

**Laboratory** Green Vision Testing & Enviro Services, Plot No. 21, First Floor,  
Aarna-2 Tower, Kartarpura Industrial Area, 22 Godam, Jaipur,  
Rajasthan

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

**Certificate Number** TC-7004

**Page 1 of 5**

**Validity** 05.03.2018 to 04.03.2020

**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

<b>I.</b>	<b>WATER</b>			
<b>1.</b>	<b>Drinking Water, Ground Water &amp; Surface Water</b>	Colour	IS 3025 (Part 4): 1983 (RA 2017) Platinum Cobalt (Visual Compression) Method	5 Hazen to 500 Hazen
		Odour	IS 3025 (Part 5): 1983 (RA 2017)	Qualitative
		Turbidity	IS 3025 (Part 10): 1984 (RA 2017)	1 NTU to 1000 NTU
		pH	IS 3025 (Part 11): 1983 (RA 2017)	2 to 12
		Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (Part 21): 2009 (RA 2014) (EDTA Titrimetric Method)	2 mg/l to 1000 mg/l
		Iron (as Fe)	IS 3025 (Part 53): 2003 (RA 2014) (1,10 Phenanthroline Method)	0.1 mg/l to 10 mg/l
		Chloride (as Cl)	IS: 3025 (Part-32) :1988, (RA 2014) (Argentometric Method)	2 mg/l to 1000 mg/l
		Fluoride (as F <sup>-</sup> )	APHA 4500F (D) 22 <sup>nd</sup> Edition- 2012 (SPANDS Method)	0.1 mg/l to 25 mg/l
		Total solid	IS 3025 (Part 15): 1984 (RA 2014)	5 mg/l to 10000 mg/l
		Conductivity at 25 °C	IS 3025 (Part 14): 2013	0.1 µS/cm to 1000 µS/cm
		Total suspended solids	IS 3025 (Part 17): 1984 (RA 2017)	1 mg/l to 10000 mg/l

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**Page 2 of 5**

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		Sodium (as Na)	IS 3025 (Part 45): 1993 (RA 2014) (Flame Photometry Method)	1 mg/l to 100 mg/l
		Potassium (as K)	IS 3025 (Part 45): 1993 (RA 2014) (Flame Photometry Method)	1 mg/l to 100 mg/l
		Total Dissolved Solids (TDS)	IS 3025 (Part 16): 1984 (RA 2017)	5 mg/l to 10,000 mg/l
		Calcium (as Ca)	IS 3025 (Part 40): 1991 (RA 2014) (EDTA Titrimetric Method)	2 mg/l to 1000 mg/l
		Magnesium (as Mg)	IS 3025 (Part 46): 1994 (RA 2014) (Volumetric Method Using EDTA)	2 mg/l to 1000 mg/l
		Sulphate (as SO <sub>4</sub> )	IS 3025 (Part 24): 1986 (RA 2014) (Turbidity Method)	2 mg/l to 200 mg/l
		Nitrate (as NO <sub>3</sub> )	IS 3025 (Part 34): 1988 (RA 2014) (Chromotropic Acid Method)	2 mg/l to 100 mg/l
		Alkalinity (as HCO <sub>3</sub> )	IS 3025 (Part 23): 1986 (RA 2014)	2 mg/l to 1000 mg/l
		Phosphorus (as PO <sub>4</sub> )	IS 3025 (Part 31): 1988 (RA 2014) (Vanadomolybdo-Phosphoric Acid Method)	0.4 mg/l to 100 mg/l
<b>II.</b>	<b>POLLUTION &amp; ENVIRONMENT</b>			
<b>1.</b>	<b>Soil</b>	Potassium	GVTES/STP/SL/01/3.9 Issue No.-01 Issue Dated-05/04/2014	1 mg/kg to 1000 mg/kg

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**Page 3 of 5**

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		Sodium	GVTES/STP/SL/01/3.10 Issue No.-01 Issue Dated-05/04/2014	1 mg/kg to 1000 mg/kg
		Calcium	GVTES/STP/SL/01/3.11 Issue No.-01 Issue Dated-05/04/2014	4 mg/kg to 10000 mg/kg
		Magnesium	GVTES/STP/SL/01/3.11 Issue No.-01 Issue Dated-05/04/2014	4 mg/kg to 5000 mg/kg
		Chloride	GVTES/STP/SL/01/3.8 Issue No.-01 Issue Dated-05/04/2014	20 mg/kg to 10000 mg/kg
		Organic Matter	IS 2720 (Part 22): 1972 (RA 2015)	0.05 % to 4 %
		Moisture	IS 2720 (Part 2): 2010 (RA 2015)	1 % to 70 %
		pH	IS 2720 (Part 26): 1987 (RA 2011)	2 to 12
		Conductivity	IS 2720 (Part 21): 1977 (RA 2016)	0.1 µS/cm to 10000 µS/cm
		Specific Gravity (for Fine Sand)	IS 2720 (Part 3): 1980 (RA 2011)	1 to 3
		Specific Gravity (for Course & Medium Sand)	IS 2720 (Part-3) :1980 (RA2011)	1 to 3
		Bulk Density	IS 1462:1985 (RA2006)	0.5 gm/ml to 2 gm/ml
		Total Nitrogen	IS 14684:1999 (RA2014)	50 mg/kg to 5000 mg/kg
		Phosphorous	GVTES/STP/SL/01/3.12 Issue No.-01 Issue Dated-05/04/2014	5 mg/kg to 5000 mg/kg
		Grain Size Analysis (Texture)	IS 2720 (Part 4): 1985 (RA 2015)	Silt:0 to 100 % Clay:0 to 100 % Sand:0 to 100 %

**Ajay Sharma**  
Convenor

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Program Director

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**Page 4 of 5**

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2.	Waste Water (Effluent/ Sewage)	pH	IS 3025 (Part 11): 1983 (RA 2017)	2 to 12
		BOD at 27°C for 3 days	IS 3025 (Part 44): 1993 (RA 2014)	2 mg/l to 1000 mg/l
		COD	IS 3025 (Part 58): 2006 (RA 2017)	4 mg/l to 2000 mg/l
		DO	IS 3025 (Part 38): 1989 (RA 2014) (Titrimetric Method)	1 mg/l to 10 mg/l
		Oil & Grease	IS 3025 (Part 39): 1991 (RA 2014) (Gravimetric Method)	1 mg/l to 100 mg/l
III.	ATMOSPHERIC POLLUTION			
1.	Ambient Air	Nitrogen Dioxide as NO <sub>2</sub>	IS 5182 (Part 6): 2006 (RA 2017) Modified Jacob & Hochheiser (Na-Arsenite)	5 µg/m <sup>3</sup> to 250 µg/m <sup>3</sup>
		Sulphur dioxide as SO <sub>2</sub>	IS 5182 (Part 2): 2001 (RA 2017) (West and Gaeke Method)	5 µg/m <sup>3</sup> to 250 µg/m <sup>3</sup>
		Particulate Matter (PM 10)	IS 5182 (Part 23): 2006 (RA 2017) (Gravimetric Method)	10 µg/m <sup>3</sup> to 1000 µg/m <sup>3</sup>
		Particulate Matter (PM 2.5)	Lab SOP No-GVTES/ STP/ AIR/01/4.1 Issue No.-01 Issue Dated-05/04/2014 CPCB, NAAQMS (Vol- I) 2011	10 µg/m <sup>3</sup> to 500 µg/m <sup>3</sup>

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Page 5 of 5

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2.	Ambient Noise Levels (Excluding Vibration)	Ambient Noise Level dB (A)	IS 9989:1981	30 dB(A) to 130 dB(A)
3.	Stack Emission	Particulate Matter	IS 11255 (Part 1): 1985 (RA 2014)	1 mg/Nm <sup>3</sup> to 1000 mg/Nm <sup>3</sup>
		Sulphur dioxide	IS 11255 (Part 2): 1985 (RA 2014)	3 mg/Nm <sup>3</sup> to 1000 mg/Nm <sup>3</sup>
		Oxides of Nitrogen	IS 11255 (Part 7): 2005 (RA 2017)	2 mg/Nm <sup>3</sup> to 500 mg/Nm <sup>3</sup>