

Laboratory Poluchem Laboratories (P) Ltd., Pallath Building, North Kalamassery, Ernakulam, Kerala

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing **Issue Date** 25.08.2015

Certificate Number T-1658 **Valid Until** 24.08.2017

Last Amended on - **Page** 1 of 5

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I. WATER				
1.	Potable and domestic water, Irrigation water, Industrial water, Bore water, Saline water	pH	IS 3025 (Part 11): 1983 (RA 2012)	2 to 12
		Conductivity	IS 3025 (Part 14): 1984 (RA 2002)	1 μ mhos/cm ² to 20000 μ mhos/cm ²
		Colour	IS 3025 (Part 4): 1983 (RA 2012)	1 Hazen to 50 Hazen
		Odour	IS 3025 (Part 5): 1983 (RA 2012)	Qualitative
		Turbidity	IS 3025 (Part 10): 1984 (RA 2012)	1 NTU to 5000 NTU
		Total Dissolved Solids	IS 3025 (Part 16): 1984 (RA 2006)	1 mg/l to 5000 mg/l
		Total Hardness	IS 3025 (Part 21): 2009	1 mg/l to 500 mg/l
		Calcium	IS 3025 (Part 40): 1991 (RA 2009)	1 mg/l to 500 mg/l
		Magnesium	IS 3025 (Part 46): 1994 (RA 2009)	1 mg/l to 500 mg/l
		Chloride	IS 3025 (Part 32): 1988 (RA 2009)	1 mg/l to 500 mg/l
	Alkalinity	IS 3025 (Part 23): 1986 (RA 2003)	1 mg/l to 500 mg/l	

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Last Amended on - **Page** 2 of 5

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Potable and domestic water, Irrigation water, Industrial water, Bore water, Saline water	Acidity	IS 3025 (Part 22): 1986 (RA 2003)	1 mg/l to 500 mg/l
		Iron	IS 3025 (Part 53): 2003 (RA 2009)	0.05 mg/l to 5 mg/l
		Silica	IS 3025 (Part 35): 1988 (RA 2009)	0.05 mg/l to 200 mg/l
		Phosphate	IS 3025 (Part 31): 1988 (RA 1999)	1 mg/l to 500 mg/l
		Sulphate	IS 3025 (Part 24): 1986 (RA 2009)	1 mg/l to 500 mg/l
		Residual Chlorine	IS 3025 (Part 26): 1986 (RA 2009)	0.1 mg/l to 10 mg/l
		Chromium (Cr ⁶⁺)	IS 3025 (Part 52): 2003 (RA 2003)	0.05 mg/l to 10 mg/l
		Fluoride	IS 3025 (Part 60): 2008 (RA 2008)	0.10 mg/l to 10 mg/l
		Phenolic Compounds	IS 3025 (Part 43): 1992 (RA 2009)	0.05 mg/l to 10 mg/l
		Nitrate	IS 3025 (Part 34): 1988 (RA 2009)	1 mg/l to 5 mg/l
	Oil & Grease	IS 3025 (Part 39): 1991 (RA 2009)	1 mg/l to 50 mg/l	

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Last Amended on -

Page 3 of 5

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2.	Waste water	pH	IS 3025 (Part 11): 1983 (RA 2012)	2 to 12
		Color	IS 3025 (Part 4): 1983 (RA 2012)	1 Hazen to 50 Hazen
		Odour	IS 3025 (Part 5): 1983 (RA 2012)	Qualitative
		Turbidity	IS 3025 (Part 10): 1984 (RA 2012)	1 NTU to 5000 NTU
		Total Dissolved Solids	IS 3025 (Part 16): 1984 (RA 2006)	1 mg/l to 5000 mg/l
		Total suspended Solids	IS 3025 (Part 17): 1984 (RA 2003)	10 mg/l to 5000 mg/l
		Total Solids	IS 3025 (Part 15): 1984 (RA 2003)	10 mg/l to 5000 mg/l
		Residual Chlorine	IS 3025 (Part 26): 1986 (RA 2009)	0.1 mg/l to 10 mg/l
		COD	IS 3025 (Part 58): 2006 (RA 2012)	10 mg/l to 10000 mg/l
		BOD @ 27 °C for 3 days	IS 3025 (Part 44): 1993 (RA 2003)	2 mg/l to 15000 mg/l
		Ammonia	IS 3025 (Part 34): 1988 (RA 2009)	1 mg/l to 500 mg/l
		Oil & Grease	IS 3025 (Part 39): 1991 (RA 2009)	1 mg/l to 500 mg/l

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Last Amended on - **Page** 4 of 5

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II. AIR, GASES & ATMOSPHERE				
1.	Ambient Air	Particulate Matter (PM ₁₀)	IS 5182 (Part 23): 2006 (RA 2012)	1 µg/m ³ to 1000 µg/m ³
		Particulate Matter (PM _{2.5})	WI/AMB25/01	1 µg/m ³ to 1000 µg/m ³
		Sulphur Dioxide	IS 5182 (Part 2): 2001 (RA 2012)	4 µg/m ³ to 1050 µg/m ³
		Oxides of Nitrogen	IS 5182 (Part 6): 2006 (RA 2012)	6 µg/m ³ to 750 µg/m ³
		Carbon Monoxide	SOP No. WI/GCANAL/01 Issue Date : 06.01.2009 based on Operating Manual of CO Meter with Data Logger (Model & Make : INDUS & AGM 63X) - Direct Measurement	1 mg/m ³ to 100 mg/m ³
		Hydrogen Sulphide	IS 5182 (Part 7): 1973 (RA 2012)	6 µg/m ³ to 600 µg/m ³
		Equivalent Noise Level (L _{eq})	SOP No. WI/GCANAL/01 Issue Date: 06.01.2009 based on Operating Manual of Integrated Noise Level Meter with Data Logger (Model & Make : TES & 1353) - Direct Measurement and IS 9989: 1981 (RA 2008)	30 dB(A) to 130 dB(A)
2.	Stack Gas	Temperature	Indicative method IS 11255 (Part 3): 2003	Ambient to 500 °C
		Velocity	Pitot Tube method IS 11255 (Part 3): 2003	1 m/s to 60 m/s
		Volume of gas discharged	IS 11255 (Part 3): 2003	100 Nm ³ /hr to 1000000 Nm ³ /hr

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Last Amended on - **Page** 5 of 5

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	Stack Gas	Particulate Matter	IS 11255 (Part 1): 1985 (RA 2009)	1 mg/Nm ³ to 5000 mg/Nm ³
		Sulphur Dioxide	IS 11255 (Part 2): 1985 (RA 2009)	3 mg/Nm ³ to 5000 mg/Nm ³
		Oxides of Nitrogen	IS 11255 (Part 7): 2005 (RA 2012)	2 mg/Nm ³ to 4000 mg/Nm ³
		Ammonia	IS 11255 (Part 6): 1999 (RA 2009)	5 mg/Nm ³ to 5000 mg/Nm ³

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