



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

Laboratory Name PRAGATHI LABS & CONSULTANTS PRIVATE LIMITED, PLOT NO. B15 & 16, INDUSTRIAL ESTATE, SANATH NAGAR, HYDERABAD, TELANGANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5741 Page No. : 1 / 16

Validity 06/05/2019 to 05/05/2021 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	BIOLOGICAL- ENVIRONMENT AND POLLUTION	Air	Coliforms	PLCPL-QC-SOP-AIR-001: 2018	Qualitative( >1 cfu /plate/15 mins. MU not applicable.)
2	BIOLOGICAL- ENVIRONMENT AND POLLUTION	Air	Escherichia coli	PLCPL-QC-SOP-AIR-002: 2018	Qualitative(Present/Absent per 15 mins. MU not applicable)
3	BIOLOGICAL- ENVIRONMENT AND POLLUTION	Air	Total Plate Count	PLCPL-QC-SOP-AIR-003: 2018	Qualitative( >1 cfu /plate/15 mins. MU not applicable.)
4	BIOLOGICAL- ENVIRONMENT AND POLLUTION	Air	Yeast and Moulds	PLCPL-QC-SOP-AIR-004: 2018	Qualitative(>1 cfu /plate/15 mins. MU not applicable.)
5	BIOLOGICAL- ENVIRONMENT AND POLLUTION	Effluents/Waste Water	Aerobic Plate Count	IS 1622: 1981	1 cfu/ml/plate to 300 cfu/ml/plate
6	BIOLOGICAL- ENVIRONMENT AND POLLUTION	Effluents/Waste Water	Coliforms	Section 9221, APHA 23rd Edn: 2017	1.8 MPN/100ml to 1600 MPN/100ml
7	BIOLOGICAL- ENVIRONMENT AND POLLUTION	Effluents/Waste Water	Escherichia coli	Section 9221G(2), APHA 23rd Edn.: 2017	1.8 MPN/100ml to 1600 MPN/100ml
8	BIOLOGICAL- ENVIRONMENT AND POLLUTION	Effluents/Waste Water	Yeast and moulds	IS 5403: 1999	1 cfu/ml to 300 cfu/ml
9	BIOLOGICAL- ENVIRONMENT AND POLLUTION	Swabs	Coliforms	PLCPL-QC-SOP-SWAB-001: 2018	Qualitative(>1 cfu /swab/cm <sup>2</sup> )



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10	BIOLOGICAL- ENVIRONMENT AND POLLUTION	Swabs	Escherichia coli	PLCPL-QC-SOP-SWAB-003: 2018	Qualitative(Presence/Absence per swab/cm <sup>2</sup> )
11	BIOLOGICAL- ENVIRONMENT AND POLLUTION	Swabs	Total plate count	PLCPL-QC-SOP-SWAB-003: 2018	Qualitative(>1 cfu /swab/cm <sup>2</sup> )
12	BIOLOGICAL- WATER	Drinking water/ Ground water/ Bore water	Yeast and Moulds	IS 5403: 1999	1 cfu/ml to 300 cfu/ml
13	BIOLOGICAL- WATER	Drinking Water/Ground water/ bore water	Aerobic Colony Count at 37degC for 48 hours	IS 1622: 1981	1 cfu/ml/plate to 300 cfu/ml/plate
14	BIOLOGICAL- WATER	Drinking Water/Ground water/ Bore water	Escherichia coli	IS 15185: 2016	Qualitative(Present/Absent per 100ml)
15	BIOLOGICAL- WATER	Drinking water/Ground Water/Bore water	Coliform bacteria	IS 15185: 2016	1 cfu/100ml to 100 cfu/100ml
16	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Benzene	IS 5182 Part -11:2006: 2012	2 µg/m <sup>3</sup> to 100 µg/m <sup>3</sup>
17	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air	Benzo-a-pyrene Particulate phase	IS 5182 Part -12:2004: 2014	0.5 ng/m <sup>3</sup> to 10 ng/m <sup>3</sup>
18	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air Quality	Ammonia as NH <sub>3</sub>	Method: 401, AWMA: 2016	5 µg/m <sup>3</sup> to 1000 µg/m <sup>3</sup>
19	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air Quality	Arsenic as As	Method: 804, AWMA , 3rd edn: 2016	1 ng/m <sup>3</sup> to 100 ng/m <sup>3</sup>
20	CHEMICAL- ATMOSPHERIC POLLUTION	Ambient Air Quality	Lead as Pb	IS 5182 (Part 22):2004: 2014	0.04 µg/m <sup>3</sup> to 10 µg/m <sup>3</sup>



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21	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air Quality	Nickel as Ni	Method: 822, AWMA , 3rd edn: 2016	10 ng/m <sup>3</sup> to 100 ng/m <sup>3</sup>
22	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air Quality	Oxides of Nitrogen	IS 5182 (Part 6):2006: 2012	7 µg/m <sup>3</sup> to 750 µg/m <sup>3</sup>
23	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air Quality	Ozone as O <sub>3</sub>	IS 5182 (Part 9):1974: 2014	5 µg/m <sup>3</sup> to 1000 µg/m <sup>3</sup>
24	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air Quality	Particulate Matter (PM <sub>2.5</sub> )	PLCPL-QC-SOP-AIR-004: 2010	5 µg/m <sup>3</sup> to 500 µg/m <sup>3</sup>
25	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air Quality	Respirable Suspended Particulate Matter (PM <sub>10</sub> )	IS 5182 (Part 23):2006: 2012	5 µg/m <sup>3</sup> to 5000 µg/m <sup>3</sup>
26	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air Quality	Sulphur Dioxide as SO <sub>2</sub>	IS 5182 (Part 2):2001: 2012	5 µg/m <sup>3</sup> to 1000 µg/m <sup>3</sup>
27	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air Quality	Suspended Particulate Matter	IS 5182 (Part 4):1999: 2014	10 µg/m <sup>3</sup> to 5000 µg/m <sup>3</sup>
28	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air Quality/Fugitive Emissions Monitoring	Carbon Monoxide	IS 5182 Part 10: 1999	50 µg/m <sup>3</sup> to 1000 µg/m <sup>3</sup>
29	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Noise Levels - Noise Monitoring	Noise level Leq dB(A) Ambient	IS 9989:1981: 2008	30 dB(A) to 130 dB(A)
30	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Noise Levels - Noise Monitoring	Noise levels source(Machinery, vehicles, Blasts)	IS 4758-1968: 2007	30 dB(A) to 130 dB(A)



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31	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Noise Levels - Noise Monitoring	Occupational noise exposure (by noise dosimeter)	IS 7194-1994: 2008	40 dB(A) to 140 dB(A)
32	CHEMICAL-ATMOSPHERIC POLLUTION	Fugitive Emission	Flow rate	IS 11255 Part3: 2008	10 m <sup>3</sup> /hr to 100000 m <sup>3</sup> /hr
33	CHEMICAL-ATMOSPHERIC POLLUTION	Fugitive Emission	Flue gas Velocity	IS 11255 Part3: 2008	3 m/s to 60 m/s
34	CHEMICAL-ATMOSPHERIC POLLUTION	Fugitive Emission	Oxides Of Nitrogen	IS 11255 Part7: 2005	2 mg/m <sup>3</sup> to 10000 mg/m <sup>3</sup>
35	CHEMICAL-ATMOSPHERIC POLLUTION	Fugitive Emission	Particulate Matter	IS 11255 Part3: 2008	5 mg/Nm <sup>3</sup> to 1000 mg/Nm <sup>3</sup>
36	CHEMICAL-ATMOSPHERIC POLLUTION	Fugitive Emission	Sulphur dioxide as SO <sub>2</sub>	IS 11255 Part2: 1985	5 mg/Nm <sup>3</sup> to 5000 mg/Nm <sup>3</sup>
37	CHEMICAL-ATMOSPHERIC POLLUTION	Fugitive emission	Temperature	IS 11255 Part3: 2008	5 °C to 600 °C
38	CHEMICAL-ATMOSPHERIC POLLUTION	Fugitive Emission	VOC	USB EPA 21, Photo ionization detector: 1999	0.1 µg/m <sup>3</sup> to 10000 µg/m <sup>3</sup>
39	CHEMICAL-ATMOSPHERIC POLLUTION	Meteorological Parameters	Pressure	USEPA-454/R-99-005: 2000	374.5 hPa to 823.8 hPa
40	CHEMICAL-ATMOSPHERIC POLLUTION	Meteorological Parameters	Rain fall	USEPA-454/R-99-005: 2000	1 mm to 19.99 cm



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41	CHEMICAL-ATMOSPHERIC POLLUTION	Meteorological Parameters	Relative humidity	USEPA-454/R-99-005: 2000	0 % to 99 %
42	CHEMICAL-ATMOSPHERIC POLLUTION	Meteorological Parameters	Temperature	USEPA-454/R-99-005: 2000	-5 °C to 50 °C
43	CHEMICAL-ATMOSPHERIC POLLUTION	Meteorological Parameters	Wind direction	USEPA-454/R-99-005: 2000	0 ° to 360 °
44	CHEMICAL-ATMOSPHERIC POLLUTION	Meteorological Parameters	Wind speed	USEPA-454/R-99-005: 2000	0 km/h to 199.9 km/h
45	CHEMICAL-ATMOSPHERIC POLLUTION	Process/Vent Emission	Flue Gas Velocity	IS 11255 Part3: 2008	3 m/s to 60 m/s
46	CHEMICAL-ATMOSPHERIC POLLUTION	Process/Vent Emission	Oxides Of Nitrogen	IS 11255 Part7: 2005	2 mg/Nm <sup>3</sup> to 10000 mg/Nm <sup>3</sup>
47	CHEMICAL-ATMOSPHERIC POLLUTION	Process/Vent Emission	Temperature	IS 11255 Part3: 2008	5 °C to 600 °C
48	CHEMICAL-ATMOSPHERIC POLLUTION	Process/Vent Emission	VOC	US EPA 21, Photo Ionization: 1999	0.1 ppm to 10000 ppm
49	CHEMICAL-ATMOSPHERIC POLLUTION	Process/Vent Emissions	Flow Rate	IS 11255 Part3: 2008	10 m <sup>3</sup> /hr to 100000 m <sup>3</sup> /hr
50	CHEMICAL-ATMOSPHERIC POLLUTION	Process/Vent Emissions	Particulate Matter	IS 11255 Part1: 1985	5 mg/m <sup>3</sup> to 1000 mg/m <sup>3</sup>



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51	CHEMICAL-ATMOSPHERIC POLLUTION	Process/Vent Emissions	Sulphur dioxide as SO <sub>2</sub>	IS 11255 Part2: 1985	5 mg/m <sup>3</sup> to 5000 mg/m <sup>3</sup>
52	CHEMICAL-ATMOSPHERIC POLLUTION	Stack emissions / Gaseous Pollutants Excluding Vehicular	Flow rate	IS 11255 (Part 3): 2008	10 m <sup>3</sup> /hr to 100000 m <sup>3</sup> /hr
53	CHEMICAL-ATMOSPHERIC POLLUTION	Stack emissions / Gaseous Pollutants Excluding Vehicular	Flue gas velocity	IS 11255 (Part 3): 2008	3 m/s to 60 m/s
54	CHEMICAL-ATMOSPHERIC POLLUTION	Stack emissions / Gaseous Pollutants Excluding Vehicular	Particulate matter	IS 11255 (Part 1)1985: 2014	5 mg/Nm <sup>3</sup> to 1000 mg/Nm <sup>3</sup>
55	CHEMICAL-ATMOSPHERIC POLLUTION	Stack emissions / Gaseous Pollutants Excluding Vehicular	Sulphur dioxide as SO <sub>2</sub>	IS 11255 (Part 2):1985: 2014	5 mg/Nm <sup>3</sup> to 5000 mg/Nm <sup>3</sup>
56	CHEMICAL-ATMOSPHERIC POLLUTION	Stack emissions / Gaseous Pollutants Excluding Vehicular	Temperature	IS 11255 (Part 3): 2008	5 °C to 600 °C
57	CHEMICAL-ATMOSPHERIC POLLUTION	Work Environment and Indoor Air Quality	% Relative Humidity	PLCPL-QC-SOP-IAQ-006: 2017	10 % to 99 %
58	CHEMICAL-ATMOSPHERIC POLLUTION	Work Environment and Indoor Air Quality	Carbon dioxide as CO <sub>2</sub>	NIOSH 6604: 1996	9 ppm to 450 ppm
59	CHEMICAL-ATMOSPHERIC POLLUTION	Work Environment and Indoor Air Quality	Carbon monoxide as CO	NIOSH 6604: 1996	1 ppm to 50 ppm
60	CHEMICAL-ATMOSPHERIC POLLUTION	Work Environment and Indoor Air Quality	Illumination level	IS 3646-1: 1992	1 Lux to 50000 Lux



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61	CHEMICAL-ATMOSPHERIC POLLUTION	Work Environment and Indoor Air Quality	Noise level (inside commercial building, office only)	IS 7194:1994/ IS 9876:1981: 2008	40 dB(A) to 140 dB(A)
62	CHEMICAL-ATMOSPHERIC POLLUTION	Work Environment and Indoor Air Quality	Oxygen as O <sub>2</sub>	NIOSH 6601: 1994	1 ppm to 25 ppm
63	CHEMICAL-ATMOSPHERIC POLLUTION	Work Environment and Indoor Air Quality	Particulate matter	NIOSH Method 0500: 1994	8 ppm to 28 ppm
64	CHEMICAL-POLLUTION & ENVIRONMENT	Soil/ Sediment	Available Nitrogen	PLCPL-QC-SOP-SOIL-N-029: 2016	10 mg/kg to 10000 mg/kg
65	CHEMICAL-POLLUTION & ENVIRONMENT	Soil/ Sediment	Available phosphorous as P <sub>2</sub> O <sub>5</sub>	PLCPL-QC-SOP-SOIL-005: 2016	10 mg/kg to 10000 mg/kg
66	CHEMICAL-POLLUTION & ENVIRONMENT	Soil/ Sediment	Conductivity	IS 14767:2000: 2016	5 μS/cm to 10000 μS/cm
67	CHEMICAL-POLLUTION & ENVIRONMENT	Soil/ Sediment	Moisture content	IS 2720 (Part 2):1973: 2015	1 % to 90 %
68	CHEMICAL-POLLUTION & ENVIRONMENT	Soil/ Sediment	Organic Matter	IS 2720 (Part 22):1972 : 2015	0.1 mg/kg to 50 mg/kg
69	CHEMICAL-POLLUTION & ENVIRONMENT	Soil/ Sediment	pH	IS 2720 (Part 26):1987: 2011	2 to 12
70	CHEMICAL-POLLUTION & ENVIRONMENT	Soil/ Sediment	Texture(Sand, Clay, silt)	PLCPL-QC-SOP-SOIL-003 : 2016	5 % to 95 %



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71	CHEMICAL-POLLUTION & ENVIRONMENT	Soil/ Sediment	Total Kjeldahl Nitrogen N	IS 14684:1999: 2014	10 mg/kg to 10000 mg/kg
72	CHEMICAL-POLLUTION & ENVIRONMENT	Soil/ Sediments	Available potassium K	PLCPL-QC-SOP-SOIL-006: 2016	10 mg/kg to 10000 mg/kg
73	CHEMICAL-POLLUTION & ENVIRONMENT	Waste (Sludge/ Solid/ Semi Solid/ Slurry/ Municipal Waste)	Total Kjeldhal Nitrogen	IS 10158:1982: 2009	10 mg/kg to 10000 mg/kg
74	CHEMICAL-POLLUTION & ENVIRONMENT	Waste (Sludge/ Solid/ Semi Solid/ Slurry/ Municipal Waste)	Ash	PLCPL-QC-SOP- SW-MC-026: 2016	1 % to 25 %
75	CHEMICAL-POLLUTION & ENVIRONMENT	Waste (Sludge/ Solid/ Semi Solid/ Slurry/ Municipal Waste)	Calorific value	IS 10158:1982,IS 1350 (Part 2)1975: 2015	50 Kcal/kg to 10000 Kcal/kg
76	CHEMICAL-POLLUTION & ENVIRONMENT	Waste (Sludge/ Solid/ Semi Solid/ Slurry/ Municipal Waste)	Moisture (Loss of Drying)	IS 9235:1979: 2009	0.1 % to 90 %
77	CHEMICAL-POLLUTION & ENVIRONMENT	Waste (Sludge/ Solid/ Semi Solid/ Slurry/ Municipal Waste)	pH	IS 10158:1982: 2009	2 to 12
78	CHEMICAL-POLLUTION & ENVIRONMENT	Waste (Sludge/ Solid/ Semi Solid/ Slurry/ Municipal Waste)	Volatile substance (Loss on ignition)	IS 10158:1982: 2009	5 % to 90 %
79	CHEMICAL-POLLUTION & ENVIRONMENT	Waste (Sludge/Solid/Semi-solid/Slurry/Municipal Waste)	Flash Point	USEPA 1998, SW-846;1020-A: 1998	50 °C to 80 °C





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80	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water - ETP, STP water	Dissolved Oxygen	IS 3025 (Part 38) - 1989 : 2003	1 mg/L to 10 mg/L
81	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water - ETP, STP water	pH	APHA 23rd Edn, 2017-4500H+B, IS 3025 (Part 11)-1983: : 2012	2 to 12
82	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water- ETP, STP Water, Effluents	Electrical Conductance	APHA 23rd edn 2017: 2510 A, IS:3025 (Part 14)-1984: 2013	1 µS/cm to 10000 µS/cm
83	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water- ETP, STP Water, Effluents	Total Dissolved Solids	APHA 23rd Ed.2017, 2540 C at 180 oC, IS:3025 (Part 6) - 1984: 2012	1 mg/L to 5000 mg/L
84	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, ETP Water, STP Water	Ammonical Nitrogen	IS 3025 (Part 34):1988: 2014	1 mg/L to 200 mg/L
85	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, ETP Water, STP Water	BOD @ 27oC for 3 days	IS 3025 (Part 44)-1993: 2014	2 mg/L to 1000 mg/L
86	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, ETP Water, STP Water	Cadmium	APHA 23rd Ed.2017, 3113 B Electrothermal Atomic Absorption Spectrometric method. IS 3025 (Part 41):1992: 2014	0.1 mg/L to 5 mg/L
87	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, ETP Water, STP Water	Chemical Oxygen Demand (COD)	IS 3025 (Part 58)-2000: 2012	4 mg/L to 5000 mg/L
88	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, ETP Water, STP Water	Chloride as Cl	IS 3025 (Part 32)-1988: 2014	1 mg/L to 5000 mg/L



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89	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, ETP Water, STP Water	Chromium	APHA 23rd Ed.2017, 3113 B Electrothermal Atomic Absorption Spectrometric method, IS 3025 (Part 52):2003: 2014	0.1 mg/L to 5 mg/L
90	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, ETP Water, STP Water	Copper	APHA 23rd Ed.2017, 3113 B Electrothermal Atomic Absorption Spectrometric method, IS 3025 (Part 42):1992: 2014	0.1 mg/L to 5 mg/L
91	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, ETP Water, STP Water	Fixed Residue	IS 3025 (Part 18):1984: 2012	10 mg/L to 5000 mg/L
92	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, ETP Water, STP Water	Iron	APHA 23rd Ed.2017, 3113 B Electrothermal Atomic Absorption Spectrometric method, IS 3025 (Part 53):2003: 2014	0.1 mg/L to 5 mg/L
93	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, ETP Water, STP Water	Lead	APHA 23rd Ed.2017, 3113 B Electrothermal Atomic Absorption Spectrometric method IS 3025 (Part 47):1994: 2014	0.1 mg/L to 5 mg/L
94	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, ETP Water, STP Water	Nitrate as NO <sub>3</sub>	APHA 23rd edn 4500 NO <sub>3</sub> B : 2017	1 mg/L to 50 mg/L



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95	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, ETP Water, STP Water	Nitrite as NO <sub>2</sub>	IS 3025 (Part 34) :1988: 2014	0.02 mg/L to 50 mg/L
96	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, ETP Water, STP Water	Oil & Grease	IS 3025 (Part 39):1991: 2014	1 mg/L to 250 mg/L
97	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, ETP Water, STP Water	Sulphate as SO <sub>4</sub>	APHA 23rd 2017-4500 SO <sub>4</sub> - D , IS 3025 (Part 24),1986: 2014	1 mg/L to 1000 mg/L
98	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, ETP Water, STP Water	Total Kjeldhal Nitrogen	IS 3025 (Part 34) :1988: 2014	1 mg/L to 200 mg/L
99	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, ETP Water, STP Water	Total Solids	IS 3025 (Part 15):1984: 2014	5 mg/L to 6000 mg/L
100	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, ETP Water, STP Water	Total Suspended Solidsat 103-105 oC	IS 3025 (Part 17)-1984: 2012	1 mg/L to 5000 mg/L
101	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, ETP Water, STP Water	Volatile Residue	IS 3025 (Part 18):1984: 2012	10 mg/L to 500 mg/L
102	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water, ETP Water, STP Water	Zinc	APHA 23rd Ed.2017, 3113 B Electrothermal Atomic Absorption Spectrometric method, IS 3025 (Part 49):1994: 2014	0.1 mg/L to 5 mg/L
103	CHEMICAL- POLLUTION & ENVIRONMENT	Wastes (Liquid/Solid/Semi - Solid/Slurry/Municipal Wastage)	Available Phosphorous as P <sub>2</sub> O <sub>5</sub>	PLCPL-QC-SOP-SW-002 Issue No./Date: 01/26.09.2016: 2016	10 mg/kg to 10000 mg/kg



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Laboratory Name PRAGATHI LABS & CONSULTANTS PRIVATE LIMITED, PLOT NO. B15 & 16, INDUSTRIAL ESTATE, SANATH NAGAR, HYDERABAD, TELANGANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5741 Page No. : 12 / 16

Validity 06/05/2019 to 05/05/2021 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
104	CHEMICAL- POLLUTION & ENVIRONMENT	Wastes (Liquid/Solid/Semi Solid/Sludge/Municipal Wastage)	Exchangeable/available Potassium K	PLCPL-QC-SOP-SW-003 Issue No./Date: 01/26.09.2016: 2016	10 mg/kg to 10000 mg/kg
105	CHEMICAL- WATER	Drinking/Surface Water	Magnesium	IS 3025 (Part 46), 1991: 2014	1 mg/L to 200 mg/L
106	CHEMICAL- WATER	Surface Water	Total Dissolved Solids	APHA 22nd Ed. 2540 C at 180oC, IS:3025 (Part 16)-1984: 2012	1 mg/L to 5000 mg/L
107	CHEMICAL- WATER	Surface Water	Total Hardness	APHA- 22nd Ed. 2340 C, IS 3025 (Part-21)2009: 2014	1 mg/L to 800 mg/L
108	CHEMICAL- WATER	Surface Water	Alkalinity	APHA 22nd Ed. 2320 B, IS 3025 (Part 23)1986: 2014	1 mg/L to 600 mg/L
109	CHEMICAL- WATER	Surface Water	Calcium	APHA 22nd Ed. 3500-Ca B, IS 3025 (Part 40) 1991: 2014	15 mg/L to 100 mg/L
110	CHEMICAL- WATER	Surface Water	Calcium Hardness as Ca	IS 3025 (Part 40): 1991: 2014	1 mg/L to 500 mg/L
111	CHEMICAL- WATER	Surface Water	Chloride	IS : 3025 (Part 32) – 1988: 2014	1 mg/L to 5000 mg/L
112	CHEMICAL- WATER	Surface Water	Electrical Conductance	APHA 22nd Ed. 2510A, IS:3025 (Part 14)-1984 : 2013	10 µS/cm to 10000 µS/cm
113	CHEMICAL- WATER	Surface Water	Magnesium	IS 3025 (Part 46), 1991: 2014	1 mg/L to 200 mg/L
114	CHEMICAL- WATER	Surface Water	Magnesium Hardness as Mg	IS 3025 (Part 46), 1994 : 2014	1 mg/L to 300 mg/L



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115	CHEMICAL- WATER	Surface Water	Methyl Alkalinity	APHA 22nd Ed. 2320 B, IS 3025 (Part 23)1986: 2014	1 mg/L to 400 mg/L
116	CHEMICAL- WATER	Surface Water	pH Value	APHA 22nd Ed.4500-H+ B Electrometric method, IS:3025 (Part 11)-1983: 2012	3 to 12
117	CHEMICAL- WATER	Surface Water	Phenolphthalein Alkalinity	APHA 22nd Ed. 2320 B, IS 3025 (Part 23)1986: 2014	1 mg/L to 200 mg/L
118	CHEMICAL- WATER	Surface Water	Potassium	APHA 22nd Ed. 3500-K, IS 3025 (Part 45), 1993: 2014	1 mg/L to 50 mg/L
119	CHEMICAL- WATER	Surface Water	Sodium	APHA 22nd Ed. 3500-Na B, IS 3025 (Part 45): 1993 : 2014	1 mg/L to 200 mg/L
120	CHEMICAL- WATER	Surface Water	Total Suspended Solids	APHA 22nd Ed. 2540 D at 103-105oC, IS:3025 (Part 17)-1984 : 2012	1 mg/L to 5000 mg/L
121	CHEMICAL- WATER	Surface Water/ Ground Water/ Drinking Water	Alkalinity as CaCO3	IS 3025 (Part 23):1986: 2014	1 mg/L to 600 mg/L
122	CHEMICAL- WATER	Surface Water/ Ground Water/ Drinking Water	Ammonical Nitrogen	IS 3025 (Part 34):1988: 2014	1 mg/L to 200 mg/L
123	CHEMICAL- WATER	Surface Water/ Ground Water/ Drinking Water	Cadmium	APHA 23rd Ed.2017, 3113 B Atomic Absorption Spectrometric method, IS 3025 (Part 41):1992: 2014	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	Surface Water/ Ground Water/ Drinking Water	Calcium	IS 3025 (Part 40):1991 : 2014	15 mg/L to 1000 mg/L
125	CHEMICAL- WATER	Surface Water/ Ground Water/ Drinking Water	Calcium Hardness as CaCO <sub>3</sub>	IS 3025 (Part 40):1991: 2014	1 mg/L to 1000 mg/L
126	CHEMICAL- WATER	Surface Water/ Ground Water/ Drinking Water	Chloride	IS 3025 (Part 32):1988: 2014	1 mg/L to 5000 mg/L
127	CHEMICAL- WATER	Surface Water/ Ground Water/ Drinking Water	Chromium	APHA 23rd Ed.2017, 3113 B Atomic Absorption Spectrometric method,IS 3025 (Part 52):2003: 2014	0.1 mg/L to 5 mg/L
128	CHEMICAL- WATER	Surface Water/ Ground Water/ Drinking Water	Colour	IS 3025 (Part 04):1983: 2012	2 HAZEN to 100 HAZEN
129	CHEMICAL- WATER	Surface Water/ Ground Water/ Drinking Water	Copper	APHA 23rd Ed.2017, 3113 B Atomic Absorption Spectrometric method, IS 3025 (Part 42):1992: 2014	0.1 mg/L to 5 mg/L
130	CHEMICAL- WATER	Surface Water/ Ground Water/ Drinking Water	Electrical Conductance	APHA 23rd Edn 2017, 2510 A:2012, IS 3025 (Part 14):1984: 2013	10 µS/cm to 10000 µS/cm
131	CHEMICAL- WATER	Surface Water/ Ground Water/ Drinking Water	Fluoride	APHA 23rd edn 2017, 4500 F:2012, IS 3025 (Part 60): 2013	0.1 mg/L to 3 mg/L
132	CHEMICAL- WATER	Surface Water/ Ground Water/ Drinking Water	Iron	IS 3025 (Part 53):2003: 2014	0.1 mg/L to 5 mg/L
133	CHEMICAL- WATER	Surface Water/ Ground Water/ Drinking Water	Lead	IS 3025 (Part 47):1994: 2014	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
134	CHEMICAL- WATER	Surface Water/ Ground Water/ Drinking Water	Magnesium	IS 3025 (Part 46):1991: 2014	1 mg/L to 200 mg/L
135	CHEMICAL- WATER	Surface Water/ Ground Water/ Drinking Water	Magnesium Hardness as CaCO <sub>3</sub>	IS 3025 (Part 46):1994: 2014	1 mg/L to 300 mg/L
136	CHEMICAL- WATER	Surface Water/ Ground Water/ Drinking Water	Methyl Alkalinity	IS 3025 (Part 23):1986: 2014	1 mg/L to 400 mg/L
137	CHEMICAL- WATER	Surface Water/ Ground Water/ Drinking Water	Nitrate	IS 3025 (Part 34):1988: 2014	0.1 mg/L to 50 mg/L
138	CHEMICAL- WATER	Surface Water/ Ground Water/ Drinking Water	Nitrite	IS 3025 (Part 34):1988: 2014	1 mg/L to 50 mg/L
139	CHEMICAL- WATER	Surface Water/ Ground Water/ Drinking Water	Odour	IS 3025 (Part 5):1983: 2012	Qualitative
140	CHEMICAL- WATER	Surface Water/ Ground Water/ Drinking Water	pH Value	APHA 23rd edn 2017 4500 H+ B, IS 3025 (Part 11) 1983: 2012	3 to 12
141	CHEMICAL- WATER	Surface Water/ Ground Water/ Drinking Water	Phenolphthalein Alkalinity	IS 3025 (Part 23):1986: 2014	1 mg/L to 200 mg/L
142	CHEMICAL- WATER	Surface Water/ Ground Water/ Drinking Water	Potassium	IS 3025 (Part 45):1993: 2014	1 mg/L to 50 mg/L
143	CHEMICAL- WATER	Surface Water/ Ground Water/ Drinking Water	Residual chlorine	IS 3025 (Part 26):1986: 2014	1 mg/L to 10 mg/L
144	CHEMICAL- WATER	Surface Water/ Ground Water/ Drinking Water	Silica	IS 3025 (Part 35):1988: 2014	1 mg/L to 100 mg/L
145	CHEMICAL- WATER	Surface Water/ Ground Water/ Drinking Water	Sodium	IS 3025 (Part 45):1993: 2014	1 mg/L to 200 mg/L
146	CHEMICAL- WATER	Surface Water/ Ground Water/ Drinking Water	Sodium	APHA 23rd Ed 2017. 3500-Na B, IS 3025 (Part 45): 1993: 2014	1 mg/L to 200 mg/L



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147	CHEMICAL- WATER	Surface Water/ Ground Water/ Drinking Water	Sulphates	IS 3025 (Part 24):1986: 2014	1 mg/L to 500 mg/L
148	CHEMICAL- WATER	Surface Water/ Ground Water/ Drinking Water	TKN	IS 3025 (Part 34):1988: 2014	1 mg/L to 200 mg/L
149	CHEMICAL- WATER	Surface Water/ Ground Water/ Drinking Water	Total Dissolved Solids	APHA 22nd edn 2540 C:2012, IS 3025 (Part 16):1984: 2012	1 mg/L to 5000 mg/L
150	CHEMICAL- WATER	Surface Water/ Ground Water/ Drinking Water	Total Hardness	IS 3025 (Part 21):2009: 2014	1 mg/L to 800 mg/L
151	CHEMICAL- WATER	Surface Water/ Ground Water/ Drinking Water	Total Hardness	APHA- 23rd Ed. 2340 C EDTA Titrimetric method,IS 3025 (Part-21)2009: 2014	1 mg/L to 1000 mg/L
152	CHEMICAL- WATER	Surface Water/ Ground Water/ Drinking Water	Total Suspended Solids103-105oC	IS 3025 (Part 17):1984: 2012	1 mg/L to 5000 mg/L
153	CHEMICAL- WATER	Surface Water/ Ground Water/ Drinking Water	Turbidity	IS 3025 (Part 10):1984: 2012	1 NTU to 25 NTU
154	CHEMICAL- WATER	Surface Water/ Ground Water/ Drinking Water	Zinc	IS 3025 (Part 49):1994: 2014	0.1 mg/L to 5 mg/L