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SI.	Product / Material	Specific Test	<b>Test Method Specification</b>	0
	of Test	Performed	against which tests are	Limits of Detection
			performed	

## CHEMICAL TESTING

AT	LABORATORY			
I.	WATER			
1.	Drinking Water/ Portable water/	Colour	IS 3025 (Part 4): 1983 (RA 2012)	1 Hazen Units to 100 Hazen Units
	Ground Water	Turbidity	IS 3025 (Part 10): 1984 (RA 2006)	1 NTU to 100 NTU
		pH @ 25°C	IS 3025 (Part 11): 1984 (RA 2006)	2 to 13
		Total Dissolved Solids	IS 3025 (Part 16): 1984 (RA 2006)	5 mg/l to 2000 mg/l
		Aluminium as Al	IS 3025 (Part 55): 2003 (a)	0.05 mg/l to 2 mg/l
		Ammonia as NH <sub>3</sub> -N	IS 3025 (Part 34): 1988 (RA 2009)	0.5 mg/l to 50 mg/l
		Boron as B	Annex H of IS 13428:2005	0.05 mg/l to 0.5 mg/l
		Calcium as Ca	IS 3025 (Part 40): 1991 (RA 2009)	1 mg/l to 1000 mg/l
		Chloride as Cl	IS 3025 (Part 32): 1988 (RA 2009)	1 mg/l to 1000 mg/l
		Fluoride as F	APHA-23 <sup>rd</sup> Ed 2012-4500 D IS 3025 (Part 60): 2008	0.1 mg/l to 10 mg/l
	-	Free residual chlorine	IS 3025 (Part 26): 2003 (RA 2006)	0.1 mg/l to 10 mg/l
		Iron as Fe	IS 3025 (Part 53): 2003 (RA 2009)	0.05 mg/l to 10 mg/l
		Magnesium as Mg	APHA-(22 <sup>rd</sup> Ed 2012)-3500	1 mg/l to 1000 mg/l
		Nitrate as NO <sub>3</sub>	APHA-(22 <sup>rd</sup> Ed) 2012-4500 B	1 to 100 mg/l
			IS 3025 (Part 34): 1988 (RA 1999)	

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		Nitrite as NO <sub>2</sub>	IS 3025 (Part 34): 1988 (RA 2003)	0.05 mg/l to 50 mg/l
		Sulphate as SO <sub>4</sub>	IS 3025 (Part 24):1986 (RA 2003)	1 mg/l to 100 mg/l
		Sulphide as H <sub>2</sub> S	IS 3025 (Part 29): 1986 (RA 1998)	0.01 mg/l to1 mg/l
		Total Alkalinity as CaCO <sub>3</sub>	IS 3025 (Part 23): 1986 (RA 2003)	1 mg/l to 1000 mg/l
		Total Hardness as CaCO <sub>3</sub>	IS 3025 (Part 21): 2009 (RA 2014)	2 mg/l to1000 mg/l
		Sodium as Na	IS 3025 (Part 45): 1993 (RA 2003)	1 mg/l to 500 mg/l
		Potassium as K	IS 3025 (Part 45):1993 (RA 2003)	1 to 100 mg/l
		Acidity as CaCO <sub>3</sub>	IS 3025 (Part 22):1986 (RA 2003)	2 mg/l to 500 mg/l
2.	Surface Water/ Irrigation,	Colour	IS 3025 (Part 4): 1983 (RA 2012) Cl 2.0	1 Hazen Units to 100 Hazen Units
	Industrial Cooling Water/Boiler Water	Turbidity	IS 3025 (Part 10): 1984 (RA 2006)	1 NTU to 200 NTU
	Bore well/ Domestic	рН @ 25°С	IS 3025 (Part 11): 1984 (RA 2006)	2-13
		Oxygen Dissolved (DO)	IS 3025 (Part 38): 1984 (RA 2014)	1 mg/l to 10 mg/l
		Phosphorus as P	APHA-(22 <sup>nd</sup> Ed) 2012- 4500-D	0.5 mg/l to 50 mg/l
		Total Dissolved Solids	IS 3025 (Part 16):1984 (RA 2006)	5 mg/l to 50000 mg/l
		Solids- Fixed & Volatile	APHA-(22 <sup>nd</sup> Ed) 2012- 2540 E Ignited at 550 °C	5 mg/l to 5000 mg/l
		Ammonia as NH₃-N	IS 3025 (Part-34):1988 (RA 2009)	1 mg/l to 50 mg/l
		Boron as B	Annex H of IS 13428: 2005 (RA 2006)	0.05 mg/l to 10 mg/l

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	Calcium as Ca	IS 3025 (Part 40): 1991 (RA 2009)	5 mg/l to 5000 mg/l
	Chloride as Cl	IS 3025 (Part-32): 1988 (RA 2009)	10 mg/l to 50000 mg/l
	Fluoride as F	IS 3025 (Part-60): 2008 APHA-(22 <sup>nd</sup> Ed)2012-4500 D	0.2 mg/l to 20 mg/l
	Free residual chlorine	APHA-(22 <sup>nd</sup> Ed) 2012- 4500G DPD Colorimetric Method	0.1 mg/l to 10 mg/l
	Iron as Fe	IS 3025 (Part 53): 2003 (RA 2009)	0.05 mg/l to 10 mg/l
	Magnesium as Mg	APHA-(22 <sup>nd</sup> Ed ) 2012- 3500-Mg B	5 mg/l to 2000 mg/l
	Biochemical Oxygen Demand (BOD)	IS: 3025 (Part 44):1993 (R- 1999) Ad.1 BOD 3-days at 27 °C	2 mg/l to 1000 mg/l
	Chemical Oxygen Demand (COD)	IS 3025 (Part 58) (RA 2012)	5 mg/l to 2000 mg/l
	Oil & Grease	IS 3025 (Part 39) (RA 2003)	4 mg/l to 40 mg/l
	Nitrate as NO <sub>3</sub>	IS 3025 (Part-34) 1988 (RA1999)	1 mg/l to 100 mg/l
	Sulphate as SO <sub>4</sub>	IS 3025 (Part 24): 1986 (RA 2003) Turbidity Method	5 mg/l to 1000 mg/l
	Sulphide as H <sub>2</sub> S	IS 3025 (Part 29): 1986 (RA 1992)	0.1 mg/l to 10 mg/l
	Total Alkalinity as CaCO <sub>3</sub>	IS 3025 (Part 23): 1986 (RA 2003)	5 mg/l to 5000 mg/l
	Total Hardness as CaCO <sub>3</sub>	IS 3025 (Part 21): 2009 (RA 2014)	5 mg/l to 5000 mg/l
	Silica as SiO <sub>2</sub>	APHA-(22 <sup>nd</sup> Ed)2012- 4500C	1 mg/l to 200 mg/l
	of Test	Calcium as Ca         Chloride as Cl         Fluoride as F         Free residual chlorine         Iron as Fe         Magnesium as Mg         Biochemical Oxygen         Demand (BOD)         Oil & Grease         Nitrate as NO3         Sulphate as SO4         Sulphide as H <sub>2</sub> S         Total Alkalinity as CaCO <sub>3</sub> Total Hardness as CaCO <sub>3</sub>	Deformed           Calcium as Ca         IS 3025 (Part 40): 1991 (RA 2009)           Chloride as Cl         IS 3025 (Part-32): 1988 (RA 2009)           Fluoride as F         IS 3025 (Part-60): 2008           APHA-(22 <sup>nd</sup> Ed)2012-4500 D         APHA-(22 <sup>nd</sup> Ed)2012-4500 D           Free residual chlorine         APHA-(22 <sup>nd</sup> Ed) 2012- 4500G DPD Colorimetric Method           Iron as Fe         IS 3025 (Part 53): 2003 (RA 2009)           Magnesium as Mg         APHA-(22 <sup>nd</sup> Ed) 2012- 3500-Mg B           Biochemical Oxygen Demand (BOD)         IS: 3025 (Part 44):1993 (R- 1999) Ad.1 BOD 3-days at 27 °C           Chemical Oxygen Demand (COD)         IS 3025 (Part 58) (RA 2012)           Oil & Grease         IS 3025 (Part 39) (RA 2003)           Nitrate as NO3         IS 3025 (Part 39) (RA 2003)           Nitrate as SO4         IS 3025 (Part 24): 1986 (RA 1999)           Sulphate as SO4         IS 3025 (Part 24): 1986 (RA 1992)           Total Alkalinity as CaCO3         IS 3025 (Part 23): 1986 (RA 2003)           Total Hardness as IS 3025 (Part 21): 2009 (CaCO3         IS 3025 (Part 21): 2009 (RA 2014)

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
II.	POLLUTION & ENV	IRONMENT		
1.	Liquid Effluent/ Waste Water/	Colour	IS 3025 (Part- 4): 1983 (RA 2012)	1 Hazen Units to 100 Hazen Units
	ETP/STP	Conductivity	IS 3025 (Part-14): 2013	1 μmho/cm to 20000 μmho/cm
		Temperature	APHA-(22 <sup>nd</sup> Ed )2012-2550 B	1°C to 50°C
		Turbidity	IS 3025 (Part-10): 1984 (RA 2006)	1 NTU to 200 NTU
		pH @ 25°C	IS 3025 (Part-11):1984 (RA 2006)	2 – 13
		Phosphate as PO <sub>4</sub>	APHA-(22 <sup>nd</sup> Ed)2012- 4500-D	0.5 mg/l to 50 mg/l
		Total Dissolved Solids	IS 3025 (Part-16):1984 (RA 2006)	5 mg/l to 50000 mg/l
		Mixed Liquor Volatile Suspended Solid	APHA-(22 <sup>nd</sup> Ed)2012-2540 E	5 mg/l to 5000 mg/l
		Mixed Liquor Suspended Solid	IS 3025 (Part-16):1984 (RA 2000)	5 mg/l to 10000 mg/l
		Ammonia as NH <sub>3</sub> -N	IS 3025 (Part-34):1988 (RA 2009) Titrimetric Method	1 mg/l to 100 mg/l
		Total Kjeldhal Nitrogen as NH <sub>3</sub>	IS 3025 (Part-34):1988 (RA 2014)	1 mg/l to 200 mg/l
		Boron as B	APHA-(22 <sup>nd</sup> Ed) 2012- 4500C	1 mg/l to 20 mg/l
		Calcium as Ca	IS 3025 (Part 40):1991 (RA 2009)	5 mg/l to 5000 mg/l
		Chloride as Cl	IS 3025 (Part 32):1988 (RA 2009)	10 mg/l to 5000 mg/l
		Fluoride as F	IS 3025 (Part 60):2008 APHA-(22 <sup>nd</sup> Ed) 2012-4500 D SPADNS Method	0.2 mg/l to 20 mg/l

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	Iron as Fe	IS 3025 (Part 53): 2003 (RA 2009)	0.05 mg/l to 10 mg/l
	Magnesium as Mg	APHA-(22 <sup>nd</sup> Ed) 2012- 3500-Mg B	5 mg/l to 2000 mg/l
	Biochemical Oxygen Demand (BOD)	IS: 3025 (Part 44)-1993 R- 1999 Ad.1 BOD 3-days at 27 ºC	2 mg/l to 50000 mg/l
	Chemical Oxygen Demand (COD)	IS 3025 (Part 58) (RA 2012)	5 mg/l to 100000 mg/l
	Oil & Grease	IS 3025 (Part 39) (RA 2003)	4 mg/l to 40 mg/l
	Nitrate as NO <sub>3</sub>	IS 3025 (Part 34) 1988 (RA 2009)	1 mg/l to 100 mg/l
	Sulphate as SO <sub>4</sub>	IS 3025 (Part 24) (RA 2014)	5 mg/l to 5000 mg/l
	Sulphide as H <sub>2</sub> S	IS 3025 (Part 29): 1986 (RA 1992)	0.1 mg/l to 10 mg/l
	Total Alkalinity as CaCO₃	IS 3025 (Part 23): 1986 (RA 2003)	5 mg/l to 5000 mg/l
	Total Hardness as CaCO₃	IS 3025 (Part 21): 2009 (RA 2014)	5 mg/l to 5000 mg/l
	Total Solids	IS 3025 (Part 15): 1984 (RA 2006)	10 mg/l to 50000 mg/l
	Silica as SiO <sub>2</sub>	APHA-(22 <sup>nd</sup> Ed) 2012- 4500C	1 mg/l to 200 mg/l
	Sodium as Na	IS 3025 (Part-45):1993 (RA 2003)	1 mg/l to 500 mg/l
	Potassium as K	IS 3025 (Part-45):1993 (RA 2003)	1 mg/l to 100 mg/l

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III.	ATMOSPHERIC PC	DLLUTION		
1.	Ambient Air Quality /Work	Sulphur Dioxide as SO <sub>2</sub>	IS 5182 (Part 2): 2001 (RA 2012)	5 μg/m³ to 1000 μg/m³
	Zone Émissions	Oxides of Nitrogen	IS 5182 (Part 6): 2006 (RA 2012)	7 μg/m³ to 750 μg/m³
		Respirable Suspended Particulate Matter (PM <sub>10</sub> )	IS 5182 (Part 23): 2006	5 μg/m³ to 5000 μg/m³
		Particulate Matter (PM <sub>2.5</sub> )	Lab SOP: EIL/SOP/AAQ/01 as per CPCB guidelines Vol1, 2012	5 μg/m³ to 500 μg/m³
		Ammonia as NH <sub>3</sub>	Lab SOP: EIL/SOP/AAQ/02 as per CPCB guidelines Vol1, 2012	5 μg/m³ to 1000 μg/m³
		Ozone as O <sub>3</sub>	IS 5182 (Part 9): 2006 (RA 2014)	5 μg/m <sup>3</sup> to 1000 μg/m <sup>3</sup>
2.	Stack Emissions/ Gaseous	Temperature	IS 11255 (Part-3): 2008 (RA 2013)	Ambient to 600°C
	Pollutants	Flue gas velocity	IS 11255 (Part 3): 2008 (RA 2013)	3 m/s to 60 m/s
		Particulate Matter	IS 11255 (Part 1): 1985 (2003) (RA 2014)	5 mg/Nm <sup>3</sup> to 1000 mg/Nm <sup>3</sup>
		Sulphur dioxide as SO <sub>2</sub>	IS 11255 (Part 2): 1985 USEPA 6C:1996	5 mg/Nm <sup>3</sup> to 5000 mg/Nm <sup>3</sup>
		Oxides of Nitrogen	IS 11255 (Part 7): 2005 (RA 2012)	2 mg/Nm <sup>3</sup> to 10,000 mg/Nm <sup>3</sup>

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SI.	Product / Material	Specific Test	Test Method Specification	0
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## CHEMICAL TESTING

AT	AT SITE I. ATMOSPHERIC POLLUTION			
Ι.				
1.	Stack Emissions/ Gaseous	Sulphur dioxide as SO <sub>2</sub>	By Flue gas analyzer (Lab SOP: EIL/SOP/SE/01)	5 mg/Nm <sup>3</sup> to 5000 mg/Nm <sup>3</sup>
	Pollutants	Oxides of Nitrogen	By Flue gas analyzer (Lab SOP: EIL/SOP/SE/01)	4 mg/Nm <sup>3</sup> to 2000 mg/Nm <sup>3</sup>
		Carbon dioxide as CO <sub>2</sub>	By Flue gas analyzer (Lab SOP: EIL/SOP/SE/01)	0.2 % to 20 %
		Carbon monoxide as CO	By Flue gas analyzer (Lab SOP: EIL/SOP/SE/01)	1ppm to 500 ppm
		Oxygen as O <sub>2</sub>	By Flue gas analyzer (Lab SOP: EIL/SOP/SE/01)	1 % to 25 %
2.	Noise	Noise Level LEq dB(A) Ambient	IS 9989-1981 (RA 2014) (Lab SOP: EIL/SOP/NL/01)	30 dB(A) to130 dB(A)