



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

Laboratory Name      POLLUCARE ENGINEERS INDIA PVT LTD, HIG 6152, KAMARAJAR SALAI, TNHB PHASE I & II, AYAPAKKAM, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard      ISO/IEC 17025:2017

Certificate Number      TC-7446      Page No. :      1 / 29

Validity      24/06/2019 to 21/06/2020      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
<b>Permanent Facility</b>					
1	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Ammonia (as NH <sub>3</sub> )	PCEI/SOP/AAQ/001 Issue No. 01 & 23/09/2018: 2018	1 µg/m <sup>3</sup> to 500 µg/m <sup>3</sup>
2	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Oxides of Nitrogen ( as NO <sub>x</sub> )	IS 5182: Part 6: 2006	6 µg/m <sup>3</sup> to 750 µg/m <sup>3</sup>
3	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Ozone (as O <sub>3</sub> )	IS 5182 (Part 9): 1974	5 µg/m <sup>3</sup> to 750 µg/m <sup>3</sup>
4	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Particulate Matter (PM 10)	IS 5182:PART 23: 2006	10 µg/m <sup>3</sup> to 10000 µg/m <sup>3</sup>
5	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Particulate Matter (PM 2.5)	NAAQMS/2012-2013 CPCB VOLUME-II (Gravimetric Method): 2013	10 µg/m <sup>3</sup> to 500 µg/m <sup>3</sup>
6	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Sulphur Dioxide ( as SO <sub>2</sub> )	IS 5182 :Part 2: 2001	8 µg/m <sup>3</sup> to 500 µg/m <sup>3</sup>
7	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Ammonia (as NH <sub>3</sub> )	IS 11255 (Part 6): 1999	5 mg/Nm <sup>3</sup> to 500 mg/Nm <sup>3</sup>
8	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Carbon dioxide (as CO <sub>2</sub> )	IS 13270:1992: 2014	0.2 % to 12.0 %
9	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Carbon Monoxide (as CO)	IS 13270:1992: 2014	0.2 % to 2 %



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10	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Flow Rate	IS 11255 (Part 3): 2008	10 Nm <sup>3</sup> /Hr to 100000 Nm <sup>3</sup> /Hr
11	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Oxides of Nitrogen (NO <sub>x</sub> )	IS 11255 (Part 7): 2005	2 mg/Nm <sup>3</sup> to 1000 mg/Nm <sup>3</sup>
12	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Oxides of Sulphur (as SO <sub>x</sub> )	IS 11255 (Part 02): 1985	5 mg/Nm <sup>3</sup> to 200 mg/Nm <sup>3</sup>
13	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Oxygen (as O <sub>2</sub> )	IS 13270:1992: 2014	0.2 % to 22 %
14	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Particulate Matter (PM)	IS 11255: Part 1: 1985	10 mg/Nm <sup>3</sup> to 1000 mg/N <sub>3</sub>
15	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Temperature	IS 11255 (Part 3): 2008	27 deg C to 600 deg C
16	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission Monitoring	Velocity	IS 11255 (Part 3): 2008	1 m/s to 60 m/s
17	CHEMICAL-ATMOSPHERIC POLLUTION	Work place Environment and Indoor Air Quality	Sulphur dioxide (as SO <sub>2</sub> )	ASTM D2914-01: 2007	0.025 mg/m <sup>3</sup> to 25 mg/m <sup>3</sup>
18	CHEMICAL-POLLUTION & ENVIRONMENT	Soil/Sediments	Ammonical Nitrogen (as NH <sub>3</sub> -N)	IS 14684: 1999: (RA 2014)	2 mg/kg to 10000 mg/kg



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19	CHEMICAL-POLLUTION & ENVIRONMENT	Soil/Sediments	Available Phosphorous (as P)	PCEL/SOP/SOIL/011 Issue No/ Date : 01 & 10/07/2018 (Based on Food and Agriculture organization of the United nation Rome: 2007)	1 µg/g to 500 µg/g
20	CHEMICAL-POLLUTION & ENVIRONMENT	Soil/Sediments	Bicarbonate as HCO <sub>3</sub>	PCEL/SOP/SOIL/008 {(Based on Food and Agriculture organization of the United nation Rome: 2007)}	0.4 meq/L to 500 meq/L
21	CHEMICAL-POLLUTION & ENVIRONMENT	Soil/Sediments	Bulk Density	PCEL/SOP/SOIL/014 {(Based on Food and Agriculture organization of the United nation Rome: 2007)}	0.5 g/cc to 50 g/cc
22	CHEMICAL-POLLUTION & ENVIRONMENT	Soil/Sediments	Carbonate as CO <sub>3</sub>	PCEL/SOP/SOIL/008 Issue No/ Date : 01 & 10/07/2018 (Based on Food and Agriculture organization of the United nation Rome: 2007)	0.4 meq/L to 500 meq/L
23	CHEMICAL-POLLUTION & ENVIRONMENT	Soil/Sediments	Carbonate as CO <sub>3</sub>	PCEL/SOP/SOIL/008 Issue No/ Date : 01 & 10/07/2018 (Based on Food and Agriculture organization of the United nation Rome: 2007)	0.4 meq/L to 500 meq/L



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24	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Chloride (as Cl-)	PCEL/SOP/SOIL/015 Issue No/ Date : 01 & 10/07/2018 (Based on Food and Agriculture organization of the United nation Rome: 2007)	0.5 meq/L to 500 meq/L
25	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Electrical Conductivity @ 25oC	IS 14767: 2000	1 $\mu$ S/cm to 10000 $\mu$ S/cm
26	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Organic Matter/Organic Carbon	IS 2720 (Part 22): 1972	0.05 % to 20 %
27	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	pH @ 25oC	IS 2720 (Part 26): 1987	3 to 12
28	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Pore space	PCEL/SOP/SOIL/013 {(Based on Food and Agriculture organization of the United nation Rome: 2007)}	1 % to 80 %
29	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Soil Texture (Clay)	PCEL/SOP/SOIL/005 Issue No/ Date : 01 & 10/07/2018: ,	1 % to 80 %
30	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Soil Texture (Sand)	PCEI/SOP/SOIL/005 Issue No 01 &: 10/07/2018	1 % to 80 %
31	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Soil Texture (Silt)	PCEI/SOP/SOIL/005 Issue No 01 & 10/07/2018: 2018	1 % to 80 %



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32	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Soluble Calcium (as Ca)	PCEL/SOP/SOIL/007 Issue No/ Date : 01 & 10/07/2018 (Based on Food and Agriculture organization of the United nation Rome: 2007)	0.2 meq/L to 500 meq/L
33	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Soluble Magnesium as Mg	PCEL/SOP/SOIL/009 (Based on Food and Agriculture organization of the United nation Rome: 2007)	0.2 meq/L to 500 meq/L
34	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Sulphate (as SO <sub>4</sub> )	PCEL/SOP/SOIL/010 Issue No/ Date : 01 & 10/07/2018 (Based on Food and Agriculture organization of the United nation Rome: 2007)	1 mg/kg to 500 mg/kg
35	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Total Kjeldhal Nitrogen (as N)	IS 14684:1999: 2014	0.01 % to 20 %
36	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Water content	IS 2720 : Part 2: 1973	0.1 % to 25 %
37	CHEMICAL- POLLUTION & ENVIRONMENT	Soil/Sediments	Water Holding Capacity	PCEI/SOP/SOIL/006 Issue No 01 &: 10/07/2018	0.5 % to 50 %
38	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Waster (Effuents/Sewage)	Dissolved Oxygen (DO)	IS 3025 : Part 38: 1989	1 mg/l to 9 mg/l



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39	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Aluminium (as Al)	IS 3025 (Part 55): 2003	0.05 mg/L to 10 mg/L
40	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Ammoniacal Nitrogen (NH3-N)	IS 3025 (Part 34): 1988 (RA 2019)	1 mg/L to 100 mg/L
41	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Bicarbonate as HCO <sub>3</sub>	IS 3025 (Part 51): 2001 (RA 2019)	2 mg/L to 5000 mg/L
42	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Biochemical Oxygen Demand (BOD) (at 27°C for 3 Days)	IS 3025 : Part 44: 1993 (RA 2019)	2 mg/l to 20,000 mg/l
43	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Boron (as B)	IS 3025 (Part 57): 2005 (RA 2019)	0.1 mg/L to 10 mg/L
44	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Calcium (as Ca)	IS 3025 (Part 40): 1991 (RA 2019)	1 mg/L to 10000 mg/L
45	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Carbonate as CO <sub>3</sub>	IS 3025 (Part 51): 2001 (RA 2019)	2 mg/L to 1000 mg/L
46	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chemical Oxygen Demand (COD)	IS 3025 : Part 58: 2006 (RA 2019)	4 mg/l to 50000 mg/l
47	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Chlorides ( as Cl)	IS 3025 : Part 32: 1988 (RA 2019)	1 mg/l to 10,000 mg/l
48	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Color (True Color)	IS 3025 (Part 4): 1983 (RA 2019)	2 Hazen unit to 500 Hazen unit



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49	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Copper (as Cu)	IS 3025 (Part 42): 1992 (RA 2019)	0.05 mg/L to 10 mg/L
50	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Dissolved Phosphate (as PO4)	IS 3025 (Part 31): 1988 (RA 2019)	0.1 mg/L to 20 mg/L
51	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Electrical Conductivity @ 25oC	IS 3025 (Part 14): 1984 (RA 2019)	1 µS/cm to 90000 µS/cm
52	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Fluoride (as F)	APHA 23rd Edition 4500 F-D: 2017	0.1 mg/L to 20 mg/L
53	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Free Ammonia (as NH3)	IS 3025 (Part 34): 1988 (RA 2019)	0.5 mg/L to 100 mg/L
54	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Free Carbon dioxide (as CO2)	IS 3025 (Part 61): 2008 (RA 2019)	1 mg/L to 100 mg/L
55	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Free Residual Chlorine (as Cl2)	IS 3025 (Part 26): 1986 (RA 2019)	0.1 mg/L to 200 mg/L
56	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Hexavalent Chromium (as Cr6+)	IS 3025 (Part 52): 2003 (RA 2019)	0.03 mg/L to 5 mg/L
57	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Iron (as Fe)	IS 3025 (Part 53): 2003 (RA 2019)	0.05 mg/L to 10 mg/L
58	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Magnesium (as Mg)	IS 3025 (Part 46): 1994 (RA 2019)	0.24 mg/L to 5000 mg/L



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59	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Manganese (as Mn)	IS 3025 (Part 59): 2006 (RA 2019)	0.1 mg/L to 10 mg/L
60	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Nickel (as Ni)	IS 3025 (Part 54): 2003 (RA 2019)	0.05 mg/L to 10 mg/L
61	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Nitrate (as NO <sub>3</sub> )	IS 3025 (Part 34): 1988 (RA 2019)	2 mg/L to 100 mg/L
62	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Nitrite (as NO <sub>2</sub> )	IS 3025 (Part 34): 1988 (RA 2019)	0.01 mg/L to 20 mg/L
63	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Odor	IS 3025 (Part 5): 1983 (RA 2019)	Qualitative((Agreeable/ Disagreeable))
64	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Oil & Grease	IS 3025 (Part 39): 1991 (RA 2019)	5 mg/L to 10000 mg/L
65	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Oil and Grease	IS 3025 (Part 39): 1991 (RA 2019)	5 mg/L to 1000 mg/L
66	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Oxygen Absorbed in 4 Hours	IS 3025 (Part 63): 2007 (RA 2019)	0.4 mg/L to 100 mg/L
67	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	pH @ 25oC	IS 3025 (Part 11): 1983 (RA 2019)	1 to 14
68	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Phenolic Compounds	IS 3025 (Part 43): 1992 (RA 2019)	0.01 mg/L to 10 mg/L





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69	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Silica (as SiO <sub>2</sub> )	IS 3025 (Part 35): 1988 (RA 2019)	1 mg/L to 200 mg/L
70	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sulphate (as SO <sub>4</sub> )	IS 3025: Part 24: 1986 (RA 2019)	1 mg/l to 5000 mg/l
71	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Sulphide (as S-)	IS 3025 (Part 29): 1986 (RA 2019)	2 mg/L to 20 mg/L
72	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Temperature	IS 3025 (Part 09): 1984	20 deg C to 60 deg C
73	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Acidity (as CaCO <sub>3</sub> )	IS 3025 (Part 22): 1986 (RA 2019)	0.5 mg/L to 500 mg/L
74	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (Part 23): 1986 (RA 2019)	1 mg/L to 5000 mg/L
75	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Dissolved Solids	IS 3025 (Part 16): 1984 (RA 2019)	2 mg/L to 50000 mg/L
76	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (Part 21): 2009 (RA 2019)	1 mg/L to 10000 mg/L
77	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Iron (as Fe)	IS 3025 (Part 53): 2003 (RA 2019)	0.1 mg/L to 10 mg/L
78	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water (Effluents/Sewage)	Total Kjeldhal Nitrogen (as N)	IS 3025 (Part 34): 1988 (RA 2019)	1 mg/L to 200 mg/L





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87	CHEMICAL-RESIDUES IN WATER	Drinking Water, Packed Drinking Water, Ground Water, Borewell Water, Water for Food Industry	Nickel (as Ni)	IS 3025 (Part 54): 2003	0.03 mg/L to 5 mg/L
88	CHEMICAL-RESIDUES IN WATER	Drinking Water, Packed Drinking Water, Ground Water, Borewell Water, Water for Food Industry	Phenolic Compounds	IS 3025 (Part 43): 1992	0.0001 mg/L to 10 mg/L
89	CHEMICAL- WATER	Ground water: Bore well Water, Well Water	Acidity (as CaCO <sub>3</sub> )	IS 3025 (Part 22): 1986	0.5 mg/L to 500 mg/L
90	CHEMICAL- WATER	Ground water: Bore well Water, Well Water	Bicarbonate	IS 3025 (Part 51): 2001	1 mg/L to 5000 mg/L
91	CHEMICAL- WATER	Ground water: Bore well Water, Well Water	Calcium (as Ca)	IS 3025 (Part 40): 1991	0.4 mg/L to 2000 mg/L
92	CHEMICAL- WATER	Ground water: Bore well Water, Well Water	Carbonate	IS 3025 (Part 51): 2001	1 mg/L to 5000 mg/L
93	CHEMICAL- WATER	Ground water: Bore well Water, Well Water	Chloride (as Cl <sup>-</sup> )	IS 3025 (Part 32): 1988	1 mg/L to 5000 mg/L
94	CHEMICAL- WATER	Ground water: Bore well Water, Well Water	Color	IS 3025 (Part 4): 1983	1 Hazen to 100 Hazen
95	CHEMICAL- WATER	Ground water: Bore well Water, Well Water	Electrical Conductivity (EC)	IS 3025 (Part 14): 1984	0.1 µS/cm to 90000 µS/cm
96	CHEMICAL- WATER	Ground water: Bore well Water, Well Water	Fluoride (as F <sup>-</sup> )	APHA 23rd Edition 4500 F-D: 2017	0.1 mg/L to 10 mg/L
97	CHEMICAL- WATER	Ground water: Bore well Water, Well Water	Free Residual Chlorine (as Cl <sub>2</sub> )	IS 3025 (Part 26): 1986	1 mg/L to 10 mg/L
98	CHEMICAL- WATER	Ground water: Bore well Water, Well Water	Hexavalent Chromium (as Cr <sup>6+</sup> )	IS 3025 (Part 52): 2003	0.03 mg/L to 5 mg/L



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99	CHEMICAL- WATER	Ground water: Bore well Water, Well Water	Iron (as Fe)	IS 3025 (Part 53): 2003	0.075 mg/L to 10 mg/L
100	CHEMICAL- WATER	Ground water: Bore well Water, Well Water	Magnesium (as Mg)	IS 3025 (Part 46): 1994	0.4 mg/L to 1000 mg/L
101	CHEMICAL- WATER	Ground water: Bore well Water, Well Water	Nitrate (as NO <sub>3</sub> )	IS 3025 (Part 34): 1988	2 mg/L to 100 mg/L
102	CHEMICAL- WATER	Ground water: Bore well Water, Well Water	Nitrite (as NO <sub>2</sub> )	IS 3025 (Part 34): 1988	0.01 mg/L to 10 mg/L
103	CHEMICAL- WATER	Ground water: Bore well Water, Well Water	Odor	IS 3025 (Part 5): 1983	Qualitative
104	CHEMICAL- WATER	Ground water: Bore well Water, Well Water	pH	IS 3025 (Part 11): 1983	1 to 14
105	CHEMICAL- WATER	Ground water: Bore well Water, Well Water	Silica (as SiO <sub>2</sub> )	IS 3025 (Part 35): 1988	1 mg/L to 200 mg/L
106	CHEMICAL- WATER	Ground water: Bore well Water, Well Water	Sulphate (as SO <sub>4</sub> )	IS 3025 (Part 24): 1986	1 mg/L to 5000 mg/L
107	CHEMICAL- WATER	Ground water: Bore well Water, Well Water	Temperature	IS 3025 (Part 9): 1984	20 deg C to 50 deg C
108	CHEMICAL- WATER	Ground water: Bore well Water, Well Water	Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (Part 23): 1986	1 mg/L to 5000 mg/L
109	CHEMICAL- WATER	Ground water: Bore well Water, Well Water	Total Dissolved Solids (TDS)	IS 3025 (Part 16): 1984	1 mg/L to 20000 mg/L
110	CHEMICAL- WATER	Ground water: Bore well Water, Well Water	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (Part 21): 2009	1 mg/L to 5000 mg/L
111	CHEMICAL- WATER	Ground water: Bore well Water, Well Water	Total Solids	IS 3025 (Part 15): 1984	2 mg/L to 50000 mg/L
112	CHEMICAL- WATER	Ground water: Bore well Water, Well Water	Total Suspended Solids (TSS)	IS 3025 (Part 17): 1984	2 mg/L to 5000 mg/L



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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
113	CHEMICAL- WATER	Ground water: Bore well Water, Well Water	Turbidity	IS 3025 (Part 10) : 1984	0.5 NTU to 100 NTU
114	CHEMICAL- WATER	Industrial Water: Water for Boilers, Feed water, Boiler water, Condensate water, Cooling tower water, Soft Water	Acidity (as CaCO <sub>3</sub> )	IS 3025 (Part 22): 1986	0.5 mg/L to 500 mg/L
115	CHEMICAL- WATER	Industrial Water: Water for Boilers, Feed water, Boiler water, Condensate water, Cooling tower water, Soft Water	Ammoniacal Nitrogen (as NH <sub>3</sub> -N)	IS 3025 (Part 34): 1988	1.0 mg/L to 100 mg/L
116	CHEMICAL- WATER	Industrial Water: Water for Boilers, Feed water, Boiler water, Condensate water, Cooling tower water, Soft Water	Boron (as B)	IS 3025 (Part 57): 2005	0.01 mg/L to 2 mg/L
117	CHEMICAL- WATER	Industrial Water: Water for Boilers, Feed water, Boiler water, Condensate water, Cooling tower water, Soft Water	Calcium (as Ca)	IS 3025 (Part 40): 1991	0.4 mg/L to 2000 mg/L
118	CHEMICAL- WATER	Industrial Water: Water for Boilers, Feed water, Boiler water, Condensate water, Cooling tower water, Soft Water	Chloride (as Cl <sup>-</sup> )	IS 3025 (Part 32): 1988	1 mg/L to 5000 mg/L



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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
119	CHEMICAL- WATER	Industrial Water:Water for Boilers, Feed water, Boiler water, Condensate water, Cooling tower water, Soft Water	Color	IS 3025 (Part 4): 1983	1 Hazen to 100 Hazen
120	CHEMICAL- WATER	Industrial Water:Water for Boilers, Feed water, Boiler water, Condensate water, Cooling tower water, Soft Water	Dissolved Oxygen (DO)	IS 3025 (Part 38): 1989	1 mg/L to 8 mg/L
121	CHEMICAL- WATER	Industrial Water:Water for Boilers, Feed water, Boiler water, Condensate water, Cooling tower water, Soft Water	Dissolved Phosphate (as PO <sub>4</sub> )	IS 3025 (Part 31): 1988	0.1 mg/L to 20 mg/L
122	CHEMICAL- WATER	Industrial Water:Water for Boilers, Feed water, Boiler water, Condensate water, Cooling tower water, Soft Water	Electrical Conductivity	IS 3025 (Part 14): 1984	0.1 μS/cm to 90000 μS/cm
123	CHEMICAL- WATER	Industrial Water:Water for Boilers, Feed water, Boiler water, Condensate water, Cooling tower water, Soft Water	Fluoride (as F <sup>-</sup> )	APHA 23rd Edition 4500 F-D: 2017	0.1 mg/L to 5 mg/L



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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
124	CHEMICAL- WATER	Industrial Water:Water for Boilers, Feed water, Boiler water, Condensate water, Cooling tower water, Soft Water	Iron (as Fe)	IS 3025 (Part 53): 2003	0.075 mg/L to 10 mg/L
125	CHEMICAL- WATER	Industrial Water:Water for Boilers, Feed water, Boiler water, Condensate water, Cooling tower water, Soft Water	Magnesium (as Mg)	IS 3025 (Part 46): 1994	0.24 mg/L to 1000 mg/L
126	CHEMICAL- WATER	Industrial Water:Water for Boilers, Feed water, Boiler water, Condensate water, Cooling tower water, Soft Water	Oil and Grease	IS 3025 (Part 39): 1991	5 mg/L to 100 mg/L
127	CHEMICAL- WATER	Industrial Water:Water for Boilers, Feed water, Boiler water, Condensate water, Cooling tower water, Soft Water	Oxygen absorbed in 4 Hours	IS 3025 (Part 63): 2007	0.4 mg/L to 100 mg/L
128	CHEMICAL- WATER	Industrial Water:Water for Boilers, Feed water, Boiler water, Condensate water, Cooling tower water, Soft Water	pH	IS 3025 (Part 11): 1983	1 to 14



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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
129	CHEMICAL- WATER	Industrial Water: Water for Boilers, Feed water, Boiler water, Condensate water, Cooling tower water, Soft Water	Silica (as SiO <sub>2</sub> )	IS 3025 (Part 35): 1988	1 mg/L to 200 mg/L
130	CHEMICAL- WATER	Industrial Water: Water for Boilers, Feed water, Boiler water, Condensate water, Cooling tower water, Soft Water	Sulphate (as SO <sub>4</sub> )	IS 3025 (Part 24): 1986	1 mg/L to 5000 mg/L
131	CHEMICAL- WATER	Industrial Water: Water for Boilers, Feed water, Boiler water, Condensate water, Cooling tower water, Soft Water	Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (Part 23): 1986	1 mg/L to 500 mg/L
132	CHEMICAL- WATER	Industrial Water: Water for Boilers, Feed water, Boiler water, Condensate water, Cooling tower water, Soft Water	Total Dissolved Solids (TDS)	IS 3025 (Part 16): 1984	1 mg/L to 20000 mg/L
133	CHEMICAL- WATER	Industrial Water: Water for Boilers, Feed water, Boiler water, Condensate water, Cooling tower water, Soft Water	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (Part 21): 2009	1 mg/L to 500 mg/L





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134	CHEMICAL- WATER	Industrial Water:Water for Boilers, Feed water, Boiler water, Condensate water, Cooling tower water, Soft Water	Total Solids	IS 3025 (Part 15): 1984	2 mg/L to 20000 mg/L
135	CHEMICAL- WATER	Industrial Water:Water for Boilers, Feed water, Boiler water, Condensate water, Cooling tower water, Soft Water	Turbidity	IS 3025 (Part 10): 1984	1 NTU to 100 NTU
136	CHEMICAL- WATER	Packaged Drinking Water, Drinking Water & Natural Mineral Water	Acidity (as CaCO <sub>3</sub> )	IS 3025 (Part 22): 1986	0.5 mg/L to 500 mg/L
137	CHEMICAL- WATER	Packaged Drinking Water, Drinking Water & Natural Mineral Water	Ammonia (as Total Ammonia - N)	IS 3025 (Part 34): 1988	0.1 mg/L to 10 mg/L
138	CHEMICAL- WATER	Packaged Drinking Water, Drinking Water & Natural Mineral Water	Bicarbonate	IS 3025 (Part 51): 2001	1 mg/L to 1000 mg/L
139	CHEMICAL- WATER	Packaged Drinking Water, Drinking Water & Natural Mineral Water	Calcium (as Ca)	IS 3025 (Part 40): 1991	0.4 mg/L to 2000 mg/L
140	CHEMICAL- WATER	Packaged Drinking Water, Drinking Water & Natural Mineral Water	Carbonate	IS 3025 (Part 51): 2001	1 mg/L to 500 mg/L



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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
141	CHEMICAL- WATER	Packaged Drinking Water, Drinking Water & Natural Mineral Water	Chloride (as Cl-)	IS 3025 (Part 32): 1988	1 mg/L to 1500 mg/L
142	CHEMICAL- WATER	Packaged Drinking Water, Drinking Water & Natural Mineral Water	Colour	IS 3025 (Part 4): 1983	1 Hazen to 100 Hazen
143	CHEMICAL- WATER	Packaged Drinking Water, Drinking Water & Natural Mineral Water	Electrical Conductivity (EC)	IS 3025 (Part 14): 1984	1 $\mu$ S/cm to 10000 $\mu$ S/cm
144	CHEMICAL- WATER	Packaged Drinking Water, Drinking Water & Natural Mineral Water	Fluoride (as F-)	APHA 23rd Edition 4500 F-D: 2017	0.1 mg/L to 10 mg/L
145	CHEMICAL- WATER	Packaged Drinking Water, Drinking Water & Natural Mineral Water	Free Residual Chlorine (as Cl <sub>2</sub> )	IS 3025 (Part 26): 1986	1 mg/L to 10 mg/L
146	CHEMICAL- WATER	Packaged Drinking Water, Drinking Water & Natural Mineral Water	Iron (as Fe)	IS 3025 (Part 53): 2003	0.1 mg/L to 5 mg/L
147	CHEMICAL- WATER	Packaged Drinking Water, Drinking Water & Natural Mineral Water	Magnesium (as Mg)	IS 3025 (Part 46): 1994	0.24 mg/L to 1000 mg/L



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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
148	CHEMICAL- WATER	Packaged Drinking Water, Drinking Water & Natural Mineral Water	Nitrate (as NO <sub>3</sub> )	APHA 23rd Edition 4500 NO <sub>3</sub> , Part B: 1992	1 mg/L to 100 mg/L
149	CHEMICAL- WATER	Packaged Drinking Water, Drinking Water & Natural Mineral Water	Nitrite (as NO <sub>2</sub> )	IS 3025 (Part 34): 1988	0.01 mg/L to 5 mg/L
150	CHEMICAL- WATER	Packaged Drinking Water, Drinking Water & Natural Mineral Water	Odour	IS 3025 (Part 5): 1983	Qualitative
151	CHEMICAL- WATER	Packaged Drinking Water, Drinking Water & Natural Mineral Water	pH @ 25oC	IS 3025 (Part 11): 1983	5 to 12
152	CHEMICAL- WATER	Packaged Drinking Water, Drinking Water & Natural Mineral Water	Silica (as SiO <sub>2</sub> )	IS 3025 (Part 35): 1988	0.1 mg/L to 50 mg/L
153	CHEMICAL- WATER	Packaged Drinking Water, Drinking Water & Natural Mineral Water	Sulphate (as SO <sub>4</sub> )	IS 3025 (Part 24): 1986	1 mg/L to 1500 mg/L
154	CHEMICAL- WATER	Packaged Drinking Water, Drinking Water & Natural Mineral Water	Taste	IS 3025 (Part 7): 1984	Qualitative



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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
155	CHEMICAL- WATER	Packaged Drinking Water, Drinking Water & Natural Mineral Water	Temperature	IS 3025 (Part 9): 1984	20 deg C to 50 deg C
156	CHEMICAL- WATER	Packaged Drinking Water, Drinking Water & Natural Mineral Water	Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (Part 23): 1986	1 mg/L to 500 mg/L
157	CHEMICAL- WATER	Packaged Drinking Water, Drinking Water & Natural Mineral Water	Total Dissolved Solids (TDS)	IS 3025 (Part 16): 1984	1 mg/L to 2500 mg/L
158	CHEMICAL- WATER	Packaged Drinking Water, Drinking Water & Natural Mineral Water	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (Part 21): 2009	1 mg/L to 1000 mg/L
159	CHEMICAL- WATER	Packaged Drinking Water, Drinking Water & Natural Mineral Water	Turbidity (as NTU)	IS 3025 (Part 10): 1984	0.1 NTU to 100 NTU
160	CHEMICAL- WATER	Reagent Grade Water	Color retention of KMnO <sub>4</sub>	IS 1070:1992: 1992	Qualitative
161	CHEMICAL- WATER	Reagent Grade Water	pH	IS 3025 (Part 11): 1983	1 to 14
162	CHEMICAL- WATER	Reagent Grade Water	Silica as SiO <sub>2</sub>	IS 3025 (Part 35): 1988	0.1 mg/L to 10 mg/L
163	CHEMICAL- WATER	Reagent Grade Water	Specific Conductance	IS 3025 (Part 14): 1984	0.1 µS/cm to 20 µS/cm
164	CHEMICAL- WATER	Reagent Grade Water	Total Solids / Non Volatile Residue at 105°C	IS 3025 (Part 15): 1984	1 mg/L to 10 mg/L
165	CHEMICAL- WATER	RO water	Acidity (as CaCO <sub>3</sub> )	IS 3025 (Part 22): 1986	0.5 mg/L to 500 mg/L
166	CHEMICAL- WATER	RO Water	Bicarbonate	IS 3025 (Part 51): 2001	1 mg/L to 5000 mg/L

This is annexure to 'Certificate of Accreditation' and does not require any signature.



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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
167	CHEMICAL- WATER	RO Water	Carbonate	IS 3025 (Part 51): 2001	1 mg/L to 5000 mg/L
168	CHEMICAL- WATER	RO water	Chloride (as Cl <sup>-</sup> )	IS 3025 (Part 32): 1988	1 mg/L to 5000 mg/L
169	CHEMICAL- WATER	RO water	Color	IS 3025 (Part 4): 1983	1 HU to 100 HU
170	CHEMICAL- WATER	RO water	Electrical Conductivity (EC)	IS 3025 (Part 14): 1984	1 µS/cm to 90000 µS/cm
171	CHEMICAL- WATER	RO water	Fluoride (as F)	APHA 23rd Edition 4500 F-D: 2017	0.1 mg/L to 10 mg/L
172	CHEMICAL- WATER	RO water	Free Residual Chlorine (as Cl <sub>2</sub> )	IS 3025 (Part 26): 1986	1 mg/L to 10 mg/L
173	CHEMICAL- WATER	RO water	Iron (as Fe)	IS 3025 (Part 53): 2003	0.075 mg/L to 10 mg/L
174	CHEMICAL- WATER	RO water	Magnesium (as Mg)	IS 3025 (Part 46): 1994	0.4 mg/L to 1000 mg/L
175	CHEMICAL- WATER	RO water	Nitrate (as NO <sub>3</sub> )	IS 3025 (Part 34): 1988	1 mg/L to 100 mg/L
176	CHEMICAL- WATER	RO Water	Nitrite (as NO <sub>2</sub> )	IS 3025 (Part 34): 1988	0.01 mg/L to 10 mg/L
177	CHEMICAL- WATER	RO water	Odor	IS 3025 (Part 5): 1983	Qualitative
178	CHEMICAL- WATER	RO water	pH	IS 3025 (Part 11): 1983	1 to 14
179	CHEMICAL- WATER	RO water	Silica (as SiO <sub>2</sub> )	IS 3025 (Part 35): 1988	0.5 mg/L to 50 mg/L
180	CHEMICAL- WATER	RO water	Sulphate (as SO <sub>4</sub> )	IS 3025 (Part 24): 1986	1 mg/L to 5000 mg/L
181	CHEMICAL- WATER	RO water	Taste	IS 3025 (Part 7): 1984	Qualitative
182	CHEMICAL- WATER	RO water	Temperature	IS 3025 (Part 9): 1984	20 deg C to 50 deg C
183	CHEMICAL- WATER	RO water	Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (Part 23): 1986	1 mg/L to 500 mg/L
184	CHEMICAL- WATER	RO water	Total Dissolved Solids (TDS)	IS 3025 (Part 16): 1984	1 mg/L to 500 mg/L
185	CHEMICAL- WATER	RO Water	Total Hardness as CaCO <sub>3</sub>	IS 3025:Part 21: 2009	1 mg/l to 500 mg/l



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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
186	CHEMICAL- WATER	RO water	Turbidity	IS 3025 (Part 10): 1984	0.1 NTU to 1 NTU
187	CHEMICAL- WATER	Surface Water	Calcium Hardness as CaCO <sub>3</sub>	APHA 23rd Edition 3500 Ca-B: 2017	1 mg/l to 5000 mg/l
188	CHEMICAL- WATER	Surface Water	Carbonate Hardness	IS 3025: Part 21: 2009	1 mg/l to 1000 mg/l
189	CHEMICAL- WATER	Surface Water	Magnesium Hardness	APHA 23rd Edition 3500 Mg-B: 2017	1 mg/l to 2000 mg/l
190	CHEMICAL- WATER	Surface Water	Non-Carbonate Water	IS 3025: Part 21: 2009	1 mg/l to 2000 mg/l
191	CHEMICAL- WATER	Surface water: Raw Water: Treated Water, Water for irrigation purpose	Acidity (as CaCO <sub>3</sub> )	IS 3025 (Part 22): 1986	0.5 mg/L to 500 mg/L
192	CHEMICAL- WATER	Surface water: Raw Water: Treated Water, Water for irrigation purpose	Ammoniacal Nitrogen (as NH <sub>3</sub> -N)	IS 3025 (Part 34): 1988	1.0 mg/L to 100 mg/L
193	CHEMICAL- WATER	Surface water: Raw Water: Treated Water, Water for irrigation purpose	Bicarbonate	IS 3025 (Part 51): 2001	1 mg/L to 5000 mg/L
194	CHEMICAL- WATER	Surface water: Raw Water: Treated Water, Water for irrigation purpose	Biochemical Oxygen Demand (BOD) at 27°C for 3 days	IS 3025 (Part 44): 1993	2 mg/L to 1000 mg/L
195	CHEMICAL- WATER	Surface water: Raw Water: Treated Water, Water for irrigation purpose	Calcium (as Ca)	IS 3025 (Part 40): 1991	0.4 mg/L to 2000 mg/L



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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
196	CHEMICAL- WATER	Surface water: Raw Water: Treated Water, Water for irrigation purpose	Carbonates	IS 3025 (Part 51): 2001	1 mg/L to 5000 mg/L
197	CHEMICAL- WATER	Surface water: Raw Water: Treated Water, Water for irrigation purpose	Chemical Oxygen Demand (COD)	IS 3025 (Part 58): 2006	4 mg/L to 5000 mg/L
198	CHEMICAL- WATER	Surface water: Raw Water: Treated Water, Water for irrigation purpose	Chloride (as Cl-)	IS 3025 (Part 32): 1988	1 mg/L to 5000 mg/L
199	CHEMICAL- WATER	Surface water: Raw Water: Treated Water, Water for irrigation purpose	Color	IS 3025 (Part 4): 1983	1 Hazen to 100 Hazen
200	CHEMICAL- WATER	Surface water: Raw Water: Treated Water, Water for irrigation purpose	Dissolved Oxygen (DO)	IS 3025 (Part 38): 1989	1 mg/L to 8 mg/L
201	CHEMICAL- WATER	Surface water: Raw Water: Treated Water, Water for irrigation purpose	Dissolved Phosphate (as PO <sub>4</sub> )	IS 3025 (Part 31): 1988	0.1 mg/L to 20 mg/L
202	CHEMICAL- WATER	Surface water: Raw Water: Treated Water, Water for irrigation purpose	Electrical Conductivity (EC)	IS 3025 (Part 14): 1984	1 µS/cm to 50000 µS/cm



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203	CHEMICAL- WATER	Surface water: Raw Water: Treated Water, Water for irrigation purpose	Fluoride (as F <sup>-</sup> )	APHA 23rd Edition 4500 F-D: 2017	0.1 mg/L to 10 mg/L
204	CHEMICAL- WATER	Surface water: Raw Water: Treated Water, Water for irrigation purpose	Free Carbon dioxide (as CO <sub>2</sub> )	IS 3025 (Part 61): 2008	0.5 mg/L to 20 mg/L
205	CHEMICAL- WATER	Surface water: Raw Water: Treated Water, Water for irrigation purpose	Free Residual Chlorine (as Cl <sub>2</sub> )	IS 3025 (Part 26): 1986	1 mg/L to 10 mg/L
206	CHEMICAL- WATER	Surface water: Raw Water: Treated Water, Water for irrigation purpose	Iron (as Fe)	IS 3025 (Part 53): 2003	0.075 mg/L to 10 mg/L
207	CHEMICAL- WATER	Surface water: Raw Water: Treated Water, Water for irrigation purpose	Magnesium (as Mg)	IS 3025 (Part 46): 1994	0.24 mg/L to 1000 mg/L
208	CHEMICAL- WATER	Surface water: Raw Water: Treated Water, Water for irrigation purpose	Nitrate (as NO <sub>3</sub> )	IS 3025 (Part 34): 1988	2 mg/L to 100 mg/L
209	CHEMICAL- WATER	Surface water: Raw Water: Treated Water, Water for irrigation purpose	Nitrite (as NO <sub>2</sub> )	IS 3025 (Part 34): 1988	0.01 mg/L to 10 mg/L





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## SCOPE OF ACCREDITATION

Laboratory Name POLLUCARE ENGINEERS INDIA PVT LTD, HIG 6152, KAMARAJAR SALAI, TNHB PHASE I & II, AYAPAKKAM, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7446 Page No. : 25 / 29

Validity 24/06/2019 to 21/06/2020 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
210	CHEMICAL- WATER	Surface water: Raw Water: Treated Water, Water for irrigation purpose	Odor	IS 3025 (Part 5): 1983	Qualitative
211	CHEMICAL- WATER	Surface water: Raw Water: Treated Water, Water for irrigation purpose	Oil and Grease	IS 3025 (Part 39): 1991	5 mg/L to 100 mg/L
212	CHEMICAL- WATER	Surface water: Raw Water: Treated Water, Water for irrigation purpose	pH @ 25oC	IS 3025 (Part 11): 1983	1 to 14
213	CHEMICAL- WATER	Surface water: Raw Water: Treated Water, Water for irrigation purpose	Silica (as SiO <sub>2</sub> )	IS 3025 (Part 35): 1988	0.5 mg/L to 100 mg/L
214	CHEMICAL- WATER	Surface water: Raw Water: Treated Water, Water for irrigation purpose	Sulphate (as SO <sub>4</sub> )	IS 3025 (Part 24): 1986	1 mg/L to 5000 mg/L
215	CHEMICAL- WATER	Surface water: Raw Water: Treated Water, Water for irrigation purpose	Temperature	IS 3025 (Part 9): 1984	20 deg C to 50 deg C
216	CHEMICAL- WATER	Surface water: Raw Water: Treated Water, Water for irrigation purpose	Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (Part 23): 1986	1 mg/L to 5000 mg/L



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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
217	CHEMICAL- WATER	Surface water: Raw Water: Treated Water, Water for irrigation purpose	Total Dissolved Solids (TDS)	IS 3025 (Part 16): 1984	1 mg/L to 20000 mg/L
218	CHEMICAL- WATER	Surface water: Raw Water: Treated Water, Water for irrigation purpose	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (Part 21): 2009	1 mg/L to 5000 mg/L
219	CHEMICAL- WATER	Surface water: Raw Water: Treated Water, Water for irrigation purpose	Total Kjeldahl Nitrogen (as N)	IS 3025 (Part 34): 1988	1.0 mg/L to 200 mg/L
220	CHEMICAL- WATER	Surface water: Raw Water: Treated Water, Water for irrigation purpose	Total Phosphorous (as P)	IS 3025 (Part 31): 1988	0.1 mg/L to 10 mg/L
221	CHEMICAL- WATER	Surface water: Raw Water: Treated Water, Water for irrigation purpose	Turbidity	IS 3025 (Part 10): 1984	0.5 NTU to 100 NTU
222	CHEMICAL- WATER	Water for Food Industry	Calcium (as Ca)	IS 3025 (Part 40): 1991	0.4 mg/L to 2000 mg/L
223	CHEMICAL- WATER	Water for Food Industry	Chloride (as Cl <sup>-</sup> )	IS 3025 (Part 32): 1988	1 mg/L to 5000 mg/L
224	CHEMICAL- WATER	Water for Food Industry	Color	IS 3025 (Part 4): 1983	1 Hazen to 100 Hazen
225	CHEMICAL- WATER	Water for Food Industry	Electrical Conductivity (EC)	IS 3025 (Part 14): 1984	0.1 µS/cm to 90000 µS/cm
226	CHEMICAL- WATER	Water for Food Industry	Fluoride (as F <sup>-</sup> )	APHA 23rd Edition 4500 F-D: 2017	0.1 mg/L to 10 mg/L
227	CHEMICAL- WATER	Water for Food Industry	Hexavalent Chromium (as Cr <sup>6+</sup> )	IS 3025 (Part 52): 2003	0.03 mg/L to 5 mg/L
228	CHEMICAL- WATER	Water for Food Industry	Iron (as Fe)	IS 3025 (Part 53): 2003	0.075 mg/L to 10 mg/L

This is annexure to 'Certificate of Accreditation' and does not require any signature.



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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
229	CHEMICAL- WATER	Water for Food Industry	Magnesium (as Mg)	IS 3025 (Part 46): 1994	0.24 mg/L to 1000 mg/L
230	CHEMICAL- WATER	Water for Food Industry	Nitrate (as NO <sub>3</sub> )	APHA 23rd Edition 4500 NO <sub>3</sub> , Part B: 2017	1 mg/L to 100 mg/L
231	CHEMICAL- WATER	Water for Food Industry	Odor	IS 3025 (Part 5): 1983	Qualitative
232	CHEMICAL- WATER	Water for Food Industry	pH	IS 3025 (Part 11): 1983	1 to 14
233	CHEMICAL- WATER	Water for Food Industry	Sulphate (as SO <sub>4</sub> )	IS 3025 (Part 24): 1986	1 mg/L to 5000 mg/L
234	CHEMICAL- WATER	Water for Food Industry	Taste	IS 3025 (Part 7): 1984	Qualitative
235	CHEMICAL- WATER	Water for Food Industry	Temperature	IS 3025 (Part 9): 1984	20 deg C to 50 deg C
236	CHEMICAL- WATER	Water for Food Industry	Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (Part 23): 1986	1 mg/L to 5000 mg/L
237	CHEMICAL- WATER	Water for Food Industry	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (Part 21): 2009	1 mg/L to 5000 mg/L
238	CHEMICAL- WATER	Water for Food Industry	Total Solids	IS 3025 (Part 15): 1984	2 mg/L to 10000 mg/L
239	CHEMICAL- WATER	Water for Food Industry	Turbidity (as NTU)	IS 3025 (Part 10): 1984	1 NTU to 100 NTU
240	CHEMICAL- WATER	Water for Swimming pool	Aluminium (as Al)	IS 3025 (Part 55): 2003	0.05 mg/L to 5 mg/L
241	CHEMICAL- WATER	Water for Swimming pool	Chloride (as Cl <sup>-</sup> )	IS 3025 (Part 32): 1988	1 mg/L to 500 mg/L
242	CHEMICAL- WATER	Water for Swimming pool	Color	IS 3025 (Part 4): 1983	1 Hazen to 100 Hazen
243	CHEMICAL- WATER	Water for Swimming pool	Free Residual Chlorine as Cl <sub>2</sub>	IS 3025 (Part 26): 1986	1 mg/L to 10 mg/L
244	CHEMICAL- WATER	Water for Swimming pool	Iron (as Fe)	IS 3025 (Part 53): 2003	0.075 mg/L to 10 mg/L



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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
245	CHEMICAL- WATER	Water for Swimming pool	Odor	IS 3025 (Part 5): 1983	Qualitative
246	CHEMICAL- WATER	Water for Swimming pool	Oxygen Absorbed in 4 Hours	IS 3025 (Part 63): 2007	0.4 mg/L to 100 mg/L
247	CHEMICAL- WATER	Water for Swimming pool	pH	IS 3025 (Part 11): 1983	1 to 14
248	CHEMICAL- WATER	Water for Swimming pool	Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (Part 23): 1986	1 mg/L to 500 mg/L
249	CHEMICAL- WATER	Water for Swimming pool	Total Dissolved Solids (TDS)	IS 3025 (Part 16): 1984	1 mg/L to 500 mg/L
250	CHEMICAL- WATER	Water for Swimming pool	Turbidity	IS 3025 (Part 10): 1984	0.5 NTU to 100 NTU



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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
<b>Site Facility</b>					
1	CHEMICAL-ATMOSPHERIC POLLUTION	Illumination Monitoring	Illumination (as Lux)	IS 3646 Part 1 & 2, IS 6665: 1992	10 Lux to 100000 Lux
2	CHEMICAL-ATMOSPHERIC POLLUTION	Indoor Air Quality	Ambient Temperature (oC / F)	PCEI/SOP/IAQ/004: 2017	Ambient (+) 50 oC
3	CHEMICAL-ATMOSPHERIC POLLUTION	Indoor Air Quality	Carbon Monoxide (as CO)	NIOSH: Manual of Analytical Method(NMAM), Fourth Edition, 6604: 1996	2 mg/m <sup>3</sup> to 100 mg/m <sup>3</sup>
4	CHEMICAL-ATMOSPHERIC POLLUTION	Indoor Air Quality	Relative Humidity (%)	PCEI/SOP/IAQ/004: 2017	1 % to 100 %
5	CHEMICAL-ATMOSPHERIC POLLUTION	Noise Level Monitoring	Ambient Noise Levels (Leq)	IS 9989: 1981	30 dB to 130 dB
6	CHEMICAL-ATMOSPHERIC POLLUTION	Source Noise Levels (Excluding Vibration)	Lmax, Lmin, Leq	IS 9989: 1981	50 dB(A) to 130 dB(A)