

<b>Laboratory</b>	<b>Enviro Care India Private Limited, No. 43, Second Street, Harvey, Madurai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>19.10.2014</b>
<b>Certificate Number</b>	<b>T-1481</b>	<b>Valid Until</b>	<b>09.09.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>1 of 35</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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**AT LABORATORY**

**I. WATER**

<b>1. Drinking Water</b>	Color		IS 3025: Part 04 :1983 RA: 2002	1 - 100 Hazen units
	Odor		IS 3025: Part: 05:1983 RA: 2002	Agreeable /Disagreeable
	pH value @ 25 <sup>0</sup> C		IS 3025 : Part 11:1983 RA: 2002	1 – 14 Unit
	Taste		IS 3025 : Part 08 :1984 RA: 2002	Agreeable /Disagreeable
	Turbidity		IS 3025 : Part 10 :1984 RA: 2002	0.5 - 400 NTU
	Total Dissolved Solids @ 105 <sup>0</sup> C		IS 3025 : Part 16 :1984 RA: 2002	1 – 5000 mg/l
	Aluminium (as Al)		IS 3025 : Part 55 : 2003	0.02 - 50 mg/l
	Total Ammonia (as NH <sub>3</sub> -N)		IS 3025 : Part 34 : 1988 RA: 2003	0.1 - 50 mg/l
	Anionic Surface Active Agent ( as MBAS)		IS 13428:2005 (Annex K)	0.01 – 2.0 mg/l
	Barium (as Ba)		IS 13428:2005 (Annex F)	0.5 – 2.0 mg/l
	Boron (as B)		IS 3025 : Part 57 : 2005	0.2 – 2.0 mg/l
	Calcium (as Ca)		IS 3025 : Part 40 :1991 RA: 2003	1 – 1000 mg/l
	Total Chloramines (as Cl <sub>2</sub> )		IS 3025 : Part 26 :1986 RA: 2003	0.2 – 10 mg/l

<b>Laboratory</b>	<b>Enviro Care India Private Limited, No. 43, Second Street, Harvey, Madurai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>19.10.2014</b>
<b>Certificate Number</b>	<b>T-1481</b>	<b>Valid Until</b>	<b>09.09.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>2 of 35</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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**AT LABORATORY**

<b>Drinking Water</b>	Chlorides (as Cl)	IS 3025 : Part 32 :1988 RA: 2003	1 – 2000 mg/l
	Copper (as Cu)	IS 3025 : Part 42 :1992 RA: 2003	0.01 - 5 mg/l
	Fluoride (as F)	IS 3025 : Part 60 :2008	0.1 – 2.0 mg/l
	Residual Free Chlorine (RFC)	IS 3025 : Part 26 :1986 RA: 2003	0.1 – 2.0 mg/l
	Iron (as Fe)	IS 3025 : Part 53 : 2003	0.01 - 5 mg/l
	Magnesium (as Mg)	IS 3025 : Part 46 :1994 RA: 2003	1 – 1000 mg/l
	Manganese (as Mn)	IS 3025 : Part 59 : 2006	0.03 – 2.0 mg/l
	Mineral Oil	IS 3025 : Part 39 :1991 RA: 2003	0.5 – 100 mg/l
	Nitrate (as NO <sub>3</sub> )	IS 3025 : Part 34 : 1988 RA: 2003	1.0 – 100 mg/l
	Phenolic Compound (as C <sub>6</sub> H <sub>5</sub> OH)	IS 3025 :Part 43:1992 RA: 2003	0.001 – 3.0 mg/l
	Selenium (as Se)	IS 3025 :Part 56 : 2003	0.01 – 10 mg/l
	Silver (as Ag)	IS 13428:2005 (Annex J)	0.01 – 2.0 mg/l
	Sulphates (as SO <sub>4</sub> <sup>-2</sup> )	IS 3025 : Part 24 :1986 RA: 2003	1 - 1000 mg/l
	Sulphide (as H <sub>2</sub> S)	IS 3025 : Part 29 :1986 RA: 2003	0.04 – 2.0 mg/l

<b>Laboratory</b>	<b>Enviro Care India Private Limited, No. 43, Second Street, Harvey, Madurai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>19.10.2014</b>
<b>Certificate Number</b>	<b>T-1481</b>	<b>Valid Until</b>	<b>09.09.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>3 of 35</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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**AT LABORATORY**

<b>Drinking Water</b>	Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 : Part 23 :1986 RA: 2003	1 - 1000 mg/l
	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 : Part 21 :2009	1 - 2000 mg/l
	Zinc ( as Zn)	IS 3025 : Part 49 :1994 RA: 2003	0.01 – 5.0 mg/l
	Cadmium (as Cd)	IS 3025 : Part 41 :1992 RA: 2003	0.01 – 2.0 mg/l
	Cyanide (as CN)	IS 3025 : Part 27 :1986 RA: 2003	0.02 – 2 mg/l
	Lead (as Pb)	IS 3025 : Part 47 :1994 RA: 2003	0.01 – 5.0 mg/l
	Mercury (as Hg)	IS 3025 : Part 48 :1994 RA 1999	0.001 – 2.0 mg/l
	Nickel (as Ni)	IS 3025 : Part 54 :2003	0.01 – 5.0 mg/l
	Poly Chlorinated Biphenyls (PCB)	APHA 22 <sup>nd</sup> Edition 6630	0.01 µg/l – 0.1 mg/l
	Poly Nuclear Aromatic Hydrocarbon (PAH)	APHA 22 <sup>nd</sup> Edition 6440	0.01 µg/l – 0.1 mg/l

<b>Laboratory</b>	<b>Enviro Care India Private Limited, No. 43, Second Street, Harvey, Madurai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>19.10.2014</b>
<b>Certificate Number</b>	<b>T-1481</b>	<b>Valid Until</b>	<b>09.09.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>4 of 35</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b><u>AT LABORATORY</u></b>				
	<b>Drinking Water</b>	Total Arsenic (as As)	IS 3025 : Part 37 :1988 RA 1999	0.01 – 2.0 mg/l
		Total Chromium (as Cr)	IS 3025 : Part 52 : 2003	0.01 – 5.0 mg/l
<b>2.</b>	<b>Water used for Construction Purpose</b>	pH value @ 25 <sup>0</sup> C	IS 3025 : Part 11 :1983 RA: 2002	1 – 14 Unit
		Quantity of 0.02 N NaOH required to neutralizing 100 ml of water sample using phenolphthalein as an indicator	IS 3025 : Part 22 :1986 RA: 2003	0.1 – 50 ml
		Quantity of 0.02 N H <sub>2</sub> SO <sub>4</sub> required to neutralizing 100 ml of water sample using mixed indicator.	IS 3025 : Part 23 :1986 RA: 2003	0.1 - 100 ml
		Volatile Residue (organic) @ 550 <sup>0</sup> C	IS 3025 : Part 18 :1984 RA: 2002	1 – 10,000 mg/l
		Fixed Residue (inorganic) @ 105 <sup>0</sup> C	IS 3025 : Part 18 :1984 RA: 2002	1 – 10,000 mg/l
		Sulphates (as SO <sub>4</sub> <sup>-2</sup> )	IS 3025 : Part 24 :1986 RA: 2003	1 - 1000 mg/l
		Chlorides (as Cl <sup>-</sup> )	IS 3025 : Part 32 :1988 RA: 2003	1 - 5000 mg/l
		Total Suspended Solids @ 105 <sup>0</sup> C	IS 3025 : Part 17 :1984 RA: 2002	1 – 1000 mg/l

<b>Laboratory</b>	<b>Enviro Care India Private Limited, No. 43, Second Street, Harvey, Madurai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>19.10.2014</b>
<b>Certificate Number</b>	<b>T-1481</b>	<b>Valid Until</b>	<b>09.09.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>5 of 35</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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**AT LABORATORY**

<b>3. Packaged Drinking Water &amp; Packaged Natural Mineral Water</b>	Color		IS 3025: Part 04 :1983 RA: 2002	1 - 100 Hazen units
	Odor		IS 3025 : Part 05 :1983 RA: 2002	Agreeable /Disagreeable
	Taste		IS 3025 : Part 08 :1984 RA: 2002	Agreeable - Action Tendency Scale A/B/C
	Turbidity		IS 3025 : Part 10 :1984 RA: 2002	0.5 - 400 NTU
	Total Dissolved Solids@ 105°C		IS 3025 : Part 16 :1984 RA: 2002	1 – 1000 mg/l
	pH value @ 25°C		IS 3025 : Part 11 1983 RA: 2002	1 – 14 Unit
	Barium (as Ba)		IS 13428:2005 (Annex F)	0.5 – 2.0 mg/l
	Copper (as Cu)		IS 3025 : Part 42 :1992 RA: 2003	0.03 – 5.0 mg/l
	Iron (as Fe)		IS 3025 : Part 53 : 2003	0.01 – 5.0 mg/l
	Manganese (as Mn)		IS 3025 : Part 59 : 2006	0.03 – 2.0 mg/l
	Nitrate Nitrogen (as NO <sub>3</sub> )		IS 3025 : Part 34 : 1988 RA: 2003	1.0 – 100 mg/l
	Nitrite Nitrogen (as NO <sub>2</sub> )		IS 3025 : Part 34 : 1988 RA: 2003	0.01 – 100 mg/l
	Fluoride (as F)		IS 3025 : Part 60 :2008	0.1 – 2 mg/l
Zinc ( as Zn)		IS 3025 : Part 49 :1994 RA: 2003	0.01 - 5 mg/l	

<b>Laboratory</b>	<b>Enviro Care India Private Limited, No. 43, Second Street, Harvey, Madurai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>19.10.2014</b>
<b>Certificate Number</b>	<b>T-1481</b>	<b>Valid Until</b>	<b>09.09.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>6 of 35</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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**AT LABORATORY**

<b>Packaged Drinking Water &amp; Packaged Natural Mineral Water</b>	Silver (as Ag)	IS 13428:2005 (Annex J)	0.01 – 2.0 mg/l
	Aluminium (as Al)	IS 3025 : Part 55 : 2003	0.02 - 50 mg/l
	Chlorides (as Cl <sup>-</sup> )	IS 3025 : Part 32 :1988 RA: 2003	1 – 500 mg/l
	Selenium (as Se)	IS 3025 :Part 56 : 2003	0.01 – 10 mg/l
	Sulphates (as SO <sub>4</sub> <sup>-2</sup> )	IS 3025 : Part 24 :1986 RA: 2003	1 - 200 mg/l
	Alkalinity (as HCO <sub>3</sub> )	IS 3025 : Part 23 :1986 RA: 2003	1 - 500 mg/l
	Calcium (as Ca)	IS 3025 : Part 40 :1991 RA: 2003	1 – 200 mg/l
	Magnesium (as Mg)	IS 3025 : Part 46 :1994 RA: 2003	1 – 200 mg/l
	Sodium (as Na)	IS 3025 : Part 45 :1993 RA: 2003	1 – 100 mg/l
	Residual Free Chlorine (RFC)	IS 3025 : Part 26 :1986 RA: 2003	0.1 – 2.0 mg/l
	Phenolic Compound (as C <sub>6</sub> H <sub>5</sub> OH)	IS 3025 :Part 43:1992 RA: 2003	0.001 – 3.0 mg/l
	Mineral Oil	IS 3025 : Part 39 :1991 RA: 2003	0.5 – 100 mg/l
	Anionic Surface Active Agent (as MBAS)	IS 13428:2005 (Annex K)	0.01 – 2.0 mg/l
	Sulphide (as H <sub>2</sub> S)	IS 3025 : Part 29 :2003	0.04 – 2.0 mg/l

<b>Laboratory</b>	<b>Enviro Care India Private Limited, No. 43, Second Street, Harvey, Madurai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>19.10.2014</b>
<b>Certificate Number</b>	<b>T-1481</b>	<b>Valid Until</b>	<b>09.09.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>7 of 35</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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**AT LABORATORY**

<b>Packaged Drinking Water &amp; Packaged Natural Mineral Water</b>	Antimony (as Sb)	IS 13428:2005 (Annex G)	0.002 – 0.1 mg/l
	Borates (as B)	IS 13428:2005 (Annex H)	0.2 – 10 mg/l
	Mercury (as Hg)	IS 3025 : Part 48 :1994 RA 1999	0.001 – 2.0 mg/l
	Cadmium (as Cd)	IS 3025 : Part 41 :1992 RA: 2003	0.01 – 2.0 mg/l
	Arsenic (as As)	IS 3025 : Part 37 :1988 RA 1999	0.01 – 2.0 mg/l
	Cyanide (as CN)	IS 3025 : Part 27 :1986 RA: 2003	0.02 – 2 mg/l
	Lead (as Pb)	IS 3025 : Part 47 :1994 RA: 2003	0.01 - 5 mg/l
	Total Chromium (as Cr)	IS 13428: 2005 Annex J	0.01 - 5 mg/l
	Nickel (as Ni)	IS 13428: 2005 Annex L	0.01 - 5 mg/l
	Poly Chlorinated Biphenyls (PCB)	IS 13428: 2005 Annex M	0.025 µg/l – 0.1 mg/l
	Poly Nuclear Aromatic Hydrocarbon (PAH)	APHA 22 <sup>nd</sup> Edition 6440	0.025 µg/l – 0.1 mg/l

<b>Laboratory</b>	<b>Enviro Care India Private Limited, No. 43, Second Street, Harvey, Madurai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>19.10.2014</b>
<b>Certificate Number</b>	<b>T-1481</b>	<b>Valid Until</b>	<b>09.09.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>8 of 35</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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**AT LABORATORY**

<b>4.</b>	<b>Water used for Swimming Pools</b>	pH value @ 25 <sup>0</sup> C	IS 3025 : Part 11 1983 RA: 2002	1 – 14 Unit
		Total Alkalinity (as Ca CO <sub>3</sub> )	IS 3025 : Part 23 :1986 RA: 2003	1 - 1000 mg/l
		Aluminium (as Al)	IS 3025 : Part 55 : 2003	0.02 - 50 mg/l
		Total Residual Chlorine	IS 3025 : Part 26 :1986 RA: 2003	0.1 - 100 mg/l
		Oxygen Absorbed in 4 hrs at 27 <sup>0</sup> C	IS 3025 :Part 63 :2007	0.4 - 10 mg/l
		Total Dissolved Solids @ 105 <sup>0</sup> C	IS 3025 : Part 16 :1984 RA: 2002	1 – 10,000 mg/l
		Chlorides (as Cl <sup>-</sup> )	IS 3025 : Part 32 :1988 RA: 2003	1 – 10,000 mg/l
		Iron (as Fe)	IS 3025 : Part 53 : 2003	0.01 - 5 mg/l
		Lead (as Pb)	IS 3025 : Part 47 :1994 RA: 2003	0.01 - 5 mg/l
		Color	IS 3025: Part 04 :1983 RA: 2002	1 - 100 Hazen units
		Odor	IS 3025 : Part 05 :1983 RA: 2002	Odorless / Odor
		Turbidity	IS 3025 : Part 10 :1984 RA: 2002	0.5 - 400 NTU
		Taste	IS 3025 : Part 08 :1984 RA: 2002	Palatable /Unpalatable

<b>Laboratory</b>	<b>Enviro Care India Private Limited, No. 43, Second Street, Harvey, Madurai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>19.10.2014</b>
<b>Certificate Number</b>	<b>T-1481</b>	<b>Valid Until</b>	<b>09.09.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>9 of 35</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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**AT LABORATORY**

<b>5. Water used for Processed Food Industry/ Water for Ice Manufacture &amp; Water for Fermentation industry</b>	Color	IS 3025: Part 04 :1983 RA: 2002	1 - 100 Hazen units
	Odor	IS 3025 : Part 05 :1983 RA: 2002	Agreeable /Disagreeable
	Turbidity	IS 3025 : Part 10 :1984 RA: 2002	0.5 - 400 NTU
	pH value @ 25 <sup>0</sup> C	IS 3025 : Part 11 1983 RA: 2002	1 – 14 Unit
	Total Solids @ 105 <sup>0</sup> C	IS 3025 : Part 15 :1984 RA: 2003	1 – 10,000 mg/l
	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 : Part 21 :2009	1 - 5000 mg/l
	Sulphates (as SO <sub>4</sub> <sup>-2</sup> )	IS 3025 : Part 24 :1986 RA: 2003	1 - 5000 mg/l
	Fluoride (as F)	IS 3025 : Part 60 :2008	0.1 – 2 mg/l
	Chlorides (as Cl <sup>-</sup> )	IS 3025 : Part 32 :1988 RA: 2003	1 – 10000 mg/l
	Selenium (as Se)	IS 3025 :Part 56 : 2003	0.01 – 10 mg/l
	Cyanide (as CN)	IS 3025 : Part 27 :1986 RA: 2003	0.02 – 2 mg/l
	Iron (as Fe)	IS 3025 : Part 53 : 2003	0.01 - 5 mg/l
	Manganese (as Mn)	IS 3025 : Part 59 : 2006	0.03 – 2.0 mg/l
Magnesium (as Mg)	IS 3025 : Part 46 :1994 RA: 2003	1 – 2000 mg/l	

<b>Laboratory</b>	<b>Enviro Care India Private Limited, No. 43, Second Street, Harvey, Madurai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>19.10.2014</b>
<b>Certificate Number</b>	<b>T-1481</b>	<b>Valid Until</b>	<b>09.09.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>10 of 35</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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**AT LABORATORY**

	<b>Water used for Processed Food Industry/ Water for Ice Manufacture &amp; Water for Fermentation industry</b>	Copper (as Cu)	IS 3025 : Part 42 :1992 RA: 2003	0.01 – 5.0 mg/l
		Lead (as Pb)	IS 3025 : Part 47 :1994 RA: 2003	0.01 – 5.0 mg/l
		Hexavalent Chromium (as Cr <sup>6+</sup> )	IS 3025 :Part 52 :2003	0.01 – 5.0 mg/l
		Zinc ( as Zn)	IS 3025 : Part 49 :1994 RA: 2003	0.01 – 5.0 mg/l
		Arsenic (as As)	IS 3025 : Part 37 :1988 RA 1999	0.01 – 2.0 mg/l
		Nitrate Nitrogen (as NO <sub>3</sub> )	IS 3025 : Part 34 : 1988 RA: 2003	1.0 – 100 mg/l
		Phenolic Compound (as C <sub>6</sub> H <sub>5</sub> OH)	IS 3025 :Part 43:1992 RA: 2003	0.001 – 3.0 mg/l
		Mercury (as Hg)	IS 3025 : Part 48 :1994 RA: 1999	0.001 – 2.0 mg/l
		Cadmium (as Cd)	IS 3025 : Part 41 :1992 RA: 2003	0.01 – 2.0 mg/l
<b>6.</b>	<b>Pesticide Residues in Water</b>	<b>Pesticide Residues</b>		
		Alachlor	EPA 525.2	0.025 - 1000 µg/l
		Atrazine	EPA 8141A	0.025 - 1000 µg/l
		Butachlor	EPA 525.2	0.025 - 1000 µg/l
		Chloropyrifos	EPA 8141A	0.025 - 1000 µg/l
		Aldrin	EPA 525.2	0.025 - 1000 µg/l

<b>Laboratory</b>	<b>Enviro Care India Private Limited, No. 43, Second Street, Harvey, Madurai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>19.10.2014</b>
<b>Certificate Number</b>	<b>T-1481</b>	<b>Valid Until</b>	<b>09.09.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>11 of 35</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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**AT LABORATORY**

**Pesticide Residues in Water**

Dieldrin	EPA 525.2	0.025 - 1000 µg/l
Alpha Endosulfan	EPA 508	0.025 - 1000 µg/l
Beta endosulfan	EPA 508	0.025 - 1000 µg/l
o,p – DDD	EPA 508	0.025 - 1000 µg/l
p,p – DDD (4,4 DDD)	EPA 508	0.025 - 1000 µg/l
o,p – DDE	EPA 508	0.025 - 1000 µg/l
p,p – DDE (4,4 DDE)	EPA 508	0.025 - 1000 µg/l
o,p – DDT	EPA 508	0.025 - 1000 µg/l
p,p – DDT (4,4 DDT)	EPA 508	0.025 - 1000 µg/l
Endosulfan sulfate	EPA 508	0.025 - 1000 µg/l
Lindane	EPA 508	0.025 - 1000 µg/l
Alpha – HCH	EPA 508	0.025 - 1000 µg/l
Beta – HCH	EPA 508	0.025 - 1000 µg/l
Delta – HCH	EPA 508	0.025 - 1000 µg/l
Ethion	EPA 1657A	0.025 - 1000 µg/l

<b>Laboratory</b>	<b>Enviro Care India Private Limited, No. 43, Second Street, Harvey, Madurai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>19.10.2014</b>
<b>Certificate Number</b>	<b>T-1481</b>	<b>Valid Until</b>	<b>09.09.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>12 of 35</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b><u>AT LABORATORY</u></b>				
	<b>Pesticide Residues in Water</b>	2,4 – D	EPA 515.1	0.025 - 1000 µg/l
		Isoproturon	EPA 532	0.025 - 1000 µg/l
		Malathion	EPA 8141A	0.025 - 1000 µg/l
		Malaaxon	EPA 8141A	0.025 - 1000 µg/l
		Methyl parathion	EPA 8141A	0.025 - 1000 µg/l
		Methyl paraoxon	EPA 8141A	0.025 - 1000 µg/l
		Phorate	EPA 8141A	0.025 - 1000 µg/l
		Phorate sulphoxide	EPA 8141A	0.025 - 1000 µg/l
		Phorate sulphone	EPA 8141A	0.025 - 1000 µg/l
		Monocrotophos	EPA 8141A	0.025 - 1000 µg/l
<b>7.</b>	<b>Potable Water</b>	Dissolved Oxygen (DO)	IS 3025 : Part 38 :1989 RA: 2003	0.1 - 10 mg/l
		Potassium (as K)	IS 3025 : Part 45 :1993 RA: 2003	1 – 1000 mg/l
		Sludge Volume Index (SVI)	APHA 22 <sup>nd</sup> Edition 2710 - D	By Calculation
		Electrical Conductivity (EC) @ 25 <sup>o</sup> C	IS 3025 : Part 14 :2013	1µmhos - 199 mmhos/cm

<b>Laboratory</b>	<b>Enviro Care India Private Limited, No. 43, Second Street, Harvey, Madurai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>19.10.2014</b>
<b>Certificate Number</b>	<b>T-1481</b>	<b>Valid Until</b>	<b>09.09.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>13 of 35</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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**AT LABORATORY**

<b>Potable Water</b>	Reactive Silica (as SiO <sub>2</sub> )	IS 3025 : Part 35 :1988 RA: 2003	0.2– 100 mg/l
	Sulphite (as SO <sub>3</sub> )	IS 3025 : Part 28 : 1986 RA: 2003	0.2– 100 mg/l
	Carbonate & Bicarbonate (as CaCO <sub>3</sub> )	IS 3025 : Part 51 : 2001	By Calculation
	Phenolphthalein Alkalinity (as CaCO <sub>3</sub> )	IS 3025 : Part 23 :1986 RA: 2003	0 - 1000 mg/l
	Mineral Acidity (as CaCO <sub>3</sub> )	IS 3025 : Part 22 : 1986 RA: 2003	1 - 1000 mg/l
	Sodium Absorption Ratio (SAR)	IS 11624:1996 RA 2009	By Calculation
	Carbonate Hardness (as CaCO <sub>3</sub> )	IS 3025:Part:21:2009	1 – 1000 mg/l
	Non-Carbonate Hardness (as CaCO <sub>3</sub> )	IS 3025:Part:21:2009	1 – 1000 mg/l
	Methyl Orange Alkalinity (as CaCO <sub>3</sub> )	IS 3025 : Part 23 :1986 (RA 2003)	1 – 1000 mg/l
	Bromide (as Br)	IS 3025:Part:30:2003	0.1 – 2.0 mg/l
	Settleable Solids	IS 3025:Part:19:2002	1.0 – 40 ml/l
	Tannin & Lignin	APHA 22 <sup>nd</sup> Edn 5550	0.5 - 50 mg/l

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>19.10.2014</b>
<b>Certificate Number</b>	<b>T-1481</b>	<b>Valid Until</b>	<b>09.09.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>14 of 35</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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**AT LABORATORY**

<b>8.</b>	<b>Waste Water</b>	Dissolved Oxygen (DO)	IS 3025 : Part 38 :1989 RA: 2003	0.1 - 10 mg/l
		Potassium (as K)	IS 3025 : Part 45 :1993 RA: 2003	1 – 1000 mg/l
		Sludge Volume Index (SVI)	APHA 22 <sup>nd</sup> Edition 2710 - D	By Calculation
		Electrical Conductivity (EC) @ 25 <sup>o</sup> C	IS 3025 : Part 14 :2013	1µmhos - 199 mmhos/cm
		Reactive Silica (as SiO <sub>2</sub> )	IS 3025 : Part 35 :1988 RA: 2003	0.2– 100 mg/l
		Sulphite (as SO <sub>3</sub> )	IS 3025 : Part 28 : 1986 RA: 2003	0.2– 100 mg/l
		Carbonate & Bicarbonate (as CaCO <sub>3</sub> )	IS 3025 : Part 51 : 2001	By Calculation
		Phenolphthalein Alkalinity (as CaCO <sub>3</sub> )	IS 3025 : Part 23 :1986 RA: 2003	0 - 1000 mg/l
		Mineral Acidity (as CaCO <sub>3</sub> )	IS 3025 : Part 22 : 1986 RA: 2003	1 - 1000 mg/l
		Sodium Absorption Ratio (SAR)	IS 11624:1996 RA 2009	By Calculation
		Carbonate Hardness (as CaCO <sub>3</sub> )	IS 3025:Part:21:2009	1 – 1000 mg/l
		Non-Carbonate Hardness (as CaCO <sub>3</sub> )	IS 3025:Part:21:2009	1 – 1000 mg/l

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>19.10.2014</b>
<b>Certificate Number</b>	<b>T-1481</b>	<b>Valid Until</b>	<b>09.09.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>15 of 35</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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**AT LABORATORY**

<b>Waste Water</b>	Methyl Orange Alkalinity (as CaCO <sub>3</sub> )	IS 3025 : Part 23 :1986 (RA 2003)	1 – 1000 mg/l
	Bromide (as Br)	IS 3025:Part:30:2003	0.1 – 2.0 mg/l
	Settleable Solids	IS 3025:Part:19:2002	1.0 – 40 ml/l
	Tannin & Lignin	APHA 22 <sup>nd</sup> Edn 5550	0.5 - 50 mg/l

**II. POLLUTION AND ENVIRONMENT**

<b>1. Raw/Treated Effluent, Sewage Water as per TNPCB</b>	Color	IS 3025: Part 04 :1983 RA: 2002	1 - 500 Hazen units
	Odor	IS 3025 : Part 05 :1983 RA: 2002	Agreeable /Disagreeable
	Total Suspended Solids @ 105 <sup>0</sup> C	IS 3025 : Part 17 :1984 RA: 2002	1 – 1000 mg/l
	Total Dissolved Solids (Inorganic ) @ 105 <sup>0</sup> C	IS 3025 : Part 16 :1984 RA: 2002	1 – 10,000 mg/l
	pH value @ 25 <sup>0</sup> C	IS 3025 : Part 11 1983 RA: 2002	1 – 14 Unit
	Temperature	IS 3025 : Part 09 :1984 RA: 2002	1 – 100°C
	Oil & Grease	IS 3025 : Part 39 :1991 RA: 2003	1 - 1000 mg/l
	Total Residual Chlorine	IS 3025 : Part 26 :1986 RA: 2003	0.1 - 100 mg/l
	Ammonical Nitrogen (as N)	APHA 22 <sup>nd</sup> 4500 NH <sub>3</sub> C	1 – 1000 mg/l

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>19.10.2014</b>
<b>Certificate Number</b>	<b>T-1481</b>	<b>Valid Until</b>	<b>09.09.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>16 of 35</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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**AT LABORATORY**

<b>Raw/Treated Effluent, Sewage Water as per TNPCB</b>	Total Kjeldahl Nitrogen (as N)	APHA 22 <sup>nd</sup> 4500 Norg C	1 – 1000 mg/l
	Free Ammonia (as NH <sub>3</sub> )	APHA 22 <sup>nd</sup> 4500 NH <sub>3</sub> C	1 – 500 mg/l
	Bio chemical oxygen demand (BOD) (at 27°C for 3 days)	IS 3025 : Part 44 :1993 RA: 2003	1 - 2000 mg/l
	Chemical Oxygen Demand (COD)	IS 3025 : Part 58 : 2006	1 - 5000 mg/l
	Arsenic (as As)	IS 3025 : Part 37 :1988 RA 1999	0.01 – 2.0 mg/l
	Mercury (as Hg)	IS 3025 : Part 48 :1994 RA 1999	0.001 – 2.0 mg/l
	Lead (as Pb)	IS 3025 : Part 47 :1994 RA: 2003	0.01 – 5.0 mg/l
	Cadmium (as Cd)	IS 3025 : Part 41 :1992 RA: 2003	0.01 – 2.0 mg/l
	Hexavalent Chromium (as Cr <sup>6+</sup> )	IS 3025 :Part 52 :2003	0.01 – 5.0 mg/l
	Total Chromium (as Cr)	IS 3025 : Part 52 : 2003	0.01 – 5.0 mg/l
	Copper (as Cu)	IS 3025 : Part 42 :1992 RA: 2003	0.03 – 5.0 mg/l
	Zinc ( as Zn)	IS 3025 : Part 49 :1994 RA: 2003	0.01 – 5.0 mg/l

<b>Laboratory</b>	<b>Enviro Care India Private Limited, No. 43, Second Street, Harvey, Madurai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>19.10.2014</b>
<b>Certificate Number</b>	<b>T-1481</b>	<b>Valid Until</b>	<b>09.09.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>17 of 35</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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**AT LABORATORY**

<b>Raw/Treated Effluent, Sewage Water as per TNPCB</b>	Selenium (as Se)	IS 3025 :Part 56 : 2003	0.01 – 10 mg/l
	Nickel (as Ni)	IS 3025 : Part 54 :2003	0.01 - 5 mg/l
	Boron (as B)	IS 3025 : Part 57 : 2005	0.2 – 2 mg/l
	Percent Sodium	IS 2296 1982/ Internal Method	By Calculation
	Residual Sodium Carbonate	IS 11624:1986 RA 2009	By Calculation
	Cyanide (as CN)	IS 3025 : Part 27 :1986 RA: 2003	0.02 – 2 mg/l
	Chlorides (as Cl <sup>-</sup> )	IS 3025 : Part 32 :1988 RA: 2003	1 – 10000 mg/l
	Fluoride (as F)	APHA 22 <sup>nd</sup> Edi 4500 F - D	0.1 – 2 mg/l
	Phosphates (as PO <sub>4</sub> )	APHA 22 <sup>nd</sup> Edition 4500 P-D	0.1 – 10 mg/l
	Sulphates (as SO <sub>4</sub> <sup>-2</sup> )	IS 3025 : Part 24 :1986 RA: 2003	1 - 5000 mg/l
	Sulphide (as H <sub>2</sub> S)	APHA 22 <sup>nd</sup> Edi 4500 – S <sup>2-</sup> .F	0.04 – 2.0 mg/l
	Phenolic Compound (as C <sub>6</sub> H <sub>5</sub> OH)	IS 3025 :Part 43:1992 RA: 2003	0.01 - 5.0 mg/l

<b>Laboratory</b>	<b>Enviro Care India Private Limited, No. 43, Second Street, Harvey, Madurai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>19.10.2014</b>
<b>Certificate Number</b>	<b>T-1481</b>	<b>Valid Until</b>	<b>09.09.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>18 of 35</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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**AT LABORATORY**

**III. FOOD & AGRICULTURAL PRODUCTS**

<b>1. Sugar &amp; Sugar Products</b>	Loss on Drying	IS 15279:2003 Clause 4.0	0.01-5.0 %
	Sulphated Ash	DGHS Manual 4 :2005	0.01-2.0 %
	Sulphur Dioxide	AOAC 19th Edn Chapter 47 990.28	≥ 1 mg/ kg
	Colour (ICUMSA units)	IS 15279:2003 Clause 8.0	20-250
	Sugar (Reducing Sugars, Total Reducing Sugars, Sucrose, Added Sugar)	DGHS Manual 4: 2005	0.01-99.99 %
<b>2. Oil &amp; Fat Products</b>	Moisture and Volatile Matter	DGHS Manual 2: 2005	0.01-2.0 %
	Specific Gravity	DGHS Manual 2: 2005	0.5-1.5 %
	Refractive Index	AOAC 19th Edn. Chapter 41 921.8	1.30-1.70
	Melting Point	DGHS Manual 2: 2005	25-250 °C
	Iodine Value	DGHS Manual 2: 2005	5-150
	Peroxide Value	IS 548: Part 1:1964 RA 2010	0.01-20 mEqu/kg
	Saponification Value	DGHS Manual 2: 2005	10-300

<b>Laboratory</b>	<b>Enviro Care India Private Limited, No. 43, Second Street, Harvey, Madurai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>19.10.2014</b>
<b>Certificate Number</b>	<b>T-1481</b>	<b>Valid Until</b>	<b>09.09.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>19 of 35</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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**AT LABORATORY**

<b>Oil &amp; Fat Products</b>	Unsaponifiable Matter	DGHS Manual 2: 2005	0.1-50 %
	Free Fatty Acid	DGHS Manual 2: 2005	0.01-10.0 %
	Acid Value	DGHS Manual 2: 2005	0.1 - 6.0
	Reichert Meissel Value	DGHS Manual 2: 2005	2-30
	Polenske Value	DGHS Manual 2: 2005	0.1-25
	Flash Point	DGHS Manual 2: 2005	25-300 °C
	Sesame Oil (Baudouins Test)	AOAC 19th Edn. Chapter 41, 893.01	Qualitative
	Presence of Mineral oil	DGHS Manual 2 : 2005	Qualitative
	Presence of Hydrocyanic acid	DGHS Manual 2 : 2005	Qualitative
	Bellier Test	IS 548:Part 2:1976 RA: 2010	Qualitative
	Energy – Kcal/100g	PCAF – 9 <sup>th</sup> Edn., 1991	23-810 Kcal/100gm
	Cyanogenic Compound	IS 548: Part 2:1976 RA: 2010	Qualitative
	Linseed Oil	IS 548: Part 2:1976, RA: 2010	Qualitative

**Laboratory** Enviro Care India Private Limited, No. 43, Second Street, Harvey, Madurai, Tamil Nadu

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

**Discipline** Chemical Testing **Issue Date** 19.10.2014

**Certificate Number** T-1481 **Valid Until** 09.09.2016

**Last Amended on** - **Page** 20 of 35

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
<b><u>AT LABORATORY</u></b>				
3.	Cereals & Pluses	Moisture	AOAC 19th Edn. Chapter 32 925.10	0.1-20 %
		Protein	AOAC 19th Edn. Chapter 32 920.87	0.5-30 %
		Crude Fibre	DGHS Manual 3: 2005	0.05-10 %
		Total Ash	AOAC 19th Edn. Chapter 32 923.03	0.1-10 %
		Acid Insoluble Ash	IS 4706 :Part 2:1978 RA 2005	0.01-5.0 %
		Fat	AOAC Chapter 32 19th Edn. 920.85	0.1-25 %
		Salt	AOAC 19th Edn Chapter 40 950.52	0.25-10 %
		Energy – Kcal/100g	PCAF – 9 <sup>th</sup> Edn., 1991	23-810 Kcal/100gm
		Carbohydrates	IS1656:2007 RA: 2009	By Calculation
		Foreign Matter	IS 4333:Part1:1996: RA: 2012	0.01-5.0 %
		Other Food Grains	IS 4333:Part1:1996: RA: 2012 & IS 2813:1995: RA 2010	0.01-5.0 %

<b>Laboratory</b>	<b>Enviro Care India Private Limited, No. 43, Second Street, Harvey, Madurai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>19.10.2014</b>
<b>Certificate Number</b>	<b>T-1481</b>	<b>Valid Until</b>	<b>09.09.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>21 of 35</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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**AT LABORATORY**

	<b>Cereals &amp; Pluses</b>	Extraneous Matter in Grains	IS 1797 -1985 RA: 2009	0.05-5.0 %
		Damaged Grains	IS 4333:Part1:1996: RA: 2012 & IS 2813:1995: RA 2010	0.01-5.0 %
		Discolored Grains	IS 4333:Part1:1996: RA: 2012 & IS 2813:1995: RA 2010	0.01-5.0 %
		Insect Damaged Grains	IS 4333: Part 1:1996 RA: 2012	0.01-5.0 %
		Broken Grains	IS 4333:Part1:1996: RA: 2012 & IS 2813:1995: RA 2010	0.01-5.0 %
		Alcoholic Acidity	DGHS Manual 3: 2005	0.1-6.0 %
		Starch	IS 4706: Part 2:1978 RA: 2005	0.1-80 %
		pH	IS 4706: Part 2:1978 RA: 2005	5.0 - 9.0
<b>4.</b>	<b>Spices</b>	Total Ash	AOAC 19th Edn. Chapter 43 941.12	0.1-15 %
		Peroxide Value	IS 548: Part 1:1964 RA 2010	0.1-10 mEq/kg
		Protein	AOAC 19th Edn. Chapter 43 920.173	0.1-30 %
		Sodium Chloride	AOAC 19th Edn. Chapter 43 941.13	0.1-5.0 %

<b>Laboratory</b>	<b>Enviro Care India Private Limited, No. 43, Second Street, Harvey, Madurai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>19.10.2014</b>
<b>Certificate Number</b>	<b>T-1481</b>	<b>Valid Until</b>	<b>09.09.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>22 of 35</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b><u>AT LABORATORY</u></b>				
	<b>Spices</b>	Alcoholic Extract	DGHS Manual 10: 2005	0.5-5.0 %
		Cold Water Solution Extract	DGHS Manual 10: 2005	0.1-25 %
		Acid Insoluble Ash	AOAC 19th Edn. Chapter 43 941.12	0.01-10 %
		Extraneous Matter	IS 1797 -1985 RA 2009	0.1-5.0 %
		Sulfur Dioxide	AOAC 19th Edn. Chapter 47 990.28	≥ 1 mg/kg
		Crude Fibre	DGHS Manual 10: 2005	0.1-40 %
		Starch	IS 4706: Part 2:1978 RA: 2005	0.1-70 %
		Curcumin	DGHS Manual 10: 2005	0.1-5.0 %
		Energy – Kcal/100g	PCAF – 9 <sup>th</sup> Edn., 1991	23-810 Kcal/100gm
<b>5.</b>	<b>Milk &amp; Milk Products</b>	Carbohydrates	IS 1656:2007 RA: 2009	By Calculation
		Urea	AOAC 19th Edn. Chapter 4 967.07	1-800 mg/kg
		Milk Fat	DGHS Manual 1 2005	0.1-99 %

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>19.10.2014</b>
<b>Certificate Number</b>	<b>T-1481</b>	<b>Valid Until</b>	<b>09.09.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>23 of 35</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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**AT LABORATORY**

<b>Milk &amp; Milk Products</b>	Moisture		AOAC 19th Edn. Chapter 33 927.05	0.1-95 %
	Total Ash		AOAC 19th Edn. Chapter 33 945.46	0.1-10 %
	Acid insoluble ash in HCl		DGHS Manual 1 2005	0.01-0.1 %
	Salt ( as Chloride & NaCl)		IS 1479:Part 2:1961, RA: 2009	0.1-5.0 %
	Density		AOAC 19th Edn. Chapter 33 925.22	0.5-2 g/cc
	pH value		IS 1479:Part 1:1960 RA: 2003	5-9
	Acidity (as Lactic Acid)		IS 1479 :Part 1:1960 RA: 2003	0.1-5.0 %
	Total Solids		DGHS Manual 1: 2005	5-99 %
	Milk Protein		AOAC 19th Edn. Chapter 33 991.20	0.5-40 %
	Energy – Kcal/100g		PCAF – 9 <sup>th</sup> Edn., 1991	23-810 Kcal/100gm
	Carbohydrates		IS 1656:2007 (RA 2009)	By Calculation
	Solids non Fat		AOAC 19th Edn. Chapter 33,990.21	5-50 %

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>19.10.2014</b>
<b>Certificate Number</b>	<b>T-1481</b>	<b>Valid Until</b>	<b>09.09.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>24 of 35</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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**AT LABORATORY**

	<b>Milk &amp; Milk Products</b>	Lactose	DGHS Manual 1: 2005	1.0-60 %
		Titratable acidity (as oleic acid)	DGHS Manual 1: 2005	0.001 % & above
		Curd (MSNF)	DGHS Manual 1: 2005	0.01 % & above
		Refractive Index	AOAC 19th Edn. Chapter 41 921.08	1.30-1.70
		Reichert Value	DGHS Manual 2: 2005	1-35
		Polenske Value	DGHS Manual 2: 2005	5 - 25
		Melting Point	DGHS Manual 2: 2005	30-50 °C
		Titratable Acidity (solids not fat)	IS 11766: 1986 RA: 2003	10-22 ml
		Solubility %	DGHS Manual 1: 2005	90-99 %
<b>6.</b>	<b>Fruits &amp; Vegetables</b>	Moisture	AOAC 19th Edn. Chapter 37 934.06	0.1-90.0 %
		Total Solids	AOAC 19th Edn. Chapter 37 920.151	5.0-80 %
		Total Ash	IS 3500:1966, RA 2005	0.1-10 %
		Acid Insoluble Ash	DGHS Manual 5: 2005	0.05-2.0 %

<b>Laboratory</b>	<b>Enviro Care India Private Limited, No. 43, Second Street, Harvey, Madurai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>19.10.2014</b>
<b>Certificate Number</b>	<b>T-1481</b>	<b>Valid Until</b>	<b>09.09.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>25 of 35</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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**AT LABORATORY**

	<b>Fruits &amp; Vegetables</b>	Salt	DGHS Manual 5: 2005	0.25-35 %
		Peroxide Value	IS 548: Part 1:1964 RA 2010	0.1-10 mEq/kg
		Sulfur Dioxide	AOAC19th Edn. Chapter 47 962.16	> 1 mg/kg
		pH	DGHS Manual 5:2005	2-8
		Acidity (as acetic acid)	DGHS Manual 5 : 2005	0.01-5.0 %
		Sugar (Reducing Sugars, Total Reducing Sugars, Sucrose, Added Sugar)	DGHS Manual 5: 2005	0.01-99.99 %
		Energy	PCAF – 9 <sup>th</sup> Edn., 1991	23-810 Kcal/100 gm
<b>7.</b>	<b>Salt</b>	Moisture	AOAC 19th Edn. Chapter 11, 925.55	0.01-5.0 %
		Water Insoluble Matter	AOAC 19 th Edn. Chapter 11, 925.55	0.01-1.0 %
		Iodine content	AOAC 19 th Edn. Chapter 11, 925.55	0.1-50 mg/kg

<b>Laboratory</b>	<b>Enviro Care India Private Limited, No. 43, Second Street, Harvey, Madurai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>19.10.2014</b>
<b>Certificate Number</b>	<b>T-1481</b>	<b>Valid Until</b>	<b>09.09.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>26 of 35</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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**AT LABORATORY**

<b>8. Bakery &amp; Confectionary Products</b>	Moisture		DGHS Manual 3: 2005	0.1-50 %
	Total Ash		DGHS Manual 3: 2005	0.1-10 %
	Acid Insoluble Ash		DGHS Manual 3: 2005	0.01-2.0 %
	Alcoholic Acidity (1N NaOH/100gm Product)		DGHS Manual 3: 2005	0.1-5.0 ml
	Total Solids		IS 1483: 1988, RA 2005	0.1-5.0 %
	Acidity of Extracted Fat		IS 1011: 2002, RA: 2009	0.1-3.0 %
	Protein		AOAC Chapter 19th Edn Chapter 32 923.04	1-20 %
	Crude Fibre		DGHS Manual 4: 2005	0.1-2.0 %
	Fat		DGHS Manual 4: 2005	0.1-30 %
	Sugar (Reducing Sugars, Total Reducing Sugars, Sucrose, Added Sugar)		DGHS Manual 4: 2005	0.01-99.99 %
	Starch		IS 4706: Part 2:1978 RA: 2005	0.1-80 %
	Peroxide value		IS 548: Part 1:1964 RA: 2010	0.1-10 mEq/kg

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>19.10.2014</b>
<b>Certificate Number</b>	<b>T-1481</b>	<b>Valid Until</b>	<b>09.09.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>27 of 35</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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**AT LABORATORY**

	<b>Bakery &amp; Confectionary Products</b>	Sulphur Dioxide	AOAC 19th Edn Chapter 47 990.28	> 1 mg/kg
		Energy – Kcal/100g	PCAF – 9 <sup>th</sup> Edn., 1991	23-810 Kcal/100gm
		Carbohydrates	IS 1656:2007 (RA 2009)	By Calculation
<b>9.</b>	<b>Tea &amp; Tea Products</b>	Fat	AOAC 19th Edn Chapter 30 963.15	5.0-20 %
		Energy	PCAF – 9 <sup>th</sup> Edn., 1991	23-810 Kcal/100gm
		Crude Fiber	DGHS Manual 4: 2005	0.05-20 %
		Solubility in Hot Water	DGHS Manual 4: 2005	Qualitative
		Caffeine	DGHS Manual 4: 2005	0.01-5.0 %
		Total Ash	AOAC 19th Edn Chapter 30 920.100	0.1-10 %
		Water Soluble Ash	AOAC 19th Edn Chapter 30 920.100	1-90 %
		Water Insoluble Ash	AOAC 19th Edn Chapter 30 920.100	1-90 %

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>19.10.2014</b>
<b>Certificate Number</b>	<b>T-1481</b>	<b>Valid Until</b>	<b>09.09.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>28 of 35</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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**AT LABORATORY**

	<b>Tea &amp; Tea Products</b>	Sugar (Reducing Sugars, Total Reducing Sugars, Sucrose, Added Sugar)	DGHS Manual 4: 2005	0.01-99.99 %
<b>10.</b>	<b>Pesticide Residues in Food and Food Products</b>	<b>Pesticide Residues</b>		
		Chloropyrifos	DGHS Manual of Methods of Pesticide Residues Analysis of Food Commodities	2.5 - 1000 µg/kg
		Aldrin	DGHS Manual of Methods of Pesticide Residues Analysis of Food Commodities	2.5 - 1000 µg/kg
		Dieldrin	DGHS Manual of Methods of Pesticide Residues Analysis of Food Commodities	2.5 - 1000 µg/kg
		Alpha Endosulfan	DGHS Manual of Methods of Pesticide Residues Analysis of Food Commodities	2.5 - 1000 µg/kg
		Beta endosulfan	DGHS Manual of Methods of Pesticide Residues Analysis of Food Commodities	2.5 - 1000 µg/kg
		o,p – DDD	DGHS Manual of Methods of Pesticide Residues Analysis of Food Commodities	2.5 - 1000 µg/kg

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>19.10.2014</b>
<b>Certificate Number</b>	<b>T-1481</b>	<b>Valid Until</b>	<b>09.09.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>29 of 35</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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**AT LABORATORY**

**Pesticide Residues in Food and Food Products**

p,p – DDD (4,4 DDD)	DGHS Manual of Methods of Pesticide Residues Analysis of Food Commodities	2.5 - 1000 µg/kg
o,p – DDE	DGHS Manual of Methods of Pesticide Residues Analysis of Food Commodities	2.5 - 1000 µg/kg
p,p – DDE (4,4 DDE)	DGHS Manual of Methods of Pesticide Residues Analysis of Food Commodities	2.5 - 1000 µg/kg
o,p – DDT	DGHS Manual of Methods of Pesticide Residues Analysis of Food Commodities	2.5 - 1000 µg/kg
p,p – DDT (4,4 DDT)	DGHS Manual of Methods of Pesticide Residues Analysis of Food Commodities	2.5 - 1000 µg/kg
Endosulfan sulfate	DGHS Manual of Methods of Pesticide Residues Analysis of Food Commodities	2.5 - 1000 µg/kg
Lindane	DGHS Manual of Methods of Pesticide Residues Analysis of Food Commodities	2.5 - 1000 µg/kg

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>19.10.2014</b>
<b>Certificate Number</b>	<b>T-1481</b>	<b>Valid Until</b>	<b>09.09.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>30 of 35</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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**AT LABORATORY**

**Pesticide Residues in Food and Food Products**

Alpha – HCH	DGHS Manual of Methods of Pesticide Residues Analysis of Food Commodities	2.5 - 1000 µg/kg
Beta – HCH	DGHS Manual of Methods of Pesticide Residues Analysis of Food Commodities	2.5 - 1000 µg/kg
Delta – HCH	DGHS Manual of Methods of Pesticide Residues Analysis of Food Commodities	2.5 - 1000 µg/kg
Ethion	DGHS Manual of Methods of Pesticide Residues Analysis of Food Commodities	2.5 - 1000 µg/kg
Malathion	DGHS Manual of Methods of Pesticide Residues Analysis of Food Commodities	2.5 - 1000 µg/kg
Malaaxon	DGHS Manual of Methods of Pesticide Residues Analysis of Food Commodities	2.5 - 1000 µg/kg
Methyl parathion	DGHS Manual of Methods of Pesticide Residues Analysis of Food Commodities	2.5 - 1000 µg/kg

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>19.10.2014</b>
<b>Certificate Number</b>	<b>T-1481</b>	<b>Valid Until</b>	<b>09.09.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>31 of 35</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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**AT LABORATORY**

<b>Pesticide Residues in Food and Food Products</b>	Methyl paraoxon	DGHS Manual of Methods of Pesticide Residues Analysis of Food Commodities	2.5 - 1000 µg/kg
	Monocrotophos	DGHS Manual of Methods of Pesticide Residues Analysis of Food Commodities	2.5 - 1000 µg/kg

**IV. AIR, GASES & ATMOSPHERE**

<b>1. Ambient Air Quality</b>	Respirable Particulate Matter (PM <sub>10</sub> )	IS 5182:Part 04:1999 RA 2005	2 – 10000 µg/m <sup>3</sup>
	Particulate Matter (PM 2.5)	Lab SOP No: ECI-SOP-A-21 Based on EPA 40 CFR Part 50 & CPCB Guide Line 2011	2 – 5000 µg/m <sup>3</sup>
	Sulphur Dioxide (as SO <sub>2</sub> )	IS 5182:Part 02: 2001	2 – 1000 µg/m <sup>3</sup>
	Nitrogen dioxide (as NO <sub>2</sub> )	IS 5182 :Part 06:2006	6 – 750 µg/m <sup>3</sup>
<b>2. Ambient /Indoor Air</b>	Lead (as Pb)	IS 5182:Part 22: 2004	0.1- 1000 µg/m <sup>3</sup>
	Ozone (as O <sub>3</sub> )	IS 5182:Part 09:1974	9.8 - 980 µg/m <sup>3</sup>
	Nickel (as Ni)	IS 5182:Part 22: 2004 & AAS Method	0.1- 1000 ng/m <sup>3</sup>

<b>Laboratory</b>	<b>Enviro Care India Private Limited, No. 43, Second Street, Harvey, Madurai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>19.10.2014</b>
<b>Certificate Number</b>	<b>T-1481</b>	<b>Valid Until</b>	<b>09.09.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>32 of 35</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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**AT LABORATORY**

	<b>Ambient /Indoor Air</b>	Ammonia (as NH <sub>3</sub> )	IS 11255:Part 06:1999 RA: 2003	1 – 3000 µg/m <sup>3</sup>
		Benzene (C <sub>6</sub> H <sub>6</sub> )	IS 5182:Part 11:2006	1.0 – 500 µg/m <sup>3</sup>
		Benzo-a-pyrene (BaP)	IS 5182:Part 12:2004	1.0 – 1000 ng/m <sup>3</sup>
		Arsenic (as As)	IS 5182:Part 22: 2004 & AAS-VGA Flame Method	0.1- 1000 ng/m <sup>3</sup>
		Chlorine (Cl <sub>2</sub> )	IS 5182:Part 19:1982 RA: 2003	1.0 - 100 µg/m <sup>3</sup>
<b>3.</b>	<b>Stack Emission</b>	Particulate Matter (PM)	IS 11255:Part 01:1985 RA: 2003	1 – 1000 mg/Nm <sup>3</sup>
		Sulphur Dioxide (as SO <sub>2</sub> )	IS 11255:Part 02: 1985 RA: 2003	2.5 – 200 mg/Nm <sup>3</sup>
		Oxides of Nitrogen(as NO <sub>x</sub> )	IS 11255:Part 07:2005 & IS 5182 :Part 06:2006	5.0 – 20 mg/Nm <sup>3</sup>
		Carbon Monoxide (as CO)	IS 13270:1992 RA: 2003	0.2 -22 % (v/v)
		Oxygen (as O <sub>2</sub> )	IS 13270:1992 RA: 2003	0.2 -22 % (v/v)
		Carbon Dioxide (as CO <sub>2</sub> )	IS 13270:1992 RA: 2003	0.2 -22 % (v/v)
		Temperature	IS 11255:Part 03:2008	20 – 600 <sup>0</sup> C
		Chlorine ( as Cl <sub>2</sub> )	IS 5182:Part 19:1982 RA: 2003	0.1 - 100 mg/Nm <sup>3</sup>

<b>Laboratory</b>	<b>Enviro Care India Private Limited, No. 43, Second Street, Harvey, Madurai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>19.10.2014</b>
<b>Certificate Number</b>	<b>T-1481</b>	<b>Valid Until</b>	<b>09.09.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>33 of 35</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b><u>AT LABORATORY</u></b>				
	<b>Stack Emission</b>	Ammonia (as NH <sub>3</sub> )	IS 11255:Part 06:1999 RA: 2003	0.1 - 100 mg/Nm <sup>3</sup>
		Acid Mist (as H <sub>2</sub> SO <sub>4</sub> )	ECI-SOP-A-23 (CARB METHOD 8)	1 – 100 mg/Nm <sup>3</sup>
		Chromium (as Cr)	IS 11255:Part 01:1985 RA: 2003 & USEPA Method-29	0.05 - 50 mg/Nm <sup>3</sup>
		Copper (as Cu)	IS 11255:Part 01:1985 RA: 2003 & USEPA Method-29	0.05 - 50 mg/Nm <sup>3</sup>
		Lead (as Pb)	IS 11255:Part 01:1985 RA .2003 & USEPA Method-29	0.05 - 50 mg/Nm <sup>3</sup>
		Nickel (as Ni)	IS 11255:Part 01:1985 RA .2003 & USEPA Method-29	0.05 - 50 mg/Nm <sup>3</sup>
		Zinc (as Zn)	IS 11255:Part 01:1985 RA: 2003 & USEPA Method-29	0.05 - 50 mg/Nm <sup>3</sup>
<b>V.</b>	<b>SOIL</b>	Nitrogen (as N)	IS 5194:1969 RA: 2010	0.1 – 10 %
		Total Phosphorous (P)	IS 10158:1982 RA: 2003	0.1 – 10 %
		Potassium (as K)	EPA 3050 B & 7610	0.1 – 500 mg/kg
		Iron (as Fe)	EPA 3050 B & 7380	0.1 – 500 mg/kg
		Manganese (as Mn)	EPA 3050 B & 7460	0.1 – 500 mg/kg

<b>Laboratory</b>	<b>Enviro Care India Private Limited, No. 43, Second Street, Harvey, Madurai, Tamil Nadu</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>19.10.2014</b>
<b>Certificate Number</b>	<b>T-1481</b>	<b>Valid Until</b>	<b>09.09.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>34 of 35</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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**AT LABORATORY**

Zinc (as Zn)	EPA 3050 B & 7950	0.1 – 500 mg/kg
Copper (as Cu)	EPA 3050 B & 7210	0.1 – 500 mg/kg
Calcium Carbonate (as CaCO <sub>3</sub> )	IS 2720:Part 23:1976 (RA 2006)	0.1 – 15 %
Sulphate (as SO <sub>4</sub> <sup>-2</sup> )	IS 2720 Part 27: 1977 (RA 2006)	0.1 – 10 %
Lead (as Pb)	EPA 3050 B & 7420	0.1- 500 mg/kg
Nickel (as Ni)	EPA 3050 B & 7520	0.1 -500 mg/kg

**AT SITE**

**I. AIR, GASES & ATMOSPHERE**

<b>1. Ambient Atmosphere</b>	<p>Illumination</p> <p>Relative Humidity</p> <p>Temperature</p> <p>Noise Level</p>	<p>ECI-SOP-SAM-33/ Weather Monitoring Meter(Instrument manual)</p> <p>ECI-SOP-SAM-33/ Weather Monitoring Meter(Instrument manual)</p> <p>ECI-SOP-SAM-33/ Weather Monitoring Meter(Instrument manual)</p> <p>IS 9989: 1981 (RA 2001)</p>	<p>1 – 50000 lux</p> <p>10% - 95%</p> <p>10° - 50°C</p> <p>35 – 130 dB</p>
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**Laboratory** Enviro Care India Private Limited, No. 43, Second Street, Harvey, Madurai, Tamil Nadu  
**Accreditation Standard** ISO/IEC 17025: 2005  
**Discipline** Chemical Testing **Issue Date** 19.10.2014  
**Certificate Number** T-1481 **Valid Until** 09.09.2016  
**Last Amended on** - **Page** 35 of 35

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
<b><u>AT SITE</u></b>				
	<b>Ambient Atmosphere</b>	Wind Speed	ECI-SOP-SAM-33/ Weather Monitoring Meter(Instrument manual)	0.4- 30 m/s
		Carbon Monoxide (as CO)	ECI-SOP-SAM-08/ CO Gas Detector (Instrument manual)	1.2 – 10 mg/m <sup>3</sup>

~~-X-X-X-X-X-X-X-X-X-X-X-X-~~

**NOTE:** The Laboratory has demonstrated competence for the stated scope for **WATER**. This however **does not fully cover** the specification requirements of **BIS for the Packaged Drinking Water as per IS 14543 and the Packaged Natural Mineral Water IS 13428**.