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I. AIR, GASES & ATMOSPHERE

1.	Ambient Air/In plant	Temperature	IS 5182 Pt.23 : 2006	Ambient -60°C
	Air quality	% Relative Humidity	IS 5182 Pt.23 : 2006	40 -100 %
		Respirable Suspended Particulate Matter (RSPM)	IS 5182 Pt.23 : 2006	$\frac{1-500 \ \mu g/m^3}{500 \ -5000 \ \mu g/m^3}$
		Particulate Matter less than 10 μ (PM ₁₀) μ g/m ³	CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, May 2011	
		Suspended Particulate matter (SPM)	IS 5182: Part 4 (Reaff. 2010)	$\frac{1-500 \ \mu\text{g/m}^3}{500 \ -5000 \ \mu\text{g/m}^3}$
		Particulate Matter less than 2.5μ (PM $_{2.5}$)µg/m ³	USEPA Quality Assurance Hand Book, Vol .II, Part II, Quality Assurance Guidelines Document 2.12 CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, May 2011	4-500µg/m ³
		Carbon monoxide as CO	IS 5182: Part 10 (Reaff:2009)	$1.15 - 100 \text{ mg/m}^3$
		Sulphur dioxide as SO ₂	IS 5182: Part 2: (Reaff. 2006) CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, May 2011	$\begin{array}{l} 5 & -10 \ \mu g/m^3 \\ 10 & -1000 \ \mu g/m^3 \end{array}$

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Ambient Air/In plant Air quality	Nitrogen oxides as Nox	IS 5182: Part 6 -2006 CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, May 2011	$6 - 750 \ \mu g/m^3$	
	Lead	IS 5182 Pt.22 (Reaff. 2009) CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, May 2011	$0.1 \mu g/m^3 50 \mu g/m^3$	
	Arsenic	APHA IInd Edition Method of Air Sampling analysis – 302; CPCB Guidelines for the measurement of ambient Air Pollutant Volume 1 May 2011	5ng/m ³ -50ng/m ³	
	Nickel	APHA IInd Edition Method of Air Sampling and analysis – 320 CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, May 2011	5ng/m ³ -100ng/m ³	
	Ammonia	APHA IInd Edition Method of Air Sampling analysis – 401 CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, May 2011	20 - 700 μg/m ³	
	Ozone	IS 5182: Part 9 (1974) (Reaff. 2009) CPCB Guidelines for the Measurement of Ambient Air Pollutants, Volume I, May 2011	20-19620 μg/m ³	

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2.	Stack Emission	Stack Temperature	IS 11255 Part 3 (Reaff.2008)	Ambient – 600° C
		Area of Stack	IS 11255 Part 3 (Reaff.2008)	0.002 m^2 to 19.63 m ²
		Stack Diameter	IS 11255 Part 3 (Reaff.2008)	0.05 m to 5 m
		Particulate matter	IS 11255 Part 1 (Reaff.2009)	1 – 10 mg/Nm ³ 10– 1000 mg/Nm ³
		Sulphur dioxide as SO ₂	IS 11255 Part 2 (Reaff.2009); AECIPL/INS/SOP 017 (Using Flue Gas Analyzer)	3 – 1000 mg/Nm ³
		Oxides of Nitrogen (as Nox)	IS 11255:Part 07:2005 / ; AECIPL/INS/SOP 017 (Using Flue Gas Analyzer)	2-400 mg/Nm ³
		Velocity	IS 11255 Part 3(Reaff.2008)	$\geq 1 m/s$
		Volume of Flue gas discharge	IS 11255 Part 3(Reaff.2008)	$\geq 10 \text{ Nm}^3/\text{hr}$
		Carbon Monoxide (CO)	IS 13270:1992 (Reaff: 2009); AECIPL/INS/SOP 017 (Using Flue Gas Analyzer)	0-5000 mg/Nm ³
		Oxygen (O ₂)	IS 13270:1992 (Reaff: 2009); AECIPL/INS/SOP 017 (Using Flue Gas Analyzer)	0.2 -25 %
		Carbon dioxide (CO ₂)	IS 13270:1992 (Reaff: 2009); AECIPL/INS/SOP 017 (Using Flue Gas Analyzer)	0.2 -25 %
		Ammonia	IS:11255 part 6 (Reaff.2009)	5-100 mg/Nm ³

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3.	Noise Level Monitoring	Lmin,Lmax,Leq (Equivalent Noise Level)	IS 9989 (Reaff. 2008)	30- 110 dB(A)
II. W	ATER			
1.	Water/ Potable ground water/ Drinking water	Colour	IS 3025 Part 4 (Reaff. 2006) APHA 22 nd Edn. 2120 B	2 – 10 Hazen 11 – 100 Hazen
	Di liiking watei	Odour	IS 3025 Part 5 (Reaff. 2006) APHA 22 nd Edn. 2150 B	Objectionable/ Un Objectionable
		Temperature °C	IS 3025 Part 9 (Reaff. 2006) APHA 22 nd Edn 2550 B	10°C - 60 °C
		Turbidity as NTU	IS 3025 Part 10 (Reaff. 2006) APHA 22 nd Edn. 2130 B	0.5 -100 NTU 101-400 NTU
		_P H Value @ 25 ⁰ C	IS 3025 Part 11 (Reaff. 2006) APHA 22^{nd} Edn. 4500 H ⁺ B	1 – 10
		Conductivity @ 25 ⁰ C	IS 3025 Part 14 (Reaff. 2006) APHA 22 nd Edn. 2510 B	2 μmhos/cm – 20000 μmhos/cm
		Total Dissolved Solids	IS 3025 Part 16 (Reaff. 2006) APHA 22 nd Edn. 2540 C	2 – 100 mg/l 101 – 20000 mg/l
		Total Solids	IS 3025 Part 15 (Reaff. 2009) APHA 22 nd Edn. 2540 B	2 – 100 mg/l 101 – 20000 mg/l
		Total Suspended Solids	IS 3025 Part 17 (Reaff.2006) APHA 22 nd Edn. 2540 D	2 – 100 mg/l 101 – 10000 mg/l

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Water/ Potable ground water/ Drinking water	Total Hardness as CaCO ₃	IS 3025 Part 21 2009 APHA 22 nd Edn. 2340 C		0 mg/l 10000 mg/l
	Calcium as Ca	IS 3025 Part 40 (Reaff. 2009) APHA 22 nd Edn. 3500 Ca B,		00 mg/l 5000 mg/l
	Magnesium as Mg	IS 3025 Part 46 (Reaff. 2009) APHA 22 nd Edn. 3500 Mg B		0 mg/l 1000 mg/l
	Total Alkalinity or Methyl orange Alkalinity or Bicarbonate Alkalinity as CaCO ₃ & HCO ₃	IS 3025 Part 23 (Reaff. 2009) APHA 22 nd Edn. 2320 B		0 mg/l 5000 mg/l
	Phenolphthalein Alkalinity as CaCO ₃	IS 3025 Part 23 (Reaff. 2009) APHA 22 nd Edn. 2320 B	1 -50	0 mg/l
	Chloride as Cl	IS 3025 Part 32 (Reaff. 2009) APHA 22 nd Edn. 4500 Cl ⁻ B		0 mg/l 10000 mg/l
	Sulphate as SO ₄	IS 3025 Part 24 (Reaff. 2009) APHA 22^{nd} Edn. 4500 SO ₄ E		00 mg/l - 5000 mg/l
	Dissolved Oxygen	IS 3025 Part 38 (Reaff. 2009) APHA 22 nd Edn. 4500 O B,C	0.5 –	8.0 mg/l
	Iron as Fe	IS 3025 Part 53 (Reaff. 2009) APHA 22 nd Edn. 3500 B		– 5 mg/l 0 mg/l

Nitrate as NO₃

IS 3025 Part 34 (Reaff. 2009) APHA 22ndEdn. 4500 NO₃ B 1 – 10 mg/l 10 –100 mg/l

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Water/ Potable ground water/ Drinking water	Fluoride as F	IS 3025 Part 60- 2008 APHA 22 nd Edn. 4500 F B, D	0.1 – 20.0 mg/l
Drinking water	Total Residual Chlorine	IS 3025 Part 26 (Reaff. 2009) APHA 22 nd Edn. 4500 Cl B	0.1 – 10 mg/l
	Total Silica as SiO ₂	IS 3025 Part 35 (Reaff. 2009) APHA 22 nd Edn. 4500 SiO ₂ D	0.1 – 50 mg/l 50 - 200 mg/l
	Chromium as Cr ⁶⁺	IS 3025 Part 52 (Reaff. 2009) APHA 22 nd Edn. 3500 Cr B	0.05 – 2 mg/l 2 – 100mg/l
	Copper	IS 3025 Part 42 (Reaff. 2009) APHA 22 nd Edn.3111B/ AECIPL/TM/SOP/CH/066	0.02 - 100 mg/l
	Manganese	AECIPL/TM/SOP/CH/067 APHA 22 nd Edn. 3111 B	0.01 - 50mg/l
	Zinc	IS 3025 Part 49 (Reaff. 2009) APHA 22nd Edn.3111B AECIPL/TM/SOP/CH/068	0.01 - 100mg/l
	Cadmium	IS 3025 Part 41 (Reaff. 2009) APHA 22 nd Edn.3111B AECIPL/TM/SOP/CH/069	0.003-100mg/l
	Aluminium	IS 3025 Part 55 (Reaff. 2009)APHA Edn. 3111 D IS:15302 (Reaff. 2009) AECIPL/TM/SOP/CH/070	0.03 - 100mg/l
	Mercury	IS 3025 Part 48 (Reaff. 2009) APHA 22 nd Edn.3112B AECIPL/TM/SOP/CH/071	0.005 - 10mg/l

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Water/ Potable ground water/ Drinking water	Lead	IS 3025 Part 47 (Reaff. 2009) APHA 22 nd Edn.3111B AECIPL/TM/SOP/CH/072	0.01 - 50mg/l
	Nickel	IS 3025 Part 54(Reaff. 2009)APHA 22 nd Edn. 3111B AECIPL/TM/SOP/CH/073	0.01 - 50mg/l
	Selenium	IS 3025 Part 56 (Reaff. 2009)APHA 22 nd Edn.3114 C IS:15303 : 2003 AECIPL/TM/SOP/CH/074	0.5 - 10mg/l
	Boron	IS 3025 Part 57 (Reaff. 2010) APHA 22 nd Edn.4500 B	0.05 - 50mg/l
	Sulphide	IS 3025 Part 29 (Reaff. 2009) APHA 22 nd Edn.4500 S ²⁻ F	1 - 50mg/l
	Cyanide	IS 3025 Part 27 (Reaff. 2009) APHA 22 nd Edn.4500-CN ⁻ E	0.01 - 10mg/l
	Total chromium	IS 3025 Part 52 (Reaff. 2009) APHA 22 nd Edn. 3111B AECIPL/TM/SOP/CH/075	0.02 - 100mg/l
	Sodium	IS 3025 Part 45 (Reaff. 2009) APHA 22nd Edn.3500 – Na B	1 - 400mg/l/ 401 - 2000mg/l
	Potassium	IS 3025 Part 45 (Reaff. 2009) APHA 22 nd Edn. 3500 – K B	1 - 400mg/l 401 - 2000mg/l

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2.	Industrial water / Raw & Treated Liquid effluents/	Colour	IS 3025 Part 4 (Reaff. 2006) APHA 22 nd Edn. 2120 B	2 – 10 Hazen 11 – 100 Hazen
	Waste Water/ Sewage water	Temperature °C	IS 3025 Part 9 (Reaff. 2006) APHA 22 nd Edn 2550 B	10°C - 60 °C
		Turbidity as NTU	IS 3025 Part 10 (Reaff. 2006) APHA 22 nd Edn. 2130 B	0.5 -100 NTU 101-400 NTU
		_p H Value @ 25 ⁰ C	IS 3025 Part 11 (Reaff. 2006) APHA 22 nd Edn. 4500 H ⁺ B	1 – 10
		Conductivity @ 25 ⁰ C	IS 3025 Part 14 (Reaff. 2006) APHA 22 nd Edn. 2510 B	2 μmhos/cm – 20000 μmhos/cm
		Total Dissolved Solids	IS 3025 Part 16 (Reaff. 2006) APHA 22 nd Edn. 2540 C	2 – 100 mg/l 101 – 20000 mg/l
		Total Solids	IS 3025 Part 15 (Reaff. 2009) APHA 22 nd Edn. 2540 B	2 – 100 mg/l 101 – 20000 mg/l
		Total Suspended Solids	IS 3025 Part 17 (Reaff.2006) APHA 22 nd Edn. 2540 D	2 – 100 mg/l 101 – 10000 mg/l
		Chloride as Cl	IS 3025 Part 32 (Reaff. 2009) APHA 22 nd Edn. 4500 Cl ⁻ B	1 -500 mg/l 50110000 mg/l
		Sulphate as SO ₄	IS 3025 Part 24 (Reaff. 2009) APHA 22 nd Edn. 4500 SO ₄ E	1 – 100 mg/l 101 – 5000 mg/l

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	Industrial water / Raw & Treated Liquid effluents/	COD (Open reflux method)	IS 3025 Part 58-2006 APHA 22 nd Edn. 5220 B	4 – 500 mg/l 501– 10000 mg/l
	Waste Water/ Sewage water	BOD @ 20°C for 5 days BOD @ 27°C for 3 days	IS 3025 Part 44 (Reaff. 2009) APHA 22 nd Edn. 5210 B	2 – 100 mg/l 101 –5000 mg/l
		Dissolved Oxygen	IS 3025 Part 38 (Reaff. 2009) APHA 22 nd Edn. 4500 O B,C	0.5 - 8.0 mg/l
		Iron as Fe	IS 3025 Part 53(Reaff.2009) APHA 22 nd Edn. 3500 B	0.05 – 5 mg/l 5 – 50 mg/l
		Total Kjeldahl Nitrogen as N	IS 3025 Part 34 (Reaff. 2009) APHA 22 nd Edn. 4500 N– B, C	1 – 500 mg/l
		Nitrate as NO ₃	IS 3025 Part 34 (Reaff. 2009) APHA 22 nd Edn. 4500 NO ₃ B	1 – 10 mg/l 10 –100 mg/l
		Nitrite as NO ₂	IS 3025 Part 34 (Reaff. 2009) APHA 22 nd Edn. 4500 NO ₂ B	0.01 - 10 mg/l
		Free Ammonia as NH ₃	IS 3025 Part 34 (Reaff. 2009) APHA 22^{nd} Edn NH ₃ B,C	0.1 - 20 mg/l
		Ammonical Nitrogen as N	IS 3025 Part 34 (Reaff. 2009) APHA 22 nd Edn. 4500 NH ₃ B,C	1 – 500 mg/l
		Oil & Grease	IS 3025 Part 39 (Reaff. 2009) APHA 22 nd Edn. 5520 O&G – B	1 – 1000 mg/l
		Fluoride as F	IS 3025 Part 60- 2008 APHA 22 nd Edn. 4500 F B, D	0.1 - 20.0 mg/l

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Industrial wate Raw & Treate Liquid effluent	d	IS 3025 Part 26 (Reaff. 2009) APHA 22 nd Edn. 4500 Cl B	0.1 – 10 mg/l
Waste Water/ Sewage water	Phenolic compound as C ₆ H ₅ OH	IS 3025 Part 43 (Reaff. 2009) APHA 22 nd Edn. 5530 B,C,D	0.001–1.0 mg/l
	Total phosphate as P	IS 3025 Part 31 (Reaff :2009) APHA 22 nd Edn. 4500 P B,D	0.1 – 50 mg/l 51 - 100 mg/l
	Chromium as Cr ⁶⁺	IS 3025 Part 52 (Reaff. 2009) APHA 22 nd Edn. 3500 Cr B	0.05 – 2 mg/l 2 – 100mg/l
	Particle size 850micron	IS:6339 (Reaff. 2011)	0.1 -75%
	Total chromium	IS 3025 Part 52 (Reaff. 2009) APHA 22 nd Edn. 3111B	0.05 - 100mg/l
	Arsenic	IS 3025 Part 37 (Reaff. 2009) APHA 22 nd Edn.3114B	0.01 - 50mg/l
	Mercury	IS 3025 Part 48 (Reaff. 2009) APHA 22 nd Edn.3112B AECIPL/TM/SOP/CH/071	0.005 - 50mg/l
	Lead	IS 3025 Part 47 (Reaff. 2009) APHA 22 nd Edn.3111B AECIPL/TM/SOP/CH/072	0.03 - 50mg/l
	Nickel	IS 3025 Part 54 (Reaff. 2009) APHA 22 nd Edn.3111B AECIPL/TM/SOP/CH/073	0.03 - 50mg/l

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Industrial water / Raw & Treated Liquid effluents/	Cadmium	IS 3025 Part 41(Reaff. 2009) APHA 22 nd Edn.3111B AECIPL/TM/SOP/CH/069	0.02 - 50mg/l
Waste Water/ Sewage water	Copper	IS 3025 Part 42 (Reaff. 2009) APHA 22 nd Edn.3111B AECIPL/TM/SOP/CH/066	0.04 - 100 mg/l
	Zinc	IS 3025 Part 49 (Reaff. 2009) APHA 22 nd Edn. 3111B AECIPL/TM/SOP/CH/068	0.02 - 100mg/l
	Selenium	IS 3025 Part 56 (Reaff. 2009) APHA 22 nd Edn.3114C IS:15303 (Reaff. 2009) AECIPL/TM/SOP/CH/074	0.5 - 50mg/l
	Boron	IS 3025 Part 57(Reaff. 2010) APHA 22 nd Edn.4500 B B	0.05 - 50mg/l
	Percent Sodium	AECIPL/TM/SOP/063	1-80%
	Residual Sodium Carbonate	IS:11624 (Reaff. 2009)	0.1meq/l -50meq/l
	Cyanide	IS 3025 Part 27 (Reaff. 2009) APHA 22 nd Edn.4500 CN ⁻ E	0.02 - 50mg/l
	Sulphide	IS 3025 Part 29 (Reaff. 2009) APHA 22 nd Edn.4500 S ²⁻ F	1 - 50mg/l
	Sodium	IS 3025 Part 45 (Reaff. 2009) APHA 22 nd Edn.3500 Na B	1 - 400mg/l 401 - 8000mg/l
	Potassium	IS 3025 Part 45 (Reaff. 2009) APHA 22 nd Edn.3500 K B	1 - 400mg/l 401 - 8000mg/l

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	Industrial water / Raw & Treated	Calcium	IS 3025 Part 40 (Reaff. 2009) APHA 22 nd Edn. 3500 Ca B	1 –500 mg/l 501–5000 mg/l
	Liquid effluents/ Waste Water/ Sewage water	Magnesium	IS 3025 Part 46 (Reaff. 2009) APHA 22 nd Edn. 3500 Mg B	1 –500 mg/l 501–1000 mg/l
		Dissolved Phosphate	IS 3025 Part 31 (Reaff :2009) APHA 22 nd Edn. 4500 P B,D	0.1 – 50 mg/l 51 - 100 mg/l
3.	Construction Water	$_{\rm P}$ H Value @ 25 $^{\rm 0}$ C	IS 3025 Part 11 (Reaff. 2006) APHA 22^{nd} Edn. 4500 H ⁺ B	1 – 10
		Chloride as Cl	IS 3025 Part 32 (Reaff. 2009) APHA 22 nd Edn. 4500 Cl ⁻ B	1 -500 mg/l 501-10000 mg/l
		Sulphate as SO ₄	IS 3025 Part 24 (Reaff. 2009) APHA 22^{nd} Edn. 4500 SO ₄ E	1 – 100 mg/l 101 – 5000 mg/l
		Total Suspended Solids	IS 3025 Part 17 (Reaff.2006) APHA 22 nd Edn. 2540 D	10 – 100 mg/l 101 – 10000 mg/l
		a) To neutralize 100ml of sample water using phenolphthalein as an indicator using 0.02N NaOH	IS 3025 Part 22 (Reaff.2009)	0-50ml
		To neutralize 100ml of sample water using Mixed indicator using 0.02 N H ₂ SO ₄	IS 3025 part 23 (Reaff. 2009)	0-100ml