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| I. WA | ATER | | | |
| 1. | Packaged Drinking Water IS 14543:2004 | Escherichia coli | IS 5887 (Part-1) 1976 (RA 2005) or IS 15185-2002 | Present or Absent /250 ml |
| | 15 14545:2004 | Coliform bacteria | IS 5401(Part-1) 2002 or IS 15185-2002 | Present or Absent /250 ml |
| | | Faecal streptococci | IS 5887 (Part-2) 1976 (RA 2005) IS 15186-2002 | Present or Absent /250 ml |
| | | Sulphite reducing anaerobes | IS 13428(Ann-C)-1998 | Present or Absent /250 ml |
| | | Pseudomonas aeruginosa | IS 13428(Ann-D)-1998 | Present or Absent /250 ml |
| | | Aerobic microbial count (at 20-22°C for 72 hrs and at 37°C for 24 hrs) | IS 5402-2012 | \geq 1 cfu/ml |
| | | Yeast & Mould | IS 5403-1999, (RA 2005) | Present or Absent /250 ml |
| | | Salmonella | IS 5887(Part-3) 1999, (RA 2005) or IS 15187-2002 | Present or Absent /250 ml |
| | | Shigella | IS 5887(Part-7) 1999, (RA 2005) | Present or Absent /250 ml |
| | | Vibrio cholerae | IS 5887(Part-5) 1976, (RA 2005) | Present or Absent /250 ml |

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|-------|-------------------------------------|-----------------------------|--|---|
| | | V. parahaemolyticus | IS 5887 (Part-5) 1976, (RA 2005) | Present or Absent /250 ml |
| | | Staphylococcus aureus | IS 5887 (Part-2)-1976, (RA 2005) or IS 5887 (Part-8) Sec I-2002 | Present or Absent /250 ml |
| 2. | Swimming Pool | Standard plate count | IS 3328 (Ann A) 1993, (RA 2008) | $\geq 1 \text{ cfu/ml}$ |
| | Water, IS: 3328-1993, RA 2008 | Coliform bacteria | IS 1622:1981, (RA 2003) | \geq 1 MPN/100 ml |
| 3. | Drinking Water IS: 10500-2012 | Escherichia coli | IS 1622-1981, (RA 2003) | Present or Absent per 100ml |
| | | Coliform bacteria | IS 1622-1981, (RA 2003) | ≥ 2MPN per 100ml or Present or Absent/100 ml |
| | | Faecal Coliform Bacteria | IS 1622-1981, (RA 2003) | Present or Absent per 100ml |
| 4. | Natural Mineral Water | Escherichia coli | IS 5887 (Part-1) 1976, (RA 2005) or IS 15185-2002 | Present or Absent /250 ml |
| | IS: 13428-2005 | Coliform bacteria | IS 5401(Part-1): 2002 or IS 15185-2002 | Present or Absent /250 ml |
| | | Faecal streptococci | IS 5887(Part-2)-1976, (RA 2005) or IS 15186-2002 | Present or Absent /250 ml |
| | | Sulphite reducing anaerobes | IS 13428 (Ann-C)-1998 | Present or Absent /250 ml |

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|-------|---------------------------------------|---|---|---|
| | | Pseudomonas aeruginosa | IS 13428 (Ann-D)-1998 | Present or Absent /250 ml |
| | | Yeast & Mould | IS 5403-1999, (RA 2005) | Present or Absent /250 ml |
| | | Salmonella | IS 5887 (Part-3)-1999, (RA 2005) or IS 15187-2002 | Present or Absent /250 ml |
| | | Shigella | IS 5887 (Part-7)-1999, (RA 2005) | Present or Absent /250 ml |
| | | Vibrio cholera | IS 5887 (Part-5):1976, (RA 2005) | Present or Absent /250 ml |
| | | V. parahaemolyticus | IS 5887 (Part-5):1976, (RA 2005) | Present or Absent /250 ml |
| | | Staphylococcus aureus | IS 5887 (Part-2)-1976, IS 5887 (Part-8)-2002 | Present or Absent /250 ml |
| 5. | Water (General) | Enterobacteriaceae | IS/ISO 7402-1993 | \geq 1 cfu / ml |
| 6. | Waste Water & Industrial effluents | Evaluation of acute Toxicity by fish Bio assay method | IS 6582 (Part-2) -2001, (RA 2003) | 1-64 T _F |
| | | Faecal coliform, by MPN | IS 1622-1981, (RA 2003) or APHA -22 nd Edition | \geq 2 MPN/100 ml |
| | | Faecal coliform, by MF | APHA -22 nd Edition | ≥1 CFU/100 ml |
| | | Faecal streptococci, by MPN | IS 1622-1981, (RA 2003) or APHA 22 nd Ed | \geq 2 MPN/100 ml |

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|-------|-------------------------------|-------------------------------------|---|---|
| | | Faecal streptococci, by MF | IS 1622-1981, (RA 2003) or APHA 22 nd Ed | ≥1 CFU/100 ml |
| | | Total Coliform, by MF | APHA -22 nd Edition | \geq 1CFU/100 ml |
| | | E. coli MPN | IS 1622-1981, (RA 2003)/ or APHA 22 nd Ed. | ≥2 MPN/100ml |
| 7. | Water for | Coliform bacteria | IS 1622-1981, (RA 2003) | ≥1 MPN/100 ml |
| | Processed Food Industry | Standard plate count | IS 1622-1981, (RA 2003) | ≥ 1 CFU/ ml |
| | IS-4251-1967, RA 1992 | Thermophillic bacteria | IS 4251-1967, (RA 1992) | ≥ 1 CFU/ ml |
| | | Proteolytic and Lipolytic organisms | IS 4251-1967, (RA 1992) | ≥1CFU/ ml |
| 8. | Water used for | Coliform Bacteria | ISO-9308-1 | ≥ 2 MPN/100ml |
| | Human Consumption | E. coli | ISO-9308-1 | Present/Absent/250ml |
| | | Enterococci | ISO-7899-2 | Present/Absent/250ml |
| | | Colony count at 22°C | ISO-6222 | \geq 1 cfu / ml |
| | | Colony count at 37°C | ISO-6222 | \geq 1 cfu / ml |
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|-------|-----------------------------------|-------------------------|---|---|
| II. F | OOD & AGRICULT | URAL PRODUCTS | | |
| 1. | Processed Cereal Based Weaning | Bacterial Count | IS 5402-2012 | \geq 10 cfu/gm |
| | Foods IS: 11536-2007 | Coliform | IS 5401 (Part - I) 2002 | $\geq 1 cfu/0.1 gm$ |

| | 15. 11000 2007 | | | |
|----|---|-----------------------|----------------------------------|-------------------------|
| 2. | Milk-Cereal Based Complementary | Bacterial Count | IS 5402-2012 | \geq 10 cfu / g |
| | Foods IS: 1656-1997, | Coliform | IS 5401 (Part - I) 2002 | \geq 1 cfu / 0.1g |
| | RA 2007 | Staphylococcus aureus | IS 5887 (Part-8) Sec-I:2002 | Present or Absent/ 0.1g |
| | | Salmonella | IS 5887 (Part-3) 1999, (RA 2005) | Present or Absent/ 25g |
| | | Shigella | IS 5887 (Part-7) 1999, (RA 2005) | Present or Absent / 25g |
| 3. | "Ready to Eat" protein rich | Bacterial Count | IS 5402-2012 | ≥10 Cfu per g |
| | extruded foods IS: 9487-1980, RA 2005 | Coliform | IS 5401 (Part - I) 2002 | \geq 1cfu per 0.1g |
| | | Salmonella | IS 5887 (Part-3) 1999, (RA 2005) | Present or Absent / 25g |
| 4. | Protein rich food supplements for | Bacterial Count | IS 5402-2012 | <u>≥</u> 10 Cfu/g |
| | infants and pre-school children IS: 7021-1973, RA 2005 | Coliform | IS 5401 (Part - I) 2002 | \geq 1 cfu/ 0.1g |

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|-------|--|-------------------------|---|---|
| 5. | Ready to Eat | Bacterial Count | IS 5402-2012 | \geq 10 cfu / g |
| | excruded Snacks IS: 12566 :1989, RA 1999 | Coliform | IS 5401 Part - I | \geq 1 cfu / 0.1g |
| | | E. coli | IS 5887(Part-1):1976, (RA 2005) | Present or Absent / g |
| | | Salmonella | IS 5887(Part-3):1999, (RA 2005) | Present or Absent / 25g |
| | | Shigella | IS 5887 (Part-7): 1999, (RA 2005) | Present or Absent / 25g |
| 6. | Egg Powder IS:4723 – 1978, RA 2000 | Total Plate Count | IS 5402-2012 | ≥10 cfu per gm |
| | | Yeast and mould | IS 5403-1999, (RA 2005) | ≥1cfu per 0.1 gm |
| | | Coliform count | IS 5401 (Part - I) 2002 | \geq 1 cfu per 0.1 gm |
| | | Salmonella | IS 5887 (Part-3) 1999, (RA 2005) | Absent or Present / 25g |
| 7. | Chocolates | Staphylococcus aureus | IS 5887 (Part-2) 1976(RA 2005) | Absent or Present /10 gm |
| | IS 1163 : 1992, RA 1998 | Salmonella | IS 5887 (Part 3) 1999, (RA 2005) | Absent or Present / 25gm |
| | | E. coli | IS 5887 (Part-1)1976, (RA 2005) | Absent or Present /10 gm |
| | | Yeast and mould count | IS 5403-1999, (RA 2005) | ≥10 cfu per gm |

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|-------|---|-------------------------|---|---|
| 8. | Quick frozen Vegetables | Bacterial count | IS 5402-2012 | ≥10cfu/gm |
| | IS-14267 | Coliform count | IS 5401 (Part-I) 2002 | ≥ 1 cfu/0.1 gm |
| | (P-1, 2, 3, 4)-1995 (RA 2005) | E. coli | IS 5887-Part-I-1976, (RA 2005) | Absent or Present/gm |
| | | S. aureus | IS 5887-Part-8-Sec-I-2002 | Absent or Present/gm |
| 9. | Non alcoholic | Total Plate Count | IS 5402-2012 | ≥ 1 CFU/ ml |
| | beverages IS-13019-1991 / Non alcoholic beverage and Carbonated | Coliform count | IS 5401-Part-I-2002 | ≥1CFU/ ml or Present/Absent /100m |
| | | Yeast & Mould count | IS 5403-1999 | ≥ 1 CFU/ ml |
| | beverages | Vibrio cholera | IS 5887-Part-5-1976, (RA 2005) | Present or Absent/ml |
| | | Vibrio parahaemolyticus | IS 5887-Part-5-1976, (RA 2005) | Present or Absent/ml |
| 10. | Edible full fat Soya | Total Bacterial Count | IS 5402-2012 | ≥10 CFU/gm |
| | flour IS-7837-1975, | Coliform Count | IS 5401 (Part-I) 2002 | ≥10 CFU/gm |
| | RA 1999 | Salmonella | IS 5887 (Part-3) 1999, (RA 2005) | Present or Absent |
| 11. | Cocoa Powder | Yeast & Mould Count | IS 5403-1999, (RA 2005) | ≥10CFU/gm |
| | IS-1164-1986, RA 2001 | E. coli | IS 5887 (Part-I) 1976 (RA 2005) | Present or Absent/10 |
| | | Salmonella | IS 5887 (Part-3) 1999 (RA 2005) | Present or Absent/gm |
| | | S. aureus | IS 5887 (Part-2) 1976 (RA 2005) | Present or Absent/gm |
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|-------|-------------------------------|---|---|--|
| 12. | Cooked food / | Total Bacterial count | IS 5402-2012 | ≥10 cfu/gm |
| | (Veg. / Non veg.) | Coliform Count | IS 5401(Part-1) 2002 | ≥10 cfu/gm |
| | | E. coli | IS 5887(Part-I) 1976, (RA 2005) | Present/Absent/gm/25 gm |
| | | Salmonella | IS 5887(Part-3) 1999, (RA 2005) | Present/Absent/gm/25 gm |
| | | Shigella | IS 5887(Part-7) 1999, (RA 2005) | Present/Absent/gm/25 gm |
| | | S. aureus | IS 5887(Part-2) 1976, (RA 2005) | Present/Absent/gm/25 gm |
| | | Yeast & Mould count | IS 5403-1999, (RA 2005) | ≥10 cfu/gm |
| 13. | Milk & Dairy Products | Methylene blue reduction Test (MBRT) | IS 1479(Part-3) | Poor-Very good (1/2 h to 5h) |
| | | Total Plate count/ Standard Plate count | IS 5402-2012 or IS 1479(Part-3) | ≥1 cfu /ml or 0.1 g ≥10 cfu /gm |
| | | Psychrophillic bacteria Count | IS 1479(Part-3)- 1977 | ≥1cfu /ml or 0.1 g ≥10 cfu /gm |
| | | Thermophillic count | IS 1479(Part-3)- 1977 IS 5402-2012 | \geq 1 cfu /ml or 0.1 g \geq 10 cfu /gm |
| | | Coliform count | IS 5401-2002, IS 2802-1964, IS 1479 (Part-3)-1977 | ≥1 cfu /ml or 0.1 g ≥10 cfu /gm |

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| | | Coagulase positive Staphylococci or Staphylococcus aureus | IS 5887 (Part-8)-2002, ISO: 6888(1):1999, or ISO:6888 (2):1999, IS 5887(Part-2):1976 | | | /ml or 0.1 g sent/Absent/ gm | |
| | | Salmonella | IS 5887(Part-3)-1999, (RA 2 or ISO: 6579-1993 | 2005) | Presen | t or Absent/ 25 | |
| | | Shigella | IS 5887(Part-7)-1999, (RA 2 | 2005) | Presen | t or Absent/ 25 | |
| | | Yeast & Mould | IS 5403-1999, (RA 2005) | | ≥1 cfu ≥10 cf | /ml/0.1 gm or u /gm | |
| | | Escherichia coli | IS 5887(Part 1)-1976, (RA 2 | .005) | Presen | t or Absent/gm | |
| | | Sulphite reducing bacteria | ISO 15213-2003 (E) | | | u/gm or /ml/0.1gm | |
| | | Faecal Streptococci | IS 5887(Part II)-1976, (RA 2 | 2005) | | g or Present or /gm/0.1gm | |
| | | Listeria spp. | AOAC-995.22 | | Presen | t or Absent/ 25 | |
| | | Listeria monocytogenes | IS 14988 (Part-1) 2001 | | Presen | t/Absent/gm/25 | |
| | | Enterobacteriaceae | ISO:7402:1993 ISO: 21528-1 | | ≥10 cf | t/Absent/gm/ | |

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|------|---|--|---|---|
| 14. | Condensed Milk Partly skimmed and Skimmed | Accelerated storage test (canned food) | IS 1166-1986, (RA 2003) | Complies/ Does not comply |
| | condensed Milk IS- 1166-1986, RA 2003 | Determination of the Size of lactose crystal | IS 1166-1986, (RA 2003) | % age of lactose crystal, which are > 15 μm in size |
| 15. | Infant milk | Bacterial count | IS 5402-2012 | ≥10 CFU/gm |
| | substitute IS-14433-2007 | Coliform count | IS 5401 (Part-I) 2002 | \geq 1 CFU /0.1 gm |
| | | S. aureus | IS 5887 (Part-2) 1976, (RA 2005) | Present/Absent/0.1 gm |
| | | Salmonella | IS 5887 (Part3)1999, (RA 2005) | Present or Absent/25 gm |
| | | Shigella | IS 5887 (Part-7) 1999, (RA 2005) | Present or Absent/25 gm |
| | | Yeast & Mould Count | IS 5403-1999, (RA 2005) | \geq 1 cfu/0.1 gm or Present/Absent/0.1 g |
| | | E. coli | IS 5887 (Part-1)-1976, (RA 2005) | Present/Absent/0.1 gm |
| 16. | U.V, Based water purifier IS: 14724-1999 | Microbiological Test Using M. luteus (MTCC-2470) as Challange organism | IS 14724-1999 (Cl.6.2.2.3.) | 0-100% reduction |

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| 17. | Disinfectant fluids, phenolic type IS-1061-1997, RA 2005 | Rideal Walker Coefficient (RW) | IS 1061-1997- (Annex-B) (RA 2005) | | RWC | 1-26.3 |
| | KA 2005 | Staphylococcal coefficient | IS 1061-1997 (Annex-C) (RA 2005) | | SC 1-2 | 26.3 |
| 18. | Herbal Products (Ayurvedic, | Total aerobic microbial count (Plate count for bacteria & Fungi) | Protocol for testing of ASU medicine, 2007 | | ≥10 cf | $u/gm \text{ or } \ge 1 \text{ cfu/ml}$ |
| | Siddha, Unani medicine)- Microbial Limit | E. coli | Protocol for testing of ASU medicine, 2007 | | Presen | t/Absent/gm |
| | Tests | Salmonella | Protocol for testing of ASU medicine, 2007 | | Presen | t/Absent/gm |
| | | S. aureus | Protocol for testing of ASU medicine, 2007 | | Presen | t/Absent/gm |
| 19. | Food products (Raw and finish | Pseudomonas aeruginosa | Protocol for testing of ASU medicine, 2007 | | Presen | t/Absent/gm |
| a. | products) Food Products | Escherichia coli | AOAC 18 th Edition 991.14 | | $\ge 10 \text{ cm}$ $\ge 1 \text{ cfu}$ | fu / gm ı / ml |
| | | Staphylococcus aureus | AOAC 18 th Edition 2003.0' | 7 | $\ge 10 \text{ cm}$ $\ge 1 \text{ cfm}$ | fu / gm ı / ml |
| | | Salmonella | AOAC 18 th Edition 998.09 | | Presen | t or Absent/25gm |

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|-------------------------|---|--|
| Aerobic microbial count | AOAC 18 th Edition 990.12 989.10 | ≥ 10 cfu / gm ≥ 1 cfu / ml |
| Coliform count | AOAC 18 th Edition 991.14, 989.10 | \geq 10 cfu / gm \geq 1 cfu / ml |
| Total Plate count | WI/DTH/MICRO/030 WI/DTH/MICRO/031 (Ref. APHA-Food 4 th ed.) | \geq 10 cfu / Xcm ² |
| Total coliform count | WI/DTH/MICRO/030 WI/DTH/MICRO/031 (Ref. APHA-Food 4 th ed.) | \geq 10 cfu / Xcm ² |
| S. aureus count | WI/DTH/MICRO/030 WI/DTH/MICRO/031 (Ref. APHA-Food 4 th ed.) | \geq 10 cfu / Xcm ² |
| Salmonella | IS 5887(Part-3)-1999 | Present or absent gm/25gm |
| s Total Plate count | IS 5402:2012 | \geq 10 cfu / gm |
| E. coli | IS 5887 (Part-1)-1976 | Present or Absent gm/25gm |
| S. aureus | IS 5887 (Part-2)-1976 IS 5887(Part-8) Sec-1:2002 | Present or Absent gm/25gm ≥10 cfu/gm or ≥1 cfu 0.1gm |
| d | Coliform count Total Plate count Total coliform count S. aureus count Salmonella ts Total Plate count E. coli | Aerobic microbial countAOAC 18th Edition 990.12 989.10Coliform countAOAC 18th Edition 991.14, 989.10Total Plate countWI/DTH/MICRO/030 WI/DTH/MICRO/031 (Ref. APHA-Food 4th ed.)Total coliform countWI/DTH/MICRO/030 WI/DTH/MICRO/031 (Ref. APHA-Food 4th ed.)S. aureus countWI/DTH/MICRO/030 WI/DTH/MICRO/031 (Ref. APHA-Food 4th ed.)S. aureus countWI/DTH/MICRO/030 WI/DTH/MICRO/031 (Ref. APHA-Food 4th ed.)S. aureus countWI/DTH/MICRO/030 WI/DTH/MICRO/031 (Ref. APHA-Food 4th ed.)SalmonellaIS 5887(Part-3)-1999dsTotal Plate countIS 5402:2012 E. coliE. coliIS 5887 (Part-1)-1976S. aureusIS 5887 (Part-2)-1976 |

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|-------|-------------------------------|-------------------------|---|---|
| | Fish and Sea Foods | Salmonella | IS 5887(Part-3)-1999 | Present or Absent gm/ 25gm |
| | | Shigella | IS 5887(Part-7)-1999 | Present or Absent gm/25gm |
| | | V. cholerae | IS 5887 (Part-5):1976 | Present or Absent gm/25gm |
| | | V. parahaemolyticus | IS 5887(Part-5)-1976 | Present or Absent gm/25gm |
| 23. | Meat & Meat Products | Total Plate Count | IS 5402-2012 | \geq 10 cfu / gm |
| | | E. coli | IS 5887(Part-1)-1976 | Present or Absent gm/25gm |
| | | Salmonella | IS 5887(Part-3)-1999 | Present or Absent gm/25gm |
| | | S. aureus | IS 5887(Part-2)-1976 | Present or Absent gm/25gm |
| | | Cl. perfringens | IS 5887(Part-4)-1976 | Present or Absent gm/25gm |
| | | Yeast & Mould Count | IS 5403-1999 | \geq 10 cfu / gm |
| | | L. monocytogenes | IS 14988(Part-1)-2001 | Present or Absent gm/25gm |

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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 |
|-------|--|--|---|---|
| 24. | Thermally processed fruits and vegetable products | Total Plate Count | IS 5402-2012 | $\geq 1 \text{ cfu/ml}$ $\geq 10 \text{ cfu/gm or} \geq 1 \text{ cfu/0.1gm}$ |
| | products | Incubation Test at 37°C for 10 days & 55°C for 7 days | IS 2860:1964 | pH:1-14 |
| 25. | Dehydrated fruits & vegetable products, soup powder, desiccated coconut powder | Total Plate Count | IS 5402-2012 | \geq 10 cfu/gm |
| 26. | Fruits & Vegetable Products including beverages, | Total Plate Count | IS 5402-2012 | \geq 10 cfu/gm or \geq 1 cfu/0.1gm/ml |
| | synthetic products, Table olives, | S. aureus | IS 5887(Part-2)-1976 | Present or Absent ml/gm/25 gm/25ml |
| | Raisins, Pista- chio nuts, Dates , Dry fruits & nuts, | Salmonella | IS 5887(Part-3)-1999 | Present or Absent ml/gm/25gm/25ml |
| | vinegar. | Shigella | IS 5887(Part-7)-1999 | Present or Absent ml/gm/25gm/25ml |
| | | E. coli | IS 5887 (Part-1)-1976 | Present or Absent gm/ml/25gm/25ml |
| | | Vibrio cholera | IS 5887(Part-5)-1976 | Present or Absent gm/ml/25gm/25ml |
| | | | | |

| Lab | oratory | Delhi Test House, A-62 Delhi | 2/3, G. T. Karnal Road, I | ndustrial Ar | ea, Azadpur, |
|---|--|---------------------------------|---|--------------|------------------------------------|
| Acc | reditation Standar | d ISO/IEC 17025: 2005 | | | |
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| | | | | | |
| S.No. | Product / Material of Test | Specific Test Performed | Test Method Specificati against which tests are performed | | ge of Testing / ts of Detection |
| | | | against which tests are | | |
| | Material of Test DRUGS & PHARMAC Paracetamol syrup | | against which tests are | Limit | |
| III. D | Material of Test | CEUTICALS | against which tests are performed | Limit | nt or Absent/gm/ml |

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