

<b>Laboratory</b>	<b>Ganesh Consultancy &amp; Analytical Services, 294/A, Hebbal Industrial Area, Mysore, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Biological Testing</b>	<b>Issue Date</b>	<b>16.06.2016</b>
<b>Certificate Number</b>	<b>T-1686</b>	<b>Valid Until</b>	<b>15.06.2018</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>1 of 13</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>I.</b>	<b>WATER</b>			
<b>1.</b>	<b>Drinking Water</b>	Standard plate count	IS 1622: 1981 (RA 2003)	≥1 cfu/ml
		Yeast & Mold Count	IS 5403: 1999 (RA 2005)	≥1 cfu/ml
		Coliform	IS 1622: 1981 (RA 2003)	(< 1 MPN to 161 MPN) /100 ml
		Faecal Coliform	IS 1622: 1981 (RA 2003)	(< 1 MPN to 161 MPN) /100 ml
		Escherichia coli	IS 1622: 1981 (RA 2003)	(< 1 MPN to 161 MPN) /100 ml
		Staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Absent/Present)/25 ml
		Salmonella	IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Absent/Present)/25 ml
		Pseudomonas aeruginosa	IS 13428: 2005 (RA 2009) Annexure D	Qualitative (Absent/Present)/25 ml
<b>2.</b>	<b>Ground Water/ Surface Water</b>	Standard plate count	IS 1622: 1981 (RA 2003)	≥1 cfu/ml
		Yeast & Mold Count	IS 5403: 1999 (RA 2005)	≥1 cfu/ml
		Coliform	IS 1622: 1981 (RA 2003)	(< 1 MPN to 161 MPN) /100 ml
		Faecal Coliform	IS 1622: 1981 (RA 2003)	(< 1 MPN to 161 MPN) /100 ml

<b>Laboratory</b>	<b>Ganesh Consultancy &amp; Analytical Services, 294/A, Hebbal Industrial Area, Mysore, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Biological Testing</b>	<b>Issue Date</b>	<b>16.06.2016</b>
<b>Certificate Number</b>	<b>T-1686</b>	<b>Valid Until</b>	<b>15.06.2018</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>2 of 13</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>Ground Water/ Surface Water</b>	Escherichia coli	IS 1622: 1981 (RA 2003)	(< 1 MPN to 161 MPN) /100 ml
		Staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Absent/Present)/25 ml
		Salmonella	IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Absent/Present)/25 ml
		Pseudomonas aeruginosa	IS 13428: 2005 (RA 2009) Annexure D	Qualitative (Absent/Present)/25 ml
<b>3.</b>	<b>Water for Swimming Pools and Spas</b>	Standard plate count	IS 1622: 1981 (RA 2003)	≥1 cfu/ml
		Yeast & Mold Count	IS 5403: 1999 (RA 2005)	≥1 cfu/ml
		Coliform	IS 1622: 1981 (RA 2003)	(< 1 MPN to 161 MPN) /100 ml
		Faecal Coliform	IS 1622: 1981 (RA 2003)	(< 1 MPN to 161 MPN) /100 ml
		Escherichia coli	IS 1622: 1981 (RA 2003)	(< 1 MPN to 161 MPN) /100 ml
		Staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Absent/Present)/25 ml
		Salmonella	IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Absent/Present)/25 ml
		Pseudomonas aeruginosa	IS 13428: 2005 (RA 2009) Annexure D	Qualitative (Absent/Present)/25 ml

<b>Laboratory</b>	<b>Ganesh Consultancy &amp; Analytical Services, 294/A, Hebbal Industrial Area, Mysore, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Biological Testing</b>	<b>Issue Date</b>	<b>16.06.2016</b>
<b>Certificate Number</b>	<b>T-1686</b>	<b>Valid Until</b>	<b>15.06.2018</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>3 of 13</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>4.</b>	<b>Effluent/Waste Water</b>	Standard plate count	IS 1622: 1981 (RA 2003)	≥1 cfu/ml
		Coliform	IS 1622: 1981 (RA 2003)	(< 1 MPN to 161 MPN) /100 ml
		Faecal Coliform	IS 1622: 1981 (RA 2003)	(< 1 MPN to 161 MPN) /100 ml
		Escherichia coli	IS 1622: 1981 (RA 2003)	(< 1 MPN to 161 MPN) /100 ml
<b>5.</b>	<b>Packaged Drinking Water</b>	Total viable colony count @ 37 °C for 24 hrs	IS 5402: 2012	≥1 cfu/ml
		Total viable colony count @ 22°C for 72 hrs	IS 5402: 2012	≥1 cfu/ml
		Coliforms	IS 15185: 2002 or IS 5401: 2002	Qualitative (Absent/Present)/250 ml
		Yeast & Mold Count	IS 5403: 1999 (RA 2005)	Qualitative (Absent/Present)/250 ml
		E.coli	IS 15185: 2002 or IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Absent/Present)/250 ml
		Staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Absent/Present)/250 ml
		Faecal streptococci	IS 15186: 2002 or IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Absent/Present)/250 ml

<b>Laboratory</b>	<b>Ganesh Consultancy &amp; Analytical Services, 294/A, Hebbal Industrial Area, Mysore, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Biological Testing</b>	<b>Issue Date</b>	<b>16.06.2016</b>
<b>Certificate Number</b>	<b>T-1686</b>	<b>Valid Until</b>	<b>15.06.2018</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>4 of 13</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>Packaged Drinking Water</b>	Salmonella	IS 15187: 2002 or IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Absent/Present)/250 ml
		Shigella	IS 5887 (Part 7): 1999 (RA 2005)	Qualitative (Absent/Present)/250 ml
		Vibrio cholerae	IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Absent/Present)/250 ml
		Vibrio parahaemolyticus	IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Absent/Present)/250 ml
		Pseudomonas aeruginosa	IS 13428: 2005 (RA 2009) Annexure D	Qualitative (Absent/Present)/250 ml
		Sulphite reducing anaerobes	IS 13428: 2005 (RA 2009) Annexure C	Qualitative (Absent/Present)/50 ml
<b>6.</b>	<b>Packaged Natural Mineral Water</b>	Total viable colony count @ 37 °C for 24 hrs	IS 5402: 2012	≥1 cfu/ml
		Total viable colony count @ 22°C for 72 hrs	IS 5402: 2012	≥1 cfu/ml
		Coliforms	IS 15185: 2002 or IS 5401: 2002	Qualitative (Absent/Present)/250 ml
		Yeast & Mold Count	IS 5403: 1999 (RA 2005)	Qualitative (Absent/Present)/250 ml
		E.coli	IS 15185: 2002 or IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Absent/Present)/250 ml

<b>Laboratory</b>	<b>Ganesh Consultancy &amp; Analytical Services, 294/A, Hebbal Industrial Area, Mysore, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Biological Testing</b>	<b>Issue Date</b>	<b>16.06.2016</b>
<b>Certificate Number</b>	<b>T-1686</b>	<b>Valid Until</b>	<b>15.06.2018</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>5 of 13</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>Packaged Natural Mineral Water</b>	Staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Absent/Present)/250 ml
		Faecal streptococci	IS 15186: 2002 or IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Absent/Present)/250 ml
		Salmonella	IS 15187: 2002 or IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Absent/Present)/250 ml
		Shigella	IS 5887 (Part 7): 1999 (RA 2005)	Qualitative (Absent/Present)/250 ml
		Vibrio cholerae	IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Absent/Present)/250 ml
		Vibrio parahaemolyticus	IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Absent/Present)/250 ml
		Pseudomonas aeruginosa	IS 13428: 2005 (RA 2009) Annexure D	Qualitative (Absent/Present)/250 ml
		Sulphite reducing anaerobes	IS 13428: 2005 (RA 2009) Annexure C	Qualitative (Absent/Present)/50 ml
<b>II. ANIMAL FOOD &amp; FEED</b>				
<b>1.</b>	<b>Animal Feeds</b>	E.Coli Detection	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Absent/Present)/g
		Staphylococcus aureus Detection	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Absent/Present)/g
		Salmonella	IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Absent/Present)/25 g

<b>Laboratory</b>	<b>Ganesh Consultancy &amp; Analytical Services, 294/A, Hebbal Industrial Area, Mysore, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Biological Testing</b>	<b>Issue Date</b>	<b>16.06.2016</b>
<b>Certificate Number</b>	<b>T-1686</b>	<b>Valid Until</b>	<b>15.06.2018</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>6 of 13</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>Animal Feeds</b>	Clostridium perfringens	IS 5887 (Part 4): 1999 (RA 2005)	Qualitative (Absent/Present)/g
<b>III. FOOD AND AGRICULTURAL PRODUCTS</b>				
<b>1.</b>	<b>Bakery &amp; Confectionary Products</b>	Aerobic Plate count / Total microbial count	IS 5402: 2012	≥ 10 cfu/g or ≥ 1 cfu/ml
		Coliform count	IS 5401 (Part 1): 2002	≥ 10 cfu/g or ≥ 1 cfu/ml
		Yeast & mold count	IS 5403: 1999 (RA 2005)	≥ 10 cfu/g or ≥ 1 cfu/ml
		E.Coli Isolation Enumeration	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Absent/Present)/g ≥ 10 cfu/g or ≥ 1 cfu/ml
		Staphylococcus aureus Isolation Enumeration	IS 5887 (Part 2): 1976 (RA 2005) IS 5887 (Part 8/Sec I): 2002	Qualitative (Absent/Present)/g ≥ 10 cfu/g or ≥ 1 cfu/ml
		Salmonella	IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Absent/Present)/25 g /ml
<b>2.</b>	<b>Beverages (Non-Alcoholic)</b>	Aerobic Plate count / Total microbial count	IS 5402: 2012	≥ 1 cfu/ml
		Coliforms	IS 5401 (Part 2): 2012	Qualitative (Present or Absent)/ 100ml
		Yeast & mold count	IS 5403: 1999 (RA 2005)	≥ 1 cfu / ml

<b>Laboratory</b>	<b>Ganesh Consultancy &amp; Analytical Services, 294/A, Hebbal Industrial Area, Mysore, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Biological Testing</b>	<b>Issue Date</b>	<b>16.06.2016</b>
<b>Certificate Number</b>	<b>T-1686</b>	<b>Valid Until</b>	<b>15.06.2018</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>7 of 13</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>3.</b>	<b>Cereals, Pulses &amp; Cereal products</b>	Aerobic Plate count / Total microbial count	IS 5402: 2012	≥ 10 cfu/g
		Coliform count	IS 5401 (Part 1): 2002	≥ 10 cfu/g
		Yeast & mold count	IS 5403: 1999 (RA 2005)	≥ 10 cfu/g
		E.Coli Isolation Enumeration	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Absent/Present)/g ≥ 10 cfu/g
		Staphylococcus aureus Isolation Enumeration	IS 5887 (Part 2): 1976 (RA 2005) IS 5887 (Part 8/Sec I): 2002	Qualitative (Absent/Present)/g ≥ 10 cfu/g
		Salmonella	IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Absent/Present)/25 g
		Clostridium perfringens	IS 5887 (Part 4): 1999 (RA 2005)	Qualitative (Absent/Present)/g
		Bacillus cereus	IS 5887 (Part 6): 2012	≥ 10 cfu/g
		Shigella	IS 5887 (Part 7): 1999 (RA 2005)	Qualitative (Absent/Present)/25 g
<b>4.</b>	<b>Fruit &amp; Fruit Products</b>	Aerobic Plate count / Total microbial count	IS 5402: 2012	≥ 10 cfu/g or ≥ 1 cfu/ml
		Coliform count	IS 5401(Part 1): 2002	≥ 10 cfu/g or ≥ 1 cfu/ml
		Yeast & mold count	IS 5403: 1999 (RA 2005)	≥ 10 cfu/g or ≥ 1 cfu/ml

<b>Laboratory</b>	<b>Ganesh Consultancy &amp; Analytical Services, 294/A, Hebbal Industrial Area, Mysore, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Biological Testing</b>	<b>Issue Date</b>	<b>16.06.2016</b>
<b>Certificate Number</b>	<b>T-1686</b>	<b>Valid Until</b>	<b>15.06.2018</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>8 of 13</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>Fruit &amp; Fruit Products</b>	E.Coli Isolation Enumeration	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Absent/Present)/g or ml ≥ 10 cfu/g or ≥ 1 cfu/ml
		Staphylococcus aureus Isolation Enumeration	IS 5887 (Part 2): 1976 (RA 2005) IS 5887 (Part 8/Sec I): 2002	Qualitative (Absent/Present)/g or ml ≥ 10 cfu/g or ≥ 1 cfu/ml
		Salmonella	IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Absent/Present)/25 g or ml
		Clostridium perfringens	IS 5887 (Part 4): 1999 (RA 2005)	Qualitative (Absent/Present)/g or ml
		Bacillus cereus	IS 5887 (Part 6): 2012	≥ 10 cfu/g or ≥ 1 cfu/ml
		Shigella	IS 5887 (Part 7): 1999 (RA 2005)	Qualitative (Absent/Present)/25 g or ml
<b>5.</b>		<b>Fish &amp; Sea Foods</b>	Aerobic Plate count / Total microbial count	IS 5402: 2012
	Coliform count		IS 5401 (Part 1): 2002	≥ 10 cfu/g
	Yeast & mold count		IS 5403: 1999 (RA 2005)	≥ 10 cfu/g



<b>Laboratory</b>	<b>Ganesh Consultancy &amp; Analytical Services, 294/A, Hebbal Industrial Area, Mysore, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Biological Testing</b>	<b>Issue Date</b>	<b>16.06.2016</b>
<b>Certificate Number</b>	<b>T-1686</b>	<b>Valid Until</b>	<b>15.06.2018</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>9 of 13</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>Fish &amp; Sea Foods</b>	E.Coli Isolation Enumeration	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Absent/Present)/g ≥ 10 cfu/g
		Staphylococcus aureus Isolation Enumeration	IS 5887 (Part 2): 1976 (RA 2005) IS 5887 (Part 8/Sec I): 2002	Qualitative (Absent/Present)/g ≥ 10 cfu/g
		Salmonella	IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Absent/Present)/25 g
		Clostridium perfringens	IS 5887 (Part 4): 1999 (RA 2005)	Qualitative (Absent/Present)/g
		Bacillus cereus	IS 5887 (Part 6): 2012	≥ 10 cfu/g
		Shigella	IS 5887 (Part 7): 1999 (RA 2005)	Qualitative (Absent/Present)/25 g
		Vibrio cholerae	IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Absent/Present)/25 g
		Vibrio parahaemolyticus	IS 5887 (Part 5): 1976 (RA 2005)	Qualitative (Absent/Present)/25 g
<b>6.</b>		<b>Meat &amp; Meat Products</b>	Aerobic Plate count / Total microbial count	IS 5402: 2012
	Coliform count		IS 5401 (Part 1): 2002	≥ 10 cfu/g
	Yeast & mold count		IS 5403: 1999 (RA 2005)	≥ 10 cfu/g

<b>Laboratory</b>	<b>Ganesh Consultancy &amp; Analytical Services, 294/A, Hebbal Industrial Area, Mysore, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Biological Testing</b>	<b>Issue Date</b>	<b>16.06.2016</b>
<b>Certificate Number</b>	<b>T-1686</b>	<b>Valid Until</b>	<b>15.06.2018</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>10 of 13</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>Meat &amp; Meat Products</b>	E.Coli Isolation Enumeration	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Absent/Present)/ g ≥ 10 cfu/g
		Staphylococcus aureus Isolation Enumeration	IS 5887 (Part 2): 1976 (RA 2005) IS 5887 (Part 8/Sec I): 2002,	Qualitative (Absent/Present)/ g ≥ 10 cfu/g
		Salmonella	IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Absent/Present)/25 g
		Clostridium perfringens	IS 5887 (Part 4): 1999 (RA 2005)	Qualitative (Absent/Present)/ g
		Bacillus cereus	IS 5887(Part 6): 2012	≥ 10 cfu/g
		Shigella	IS 5887 (Part 7): 1999 (RA 2005)	Qualitative (Absent/Present)/25 g
<b>7.</b>		<b>Milk &amp; Dairy Products</b>	Aerobic Plate count / Total microbial count	IS 5402: 2012
	Coliform count		IS 5401 (Part 1): 2002	≥ 10 cfu/g or ≥ 1 cfu/ml
	Yeast & mold count		IS 5403: 1999 (RA 2005)	≥ 10 cfu/g or ≥ 1 cfu/ml
	E.Coli Isolation Enumeration		IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Absent/Present)/g or ml ≥ 10 cfu/g or ≥ 1 cfu/ml

<b>Laboratory</b>	<b>Ganesh Consultancy &amp; Analytical Services, 294/A, Hebbal Industrial Area, Mysore, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Biological Testing</b>	<b>Issue Date</b>	<b>16.06.2016</b>
<b>Certificate Number</b>	<b>T-1686</b>	<b>Valid Until</b>	<b>15.06.2018</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>11 of 13</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>Milk &amp; Dairy Products</b>	Staphylococcus aureus Isolation	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Absent/Present)/g or ml
		Enumeration	IS 5887 (Part 8/Sec I): 2002	≥ 10 cfu/g or ≥ 1 cfu/ml
		Salmonella	IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Absent/Present)/25 g or ml
		Clostridium perfringens	IS 5887 (Part 4): 1999 (RA 2005)	Qualitative (Absent/Present)/g or ml
		Bacillus cereus	IS 5887 (Part 6): 2012	≥ 10 cfu/g or ≥ 1 cfu/ml
<b>8.</b>	<b>Ready to Eat Foods</b>	Aerobic Plate count / Total microbial count	IS 5402: 2012	≥ 10 cfu/g
		Coliform count	IS 5401 (Part 1): 2002	≥ 10 cfu/g
		Yeast & mold count	IS 5403: 1999 (RA 2005)	≥ 10 cfu/g
		E.Coli Isolation Enumeration	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Absent/Present)/g ≥ 10 cfu/g
		Staphylococcus aureus Isolation	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Absent/Present)/g ≥ 10 cfu/g
		Enumeration	IS 5887 (Part 8/Sec I): 2002	
		Salmonella	IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Absent/Present)/25 g

<b>Laboratory</b>	<b>Ganesh Consultancy &amp; Analytical Services, 294/A, Hebbal Industrial Area, Mysore, Karnataka</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Biological Testing</b>	<b>Issue Date</b>	<b>16.06.2016</b>
<b>Certificate Number</b>	<b>T-1686</b>	<b>Valid Until</b>	<b>15.06.2018</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>12 of 13</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>Ready to Eat Foods</b>	Shigella	IS 5887 (Part 7): 1999 (RA 2005)	Qualitative (Absent/Present)/25 g
		Clostridium perfringens	IS 5887 (Part 4): 1999 (RA 2005)	Qualitative (Absent/Present)/ g
		Bacillus cereus	IS 5887 (Part 6): 2012	≥ 10 cfu/g
<b>9.</b>	<b>Herbs, Spices &amp; Condiments</b>	Aerobic Plate count / Total microbial count	IS 5402: 2012	≥ 10 cfu/g
		Coliform count	IS 5401 (Part 1): 2002	≥ 10 cfu/g
		Yeast & mold count	IS 5403: 1999 (RA 2005)	≥ 10 cfu/g
		E.Coli Isolation Enumeration	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Absent/Present)/g ≥ 10 cfu/g
		Salmonella	IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Absent/Present)/25 g
<b>10.</b>	<b>Vegetables &amp; Vegetable Products</b>	Aerobic Plate count / Total microbial count	IS 5402: 2012	≥ 10 cfu/g
		Coliform count	IS 5401 (Part 1): 2002	≥ 10 cfu/g
		Yeast & mold count	IS 5403: 1999 (RA 2005)	≥ 10 cfu/g
		E.Coli Isolation Enumeration	IS 5887 (Part 1): 1976 (RA 2005)	Qualitative (Absent/Present)/g ≥ 10 cfu/g

**Laboratory** Ganesh Consultancy & Analytical Services, 294/A, Hebbal Industrial Area, Mysore, Karnataka

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

**Discipline** Biological Testing **Issue Date** 16.06.2016

**Certificate Number** T-1686 **Valid Until** 15.06.2018

**Last Amended on** - **Page** 13 of 13

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	<b>Vegetables &amp; Vegetable Products</b>	Staphylococcus aureus Isolation	IS 5887 (Part 2): 1976 (RA 2005)	Qualitative (Absent/Present)/g
		Enumeration	IS 5887 (Part 8/Sec I): 2002	≥ 10 cfu/g
		Salmonella	IS 5887 (Part 3): 1999 (RA 2005)	Qualitative (Absent/Present)/25 g
		Clostridium perfringens	IS 5887 (Part 4): 1999 (RA 2005)	Qualitative (Absent/Present)/ g
		Bacillus cereus	IS 5887 (Part 6): 2012	≥ 10 cfu/g
		Shigella	IS 5887 (Part 7): 1999 (RA 2005)	Qualitative (Absent/Present)/25 g

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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**.