



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

Laboratory Name ADITI R&D SERVICES-TESTING LABORATORY, S-5, SIRTDO, BIT SINDRI, DHANBAD, JHARKHAND , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5076 Page No. : 1 / 9

Validity 14/08/2019 to 13/08/2021 Last Amended on 05/09/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
<b>Permanent Facility</b>				
1	CHEMICAL-ATMOSPHERIC POLLUTION	AMBIENT AIR	OXIDES OF NITROGEN (NO <sub>2</sub> )	IS 5182 (Part-6): 2006
2	CHEMICAL-ATMOSPHERIC POLLUTION	AMBIENT AIR QUALITY	PARTICULATE MATTER (PM <sub>10</sub> )	IS 5182 (Part 23): 2006
3	CHEMICAL-ATMOSPHERIC POLLUTION	AMBIENT AIR QUALITY	SULPHUR DIOXIDE	IS 5182 (Part 2): 2001
4	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission	Oxides of Nitrogen	IS 11255 (Part 7): 2005
5	CHEMICAL-ATMOSPHERIC POLLUTION	STACK EMISSION	PARTICULATE MATTER	IS 11255 (Part 1): 2003
6	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission	Sulphur Dioxide	IS 11255 (Part 2): 2014
7	CHEMICAL- BUILDING MATERIAL	OPC & PPC	Insoluble Residue	IS 4032 RA: 2014
8	CHEMICAL- BUILDING MATERIAL	OPC & PPC	Loss on Ignition	IS 4032: 2014
9	CHEMICAL- BUILDING MATERIAL	OPC & PPC	Magnesium Oxide	is 4032 RA: 2014
10	CHEMICAL- BUILDING MATERIAL	OPC & PPC	Sulphuric Anhydride	IS 4032 RA: 2014
11	CHEMICAL- METALS & ALLOYS	Plain Carbin & Alloy Steel	Carbon	IS 228 (Part 1): 1987, RA 2018



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
12	CHEMICAL- METALS & ALLOYS	Plain Carbon & Alloy Steel	Phosphorous	IS 228 (Part 3): 1987, RA 2018
13	CHEMICAL- METALS & ALLOYS	Plain Carbon & Alloy Steel	Sulphur	IS 228 (Part 9): 1989, RA 2014
14	CHEMICAL- WATER	Construction Water	Acidity as CaCO <sub>3</sub>	IS 3025 (Part 22): 2009
15	CHEMICAL- WATER	Construction Water	Alkalinity as CaCO <sub>3</sub>	IS 3025 (Part 23): 2014
16	CHEMICAL- WATER	Construction Water	Chloride	IS 3025 (Part 32) Argentometric Method: 2014
17	CHEMICAL- WATER	Construction Water	Inorganic Solids	IS 3025 (Part 16): 2017
18	CHEMICAL- WATER	Construction Water	pH	IS 3025 (Part 11): 2017
19	CHEMICAL- WATER	Construction Water	Sulphate	IS 3025 (P-24) Turbidity Method: 2014
20	CHEMICAL- WATER	Construction Water	Total Suspended Solids	IS 3025 (Part 17): 2017
21	CHEMICAL- WATER	Drinking Water	Alkalinity as CaCO <sub>3</sub>	IS 3025 (Part 23): 2014
22	CHEMICAL- WATER	Drinking Water	Biochemical Oxygen Demand (BOD)	IS 3025 (Part 44): 2019
23	CHEMICAL- WATER	Drinking Water	Chemical Oxygen Demand (COD)	IS 3025 (Part 58): 2017
24	CHEMICAL- WATER	Drinking Water	Chloride	IS 3025 (Part 32) Argentometric Method: 2014
25	CHEMICAL- WATER	Drinking Water	Conductivity at 25 Deg. C	IS 3025 (Part 14): 2013
26	CHEMICAL- WATER	Drinking Water	Iron	IS 3025 (Part 53) 1,10 Phenanthroline Method: 2014
27	CHEMICAL- WATER	Drinking Water	Nitrate	IS 3025 (Part 34) Chromotropic Acid Method: 2014



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
28	CHEMICAL- WATER	Drinking Water	Oil & Grease	IS 3025 (Part 39) Partition Gravimetric Method: 2014
29	CHEMICAL- WATER	Drinking Water	pH	IS 3025 (Part 11): 2017
30	CHEMICAL- WATER	Drinking Water	Sulphate	IS 3025 (Part 24) Turbidity Method: 2014
31	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	IS 3025 (Part 16): 2012
32	CHEMICAL- WATER	Drinking Water	Total Hardness as CaCO <sub>3</sub>	IS 3025 (Part 21) EDTA Method: 2014
33	CHEMICAL- WATER	Drinking Water	Total Suspended Solids	IS 3025 (Part 17): 2017
34	CHEMICAL- WATER	Drinking Water	Turbidity	IS 3025 (Part 10): 2017
35	CHEMICAL- WATER	Waste Water	Biochemical Oxygen Demand	IS 3025 (Part 44): 2019
36	CHEMICAL- WATER	Waste Water	Chemical Oxygen Demand (COD)	IS 3025 (Part 58): 2017
37	CHEMICAL- WATER	Waste Water	Oil & Grease	IS 3025 (Part 39) Soxhelt Extraction Method: 2014
38	CHEMICAL- WATER	Waste Water	pH	IS 3025 (Part 11): 2017
39	CHEMICAL- WATER	Waste Water	Total Suspended Solids	IS 3025 (Part 17): 2017
40	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Cube	Compressive Strength	IS 516 RA: 2013
41	MECHANICAL- BUILDINGS MATERIALS	COARSE	10 % FINE VALUE	IS 2386(P-4)RA: 2016
42	MECHANICAL- BUILDINGS MATERIALS	COARSE	CRUSHING VALUE	IS 2386(P-4)RA: 2016



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
43	MECHANICAL-BUILDINGS MATERIALS	COARSE	ELONGATION INDEX	IS 2386(P-1)RA: 2016
44	MECHANICAL-BUILDINGS MATERIALS	COARSE	FLAKINESS INDEX	IS 2386(P-1)RA: 2016
45	MECHANICAL-BUILDINGS MATERIALS	COARSE	IMPACT VALUE	IS 2386(P-4)RA: 2016
46	MECHANICAL-BUILDINGS MATERIALS	COARSE	SIEVE ANALYSIS- (10 mm Size)	IS 2386(P-1)RA: 2016
47	MECHANICAL-BUILDINGS MATERIALS	COARSE	SIEVE ANALYSIS (upo 63 mm)	IS 2386 (P-1)RA: 2016
48	MECHANICAL-BUILDINGS MATERIALS	COARSE	SIEVE ANALYSIS-(20mm Size)	IS 2386 (P-1): 2016
49	MECHANICAL-BUILDINGS MATERIALS	COARSE	SPECIFIC GRAVITY	IS 2386(P-3)RA: 2016
50	MECHANICAL-BUILDINGS MATERIALS	COARSE	WATER ABSORPTION	IS 2386(P-3)RA: 2016
51	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 (P-3) RA: 2016
52	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Deleterious Materials	is 2386 (P-2) RA: 2016



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
53	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Organic Impurities	IS 2386 (P-2) RA: 2016
54	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Surface Moisture	IS 2386 (P-3) RA: 2016
55	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Surface Moisture	IS 2386 (P-3) RA: 2016
56	MECHANICAL-BUILDINGS MATERIALS	COMMON BURNT CLAY BUILDING BRICKS	COMPRESSIVE STRENGTH	IS 3495(P-1)RA: 2016
57	MECHANICAL-BUILDINGS MATERIALS	Common Burnt Clay Building Bricks	Dimension-Height	IS 1077 RA: 2011
58	MECHANICAL-BUILDINGS MATERIALS	Common Burnt Clay Building Bricks	Dimension-LENGTH	IS 1077 RA: 2011
59	MECHANICAL-BUILDINGS MATERIALS	Common Burnt Clay Building Bricks	Dimension-Width	IS 1077 RA: 2011
60	MECHANICAL-BUILDINGS MATERIALS	Common Burnt Clay Building Bricks	Efflorescence	IS 3495(P-3)RA: 2016
61	MECHANICAL-BUILDINGS MATERIALS	COMMON BURNT CLAY BUILDING BRICKS	WATER ABSORPTION	IS 3495(P-2)RA: 2016
62	MECHANICAL-BUILDINGS MATERIALS	FINE	SIEVE ANALYSIS- (1.18 mm Size)	IS 2386(P-1)RA: 2016



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
63	MECHANICAL-BUILDINGS MATERIALS	FINE	SIEVE ANALYSIS (300 micron Size)	IS 2386(P-1)RA: 2016
64	MECHANICAL-BUILDINGS MATERIALS	FINE	SIEVE ANALYSIS (4.75 mm Size)	IS 2386 (P-1)RA: 2016
65	MECHANICAL-BUILDINGS MATERIALS	FINE	SIEVE ANALYSIS (600 micron Size)	IS 2386(P-1)RA: 2016
66	MECHANICAL-BUILDINGS MATERIALS	FINE	SIEVE ANALYSIS-(2.36mm Size)	IS 2386(P-1)RA: 2016
67	MECHANICAL-BUILDINGS MATERIALS	FINE	SPECIFIC GRAVITY	IS 2386(P-3)RA: 2016
68	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (P-3) RA: 2016
69	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Deleterious Materials	IS 2386(P-2): 2016
70	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Free Moisture	IS 2386 (P-3) RA: 2016
71	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Organic Impurities	IS 2386 (P-2): 2016
72	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Surface Moisture	IS 2386 (P-3) RA: 2016



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
73	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (P-3) RA: 2016
74	MECHANICAL-BUILDINGS MATERIALS	OPC & PPC	COMPRESSIVE STRENGTH- 3 Days	IS 4031(P-6)RA: 2014
75	MECHANICAL-BUILDINGS MATERIALS	OPC & PPC	COMPRESSIVE STRENGTH- 7 Days	IS 4031(P-6)RA: 2014
76	MECHANICAL-BUILDINGS MATERIALS	OPC & PPC	COMPRESSIVE STRENGTH-28 Days	IS 4031(P-6)RA: 2014
77	MECHANICAL-BUILDINGS MATERIALS	OPC & PPC	CONSISTENCY	IS 4031(P-4)RA: 2014
78	MECHANICAL-BUILDINGS MATERIALS	OPC & PPC	FINAL SETTING TIME	IS 4031(P-5)RA: 2014
79	MECHANICAL-BUILDINGS MATERIALS	OPC & PPC	Fineness by Blain's Method	IS 4031(P-2)RA: 2013
80	MECHANICAL-BUILDINGS MATERIALS	OPC & PPC	INITIAL SETTING TIME	IS 4031(P-5)RA: 2014
81	MECHANICAL-BUILDINGS MATERIALS	OPC & PPC	SOUNDNESS-LE-CHATTELIER	IS 4031(P-3)RA: 2014



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
82	MECHANICAL- MECHANICAL PROPERTIES OF METALS	FERROUS MATERIALS(REINFORCED BAR)	REBEND	IS1786 RA: 2013
83	MECHANICAL- MECHANICAL PROPERTIES OF METALS	FERROUS, NON FERROUS(Cu & Al)MATERIALS, WELDED JOINTS & TMT BAR	BEND	IS1599: 2012
84	MECHANICAL- MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	BRINELL HARDNESS (HBW)	IS 1500(P-1) RA: 2013
85	MECHANICAL- MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	ROCKWELL HARDNESS	IS 1586 (P-1): 2017
86	MECHANICAL- MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	ROCKWELL HARDNESS	IS 1586(P-1): 2017
87	MECHANICAL- MECHANICAL PROPERTIES OF METALS	METALLIC MATERIALS	ROCKWELL HARDNESS	IS 1586(P1): 2017
88	MECHANICAL- MECHANICAL PROPERTIES OF METALS	TMT Bar	% Elongation	IS 1608 (P-1): 2018





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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
89	MECHANICAL- MECHANICAL PROPERTIES OF METALS	TMT Bar	Ultimate Tensile Strength	IS 1608 (P-1): 2018
90	MECHANICAL- MECHANICAL PROPERTIES OF METALS	TMT Bar	Yield Strength (0.2% Proof Stress)	IS 1608(P-1): 2018