



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ASHANKHYA TESTING & CALIBRATION LABS, KH 13/7, AMANPURI NAJAFGARH ROAD, NANGLOI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2005

Certificate Number TC-6403 Page No. : 1 / 11

Validity 12/10/2017 to 11/10/2019 Last Amended on 14/06/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
Permanent Facility					
1	CHEMICAL- BUILDING MATERIAL	Admixture	Ash Content	IS-9103: 2013	0.1 % to 30 %
2	CHEMICAL- BUILDING MATERIAL	ADMIXTURE	Chloride ion Content	IS-6925(CL-4): 1973	0.001 % to 0.5 %
3	CHEMICAL- BUILDING MATERIAL	Admixture	Dry Material Content	IS-9103: 1999	5 % to 50 %
4	CHEMICAL- BUILDING MATERIAL	Admixture	pH	IS 9103: 1999	1 to 12
5	CHEMICAL- BUILDING MATERIAL	Admixture	Relative Density	IS-9103: 1999	0.8 to 1.5
6	CHEMICAL- BUILDING MATERIAL	Cement	Al ₂ O ₃	is -4032: 2014	0.5 % to 10 %
7	CHEMICAL- BUILDING MATERIAL	CEMENT	Calcium By Mass	IS-4032: 1985	0.5 % to 60 %
8	CHEMICAL- BUILDING MATERIAL	Cement	Insoluble Residue	IS-4032: 1985	0.5 % to 40 %
9	CHEMICAL- BUILDING MATERIAL	cement	Loss of Ignition % by mass	IS-4032: 1985	0.10 % to 10 %
10	CHEMICAL- BUILDING MATERIAL	CEMENT	Magnesia By Mass	IS-4032: 1985	0.5 % to 10 %
11	CHEMICAL- BUILDING MATERIAL	Cement	Potassium	IS-4032: 1985	0.01 % to 5 %
12	CHEMICAL- BUILDING MATERIAL	Cement	SiO ₂	IS-4032: 1985	5 % to 30 %
13	CHEMICAL- BUILDING MATERIAL	Cement	Sodium Oxide	IS 4032: 1985	0.01 % to 5 %



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14	CHEMICAL- BUILDING MATERIAL	CEMENT	Sulfuric Anhydride	IS-4032: 1985	0.5 % to 10 %
15	CHEMICAL- BUILDING MATERIAL	CEMENT	Total Chloride	IS-4032: 1985	0.001 % to 0.50 %
16	CHEMICAL- BUILDING MATERIAL	Cement ,opc,ppc	Al ₂ O ₃	IS-4032 RA 2014: 2014	0.5 % to 10 %
17	CHEMICAL- BUILDING MATERIAL	CEMENT OPC PPC	Chloride ion Content	IS 4032 RA 2008 CL-4: 1973	0.001 % to 0.5 %
18	CHEMICAL- BUILDING MATERIAL	CEMENT OPC PPC	INSOLUBLE RESIDUE	IS 4032 RA 2014: 1985	0.5 % to 40 %
19	CHEMICAL- BUILDING MATERIAL	CEMENT OPC PPC	Potassium Oxide	IS 4032 RA2014: 1985	0.01 % to 5 %
20	CHEMICAL- BUILDING MATERIAL	CEMENT OPC PPC	SiO ₃	IS 4032 RA 2014: 1985	5 % to 30 %
21	CHEMICAL- BUILDING MATERIAL	CEMENT OPC PPC	Sodium Oxide	IS 4032 RA 2014: 1985	0.01 % to 5 %
22	CHEMICAL- BUILDING MATERIAL	CEMENT OPC PPC	TOTAL CHLORIDE	IS4032 RA 2014: 1985	0.001 % to 0.50 %
23	CHEMICAL- BUILDING MATERIAL	Conc Admixture	Ash Content	IS 9103 RA 2013: 2013	0.1 % to 30 %
24	CHEMICAL- BUILDING MATERIAL	Conc Admixture	Dry material Content	IS 9103 RA2013: 1999	5 % to 50 %
25	CHEMICAL- BUILDING MATERIAL	Conc Admixture	pH	IS 9103 RA 2013: 1999	1 to 12
26	CHEMICAL- BUILDING MATERIAL	Conc Admixture	Relative density	IS 9103 RA 2013: 1999	0.8 to 1.5



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27	CHEMICAL- WATER	Surface Water Ground Water Drinking Water Packaged Drinking water Swimming Pool Water Industrial Water Industrial water Irrigation water Water from purifiers Others	Acidity	IS-3025(P-22): 1986	5 mg/ltr to 500 mg/ltr
28	CHEMICAL- WATER	Surface Water Ground Water Drinking Water Packaged Drinking water Swimming Pool Water Industrial Water Industrial water Irrigation water Water from purifiers Others	Calcium	IS-3025(P-16): 1984	5 mg/ltr to 10000 mg/ltr
29	CHEMICAL- WATER	Surface Water Ground Water Drinking Water Packaged Drinking water Swimming Pool Water Industrial Water Industrial water Irrigation water Water from purifiers Others	Chloride	IS-3025(P-32): 1988	2 mg/ltr to 5000 mg/ltr
30	CHEMICAL- WATER	Surface Water Ground Water Drinking Water Packaged Drinking water Swimming Pool Water Industrial Water Industrial water Irrigation water Water from purifiers Others	Chloride	IS-3025(P-32): 1988	2 mg/ltr to 5000 mg/ltr



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31	CHEMICAL- WATER	Surface Water Ground Water Drinking Water Packaged Drinking water Swimming Pool Water Industrial Water Industrial water Irrigation water Water from purifiers Others	Chromium(Hexavalent)	IS-3025(P-52) Section 6 Diphenylcarbazine method: 2003	0.02 mg/ltr to 10 mg/ltr
32	CHEMICAL- WATER	Surface Water Ground Water Drinking Water Packaged Drinking water Swimming Pool Water Industrial Water Industrial water Irrigation water Water from purifiers Others	Fluoride	IS-3025(P-60): 1984	0.1 mg/ltr to 5 mg/ltr
33	CHEMICAL- WATER	Surface Water Ground Water Drinking Water Packaged Drinking water Swimming Pool Water Industrial Water Industrial water Irrigation water Water from purifiers Others	Iron	IS-3025(P-53): 1983	0.01 mg/ltr to 100 mg/ltr
34	CHEMICAL- WATER	Surface Water Ground Water Drinking Water Packaged Drinking water Swimming Pool Water Industrial Water Industrial water Irrigation water Water from purifiers Others	Magnesium	IS-3025(P-40): 1991	2 mg/ltr to 1000 mg/ltr



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35	CHEMICAL- WATER	Surface Water Ground Water Drinking Water Packaged Drinking water Swimming Pool Water Industrial Water Industrial water Irrigation water Water from purifiers Others	Nitrate	IS-3025(P-34) Section 4 NEDA sulphanilamide colorimetric: 1988	0.01 mg/ltr to 50 mg/ltr
36	CHEMICAL- WATER	Surface Water Ground Water Drinking Water Packaged Drinking water Swimming Pool Water Industrial Water Industrial water Irrigation water Water from purifiers Others	Oil & Grease	IS-3025(P-39) Section 5 partition gravimetric method: 1991	4 mg/ltr to 1000 mg/ltr
37	CHEMICAL- WATER	Surface Water Ground Water Drinking Water Packaged Drinking water Swimming Pool Water Industrial Water Industrial water Irrigation water Water from purifiers Others	pH	IS-3025(P-11): 1983	2 to 12
38	CHEMICAL- WATER	Surface Water Ground Water Drinking Water Packaged Drinking water Swimming Pool Water Industrial Water Industrial water Irrigation water Water from purifiers Others	Phosphorus	IS-3025(P-31) Section 4 stannous chloride method: 1988	0.1 mg/ltr to 20 mg/ltr



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39	CHEMICAL- WATER	Surface Water Ground Water Drinking Water Packaged Drinking water Swimming Pool Water Industrial Water Industrial water Irrigation water Water from purifiers Others	Potassium	IS-3025(P-45) section5 flame photometry method: 1993	5 mg/ltr to 1000 mg/ltr
40	CHEMICAL- WATER	Surface Water Ground Water Drinking Water Packaged Drinking water Swimming Pool Water Industrial Water Industrial water Irrigation water Water from purifiers Others	Residual Free Chlorine	IS-3025(P-26) Section 3 iodometric method, Section 4 toluidine method: 1988	0.1 mg/ltr to 100 mg /ltr
41	CHEMICAL- WATER	Surface Water Ground Water Drinking Water Packaged Drinking water Swimming Pool Water Industrial Water Industrial water Irrigation water Water from purifiers Others	Sodium	IS-3025(P-45): 1993	10 mg/ltr to 1000 mg/ltr
42	CHEMICAL- WATER	Surface Water Ground Water Drinking Water Packaged Drinking water Swimming Pool Water Industrial Water Industrial water Irrigation water Water from purifiers Others	Specific Conductivity	IS-3025(P-14): 1984	1 µmhos/cm to 100000 µmhos/cm



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43	CHEMICAL- WATER	Surface Water Ground Water Drinking Water Packaged Drinking water Swimming Pool Water Industrial Water Industrial water Irrigation water Water from purifiers Others	Sulphate	IS-3025(P-40): 1991	1 mg/ltr to 1000 mg/ltr
44	CHEMICAL- WATER	Surface Water Ground Water Drinking Water Packaged Drinking water Swimming Pool Water Industrial Water Industrial water Irrigation water Water from purifiers Others	Total Hardness	IS-3025(P-21): 2009	2 mg/ltr to 5000 mg/ltr
45	CHEMICAL- WATER	Surface Water Ground Water Drinking Water Packaged Drinking water Swimming Pool Water Industrial Water Industrial water Irrigation water Water from purifiers Others	Turbidity	IS-3025(P-10)-: 1983	1 NTU to 1000 NTU
46	CHEMICAL- WATER	Water for construction	Sulphate(So3)	IS-3025(P-24) section 4 Turbidity method : 1986	1 mg/ltr to 1000 mg/ltr
47	CHEMICAL- WATER	water for construction purpose	pH	IS 3025 (PART-11): 1983	2 to 12
48	CHEMICAL- WATER	water for construction purpose	In organic solids	IS-3025(P-16)-: 1984	5 mg/ltr to 5000 mg/ltr



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49	CHEMICAL- WATER	Water for Construction purpose	Chloride	IS-3025(P-32) Section 2 Argentmetric method: 1988	2 mg/ltr to 50000 mg/ltr
50	CHEMICAL- WATER	water for construction purpose	Fluoride	APHA 22 st,4500F(D): 2016	0.1 mg/ltr to 5 mg/ltr
51	CHEMICAL- WATER	Water For construction purpose	Neutralization Value with 0.02N H ₂ SO ₄	IS 3025(P-23): 1986	0.1 ml to 50 ml
52	CHEMICAL- WATER	Water for construction purpose	Neutralization Value with 0.02N NaOH	IS 3025(P-22): 1986	0.1 ml to 10 ml
53	CHEMICAL- WATER	Water for Construction purpose	Organics solids	IS-3025(P-16): 1984	5 mg/ltr to 500 mg/ltr
54	CHEMICAL- WATER	water for construction purpose	Total Dissolved Solids(TDS)	IS-3025(P-16): 1984	5 mg/ltr to 10000 mg/ltr
55	CHEMICAL- WATER	water for Construction purposes	Total Suspended Solids	IS-3025(P-17): 1984	to
56	MECHANICAL-BUILDINGS MATERIALS	Coarse aggregate	soundness	IS 2386 (Part-4) RA 2002: 1963	0.2 % to 15 %
57	MECHANICAL-BUILDINGS MATERIALS	Burnt Clay Bricks/Fly ash bricks	Compressive Strength	IS 3495 (Part-1): 1992	0.4 N/mm ² to 40 N/mm ²
58	MECHANICAL-BUILDINGS MATERIALS	Burnt Clay Bricks/Fly ash bricks	Dimension Length,Width,Height	IS 13757: 1993	500 mm to 5000 mm
59	MECHANICAL-BUILDINGS MATERIALS	Burnt Clay Bricks/Fly ash bricks	Dimension Length,width,Height	IS 12894: 2002	500 mm to 5000 mm
60	MECHANICAL-BUILDINGS MATERIALS	Burnt Clay Bricks/Fly ash bricks	Dimension Length/Height/Width	IS 1077: 1992	500 mm to 5000 mm



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61	MECHANICAL-BUILDINGS MATERIALS	Burnt Clay Bricks/Fly ash bricks	Water Absorption	IS 3495(Part-2): 1992	1 % to 40 %
62	MECHANICAL-BUILDINGS MATERIALS	Burnt Clay Bricks/fly ash bricks /fly ash	Efflorescence	IS 3495 (Part-3) RA 2002: 1992	Qualitative(NA)
63	MECHANICAL-BUILDINGS MATERIALS	C.C Cube	Compressive Strength	IS 516: 1959	1 N/mm ² to 80 N/mm ²
64	MECHANICAL-BUILDINGS MATERIALS	Cement	Blain Finesse	IS 4031 (Part-2): 1988	150 m ² /Kg to 450 m ² /Kg
65	MECHANICAL-BUILDINGS MATERIALS	Cement	Compressive Strength	IS 4031 (Part-6): 1988	0.4 N/mm ² to 70 N/mm ²
66	MECHANICAL-BUILDINGS MATERIALS	Cement	Consistency	IS4031 (Part-4): 1988	20 % to 40 %
67	MECHANICAL-BUILDINGS MATERIALS	Cement	Density	IS 4031 (Part-11): 1988	1 g/cc to 10 g/cc
68	MECHANICAL-BUILDINGS MATERIALS	Cement	Setting Time (Final Time)	Is 4031 (Part -5): 1988	30 minutes to 700 Minutes
69	MECHANICAL-BUILDINGS MATERIALS	Cement	Setting Time (Initial Time)	IS 4031(Part-5): 1988	10 minutes to 200 minutes
70	MECHANICAL-BUILDINGS MATERIALS	CEMENT OPC ,PPC	Soundness (a) lechatlier	IS 4031 (Part-3) RA 2013: 1988	5 mm to 10 mm



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71	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Deleterious Material	IS 2386 (Part-1&2) RA 2002: 1963	0.1 % to 10 %
72	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (Part-1) RA 2002: 2002	5 % to 60 %
73	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Los Angeles abrasion value	IS 2386 (Part-4) RA 2002: 1963	5 % to 60 %
74	MECHANICAL-BUILDINGS MATERIALS	Coarse aggregate	Bulk density	IS 2386 (Part-3): 1963	0.1 g/cc to 3.0 g/cc
75	MECHANICAL-BUILDINGS MATERIALS	coarse aggregate	flakiness Index	IS 2386 (Part-1) RA 2002: 1963	2 % to 60 %
76	MECHANICAL-BUILDINGS MATERIALS	coarse aggregate	Impact value	IS 2386 (Part-4) RA 2002: 1963	5 % to 60 %
77	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis	IS 2386(Part-1): 1963	2.36 mm to 80 mm
78	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (Part-3): 1963	0.5 to 5
79	MECHANICAL-BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (Part-3): 1963	0.1 % to 5 %
80	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (Part-3): 1963	0.1 g/cc to 3.0 g/cc



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81	MECHANICAL-BUILDINGS MATERIALS	Fine aggregate	sieve analysis	IS 2386 (Part-1): 1963	150 micron to 10 mm
82	MECHANICAL-BUILDINGS MATERIALS	Fine aggregate	Specific Gravity	IS 2386 (Part-3): 1963	0.5 to 5
83	MECHANICAL-BUILDINGS MATERIALS	Fine Aggregate	water absorption	is 2386(part-3): 1963	0.1 % to 5 %
84	MECHANICAL-BUILDINGS MATERIALS	Reinforcement Steel bar	BEND	IS 1599 RA 2015: 2012	Qualitative(0 TO 40MM)
85	MECHANICAL-BUILDINGS MATERIALS	Reinforcement Steel bar	ELONGATION	IS 1608 RA 2013: 2005	5 % to 40 %
86	MECHANICAL-BUILDINGS MATERIALS	Reinforcement Steel bar	MASS PER METER	IS 1786 RA 2013: 2008	0.1 Kg/meter to 20 kg/meter
87	MECHANICAL-BUILDINGS MATERIALS	Reinforcement Steel bar	REBEND	IS 1786 RA 2013: 2008	Qualitative(O TO 40 MM)
88	MECHANICAL-BUILDINGS MATERIALS	Reinforcement Steel bar	Tensile Strength	IS 1608 RA 2013: 2005	100 N/MM ² to 1500 N/MM ²
89	MECHANICAL-BUILDINGS MATERIALS	Reinforcement Steel bar	YIELD STRESS	IS 1608 RA 2013: 2005	100 N/MM ² to 1000 N/MM ²