

Laboratory	Aqua Designs India Private Limited, Laboratory Services Division, 200 Feet Road, Kolathur, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Biological Testing	Issue Date	21.07.2014
Certificate Number	T-2235	Valid Until	03.07.2016
Last Amended on	-	Page	1 of 15

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I. FOOD & AGRICULTURAL PRODUCTS				
1	Milk and Dairy Products (Raw and processed)	Total Plate count	IS 5402:2012 USFDA: BAM, Chapter 3 -8 th Edn. AOAC: 986.33 & AOAC: 989.10 – 19 th Edn.	≤10 cfu/g ≤10 cfu/ml ≤10 cfu/g ≤10 cfu/ml ≤10 cfu/g ≤10 cfu/ml
		Coliforms		
		a.Enumeration method	IS 5401: (Pt 1):2002 RA 2007 USFDA-BAM, Chapter 4-8 th Edn. AOAC: 986.33 & AOAC: 989.10– 19 th Edn.	≤10 cfu/g ≤10 cfu/ml ≤10 cfu/g ≤10 cfu/ml ≤10 cfu/g ≤10 cfu/ml
		b.MPN method	IS 5401: (Pt 2):2012 USFDA-BAM, Chapter 4-8 th Edn.	< 0.3 to >110 MPN/g/ml < 3 to >1100 MPN/g/ml
		Escherichia coli		
		a.Enumeration method	IS 5887(Pt 1):1976, RA 2009 USFDA-BAM, Chapter 4-8 th Edn.	≤10 cfu/g ≤10 cfu/ml ≤10 cfu/g ≤10 cfu/ml
		b.MPN method	IS 5887(Pt 1):1976,RA2009 USFDA-BAM, Chapter 4-8 th Edn.	< 0.3 to >100 MPN/g < 0.3 to > 100 MPN/ml < 3 to >1100 MPN/g & <3 to > 1100 MPN/ml

Laboratory Aqua Designs India Private Limited, Laboratory Services Division,
200 Feet Road, Kolathur, Chennai, Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Discipline Biological Testing **Issue Date** 21.07.2014

Certificate Number T-2235 **Valid Until** 03.07.2016

Last Amended on - **Page** 2 of 15

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Salmonella Sp.	IS 5887(Pt 3):1999, RA 2009 USFDA-BAM Chapter 5-8 th Edn.	Present/Absent/25g Present/Absent/25ml Present/Absent/25g Present/Absent/25ml
		Shigella Sp.	IS 5887(Pt 7):1999, RA 2009 USFDA-BAM Chapter 6-8 th Edn.	Present/Absent/25g Present/Absent/25ml Present/Absent/25g Present/Absent/25ml
		Staphylococcus aureus	IS 5887(Pt 2)1976, RA 2009 IS 5887(Pt 8):Sec.1:2002, RA 2007 USFDA-BAM, Chapter 12-8 th Edn.	≤10 cfu/g & ≤10cfu/ml ≤10 cfu/g ≤10 cfu/ml ≤10 cfu/g ≤10 cfu/ml
		Yeast & Moulds	IS 5403:1999, RA2009 USFDA-BAM, Chapter 18-8 th Edn.	≤10 cfu/g ≤10 cfu/ml ≤10 cfu/g ≤10 cfu/ml
		Anaerobic spore count	APHA Compendium: 2001 Chapter 6 clause 6.7 - 4 th Edn.	≤10 cfu/g ≤10 cfu/ml

Laboratory	Aqua Designs India Private Limited, Laboratory Services Division, 200 Feet Road, Kolathur, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Biological Testing	Issue Date	21.07.2014
Certificate Number	T-2235	Valid Until	03.07.2016
Last Amended on	-	Page	3 of 15

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
2.	Non alcoholic and alcoholic Beverages (Soft drinks, Carbonated beverages, Beer, Rum)	Total Plate count	IS 5402:2012 USFDA: BAM, Chapter 3-8 th Edn. AOAC:Method-990.12	≤10 cfu/ml ≤10 cfu/ml ≤10 cfu/ml
		Coliforms		
		a. Enumeration method	IS 5401: (Pt 1):2002 RA 2007 USFDA-BAM, Chapter 4-8 th Edn. AOAC: Method-991.14– 19 th Edn.	≤10 cfu/ml ≤10 cfu/ml ≤10 cfu/ml
		b.MPN method	IS 5401: (Pt 2):2012 USFDA-BAM, Chapter 4-8 th Edn.	< 0.3 to >110 MPN/ml < 3 to >1100 MPN/ml
		Yeast & Moulds	IS 5403:1999, RA 2009 USFDA-BAM, Chapter 18-8 th Edn. AOAC: Method-997.02– 19 th Edn.	≤10 cfu/ml ≤10 cfu/ml ≤10 cfu/ml
3.	Spices and Spice Products and Condiments	Total Plate count	IS 5402:2012 USFDA: BAM, Chapter 3-8 th Edn. AOAC: Method-990.12-19 th Edn.	≤10 cfu/g ≤10 cfu/g ≤10 cfu/g
		Coliforms		
		a. Enumeration method	IS 5401: (Pt 1):2002 RA 2007 USFDA-BAM, Chapter 4-8 th Edn. AOAC: Method-991.14– 19 th Edn.	≤10 cfu/g ≤10 cfu/g ≤10 cfu/g

Laboratory Aqua Designs India Private Limited, Laboratory Services Division,
200 Feet Road, Kolathur, Chennai, Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Discipline Biological Testing **Issue Date** 21.07.2014

Certificate Number T-2235 **Valid Until** 03.07.2016

Last Amended on - **Page** 4 of 15

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		b. MPN method	IS 5401: (Pt 2):2012 USFDA-BAM, Chapter 4-8 th Edn.	< 0.3 to >110 MPN/g < 3 to >1100 MPN/g
		Escherichia coli a: Enumeration method	IS 5887(Pt 1):1976,R.2009 USFDA-BAM, Chapter 4 AOAC: Method-991.14- 19 th Edn.	≤10 cfu/g ≤10 cfu/g
		b: MPN method	IS 5887(Pt 1):1976,R.2009 USFDA-BAM, Chapter 4-8 th Edn.	< 0.3 to >110 MPN/g < 3 to >1100 MPN/g
		Mould count	DGHS Manual-3,2005	Present / Absent /g
		Faecal Coliforms	USFDA (BAM)-Chapter-4.2002- 8 th Edn.	< 3 to >1100 MPN/g
		Salmonella Sp.	IS 5887(Pt 3):1999, RA 2009 USFDA-BAM Chapter 5-8 th Edn	Present/Absent/25g Present/Absent/25g
		Shigella Sp.	IS 5887(Pt 7):1999, RA 2009 USFDA-BAM Chapter 6-8 th Edn.	Present/Absent/25g Present/Absent/25g
		Staphylococcus aureus	IS 5887(Pt 2)1976, RA 2009 IS 5887(Pt 8):Sec.1:2002, RA 2007 USFDA-BAM, Chapter 12-8 th Edn.	≤10 cfu/g ≤10 cfu/g ≤10 cfu/g

Laboratory	Aqua Designs India Private Limited, Laboratory Services Division, 200 Feet Road, Kolathur, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Biological Testing	Issue Date	21.07.2014
Certificate Number	T-2235	Valid Until	03.07.2016
Last Amended on	-	Page	5 of 15

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Bacillus cereus: a: MPN method	USFDA BAM-Chapter-14 -2001- 8 th Edn.	< 3 to >1100 MPN/g
		b: Enumeration method	IS 5887 Part 6:2012 USFDA BAM-Chapter-14 -2001- 8 th Edn.	≤10 cfu/g ≤100 cfu/g
		Yeast & Moulds	IS 5403:1999, R.2009 USFDA-BAM, Chapter -8 th Edn.18 AOAC:Method-997.02 -19 th Edn.	≤10 cfu/g ≤10 cfu/g
4.	Cereals, Pulses and Products	Total Plate count	IS 5402:2012 USFDA: BAM, Chapter 3 – 8 th Edn. AOAC:Method – 990.12-19 th Edn.	≤10 cfu/g ≤10 cfu/g ≤10 cfu/g
		Coliforms a: Enumeration method	IS 5401: (Pt 1):2002 RA.2007 USFDA-BAM, Chapter 4-8 th Edn. AOAC: Method-991.14– 19 th Edn.	≤10 cfu/g ≤10 cfu/g ≤10 cfu/g
		b: MPN method	IS 5401: (Pt 2):2012 USFDA-BAM, Chapter 4-8 th Edn.	< 0.3 to >110 MPN/g < 3 to >1100 MPN/g
		Escherichia coli a: Enumeration method	IS 5887(Pt 1):1976, RA.2009 USFDA-BAM, Chapter 4 AOAC: Method-991.14– 19 th Edn.	≤10 cfu/g ≤10 cfu/g ≤10 cfu/g

Laboratory Aqua Designs India Private Limited, Laboratory Services Division,
200 Feet Road, Kolathur, Chennai, Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Discipline Biological Testing **Issue Date** 21.07.2014

Certificate Number T-2235 **Valid Until** 03.07.2016

Last Amended on - **Page** 6 of 15

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		b: MPN method	IS 5887(Pt 1):1976, RA.2009 USFDA-BAM, Chapter 4-8 th Edn.	< 0.3 to >110 MPN/g < 3 to >1100 MPN/g
		Salmonella Sp.	IS 5887(Pt 3):1999, RA.2009 USFDA-BAM Chapter 5-8 th Edn.	Present/Absent/25g Present/Absent/25g
		Shigella Sp.	IS 5887(Pt 7):1999, RA.2009 USFDA-BAM Chapter 6-8 th Edn.	Present/Absent/25g Present/Absent/25g
		Staphylococcus aureus	IS 5887(Pt 2)1976, RA.2009 IS 5887(Pt 8):Sec.1:2002, R.2007 USFDA-BAM, Chapter 12-8 th Edn.	≤10 cfu/g ≤10 cfu/g ≤10 cfu/g
		Yeast & Moulds	IS 5403:1999, RA.2009 USFDA-BAM, Chapter 18 -8 th Edn. AOAC: Method-997.02 – 19 th Edn.	≤10 cfu/g ≤10 cfu/g ≤10 cfu/g
		Mould count	DGHS Manual-3,2005	Present/Absent/gm
		Bacillus cereus: a: MPN method	USFDA BAM-Chapter-14 -2001- 8 th Edn.	< 3 to >1100 MPN/g
		b: Enumeration method	IS 5887 Part 6:2012 USFDA BAM-Chapter-14 -2001- 8 th Edn.	≤10 cfu/g ≤100 cfu/g

Laboratory	Aqua Designs India Private Limited, Laboratory Services Division, 200 Feet Road, Kolathur, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Biological Testing	Issue Date	21.07.2014
Certificate Number	T-2235	Valid Until	03.07.2016
Last Amended on	-	Page	7 of 15

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
5.	Fruits and Vegetables Products (Fresh /Raw /Frozen/Canned & Processed)	Total Plate count	IS 5402:2012 USFDA: BAM, Chapter 3-8 th Edn. AOAC:Method-990. 12– 19 th Edn.	≤10 cfu/g ≤10 cfu/g ≤10 cfu/g
		Coliforms		
		a: Enumeration method	IS 5401: (Pt 1):2002 RA.2007 USFDA-BAM, Chapter 4-8 th Edn. AOAC: Method-991.14– 19 th Edn.	≤10 cfu/g ≤10 cfu/g ≤10 cfu/g
		b: MPN method	IS 5401: (Pt 2):2012 USFDA-BAM, Chapter 4-8 th Edn.	< 0.3 to >110 MPN/g < 3 to >1100 MPN/g
		Escherichia coli		
		a: Enumeration method	IS 5887(Pt 1):1976, RA.2009 USFDA-BAM, Chapter 4-8 th Edn. AOAC: Method-991. 14– 19 th Edn.	≤10 cfu/g ≤10 cfu/g ≤10 cfu/g
		b: MPN method	IS 5887(Pt 1):1976, RA.2009 USFDA-BAM, Chapter 4-8 th Edn.	< 0.3 to >110 MPN/g < 3 to >1100 MPN/g
		Faecal Coliforms	USFDA (BAM)-Chapter-4. 2002-8 th Edn.	< 3 to >1100 MPN/g
		Salmonella Sp.	IS 5887(Pt 3):1999, R.2009 USFDA-BAM Chapter 5-8 th Edn.	Present/Absent/25g Present/Absent/25g

Laboratory Aqua Designs India Private Limited, Laboratory Services Division,
200 Feet Road, Kolathur, Chennai, Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Discipline Biological Testing **Issue Date** 21.07.2014

Certificate Number T-2235 **Valid Until** 03.07.2016

Last Amended on - **Page** 8 of 15

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		Shigella Sp.	IS 5887(Pt 7):1999, RA.2009 USFDA-BAM Chapter 6-8 th Edn.	Present/Absent/25g Present/Absent/25g
		Staphylococcus aureus	IS 5887(Pt 2)1976, RA.2009 IS 5887(Pt 8):Sec.1:2002, RA.2007 USFDA-BAM, Chapter 12-8 th Edn.	≤10 cfu/g ≤10 cfu/g ≤10 cfu/g
		Vibrio parahaemolyticus	IS 5887 Part 5:1976, RA.2009 USFDA BAM-Chapter 9. 2004-8 th Edn.	Present/Absent/25g Present/Absent/25g
		Vibrio Cholerae	IS 5887 Part 5:1976, RA.2009 USFDA BAM-Chapter 9. 2004-8 th Edn.	Present/Absent/25g Present/Absent/25g
		Bacillus cereus: a.MPN Method	USFDA BAM-Chapter-14 -2001-8 th Edn.	< 3 to >1100 MPN/g
		b: Enumeration method	IS 5887 Part 6:2012 USFDA BAM-Chapter-14 -2001-8 th Edn.	≤10 cfu/g ≤100 cfu/g
		Yeast & Moulds	IS 5403:1999, RA.2009 USFDA-BAM, Chapter 18 -8 th Edn. AOAC: Method-997.02-19 th Edn.	≤10 cfu/g ≤10 cfu/g ≤10 cfu/g
		Mould count	DGHS Manual-3,2005	Present/Absent/gm

Laboratory	Aqua Designs India Private Limited, Laboratory Services Division, 200 Feet Road, Kolathur, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Biological Testing	Issue Date	21.07.2014
Certificate Number	T-2235	Valid Until	03.07.2016
Last Amended on	-	Page	9 of 15

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
6.	Meat & Meat Products, Fish & Fishery products, Poultry, Egg and Poultry Products (Raw, Cooked, Frozen, dried & Ready to eat food)	Total Plate count	IS 5402:2012 USFDA: BAM, Chapter 3-8 th Edn. AOAC: Method-990.12– 19 th Edn.	≤10 cfu/g ≤10 cfu/g ≤10 cfu/g
		Coliforms		
		a: Enumeration method	IS 5401: (Pt 1):2002 RA.2007 USFDA-BAM, Chapter 4-8 th Edn. AOAC: Method-998.08– 19 th Edn.	≤10 cfu/g ≤10 cfu/g ≤10 cfu/g
		b: MPN method	IS 5401: (Pt 2):2012 USFDA-BAM, Chapter 4-8 th Edn.	< 0.3 to >110 MPN/g < 3 to >1100 MPN/g
		Escherichia coli		
		a: Enumeration method	IS 5887(Pt 1):1976, RA.2009 USFDA-BAM, Chapter 4-8 th Edn. AOAC:Method-998.08– 19 th Edn.	≤10 cfu/g ≤10 cfu/g ≤10 cfu/g
		b: MPN method	IS 5887(Pt 1):1976, RA.2009 USFDA-BAM, Chapter 4-8 th Edn.	< 0.3 to >110 MPN/g < 3 to >1100 MPN/g
		Faecal coliforms	USFDA(BAM)-Chapter-4.2002-8 th Edn.	< 3 to >1100 MPN/g
		Salmonella Sp.	IS 5887(Pt 3):1999, RA.2009 USFDA-BAM Chapter 5-8 th Edn.	Present/Absent/25g Present/Absent/25g

Laboratory Aqua Designs India Private Limited, Laboratory Services Division,
200 Feet Road, Kolathur, Chennai, Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Discipline Biological Testing **Issue Date** 21.07.2014

Certificate Number T-2235 **Valid Until** 03.07.2016

Last Amended on - **Page** 10 of 15

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Shigella Sp.	IS 5887(Pt 7):1999, RA.2009 USFDA-BAM Chapter 6-8 th Edn.	Present/Absent/25g Present/Absent/25g
		Staphylococcus aureus	IS 5887(Pt 2)1976, RA.2009 IS 5887(Pt 8):Sec.1:2002, R.2007 USFDA-BAM, Chapter 12-8 th Edn.	≤10 cfu/g ≤10 cfu/g ≤10 cfu/g
		Vibrio parahaemolyticus	IS 5887 Part 5:1976, RA.2009 USFDA BAM-Chapter 9. 2004-8 th Edn.	Present/Absent/25g Present/Absent/25g
		Vibrio cholerae	IS 5887 Part 5:1976, RA.2009 USFDA BAM-Chapter 9. 2004-8 th Edn.	Present/Absent/25g Present/Absent/25g
		Bacillus cereus: a: MPN method	USFDA BAM-Chapter-14 -2001-8 th Edn.	< 3 to >1100 MPN/g
		b: Enumeration method	IS 5887 Part 6:2012 USFDA BAM-Chapter-14 -2001-8 th Edn.	≤10 cfu/g ≤100 cfu/g
		Yeast & Moulds	IS 5403:1999, RA.2009 USFDA-BAM, Chapter 18-8 th Edn. AOAC: Method-997.02– 19 th Edn.	≤10 cfu/g ≤10 cfu/g ≤10 cfu/g

Laboratory	Aqua Designs India Private Limited, Laboratory Services Division, 200 Feet Road, Kolathur, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Biological Testing	Issue Date	21.07.2014
Certificate Number	T-2235	Valid Until	03.07.2016
Last Amended on	-	Page	11 of 15

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Clostridium perfringens	USFDA-BAM, Chapter-16-8 th Edn. IS 5887 Part 4:1999, RA..2009	≤10 cfu/g ≤10 cfu/g
II.	WATER			
1.	Drinking Water	Total Coliforms	IS 1622:1981, RA.2009	< 2 to >1600 MPN/100 ml
		Faecal Coliforms	IS 1622:1981, RA.2009	< 2 to >1600 MPN/100 ml
		E.coli	IS 1622:1981, RA.2009	< 2 to >1600 MPN/100 ml
2.	Water for Swimming Pool	Standard Plate Count	Annex A of IS 3328:1993, RA.2003	≤1 cfu/ml
		Coliforms	IS 1622:1981, RA.2009	< 2 to >1600 MPN/100 ml
3.	Water for Processed food Industry	Standard Plate Count	IS 1622:1981, RA.2009	≤1cfu/ml
		Total Coliforms	IS 1622:1981, RA.2009	< 2 to 1600 MPN/100 ml
		Proteolytic and Lipolytic Count	IS 4251:1967, RA.2009	≤1cfu/ml
		Thermophillic bacteria	IS 4251:1967, RA.2009	≤1cfu/ml

Laboratory	Aqua Designs India Private Limited, Laboratory Services Division, 200 Feet Road, Kolathur, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Biological Testing	Issue Date	21.07.2014
Certificate Number	T-2235	Valid Until	03.07.2016
Last Amended on	-	Page	12 of 15

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
4.	Raw water/ Borewell water/ Treated water/ De-mineralized water	Total Plate Count/ Heterotrophic plate count	IS 1622:1981, RA.2009 or APHA 22 nd Edition 9215 B	≤1cfu/ml
		Total Coliforms	IS: 1622:1981, RA.2009 or APHA 22 nd Edition 2005, 9221 B	< 2 to 1600 MPN/100 ml < 1.8 to >1600 MPN/100 ml
		Faecal Coliforms	APHA 22 nd Edition, 9221 E or IS:1622:1981, RA.2009	< 1.8 to >1600 MPN/100 ml < 2 to 1600 MPN/100 ml
		E.coli	IS: 1622:1981, RA.2003 or APHA 22 nd Edition, 9221 F	< 2 to 1600 MPN/100 ml < 1.8 to >1600 MPN/100 ml
		Faecal Streptococci	IS: 1622:1981, RA.2009 APHA 22 nd Edition 9230-B	< 2 to 1600 MPN/100 ml Present/Absent / 10 0ml
5.	Waste water/Raw and Treated effluent/Raw and Treated Sewage	Total plate count	APHA 22 nd Edition -9215 B	≤1cfu/ml
		Total Coliforms	APHA 22 nd Edition - 9221-B	< 1.8 to >1600 MPN/100 ml
		Faecal Coliforms	APHA 22 nd Edition 9221-E	< 1.8 to >1600 MPN/100 ml

Laboratory	Aqua Designs India Private Limited, Laboratory Services Division, 200 Feet Road, Kolathur, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Biological Testing	Issue Date	21.07.2014
Certificate Number	T-2235	Valid Until	03.07.2016
Last Amended on	-	Page	13 of 15

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		E.coli	APHA 22 nd Edition -9221-F	< 1.8 to >1600 MPN/100 ml
		Faecal streptococci	APHA 22 nd Edition -9230-B	Present/Absent/100ml
6.	Packaged Drinking Water (Other than Packaged Mineral Water), Packaged Natural Mineral Water)	Total viable colony count @ 37°C for 24 hrs.	IS 5402:2012	≤1cfu/ml
		Total viable colony count at 22°C for 72 hrs.	IS 5402:2012	≤1cfu/ml
		Coliforms	IS 15185:2002, RA.2009	Present/Absent/250 ml
		E.coli	IS 15185:2002, RA.2009	Present/Absent/250 ml
		Faecal Streptococci	IS 15186:2002, RA.2009	Present/Absent/250 ml
		Pseudomonas aeruginosa	IS 13428:Annex D 2005, R.2009	Present/Absent/250 ml
		Sulphite reducing anaerobes	IS 13428:Annex C 2005, R.2009	Present/Absent/50 ml
		Yeast and Mould	IS 5403:1999, RA.2009	Present/Absent/250 ml
		Staphylococcus aureus	IS 5887 Part 2-1976, RA.2009	Present/Absent/250 ml
		Shigella Sp	IS 5887 Part 7-1999, RA.2009	Present/Absent/250 ml
		Salmonella Sp.	IS 15187:2002, RA.2009	Present/Absent/250 ml
		Vibrio Cholerae	IS 5887 Part 5-1976, RA.2009	Present/Absent/250 ml
		Vibrio parahaemolyticus	IS 5887 Part 5-1976, RA.2009	Present/Absent/250 ml

Laboratory	Aqua Designs India Private Limited, Laboratory Services Division, 200 Feet Road, Kolathur, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Biological Testing	Issue Date	21.07.2014
Certificate Number	T-2235	Valid Until	03.07.2016
Last Amended on	-	Page	14 of 15

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
III. POLLUTION AND ENVIRONMENT				
1.	Personnel swab and Surface swab	Total Plate Count	Compendium of methods for the microbiological examination of foods (APHA) 4 th Edition, 2001, Chapter –Swab method	≤10 cfu /Swab/Cm ²
		Yeast & Mould	Compendium of methods for the microbiological examination of foods (APHA) 4 th Edition, 2001, Chapter –Swab method	≤10 cfu /Swab/Cm ²
		Coliforms	Compendium of methods for the microbiological examination of foods (APHA) 4 th Edition, 2001, Chapter –Swab method	≤10 cfu /Swab/Cm ²
2.	In house air	Total Plate Count	Compendium of methods for the microbiological examination of foods (APHA) 4 th Edition, 2001, Chapter 3-Air sampler method	1cfu /100L/min
		Yeast & Mould	Compendium of methods for the microbiological examination of foods (APHA) 4 th Edition, 2001, Chapter 3-Air sampler method	1cfu /100L/min
		Total Coliforms	Compendium of methods for the microbiological examination of foods (APHA) 4 th Edition, 2001, Chapter 3-Air sampler method	1cfu /100L/min

Laboratory Aqua Designs India Private Limited, Laboratory Services Division,
200 Feet Road, Kolathur, Chennai, Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Discipline Biological Testing **Issue Date** 21.07.2014

Certificate Number T-2235 **Valid Until** 03.07.2016

Last Amended on - **Page** 15 of 15

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
III. DRUGS & PHARMACEUTICALS				
1.	Herbal Products (Henna, Shikakhai Powder)	Aerobic plate count	IS 5402:2012	≤10 cfu/g
		Coliform Count	IS 5401: (Pt 1):2002 RA.2007	≤10 cfu/g
		Yeast & Moulds	IS 5403:1999, R.2009	≤10 cfu/g
		Escherichia coli	IS 5887(Pt 1):1976,RA.2009	≤10 cfu/g
		Salmonella Sp.	IS 5887(Pt 3):1999, RA.2009	Present/Absent/25g
		Mould count	DGHS Manual-3,2005	Present/Absent/gm

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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**.