

**Laboratory** HiTech Testing and Research Centre Pvt. Ltd., F- 1/7, Okhla Industrial Area, Phase-I, New Delhi

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

**Discipline** Biological Testing **Issue Date** 10.09.2014

**Certificate Number** T-1753 **Valid Until** 03.07.2016

**Last Amended on** - **Page** 1 of 7

| S.No.                                      | Product / Material of Test                  | Specific Test Performed     | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection  |
|--|---|-----------------------------|---|---|
| <b>I. FOOD &amp; AGRICULTURAL PRODUCTS</b> |   |                             |   |   |
| <b>1.</b>                                  | <b>Bakery &amp; Confectionery Products</b>  | Total Bacterial Plate Count | IS:5402-2012(RA 2012)                                       | 15 to 300 cfu/g or ml x DF              |
|  |   | Yeast & Mould Count         | IS:5403-1999(RA 2005)                                       | 15 to 150 cfu/g or ml x DF              |
|  |   | Escherichia coli            | IS:5887- Part -1 -1976 (RA 2005)                            | Present/Absent/g                        |
|  |   | Coliform Count              | IS:5401-Part -1-2002  | 10 to 150 cfu/g or ml x DF              |
|  |   | Staphylococcus aureus       | IS:5887- Part-2-1976 (RA 2005)                              | 15 to 150 cfu/g or ml x DF              |
|  |   | Salmonella                  | IS:5887- Part-3-1999 (RA 2005)                              | Present/Absent /25g                     |
|  |   | Shigella                    | IS:5887- Part-7 -1976 (RA 2005)                             | Present/Absent /25g                     |
| <b>2.</b>                                  | <b>Processed Cereal Based Weaning Foods</b> | Total Bacterial Count       | IS:5402-2012 (RA 2012)                                      | 15 to 300 cfu/g or ml x DF              |
|  |   | Coliform                    | IS:5401-Part -1-2002  | 10 to 150 cfu/g or ml x DF              |
|  |   | Yeast & Mould Count         | IS:5403-1999(RA 2005)                                       | 15 to 150 cfu/g or ml x DF              |
|  |   | Escherichia coli            | IS:5887- Part-1-1976 (RA 2005)                              | 1 to 150 cfu/g or ml x DF (cfu/g or ml) |

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**Certificate Number** T-1753 **Valid Until** 03.07.2016

**Last Amended on** - **Page** 2 of 7

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|-------|--|-------------------------|---|--|
| 3.    | <b>Beverages (Alcoholic / Non-Alcoholic)</b>                       | Escherichia coli        | IS:5887- Part -1-1976 (RA 2005)                             | Present/Absent/g                       |
|       |  | Total Bacterial Count   | IS:5402-2012 (RA 2012)                                      | 15 to 300 cfu/g or ml x DF             |
|       |  | Coliform Count          | IS:5401-Part -1-2002  | 10 to 150 cfu/g or ml x DF             |
|       |  | Yeast & Mould Count     | IS:5403-1999(RA 2005)                                       | 15 to 150 cfu/g or ml x DF             |
|       |  | Staphylococcus aureus   | IS:5887- Part-2-1976 (RA 2005)                              | 15 to 150 cfu/g or ml x DF             |
| 4.    | <b>Cereals &amp; Grains (Including Rice, Pulses, Sesame Seeds)</b> | Salmonella              | IS:5887- Part-3-1999 (RA 2005)                              | Present/Absent/25g                     |
|       |  | Aerobic Plate Count     | IS:5402-2012(RA 2012)                                       | 15 to 300 cfu/g or ml x DF             |
|       |  | Coliform Count          | IS:5401-P-1-2002  | 10 to 150 cfu/g or ml x DF             |
|       |  | Yeast & mould Count     | IS:5403-1999(RA 2005)                                       | 15 to 150 cfu/g or ml x DF             |
|       |  | Escherichia coli        | IS:5887- Part-1 -1976 (RA 2005)                             | Present/Absent/g                       |
|       |  | Salmonella              | IS:5887- Part -3-1999 (RA 2005)                             | Present/ Absent/25g                    |
|       |  | Staphylococcus aureus   | IS:5887- Part -2 -1976 (RA 2005)                            | Present/ Absent/g                      |
|       |  | Bacillus cereus         | IS:5887- Part -6-2012(RA 2012)                              | 15 to 150 cfu/g or ml x DF             |

|                               |   |                    |                   |
|-------------------------------|---|--------------------|-------------------|
| <b>Laboratory</b>             | <b>HiTech Testing and Research Centre Pvt. Ltd., F- 1/7,Okhla Industrial Area, Phase-I, New Delhi</b> |                    |                   |
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| <b>Discipline</b>             | <b>Biological Testing</b>   | <b>Issue Date</b>  | <b>10.09.2014</b> |
| <b>Certificate Number</b>     | <b>T-1753</b>   | <b>Valid Until</b> | <b>03.07.2016</b> |
| <b>Last Amended on</b>        | <b>-</b>  | <b>Page</b>        | <b>3 of 7</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>5.</b>    | <b>Milk &amp; Milk Products<br/>Milk and All Types of Milk Products, All types of Cheese and Curd, Yoghurt, All types of milk Powders, Creams</b> | Bacterial count   | IS:5402-2012(RA 2012)  | 15 to 300 cfu/g or ml x DF                    |
|              |   | Coliform Count  | IS:5401-P-1-2002   | 10 to 150 cfu/g or ml x DF                    |
|              |   | Yeast & Mould Count                                     | IS:5403-1999(RA 2005)  | 15 to 150 cfu/g or ml x DF                    |
|              |   | Salmonella  | IS:5887- Part-3 -1999 (RA 2005)                                    | Present/Absent/ 25g                           |
|              |   | Shigella  | IS:5887- Part-7-1976 (RA 2005)                                     | Present/Absent/ 25g                           |
|              |   | E. coli   | IS:5887- Part -1-1976 (RA 2005)                                    | 1 to 150 cfu/g or ml x DF                     |
|              |   | Staphylococcus aureus                                   | IS:5887- Part-2 -1976 (RA 2005)                                    | 15 to 150 cfu/g or ml x DF                    |
|              |   | B. cereus   | IS:5887- Part- 6 -2012 (RA 2012)                                   | 15 to 150 cfu/g or ml x DF                    |
|              |   | Clostridium perfringenes                                | IS:5887- Part -4-1999 (RA 2005)                                    | Present/Absent / g                            |
|              | Listeria monocytogenes  | IS:14988-Part -1-2001<br>IS:14988-Part -2-2002(RA 2009) | Present/Absent / g   |   |
| <b>6.</b>    | <b>Meat &amp; Meat Products (Canned, Raw, Processed, Frozen).</b>   | Total Plate Count                                       | IS:5402-2012(RA 2012)  | 15 to 300 cfu/g or ml x DF                    |
|              |   | E . coli  | IS:5887- Part-1 -1976 (RA 2005)                                    | 1 to 150 cfu/g or ml x DF                     |
|              |   | Salmonella  | IS:5887- Part -3 -1999 (RA 2005)                                   | Present/Absent / 25g                          |
|              |   | Staphylococcus aureus                                   | IS:5887- Part-2 -1976 (RA 2005)                                    | 15 to 150 cfu/g or ml x DF                    |

|                               |   |                    |                   |
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| <b>Laboratory</b>             | <b>HiTech Testing and Research Centre Pvt. Ltd., F- 1/7,Okhla Industrial Area, Phase-I, New Delhi</b> |                    |                   |
| <b>Accreditation Standard</b> | <b>ISO/IEC 17025: 2005</b>  |                    |                   |
| <b>Discipline</b>             | <b>Biological Testing</b>   | <b>Issue Date</b>  | <b>10.09.2014</b> |
| <b>Certificate Number</b>     | <b>T-1753</b>   | <b>Valid Until</b> | <b>03.07.2016</b> |
| <b>Last Amended on</b>        | <b>-</b>  | <b>Page</b>        | <b>4 of 7</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 (Canned, Raw, Processed, Frozen).</b>   | Clostridium perfringens         | IS:5887- Part-4 -1999 (RA 2005)                                    | Present/Absent/ g                             |
|              |   | Clostridium botulinum           | IS:5887- Part-4 -1999 (RA 2005)                                    | Present/Absent/ g                             |
|              |   | Yeast & Mould Count             | IS:5403-1999(RA 2005)  | 15 to 150 cfu/g or ml x DF                    |
|              |   | Listeria monocytogenes          | IS:14988-Part -1-2001<br>IS:14988-Part- 2-2002(RA 2009)            | Present/Absent/ g                             |
| <b>7.</b>    | <b>Fruits &amp; Fruits Products Thermally Processed, Dehydrated Fruits &amp; Vegetable Products. Tomato Products (Juices, soup, soup powder, puree, paste, ketchup, sauces). Other Fruits &amp; Vegetable Products (Frozen Fruits &amp; Vegetable Products, Preserves, Pickles, Fruits cereal Flakes)</b> | Total Plate Count               | IS:5402-2012(RA 2012)  | 15 to 300 cfu/g or ml x DF                    |
|              |   | Yeast & Spores                  | IS:5403-1999(RA 2005)  | 15 to 150 cfu/g or ml x DF                    |
|              |   | Coliform Count                  | IS:5401-P-1-2002   | 10 to 150 cfu/g or ml x DF                    |
|              |   | Yeast & Spores                  | IS:5403-1999(RA 2005)  | 15 to 150 cfu/g or ml x DF                    |
|              |   | Total Plate Count               | IS 5402-2012(RA 2012)  | 15 to 300 cfu/g or ml x DF                    |
|              |   | Total Plate Count               | IS:5402-2012(RA 2012)  | 15 to 300 cfu/g or ml x DF                    |
|              |   | Yeast & Mould Count             | IS:5403-1999(RA 2005)  | 15 to 150 cfu/g or ml x DF                    |
|              |   | Staphylococcus aureus           | IS:5887- Part -2 -1976 (RA 2005)                                   | 15 to 150 cfu/g or ml x DF                    |
|              | Salmonella  | IS:5887- Part-3 -1999 (RA 2005) | Present/Absent / 25g   |   |

**Laboratory** HiTech Testing and Research Centre Pvt. Ltd., F- 1/7, Okhla Industrial Area, Phase-I, New Delhi

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**Certificate Number** T-1753 **Valid Until** 03.07.2016

**Last Amended on** - **Page** 5 of 7

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|-----------|---|--------------------------|---|--|
|           | <b>Other Fruits &amp; Vegetable Products (Frozen Fruits &amp; Vegetable Products, Preserves, Pickles, Fruits cereal Flakes)</b> | Shigella                 | IS:5887- Part -7-1976 (RA 2005)                             | Present/Absent / 25g                   |
|           |   | Clostridium botulinum    | IS:5887- Part -4 -1999 (RA 2005)                            | Present/Absent / g                     |
|           |   | E. coli                  | IS:5887- Part -1 -1976 (RA 2005)                            | 1 to 150 cfu/g or ml x DF              |
|           |   | Vibrio cholerae          | IS:5887- Part -5 -1976 (RA 2005)                            | Present/Absent / g                     |
| <b>II</b> | <b>WATER</b>  |                          |   |  |
| <b>1.</b> | <b>Drinking Water<br/>Ground Water/<br/>Surface Water</b>   | Yeast & Mould            | IS 5403-1999 (RA 2005)                                      | Present /Absent/ 100ml                 |
|           |   | Escherichia coli.        | IS 1622-1981(RA 2009)                                       | Present / Absent / 100 ml              |
|           |   | Coliform Bacteria        | IS 1622-1981(RA 2009)                                       | < 2.0 to 1600 MPN /100 ml              |
|           |   | Faecal Coliform bacteria | IS 1622-1981(RA 2009)                                       | Present / Absent per 100 ml            |
|           |   | Total Plate Count        | IS 5402-2012(RA 2012)                                       | 15 to 300 cfu/ml x DF                  |
| <b>2.</b> | <b>Packaged<br/>Drinking Water</b>  | Escherichia coli         | IS 5887- Part -1-1976 (RA -2005)                            | Present / Absent per 250 ml            |
|           |   | Coliform bacteria        | IS 5401- Part-1-2002  | Present / Absent per 250 ml            |
|           |   | Faecal streptococci      | IS 5887 -Part-2-1976(RA -2005)                              | Present / Absent per 250 ml            |

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**Certificate Number** T-1753 **Valid Until** 03.07.2016

**Last Amended on** - **Page** 6 of 7

| S.No. | Product / Material of Test     | Specific Test Performed   | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-------|--------------------------------|---|---|--|
|       | <b>Packaged Drinking Water</b> | Sulphite reducing anaerobes   | IS 13428-2005 (Annx-C) (RA 2009)                            | Present / Absent per 50 ml             |
|       |                                | Pseudomonas aeruginosa  | IS 13428-2005 (Annx -D) (RA 2009)                           | Present / Absent per 250 ml            |
|       |                                | Aerobic microbial count (at 20-22 <sup>0</sup> C for 72 hrs and at 37°C for 24 hrs) | IS 5402-2012(RA 2012)                                       | 15 to 300 cfu/ml x DF                  |
|       |                                | Yeast & Mould   | IS 5403-1999 (RA 2005)                                      | Present / Absent per 250 ml            |
|       |                                | Salmonella  | IS 5887 - Part -3-1999 (RA 2005)                            | Present / Absent per 250 ml            |
|       |                                | Shigella  | IS 5887- P-7-1999(RA 2005)                                  | Present / Absent per 250 ml            |
|       |                                | Vibrio cholerae   | IS 5887 -Part 5-1976(RA 2005)                               | Present / Absent per 250 ml            |
|       |                                | Vibrio parahaemolyticus   | IS 5887 -Part 5-1976(RA 2005)                               | Present / Absent per 250 ml            |
|       |                                | Staphylococcus aureus   | IS 5887- Part-2-1976(RA 2005)/                              | Present / Absent per 250               |
| 3.    | <b>Packaged Mineral Water</b>  | Escherichia coli  | IS 5887 -Part -1-1976 (RA 2005)                             | Present / Absent per 250 ml            |
|       |                                | Coliform bacteria   | IS 5401- Part-1-2002  | Present / Absent per 250 ml            |

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**Certificate Number** T-1753 **Valid Until** 03.07.2016

**Last Amended on** - **Page** 7 of 7

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|-------|-------------------------------|-----------------------------|---|--|
|       | <b>Packaged Mineral Water</b> | Faecal streptococci         | IS 5887- P-2-1976   | Present / Absent per 250 ml            |
|       |                               | Staphylococcus aureus       | IS 5887- Part-2-1976(RA 2005)                               | Present / Absent per 250 ml            |
|       |                               | Sulphite Reducing Anaerobes | IS 13428-2005 (Annx-C) (RA 2009)                            | Present / Absent per 250 ml            |
|       |                               | Pseudomonas aeruginosa      | IS 13428-2005 (Annx -D) (RA 2009)                           | Present / Absent per 250 ml            |
|       |                               | Aerobic Microbial Count     | IS 5402-2012(RA 2012)                                       | 15-300 cfu/ml x DF                     |
|       |                               | Yeast & Mould               | IS 5403-1999 (RA 2005)                                      | Present / Absent per 250 ml            |
|       |                               | Salmonella                  | IS 5887- Part -3-1999 (RA 2005)                             | Present / Absent per 250 ml            |
|       |                               | Shigella                    | IS 5887 -P-7-1999(RA 2005)                                  | Present / Absent per 250 ml            |
|       |                               | Vibrio cholerae             | IS 5887- Part 5-1976(RA 2005)                               | Present / Absent per 250 ml            |
|       |                               | Vibrio parahaemolyticus     | IS 5887- Part 5-1976(RA 2005)                               | Present / Absent per 250ml             |

**-X-X-X-X-X-X-X-X-X-X-X-X-**