL SETTING TIME	IS 4031(P-5)
58	MECHANICAL- BUILDINGS MATERIALS	Cement OPC43, OPC53, PPC, PSC	SOUNDNESS-LE-CHATTELIER	IS 4031(P-3)
59	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Scratch Hardness	IS 13630
60	MECHANICAL- BUILDINGS MATERIALS	Ceramic/Vitrified/Floor/Wall	CHEMICAL RESISTANCE	IS 13630 (PART-VII)

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61	MECHANICAL- BUILDINGS MATERIALS	Ceramic/Vitrified/Floor/Wall	WATER ABSORPTION	IS 13630 (PART-II)
62	MECHANICAL- BUILDINGS MATERIALS	COARSE	10 % FINE VALUE	IS 2386(P-4)
63	MECHANICAL- BUILDINGS MATERIALS	COARSE	CRUSHING VALUE	IS 2386(P-4)
64	MECHANICAL- BUILDINGS MATERIALS	COARSE	ELONGATION INDEX	IS 2386(P-1)
65	MECHANICAL- BUILDINGS MATERIALS	COARSE	FLAKINESS INDEX	IS 2386(P-1)
66	MECHANICAL- BUILDINGS MATERIALS	COARSE	IMPACT VALUE	IS 2386(P-4)
67	MECHANICAL- BUILDINGS MATERIALS	COARSE	SIEVE ANALYSIS- (10 mm Size)	IS 2386(P-1)
68	MECHANICAL- BUILDINGS MATERIALS	COARSE	SIEVE ANALYSIS (63 mm)	IS 2386 (P-1)
69	MECHANICAL- BUILDINGS MATERIALS	COARSE	SIEVE ANALYSIS-(20mm Size)	IS 2386 (P-1)
70	MECHANICAL- BUILDINGS MATERIALS	COARSE	SPECIFIC GRAVITY	IS 2386(P-3)
71	MECHANICAL- BUILDINGS MATERIALS	COARSE	WATER ABSORPTION	IS 2386(P-3)
72	MECHANICAL- BUILDINGS MATERIALS	coarse aggreagtes	Bulk Density	IS 2386 (P-3)
73	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Deleterious Materials	IS 2386 (P-2)
74	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Organic Impurities	IS 2386 (P-2)
75	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Surface Moisture	IS 2386 (P-3)
76	MECHANICAL- BUILDINGS MATERIALS	Ferrous material alloy & products (TMT Bars)	% Elongation	IS 1608 (P-1):
77	MECHANICAL- BUILDINGS MATERIALS	Ferrous material alloys & products (TMT Bars)	Yield Strength (0.2% Proof Stress)	IS 1608(P-1)
78	MECHANICAL- BUILDINGS MATERIALS	Ferrous Material Reinforced Bar	Rebend	IS 1786
79	MECHANICAL- BUILDINGS MATERIALS	Ferrous materials, alloys & products (TMT Bars)	Ultimate Tensile Strength	IS 1608 (P-1)

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80	MECHANICAL- BUILDINGS MATERIALS	FERROUS, NON FERROUS(Cu& Al)MATERIALS, WELDED JOINTS & TMT BAR	BEND	IS 1599: 2012
81	MECHANICAL- BUILDINGS MATERIALS	FINE	SIEVE ANALYSIS- (1.18 mm Size)	IS 2386(P-1)
82	MECHANICAL- BUILDINGS MATERIALS	FINE	SIEVE ANALYSIS (300 micron Size)	IS 2386(P-1)
83	MECHANICAL- BUILDINGS MATERIALS	FINE	SIEVE ANALYSIS (4.75 mm Size)	IS 2386 (P-1)
84	MECHANICAL- BUILDINGS MATERIALS	FINE	SIEVE ANALYSIS (600 micron Size)	IS 2386(P-1)
85	MECHANICAL- BUILDINGS MATERIALS	FINE	SIEVE ANALYSIS-(2.36mm Size)	IS 2386(P-1)
86	MECHANICAL- BUILDINGS MATERIALS	FINE	SPECIFIC GRAVITY	IS 2386(P-3)
87	MECHANICAL- BUILDINGS MATERIALS	FINE AGGREGATE	BULK DENSITY	2386(P-3)
88	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Deleterious Materials	IS 2386(P-2)
89	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Free Moisture	IS 2386 (P-3)
90	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Organic Impurities	IS 2386 (P-2)
91	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Surface Moisture	IS 2386 (P-3)
92	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (P-3)
93	MECHANICAL- BUILDINGS MATERIALS	PAVER BLOCKS	COMPRESSIVE STRENGTH	IS 15658
94	MECHANICAL- BUILDINGS MATERIALS	PAVER BLOCKS	THICKNESS	IS 15658
95	MECHANICAL- BUILDINGS MATERIALS	PAVER BLOCKS	WATER ABSORPTION	IS 15658
96	MECHANICAL- SOIL AND ROCK	MARBLES/ STONES/ GRANITE	WATER ABSORPTION	IS 1124
97	MECHANICAL- SOIL AND ROCK	MARBLES/ STONES/GRANITE	SPECIFIC GRAVITY	IS 1124
98	MECHANICAL- SOIL AND ROCK	SOILS	HEAVY COMPACTION (MDD & OMC)	IS 2720 (PART-VIII)

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99	MECHANICAL- SOIL AND ROCK	SOILS	LIQUID LIMIT	IS 2720 (PART-V)
100	MECHANICAL- SOIL AND ROCK	SOILS	PLASTIC LIMIT	IS 2720 (PART-V)
101	MECHANICAL- SOIL AND ROCK	SOILS	SIEVE ANALYSIS	IS 2720 (PART-IV)