

Laboratory **Public Health Environmental Engineering Testing (PHEET) Lab,
Bhagirathi Lane, Ashok Rajpath, Mahendru, Patna, Bihar**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-6752 (in lieu of T-3829)**

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Validity **01.03.2018 to 29.02.2020**

Last Amended on --

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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CHEMICAL TESTING

I.	WATER			
1.	Water (Bore Well Water, Tube well Water, Drinking Water, Soft Water, Potable water & Domestic water)	Turbidity	IS-3025(Part10)-1984 (RA 2002) Nephelometric	0.5 NTU to 100 NTU
		Total Dissolve Solid (TDS)	IS-3025(Part 16)-1984 (RA 2009), Gravimetric Method	50 mg/l to 2000 mg/l
		pH	IS-3025(Part11)-1983 (RA 2012) Electrometric Method	4 to 10
		Iron as Fe	IS-3025(Part53)-1964 (RA 2003) 1,10 Phenanthroline Method	0.1 mg/l to 25 mg/l
		Nitrate as NO ₃	IS 3025 (Part-34)-1988 (RA 2003) Ultraviolet Spectrophotometric Method	0.5 mg/l to 250 mg/l
		Chloride as Cl	IS:3025(Part 32) -1988 (RA 2009) Argentometric method	5 mg/l to 1000 mg/l
		Sulphate as SO ₄	IS-3025(Part24)-1986 (RA 2009) Turbidimetric Method, Gravimetric Method	5 mg/l to 500 mg/l
		Alkalinity as CaCO ₃	IS-3025(Part23)-1986 (RA 2006) Titrimetric Method	5 mg/l to 2000 mg/l
		Total Hardness as CaCO ₃	IS-3025(Part21)-2009, Eriochrome Black-T & EDTA Titrimetric method	5 mg/l to 1000 mg/l
		Calcium as Ca	IS:3025(Part-40)-1991 (RA 2009)	5 mg/l to 1000 mg/l

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			Murexide-EDTA Titrimetric Method	
		Magnesium as Mg	IS-3025(Part46) - 1994 (RA 2009) By Calculation	5 mg/l to 1000 mg/l
		Conductivity	IS-3025(Part 14)-1983 (RA 2006) Electrical Conductance Method	1µS/cm to 10000 1µS/cm
		Fluoride as F	APHA-23 rd Edition 4500F· D SPANDS Method	0.5 mg/l to 10 mg/l
II.	POLLUTION AND ENVIRONMENT			
1.	Waste Water	BOD (Bio-chemical oxygen demand)	IS-3025(Part 44) -1993 (RA 2009)	1 mg/L to 10000 mg/L
		Total Suspended Solids (TSS)	IS:3025(Part-16):1984	1 mg/L to 25000 mg/L
		Dissolved Oxygen(DO)	IS:3025(Part38) -1989 (RA2009)	2 mg/L to 10 mg/L
III.	ATMOSPHERIC POLLUTION			
1.	Ambient Air	Nitrogen dioxide as NO ₂	IS: 5182(Part 6) : 2006	0.6 µg/m ³ to 750 µg/m ³
		Sulphur dioxide SO ₂	IS: 5182 (Part 23): 2001 (RA 2006)	0.25 µg/m ³ to 1050 µg/m ³
		PM10	CPCB-NAAQS-Volume 01 (2011)	5 µg/m ³ to 1000 µg/m ³
		PM2.5	CPCB-NAAQS-Volume 01 (2011)	15 µg/m ³ to 750 µg/m ³
2.	Stack Gases	Suspended Particulate matter (SPM)	IS: 11255 (Part 1): 1985 (RA 2003), CPCB Emission Regulation (Part 3) 1985	1 mg/Nm ³ to 1000 mg/m ³

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		Sulphur dioxide as SO _x	IS: 11255 (Part 2): 1985 (RA 2003), CPCB Emission Regulation (Part 3) 1985	3.4 mg/Nm ³ to 1000 mg/m ³
3.	Noise Monitoring	Ambient noise	IS: 9989;1981 (RA 2008)	10 dB(A) to 130 dB(A)