



(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name	MAX-WELL ENGINEERS (ANALYTICAL LABORATORY), 101, 303, GAJANAND CHAMBERS, VADODARA, GUJARAT, INDIA		
Accreditation Standard	ISO/IEC 17025:2005		
Certificate Number	TC-8194	Page No. :	1/6
Validity	14/12/2018 to 13/12/2020	Last Amended on	-

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- ATMOSPHERIC POLLUTION	Ambient Air Quality	NOx	IS 5182 (Part 6): 2006	6 µg/m3 to 120 µg/m3		
2	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air Quality	PM10	IS 5182 (Part 23): 2006	10 μg/m3 to 1000 μg/m3		
3	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air Quality	PM2.5	SOP-28: 2018	10 μg/m3 to 1000 μg/m3		
4	CHEMICAL- ATMOSPHERIC POLLUTION	AMBIENT AIR QUALITY	SO2	IS 5182 (Part 2): 2001	3.75 µg/m3 to 120 µg/m3		
5	CHEMICAL- ATMOSPHERIC POLLUTION	Stack	NOx	IS 11255 (Part 7): 2005	0.1 mg/Nm3 to 500 mg/Nm3		
6	CHEMICAL- ATMOSPHERIC POLLUTION	Stack	РМ	IS 11255 (Part 1): 1985	5 mg/Nm3 to 1000 mg/Nm3		
7	CHEMICAL- ATMOSPHERIC POLLUTION	Stack	SO2	IS 11255 (Part 2): 2003	0.2 mg/Nm3 to 200 mg/Nm3		
8	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (EFFLUENTS/SEWAG E)	Acidity	APHA 23rd Edition 2310 B: 2017	2 mg/L to 2500 mg/L		
9	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (EFFLUENTS/SEWAG E)	Alkalinity (Methyl Orange & Phenolphthalein)	APHA 23rd Edition 2320 B: 2017	2 mg/L to 2500 mg/L		





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10	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (EFFLUENTS/SEWAG E)	Ammonical Nitrogen	APHA:(4500 NH3-N C) 23rd Edition : 2017	0.10 mg/L to 50 mg/L
11	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (EFFLUENTS/SEWAG E)	BOD at 27 °C for 3 days	IS 3025 (Part 44): 2009	2 mg/L to 10000 mg/L
12	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (EFFLUENTS/SEWAG E)	Chlorides	APHA:4500 Cl ⁻ B 23rd Edition : 2017	2 mg/L to 2000 mg/L
13	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (EFFLUENTS/SEWAG E)	COD	APHA:5220 B 23rd Edition : 2017	4 mg/L to 6000 mg/L
14	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (EFFLUENTS/SEWAG E)	Dissolve Oxygen (D.O)	APHA 23rd Edition 4500-O C: 2017	0.2 mg/L to 10 mg/L
15	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (EFFLUENTS/SEWAG E)	Oil and Grease	APHA 23rd Edition 5520 D: 2017	1 mg/L to 1000 mg/L
16	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (EFFLUENTS/SEWAG E)	рН	APHA:4500-H+ B 23rd Edition: 2017	0 to 14.00
17	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (EFFLUENTS/SEWAG E)	Phenol	APHA 23rd Edition 5530 D: 2017	0.02 mg/L to 15 mg/L
18	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (EFFLUENTS/SEWAG E)	Potassium	APHA 23rd Edition 3500-K B: 2017	0 mg/L to 100 mg/L





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19	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (EFFLUENTS/SEWAG E)	Sodium	APHA 23rd Edition 3500-Na B: 2017	0 mg/L to 100 mg/L
20	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (EFFLUENTS/SEWAG E)	Sulphate	APHA 23rd Edition 4500 SO4 E: 2017	4 mg/L to 10000 mg/L
21	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (EFFLUENTS/SEWAG E)	Temperature	APHA 23rd Edition 2550 B: 2017	1 °C to 100 °C
22	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (EFFLUENTS/SEWAG E)	Total Dissolved Solids	APHA:2540 C 23rd Edition : 2017	10 mg/L to 20000 mg/L
23	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (EFFLUENTS/SEWAG E)	Total Hardness	APHA 23rd Edition 2340 C: 2017	2 mg/L to 10000 mg/L
24	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (EFFLUENTS/SEWAG E)	Total Suspended Solids	APHA:2540 D 23rd Edition : 2017	2 mg/L to 1000 mg/L
25	CHEMICAL- WATER	Drinking Water	Acidity	APHA 23rd Edition 2310 B: 2017	2.0 mg/L to 100 mg/L
26	CHEMICAL- WATER	Drinking Water	BOD at 27 °C for 3 days	IS 3025 (Part 44): 2009	2 mg/L to 50 mg/L
27	CHEMICAL- WATER	Drinking Water	Chlorides	APHA:4500 Cl ⁻ B 23rd Edition : 2017	2.00 mg/L to 2000 mg/L
28	CHEMICAL- WATER	Drinking Water	COD	IS 3025 (part 58): 2006	4.00 mg/L to 100 mg/L
29	CHEMICAL- WATER	Drinking Water	Dissolve Oxygen (D.O)	APHA 23rd Edition 4500-O C: 2017	0.2 mg/L to 10.00 mg/L





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30	CHEMICAL- WATER	Drinking Water	рН	APHA:4500-H+ B 23rd Edition: 2017	3 to 12
31	CHEMICAL- WATER	Drinking Water	Potassium	APHA 23rd Edition 3500-K B.: 2017	5 mg/L to 100 mg/L
32	CHEMICAL- WATER	Drinking Water	Sodium	APHA 23rd Edition 3500-Na B.: 2017	5 mg/L to 250 mg/L
33	CHEMICAL- WATER	Drinking Water	Sulphate	APHA 23rd Edition 4500 SO4 E: 2017	1.0 mg/L to 100 mg/L
34	CHEMICAL- WATER	Drinking Water	Total Alkalinity	APHA 23rd Edition 2320 B: 2017	2.00 mg/L to 250 mg/L
35	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	APHA:2540 C 23rd Edition: 2017	10.0 mg/L to 2000 mg/L
36	CHEMICAL- WATER	Drinking Water	Total Hardness	APHA 23rd Edition 2340 C: 2017	2.0 mg/L to 200 mg/L
37	CHEMICAL- WATER	Drinking Water	Total Suspended Solids	APHA:2540 D 23rd Edition: 2017	5 mg/L to 100 mg/L
38	CHEMICAL- WATER	Ground Water	Acidity	APHA 23rd Edition 2310 B: 2017	2 mg/L to 1000 mg/L
39	CHEMICAL- WATER	Ground Water	BOD at 27 °C for 3 days	IS 3025 (Part 44): 2009	4 mg/L to 1000 mg/L
40	CHEMICAL- WATER	Ground Water	Calcium Hardness	APHA 23rd Edition 3500-Ca B: 2017	2.0 mg/L to 1000 mg/L
41	CHEMICAL- WATER	Ground Water	Chlorides	APHA:4500 Cl ⁻ B 23rd Edition: 2017	2.0 mg/L to 1000 mg/L
42	CHEMICAL- WATER	Ground Water	COD	IS 3025 (part 58): 2006	4.0 mg/L to 200 mg/L
43	CHEMICAL- WATER	Ground Water	Dissolve Oxygen (D.O)	APHA 23rd Edition 4500-O C: 2017	0.2 mg/L to 10 mg/L





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44	CHEMICAL- WATER	Ground Water	Fluoride	APHA 23rd Edition 4500 F—D: 2017	0.2 mg/L to 10 mg/L
45	CHEMICAL- WATER	Ground Water	Magnesium Hardness	APHA 23rd Edition 3500 Mg B: 2017	2.0 mg/L to 500 mg/L
46	CHEMICAL- WATER	Ground Water	рН	APHA:4500-H+ B 23rd Edition: 2017	3 to 12
47	CHEMICAL- WATER	Ground Water	Potassium	APHA 23rd Edition 3500-K B.: 2017	5 mg/L to 100 mg/L
48	CHEMICAL- WATER	Ground Water	Sodium	APHA 23rd Edition 3500-Na B.: 2017	5 mg/L to 1000 mg/L
49	CHEMICAL- WATER	Ground Water	Sulphate	APHA 23rd Edition 4500 SO4 E: 2017	1.0 mg/L to 1000 mg/L
50	CHEMICAL- WATER	Ground Water	Total Alkalinity	APHA 23rd Edition 2320 B: 2017	2 mg/L to 2500 mg/L
51	CHEMICAL- WATER	Ground Water	Total Dissolved Solids	APHA:2540 C 23rd Edition: 2017	10 mg/L to 5000 mg/L
52	CHEMICAL- WATER	Ground Water	Total Hardness	APHA 23rd Edition 2340 C: 2017	2.0 mg/L to 1000 mg/L
53	CHEMICAL- WATER	Ground Water	Total Suspended Solids	APHA:2540 D 23rd Edition: 2017	5 mg/L to 1000 mg/L
54	CHEMICAL- WATER	Surface Water	Acidity	APHA 23rd Edition 2310 B: 2017	2 to 1000
55	CHEMICAL- WATER	Surface Water	BOD at 27 °C for 3 days	IS 3025 (Part 44): 2009	4 mg/L to 1000 mg/L
56	CHEMICAL- WATER	Surface Water	Chlorides	APHA:4500 Cl ⁻ B 23rd Edition: 2017	2 mg/L to 2000 mg/L
57	CHEMICAL- WATER	Surface Water	COD	IS 3025 (part 58): 2006	4 mg/L to 1000 mg/L





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58	CHEMICAL- WATER	Surface Water	Dissolve Oxygen (D.O)	APHA 23rd Edition 4500-O C: 2017	0.2 mg/L to 10 mg/L
59	CHEMICAL- WATER	Surface Water	рН	APHA:4500-H+ B 23rd Edition: 2017	3 to 12
60	CHEMICAL- WATER	Surface water	Potassium	APHA 23rd Edition 3500-K B: 2017	0.0 mg/L to 100 mg/L
61	CHEMICAL- WATER	Surface water	Sodium	APHA 23rd Edition 3500-Na B: 2017	5 mg/L to 1000 mg/L
62	CHEMICAL- WATER	Surface Water	Sulphate	APHA 23rd Edition 4500 SO4 E: 2017	1 mg/L to 1000 mg/L
63	CHEMICAL- WATER	Surface water	Total Alkalinity	APHA 23rd Edition 2320 B: 2017	2 mg/L to 2500 mg/L
64	CHEMICAL- WATER	Surface Water	Total Dissolved Solids	APHA:2540 C 23rd Edition: 2017	10 mg/L to 5000 mg/L
65	CHEMICAL- WATER	Surface water	Total Hardness	APHA 23rd Edition 2340 C: 2017	2 mg/L to 1000 mg/L
66	CHEMICAL- WATER	Surface Water	Total Suspended Solids	APHA 23rd Edition, 2540 D: 2017	5 mg/L to 1000 mg/L