National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : MARWADI UNIVERSAL EDUCATION PRIVATE LIMITED, MUEPL TESTING LABORATORY, AT GAURIDAD RAJKOT-MORBI HIGHWAY, RAJKOT, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 06/02/2022 to 05/02/2024 **Last Amended on** 03/04/2022

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- ATMOSPHERIC POLLUTION	air	Oxides of nitrogen	IS 5182 (Part 6)
2	CHEMICAL- ATMOSPHERIC POLLUTION	Air	Particulate Matter (PM10)	IS 5182 (Part 23)
3	CHEMICAL- ATMOSPHERIC POLLUTION	air	Sulphur Dioxide	IS 5182 (Part 2)
4	CHEMICAL- ATMOSPHERIC POLLUTION	Stack	Nitrogen dioxide	IS 11255 (Part 7)
5	CHEMICAL- ATMOSPHERIC POLLUTION	Stack	Particulate Matter	IS 11255 (Part 1)
6	CHEMICAL- ATMOSPHERIC POLLUTION	Stack	Sulphur dioxide	IS 11255 (Part 2)
7	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water / Sewage Water / Effluent Wa	Total Dissolved Solids	APHA 23RD Edition 2540 C (Page No.2-69)
8	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water / Sewage Water / Effluent Water	Ammonical Nitrogen	APHA 23RD Edition 4500-NH3 C (Page No.4-116),SOP/WW/09.14
9	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water / Sewage Water / Effluent Water	Biochemical Oxygen Demand	APHA 23RD Edition 5210 B (Page No.5-06)
10	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water / Sewage Water / Effluent Water	Chemical Oxygen Demand	APHA 23RD Edition 5220 B (Page No.5-18)
11	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water / Sewage Water / Effluent Water	Chloride	APHA 23RD Edition 4500-Cl- B (Page No.4-75)
12	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water / Sewage Water / Effluent Water	Conductivity	APHA 23RD Edition 2510 B (Page No.2-58)
13	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water / Sewage Water / Effluent Water	Dissolved Oxygen	APHA 23RD Edition 4500-O C (Page No.4-146)
14	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water / Sewage Water / Effluent Water	Nitrate Nitrogen	APHA 23RD Edition 4500-NO3 - - B. (Page No.4-127), SOP/WW/09.15
15	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water / Sewage Water / Effluent Water	pH	APHA 23RD Edition 4500-H+ B (Page No.4-95)
16	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water / Sewage Water / Effluent Water	Potassium	APHA 23RD Edition,3500-K B (Page No.3-89)
17	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water / Sewage Water / Effluent Water	Residual Chlorine	APHA 23RD Edition 4500-Cl B (Page No.4-63)

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18	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water / Sewage Water / Effluent Water	Sodium	APHA 23RD Edition 3500-Na B (Page No.3-99)
19	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water / Sewage Water / Effluent Water	Sulphide	APHA 23RD Edition 4500-S2- F (Page No.4-187)
20	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water / Sewage Water / Effluent Water	Sulphite	APHA 23RD Edition 4500-SO32-B (Page No.4-194)
21	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water / Sewage Water / Effluent Water	Total Solids	APHA 23RD Edition 2540 B (Page No.2-68)
22	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water / Sewage Water / Effluent Water	Turbidity	APHA 23RD Edition 2130 B (Page No.2-13)
23	CHEMICAL- WATER	"Drinking Water / Domestic Water / Surface and Ground Water	Biochemical Oxygen Demand	APHA 23RD Edition 5210 B (Page No.5-06)
24	CHEMICAL- WATER	Drinking Water / Domestic Water / Surface and Ground Water	Acidity	APHA 23RD Edition 2310 B (Page No.2-34)
25	CHEMICAL- WATER	Drinking Water / Domestic Water / Surface and Ground Water	Alkalinity	APHA 23RD Edition 2320 B (Page No.2-37)
26	CHEMICAL- WATER	Drinking Water / Domestic Water / Surface and Ground Water	Ammonical Nitrogen	APHA 23RD Edition 4500-NH3 C (Page No.4-116)
27	CHEMICAL- WATER	Drinking Water / Domestic Water / Surface and Ground Water	Chloride	APHA 23RD Edition 4500 Cl- B (Page No.4-75)
28	CHEMICAL- WATER	Drinking Water / Domestic Water / Surface and Ground Water	COD	APHA 23RD Edition 5220 B (Page No.5-18)
29	CHEMICAL- WATER	Drinking Water / Domestic Water / Surface and Ground Water	Conductivity	APHA 23RD Edition 2510 B (Page No.2-58)
30	CHEMICAL- WATER	Drinking Water / Domestic Water / Surface and Ground Water	Dissolved Oxygen	APHA 23RD Edition 4500-O C (Page No.4-146)
31	CHEMICAL- WATER	Drinking Water / Domestic Water / Surface and Ground Water	Flouride	APHA 23RD Edition 4500-F- B (Page No.4-87)
32	CHEMICAL- WATER	Drinking Water / Domestic Water / Surface and Ground Water	Hardness as Calcium	APHA 23RD Edition 3500-Ca B (Page No.3-69)
33	CHEMICAL- WATER	Drinking Water / Domestic Water / Surface and Ground Water	Hardness As Magnesium	APHA 23RD Edition, 3500-Mg B (Page No.3-86)
34	CHEMICAL- WATER	Drinking Water / Domestic Water / Surface and Ground Water	Nitrate Nitrogen	APHA 23RD Edition 4500-NO3 - - B. (Page No.4-127)
35	CHEMICAL- WATER	Drinking Water / Domestic Water / Surface and Ground Water	pH	APHA 23RD Edition 4500-H+ B (Page No.4-95)
36	CHEMICAL- WATER	Drinking Water / Domestic Water / Surface and Ground Water	Sodium	APHA 23RD Edition 3500-Na B (Page No.3-99)

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37	CHEMICAL- WATER	Drinking Water / Domestic Water / Surface and Ground Water	Total Dissolved Solids	APHA 23RD Edition 2540 C (Page No.2-69)
38	CHEMICAL- WATER	Drinking Water / Domestic Water / Surface and Ground Water	Total Hardness	APHA 23RD Edition 2340 C (Page No.2-48)
39	CHEMICAL- WATER	Drinking Water / Domestic Water / Surface and Ground Water	Total Solids	APHA 23RD Edition 2540 B (Page No.2-68)
40	CHEMICAL- WATER	Drinking Water / Domestic Water / Surface and Ground Water	Turbidity	APHA 23RD Edition 2130 B (Page No.2-13)
41	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration	IS: 1203
42	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening point	IS: 1205
43	MECHANICAL- BUILDINGS MATERIALS	Brick	Efflorescence	IS: 3495 (part-3)
44	MECHANICAL- BUILDINGS MATERIALS	Brick	Water Absoprtion	IS: 3495 (part-2)
45	MECHANICAL- BUILDINGS MATERIALS	Bricks	Compressive Strength	IS: 3495(part-1)
46	MECHANICAL- BUILDINGS MATERIALS	Cement	Compressive Strength	IS 4031 (P-6)
47	MECHANICAL- BUILDINGS MATERIALS	Cement	Consistency	IS 4031 (P-4)
48	MECHANICAL- BUILDINGS MATERIALS	Cement	Final Setting Time	IS 4031 (P-5)
49	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness By Sieving	IS 4031 (Part-1)
50	MECHANICAL- BUILDINGS MATERIALS	Cement	Initial Setting time	IS 4031 (P-5)
51	MECHANICAL- BUILDINGS MATERIALS	Cement	Soundness With Le-Chattalier Method	IS 4031 (P-3)
52	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Abrasion Value	IS: 2386 (par-4)
53	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Crushing Value	IS: 2386(part-4)
54	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Elongation index	IS: 2386(part-1)
55	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Flakiness Index	IS: 2386(part-1)

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56	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Grading (Sieve Analysis) (4.75 mm, 6.3 mm, 8 mm, 10 mm, 12.5 mm, 16 mm, 20 mm, 25 mm, 31.5 mm, 40 mm, 50 mm, 63 mm, 80 mm)	IS:2386 (part-1)
57	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Impact Value	IS: 2386(part-4)
58	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Specific Gravity	IS: 2386(part-3)
59	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Unit Weight and Voids (Bulk Density)	IS: 2386 (part-3)
60	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Water Absorption	IS: 2386(part-3)
61	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Sieve Analysis (4.75 mm, 1.70 mm, 2.36 mm, 1.18 mm, 600 micron, 300 micron, 150 micron, 90 micron, 75 micron, 425 micron)	IS: 2386 (Part-1)
62	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Specific Gravity	IS: 2386(part-3)
63	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Water Absorption	IS: 2386(part-3)
64	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Compressive strenght	IS: 516
65	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Indirect Tensile Strength	IS: 5816
66	MECHANICAL- BUILDINGS MATERIALS	Steel Reinforced Bar	%Elongation	IS 1608 P-1
67	MECHANICAL- BUILDINGS MATERIALS	Steel Reinforced Bar	Tensile Strength	IS 1608 P-1
68	MECHANICAL- BUILDINGS MATERIALS	Steel Reinforced Bars	Yield Strength	IS 1608 P-1
69	MECHANICAL- BUILDINGS MATERIALS	Steel Reinforcement	% Reduction Area	IS 1608 P-1
70	MECHANICAL- SOIL AND ROCK	Soil	CBR	IS: 2720 (part-16)
71	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test	IS 2720 (Part 13)
72	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test	IS: 2720 (part-13)

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73	MECHANICAL- SOIL AND ROCK	Soil	Free Swell index	IS: 2720 (part-4)
74	MECHANICAL- SOIL AND ROCK	Soil	Grain Size analysis (Sieve Size: 4.75 mm, 2 mm, 425 microns, and 75 microns)	IS 2720 (Part-4)
75	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (MDD)	IS 2720 (part-8)
76	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction (OMC)	IS: 2720 (part-8)
77	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction (MDD)	IS 2720 (Part-7)
78	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction test (OMC)	IS: 2720 (part-7)
79	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS: 2720 (part-5)
80	MECHANICAL- SOIL AND ROCK	Soil	Permeability	IS: 2720 (part-27)
81	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS: 2720(part-5)
82	MECHANICAL- SOIL AND ROCK	Soil	Plasticity Index	IS: 2720 (part-5)
83	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS: 2720 (part-3, sec-1))
84	MECHANICAL- SOIL AND ROCK	Soil	Unit Weight	IS: 2720 (part-29 sec-1)
85	MECHANICAL- SOIL AND ROCK	Soil	Water content	IS 2720 (Part-2)