

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
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AT LABORATORY

I. WATER

1. Drinking Water	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 ⁰ 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 ⁰ 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 ₃ -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 ₂)	IS 3025 : Part 26 :1986 RA: 2003	0.2 – 10 mg/l

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Drinking Water	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 ₃)	IS 3025 : Part 34 : 1988 RA: 2003	1.0 – 100 mg/l
	Phenolic Compound (as C ₆ H ₅ 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 ₄ ⁻²)	IS 3025 : Part 24 :1986 RA: 2003	1 - 1000 mg/l
	Sulphide (as H ₂ S)	IS 3025 : Part 29 :1986 RA: 2003	0.04 – 2.0 mg/l

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Drinking Water	Total Alkalinity (as CaCO ₃)	IS 3025 : Part 23 :1986 RA: 2003	1 - 1000 mg/l
	Total Hardness (as CaCO ₃)	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 nd Edition 6630	0.01 µg/l – 0.1 mg/l
	Poly Nuclear Aromatic Hydrocarbon (PAH)	APHA 22 nd Edition 6440	0.01 µg/l – 0.1 mg/l

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2.	Drinking Water	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
	Water used for Construction Purpose	pH value @ 25 ⁰ 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 ₂ SO ₄ 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 ⁰ C	IS 3025 : Part 18 :1984 RA: 2002	1 – 10,000 mg/l
		Fixed Residue (inorganic) @ 105 ⁰ C	IS 3025 : Part 18 :1984 RA: 2002	1 – 10,000 mg/l
		Sulphates (as SO ₄ ⁻²)	IS 3025 : Part 24 :1986 RA: 2003	1 - 1000 mg/l
		Chlorides (as Cl ⁻)	IS 3025 : Part 32 :1988 RA: 2003	1 - 5000 mg/l
		Total Suspended Solids @ 105 ⁰ C	IS 3025 : Part 17 :1984 RA: 2002	1 – 1000 mg/l

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AT LABORATORY

3.	Packaged Drinking Water & Packaged Natural Mineral Water	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 ₃)	IS 3025 : Part 34 : 1988 RA: 2003	1.0 – 100 mg/l
		Nitrite Nitrogen (as NO ₂)	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

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Packaged Drinking Water & Packaged Natural Mineral Water	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 ⁻)	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 ₄ ⁻²)	IS 3025 : Part 24 :1986 RA: 2003	1 - 200 mg/l
	Alkalinity (as HCO ₃)	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 ₆ H ₅ 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 ₂ S)	IS 3025 : Part 29 :2003	0.04 – 2.0 mg/l

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Packaged Drinking Water & Packaged Natural Mineral Water	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 nd Edition 6440	0.025 µg/l – 0.1 mg/l

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4.	Water used for Swimming Pools	pH value @ 25 ⁰ C	IS 3025 : Part 11 1983 RA: 2002	1 – 14 Unit
		Total Alkalinity (as Ca CO ₃)	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 ⁰ C	IS 3025 :Part 63 :2007	0.4 - 10 mg/l
		Total Dissolved Solids @ 105 ⁰ C	IS 3025 : Part 16 :1984 RA: 2002	1 – 10,000 mg/l
		Chlorides (as Cl ⁻)	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

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5.	Water used for Processed Food Industry/ Water for Ice Manufacture & Water for Fermentation industry	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 ⁰ C	IS 3025 : Part 11 1983 RA: 2002	1 – 14 Unit
		Total Solids @ 105 ⁰ C	IS 3025 : Part 15 :1984 RA: 2003	1 – 10,000 mg/l
		Total Hardness (as CaCO ₃)	IS 3025 : Part 21 :2009	1 - 5000 mg/l
		Sulphates (as SO ₄ ⁻²)	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 ⁻)	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

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	Water used for Processed Food Industry/ Water for Ice Manufacture & Water for Fermentation industry	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 ⁶⁺)	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 ₃)	IS 3025 : Part 34 : 1988 RA: 2003	1.0 – 100 mg/l
		Phenolic Compound (as C ₆ H ₅ 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
6.	Pesticide Residues in Water	Pesticide Residues		
		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

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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

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	Pesticide Residues in Water	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
		Malaoxon	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
7.	Potable Water	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 nd Edition 2710 - D	By Calculation
		Electrical Conductivity (EC) @ 25 ^o C	IS 3025 : Part 14 :2013	1µmhos - 199 mmhos/cm

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Potable Water	Reactive Silica (as SiO ₂)	IS 3025 : Part 35 :1988 RA: 2003	0.2– 100 mg/l
	Sulphite (as SO ₃)	IS 3025 : Part 28 : 1986 RA: 2003	0.2– 100 mg/l
	Carbonate & Bicarbonate (as CaCO ₃)	IS 3025 : Part 51 : 2001	By Calculation
	Phenolphthalein Alkalinity (as CaCO ₃)	IS 3025 : Part 23 :1986 RA: 2003	0 - 1000 mg/l
	Mineral Acidity (as CaCO ₃)	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 ₃)	IS 3025:Part:21:2009	1 – 1000 mg/l
	Non-Carbonate Hardness (as CaCO ₃)	IS 3025:Part:21:2009	1 – 1000 mg/l
	Methyl Orange Alkalinity (as CaCO ₃)	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 nd Edn 5550	0.5 - 50 mg/l

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8.	Waste Water	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 nd Edition 2710 - D	By Calculation
		Electrical Conductivity (EC) @ 25 ⁰ C	IS 3025 : Part 14 :2013	1µmhos - 199 mmhos/cm
		Reactive Silica (as SiO ₂)	IS 3025 : Part 35 :1988 RA: 2003	0.2– 100 mg/l
		Sulphite (as SO ₃)	IS 3025 : Part 28 : 1986 RA: 2003	0.2– 100 mg/l
		Carbonate & Bicarbonate (as CaCO ₃)	IS 3025 : Part 51 : 2001	By Calculation
		Phenolphthalein Alkalinity (as CaCO ₃)	IS 3025 : Part 23 :1986 RA: 2003	0 - 1000 mg/l
		Mineral Acidity (as CaCO ₃)	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 ₃)	IS 3025:Part:21:2009	1 – 1000 mg/l
		Non-Carbonate Hardness (as CaCO ₃)	IS 3025:Part:21:2009	1 – 1000 mg/l

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Waste Water	Methyl Orange Alkalinity (as CaCO ₃)	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 nd Edn 5550	0.5 - 50 mg/l

II. POLLUTION AND ENVIRONMENT

1. Raw/Treated Effluent, Sewage Water as per TNPCB	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 ⁰ C	IS 3025 : Part 17 :1984 RA: 2002	1 – 1000 mg/l
	Total Dissolved Solids (Inorganic) @ 105 ⁰ C	IS 3025 : Part 16 :1984 RA: 2002	1 – 10,000 mg/l
	pH value @ 25 ⁰ 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 nd 4500 NH ₃ C	1 – 1000 mg/l

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Raw/Treated Effluent, Sewage Water as per TNPCB	Total Kjeldahl Nitrogen (as N)	APHA 22 nd 4500 Norg C	1 – 1000 mg/l
	Free Ammonia (as NH ₃)	APHA 22 nd 4500 NH ₃ 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 ⁶⁺)	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

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Raw/Treated Effluent, Sewage Water as per TNPCB	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 ⁻)	IS 3025 : Part 32 :1988 RA: 2003	1 – 10000 mg/l
	Fluoride (as F)	APHA 22 nd Edi 4500 F - D	0.1 – 2 mg/l
	Phosphates (as PO ₄)	APHA 22 nd Edition 4500 P-D	0.1 – 10 mg/l
	Sulphates (as SO ₄ ⁻²)	IS 3025 : Part 24 :1986 RA: 2003	1 - 5000 mg/l
	Sulphide (as H ₂ S)	APHA 22 nd Edi 4500 – S ²⁻ .F	0.04 – 2.0 mg/l
	Phenolic Compound (as C ₆ H ₅ OH)	IS 3025 :Part 43:1992 RA: 2003	0.01 - 5.0 mg/l

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III. FOOD & AGRICULTURAL PRODUCTS

1. Sugar & Sugar Products	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 %
2. Oil & Fat Products	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

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Oil & Fat Products	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 th 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

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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 th 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 %

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4.	Cereals & Pluses	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
	Spices	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 %

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	Spices	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 th Edn., 1991	23-810 Kcal/100gm
		Carbohydrates	IS 1656:2007 RA: 2009	By Calculation
5.	Milk & Milk Products	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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Milk & Milk Products	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 th 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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	Milk & Milk Products	Lactose	DGHS Manual 1: 2005	1.0-60 %
		Titrateable 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
		Titrateable Acidity (solids not fat)	IS 11766: 1986 RA: 2003	10-22 ml
		Solubility %	DGHS Manual 1: 2005	90-99 %
		Moisture	AOAC 19th Edn. Chapter 37 934.06	0.1-90.0 %
6.	Fruits & Vegetables	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 %

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	Fruits & Vegetables	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 th Edn., 1991	23-810 Kcal/100 gm
7.	Salt	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

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8.	Bakery & Confectionary Products	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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	Bakery & Confectionary Products	Sulphur Dioxide	AOAC 19th Edn Chapter 47 990.28	> 1 mg/kg
		Energy – Kcal/100g	PCAF – 9 th Edn., 1991	23-810 Kcal/100gm
		Carbohydrates	IS 1656:2007 (RA 2009)	By Calculation
9.	Tea & Tea Products	Fat	AOAC 19th Edn Chapter 30 963.15	5.0-20 %
		Energy	PCAF – 9 th 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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	Tea & Tea Products	Sugar (Reducing Sugars, Total Reducing Sugars, Sucrose, Added Sugar)	DGHS Manual 4: 2005	0.01-99.99 %
10.	Pesticide Residues in Food and Food Products	Pesticide Residues		
		Chlorpyrifos	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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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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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
	Malaoxon	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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Pesticide Residues in Food and Food Products	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

1. Ambient Air Quality	Respirable Particulate Matter (PM ₁₀)	IS 5182:Part 04:1999 RA 2005	2 – 10000 µg/m ³
	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 ³
	Sulphur Dioxide (as SO ₂)	IS 5182:Part 02: 2001	2 – 1000 µg/m ³
	Nitrogen dioxide (as NO ₂)	IS 5182 :Part 06:2006	6 – 750 µg/m ³
2. Ambient /Indoor Air	Lead (as Pb)	IS 5182:Part 22: 2004	0.1- 1000 µg/m ³
	Ozone (as O ₃)	IS 5182:Part 09:1974	9.8 - 980 µg/m ³
	Nickel (as Ni)	IS 5182:Part 22: 2004 & AAS Method	0.1- 1000 µg/m ³

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

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Discipline	Chemical Testing	Issue Date	19.10.2014
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S.No.	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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AT LABORATORY

Stack Emission	Ammonia (as NH ₃)	IS 11255:Part 06:1999 RA: 2003	0.1 - 100 mg/Nm ³
	Acid Mist (as H ₂ SO ₄)	ECI-SOP-A-23 (CARB METHOD 8)	1 – 100 mg/Nm ³
	Chromium (as Cr)	IS 11255:Part 01:1985 RA: 2003 & USEPA Method-29	0.05 - 50 mg/Nm ³
	Copper (as Cu)	IS 11255:Part 01:1985 RA: 2003 & USEPA Method-29	0.05 - 50 mg/Nm ³
	Lead (as Pb)	IS 11255:Part 01:1985 RA .2003 & USEPA Method-29	0.05 - 50 mg/Nm ³
	Nickel (as Ni)	IS 11255:Part 01:1985 RA .2003 & USEPA Method-29	0.05 - 50 mg/Nm ³
	Zinc (as Zn)	IS 11255:Part 01:1985 RA: 2003 & USEPA Method-29	0.05 - 50 mg/Nm ³
V. SOIL	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

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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 ₃)	IS 2720:Part 23:1976 (RA 2006)	0.1 – 15 %
Sulphate (as SO ₄ ⁻²)	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

1. Ambient Atmosphere	Illumination	ECI-SOP-SAM-33/ Weather Monitoring Meter(Instrument manual)	1 – 50000 lux
	Relative Humidity	ECI-SOP-SAM-33/ Weather Monitoring Meter(Instrument manual)	10% - 95%
	Temperature	ECI-SOP-SAM-33/ Weather Monitoring Meter(Instrument manual)	10° - 50°C
	Noise Level	IS 9989: 1981 (RA 2001)	35 – 130 dB

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<u>AT SITE</u>				
	Ambient Atmosphere	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 ³

-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**.