

Laboratory	AES Laboratories Pvt. Ltd., B-118, Phase-II, Noida, Uttar Pradesh		
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I. FOOD & AGRICULTURAL PRODUCTS				
1.	Beverages (Non Alcoholic Drinks)	Coliform	IS 5401(Part 1) 2002 (RA 2007)	≥ 1 cfu/ ml/100 ml Present/ Absent/ml/100ml
		Total Bacterial Count	IS 5402: 2002 (RA 2007)	≥1 cfu/ml
		E. coli	IS 5887 (Part I): 1976 (RA 2009) AOAC 991.14	Present/ Absent /ml / 100 ml
		Yeast & Mould	IS 5403: 1999 (RA 2005)	≥ 1cfu/ml/100 ml Present/ Absent /ml / 100 ml
2.	Spices (Whole and Ground)	Aerobic plate count	IS 5402: 2002 (RA 2007)	≥ 10 cfu/g
		Coliform	IS 5401: 2002 (RA 2007) / AOAC 991.14	≥ 10 cfu/g Present/ Absent per gm
		Yeast & Mould	IS 5403: 1999 (RA 2005)	≥ 10 cfu/g
		Total Plate Count	IS 5402: 2002 (RA 2007)	≥10 cfu/g
		E. coli	IS 5887 (Part I): 1976 (RA 2009)/ AOAC 991.14	≥10 cfu/g or ≥1 cfu/g or Present/ Absent per gm Present/ Absent/25 gm
		Salmonella	IS 5887 (Part III): 1999 (RA 2009) AOAC 967.25, 26, 27, 28	Present / Absent per 25g
		S. aureus	IS 5887 (Part II): 1976 (RA 2009) IS 5887 (Part VIII): 2002 (RA 2007)	≥10 cfu/ g Present/ Absent/1.0 gm
	Spices (Whole)	Free From mould /Mould Growth/ Mould Affected	AES/TD/SOP/MIC 30.0 Issue No.01, Issue Date-03.11.2014	Present/Absent

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		Shigella	IS 5887 (Part VII): 1999 (RA 2009)	Present / Absent per 25g
		Faecal streptococci	IS 5887 (Part 2): 1976(RA 2009)	Absent / Present/gm
3.	Honey & Honey Products	Total Plate Count/ Aerobic Plate Count	IS 5402: 2002 (RA 2007)	≥10 cfu/g
		Coliform	IS 5401 (Part I): 2002 (RA 2007)/ AOAC 991.14	≥10 cfu/g Present/ Absent per gm
		Yeast & mould	IS 5403: 1999 (RA 2005)	≥10 cfu/g
4.	Milk & Dairy Products Milk (sterilized, flavored, pasteurized), cream, butter, ghee, butter milk, kulfi, lassi, sweetened condensed milk, Infant milk food, malted milk food, milk cereal based weaning food, infant milk substitutes, processed cereal based weaning food, ice cream, skimmed milk powder, whole milk powder, partly skimmed milk powder –standard and extra grade, paneer, khoa, burfi,	Aerobic plate count	IS 5402: 2002 (RA 2007)	>1 cfu/ml or >10 cfu/gm
		Coliform bacteria	IS 5401: 2002 (RA 2007) / AOAC 991.14	>1 cfu/ml or >10 cfu/gm Absent/Present/gm(ml) / 1 gm(ml)
		E.coli	IS 5887 (Part 1): 1976 (RA 2009) / AOAC 991.14	>1 cfu/ml/ ml or >10 cfu/gm ≥ MPN/gm or per ml Absent/Present/gm (ml) / 1 gm (ml) / 25 gm (ml) / 50 gm (ml)
		Faecal streptococci	IS 5887 (Part 2): 1976 (RA 2009) / IS 15186: 2002 (RA 2009)	>1 cfu/ml or >10 cfu/gm Absent/Present/gm (ml) / 1 gm (ml) / 25 gm (ml)
		Listeria monocytogenes	IS 14988 (Part 1) : 2001	Absent / Present per 1 gm (ml) / 25 gm (ml)/ 50g/ml
		Listeria monocytogenes	IS 14988 (Part 2) : 2002	>1 cfu/ml or >10 cfu/gm

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	peda, whey, chesse, casein) (sterilized, flavored, pasteurized), cream, butter, ghee, butter milk, kulfi, lassi, sweetened condensed milk, Infant milk food, malted milk food, milk cereal based weaning food, infant milk substitutes, processed cereal based weaning food, ice cream, skimmed milk powder, whole milk powder, partly skimmed milk powder –standard and extra grade, paneer, khoa, burfi, peda, whey, chesse, casein)	Pseudomonas aeruginosa	IS 13428 (Annexure D): 2005 (RA 2009)	Absent / Present per 1 gm (ml) / 25 gm (ml)
		Salmonella	IS 5887 (Part 3): 1999 (RA 2009) / AOAC 967.25, 26, 27, 28	Absent / Present per 25 gm (ml) / 375 gm/ 50 gm (ml)/ 250 gm (ml)
		Shigella	IS 5887 (Part 7): 1999 (RA 2009)	Absent / Present per gm (ml) /25 gm(ml) / 50 gm (ml)/ 250 gm (ml)
		Staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2009) IS 5887 (Part 8) : 2002 (RA 2007)	>1 cfu/ml or >10 cfu/gm Absent/Present/ 1.0 gm (ml)
		Sulphite reducing anaerobes	IS 13428 (Annexure C): 2005 / IS 5887 (Part IV):1999 (RA 2005)	Absent/Present/gm (ml) / 25 gm (ml)
		Vibrio cholerae	IS 5887 (Part 5): 1976 (RA 2005)	Absent/Present/gm (ml) / 25 gm (ml)
		Vibrio parahaemolyticus	IS 5887 (Part 5): 1976 (RA 2005)	Absent/Present/gm (ml) / 25 gm (ml)
		Yeast & Mould	IS 5403: 1999 (RA 2005)	>1 cfu/ml or >10 cfu/gm
		Aerobic Spore formers	Canada-Laboratory Procedure MFLP-44 APHA:ED17:2004	≥ 10 cfu /gm Absent / Present

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		Anaerobic Spore formers	Canada-Laboratory Procedure MFLP-44/ ISO 15213:2003/ APHA:ED17:2004	≥ 10 cfu /gm Absent / Present
		Bacillus cereus	IS 5887 (Part VI): 1999 AOAC 980.31	>10 cfu/gm Absent/ Present per gm
		Clostridium Pefringenes	IS 5887 (Part IV): 1999 (RA 2005)	Absent / Present/25gm/gm
		Clostridium Botulinum	IS 5887 (PartIV): 1999 (RA 2005)	Absent / Present/25gm/gm
5.	Ready to Eat/ Cooked Food/ Processed Food Products	Total Bacterial Count / Total Plate Count/ Aerobic Plate Count	IS 5402-2002 (RA 2007)	≥ 10 cfu/g
		Coliform	IS 5401(Part1): 2002 (RA 2007)/ AOAC 991.14	≥ 10 cfu/g Present/ Absent/gm (ml)
		E. coli	IS 5887(Part I): 1976 (RA 2009) / AOAC 991.14	Present/ Absent/gm/25g ≥ 10 cfu/g
		Salmonella	IS 5887(Part III): 1999 (RA 2005) AOAC 967.26	Present/ Absent/25g
		Listeria monocytogenes	IS 14988 (Part1) : 2001 AOAC 993.12	Absent / Present per 1 gm (ml) /25 gm (ml)
		Listeria monocytogenes	IS 14988 (Part 2) : 2002	>1 cfu/ml or >10 cfu/gm

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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
		S. aureus	IS 5887(Part II): 1976 (RA 2005) IS 5887(VIII): 2002 AOAC 975.55	≥ 1 cfu or ≥ 10cfu Present/ Absent/ 1.0 gm (ml)
		Bacillus cereus	IS 5887 (Part VI): 1999 AOAC 980.31	Absent/ Present per gm
		Yeast & mould	IS 5403: 1999 (RA 2005) AOAC 995.81	≥10 cfu/g
		Shigella	IS 5887 (VII): 1999 (RA 2005)	Present / Absent per 25g
		Vibrio cholerae	IS 5887 (Part 5): 1976 IS 15188:2002 (RA 2009)	Absent / Present/ 25gm/gm
		Vibrio parahaemolyticus	IS 5887 (Part 5): 1976 (RA 2005) / IS 15188: 2002 (RA 2009)	Absent / Present / 25 gm / gm
		Faecal Streptococci	IS 5887 (Part2): 1976 (RA 2005) IS 15186:2002 (RA 2009)	≥10 cfu/g Present/ Absent/ 1.0 gm (ml)
		Pseudomonas Aeruginosa	IS 13428 (Annexure D) :2005 (RA 2009)	Present / Absent per gm
		Sulphite reducing anaerobes	IS 13428 (Annexure C): 2005/ IS 5887 (Part IV):1999 (RA 2005)	Absent/Present/gm (ml) / 25 gm (ml)
		Clostridium Pefringenes	IS 5887 (Part IV):1999 (RA 2005)	Absent / Present/ 25gm/gm
		Clostridium Botulinum	IS 5887 (Part IV):1999 (RA 2005)	Absent / Present/ 25gm/gm

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6.	Raw Food (Fruit & Vegetables)	Total Bacterial Count /Total Plate Count/ Aerobic Plate Count	IS 5402-2002 (RA 2007)	≥ 10 cfu/g
		Coliform	IS 5401(Part 1): 2002 (RA 2007)/ AOAC 991.14	≥ 10 cfu/g Present/ Absent/gm (ml)
		E. coli	IS 5887(Part 1): 1976 (RA 2005) AOAC 991.14,	Present/ Absent/gm/25g ≥ 1 cfu
		Salmonella	IS 5887(Part 3): 1999 (RA 2005) AOAC 967.25	Present/ Absent/25g
		Yeast & mould	IS 5403: 1999 (RA 2005)	≥10 cfu/g
		Shigella	IS 5887 (Part 7): 1999 (RA 2005)	Present / Absent per 25g
		S. aureus	IS 5887 (Part II): 1976 (RA 2009) IS 5887 (VIII):1976	Present/Absent/1.0 gm ≥ 1 cfu/or ≥ 10 cfu
		Vibrio cholerae	IS 5887 (Part 5): 1976 IS 15188:2002	Absent / Present/ 25gm/gm
		Vibrio parahaemolyticus	IS 5887 (Part 5): 1976 (RA 2005) /IS 15188:2002(RA 2009)	Absent / Present / 25 gm/ gm
		Faecal Streptococci	IS 5887 (Part 2): 1976 (RA 2005) IS 15186: 2002 (RA 2009)	≥10 cfu/g Present/ Absent/ 1.0 gm (ml)
Bacillus cereus	IS 5887 ((Part 6): 1999 AOAC 980.31	≥10 cfu/g Absent/ Present per gm		

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7.	Cereals, Pulses & Cereal Products (Including Maize, Rice, brown, polished, Wheat flour and other flours)	Aerobic plate count	IS 5402: 2002 (RA 2007)	≥ 10 cfu/g
		Coli form	IS 5401(Part1): 2002(RA 2007)/ AOAC 991.14	≥ 10 cfu/g Present/ Absent/gm
		Yeast & Mould	IS 5403-1999 (RA 2005)	≥ 10 cfu/g
		E. coli	IS 5887(Part I): 1976(RA 2009)/ AOAC 991.14	Present/ Absent/25g ≥ 10 cfu/g
		Salmonella	IS 5887(Part 3): 1999 (RA 2005) / AOAC 998.09,	Present/ Absent/25g
		S. aureus	IS 5887(Part 2): 1976 (RA 2005) / IS 5887(VIII):1976	Present/Absent/1.0 gm ≥ 10 cfu
		Listeria monocytogenes	IS 14988 (Part1) : 2001	Absent / Present per 1 gm (ml) /25 gm (ml)
		Listeria monocytogenes	IS 14988 (Part 2) : 2002	>1 cfu/ml or >10 cfu/gm
		Shigella	IS 5887 (Part 7) 1999 (RA 2005)	Present / Absent/ 25g
8.	Nut & Resin Products	Bacillus cereus	IS 5887(Part 6) :1999 (RA 2005)	Present/ Absent/gm
		Total Bacterial Count / Total Plate Count/ Aerobic Plate Count	IS 5402: 2002 (RA 2007)	≥ 10 cfu/g
		Coliform	IS 5401(Part1): 2002(RA 2007)/ AOAC 991.14	≥ 10 cfu/g Present/ Absent per gm
		E. coli	IS 5887((Part 1): 1976 (RA 2009) / AOAC 991.14	Present/ Absent/gm/ 25g≥ 10 cfu/g

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		S. aureus	IS 5887(II): 1976 (RA 2005) IS 5887(VIII): 2002 AOAC 975.55	≥ 10cfu Present/ Absent/gm
		Yeast & mould	IS 5403: 1999 (RA 2005) AOAC 995.81	≥10 cfu/g
	Dry Fruit & Nuts (Whole)	Free From mould /Mould Growth/ Mould Affected	AES/TD/SOP/MIC 31.0 Issue No.01, Issue Date-03.11.2014	Present/Absent
9.	Fish & Sea Foods	Total Bacterial Count / Total Plate Count/ Aerobic Plate Count	IS 5402: 2002(RA 2007)	≥ 10 cfu/g
		Coliform	IS 5401(Part1): 2002(RA 2007)/ AOAC 991.14	≥ 10 cfu/g Present/ Absent per gm
		E. coli	IS 5887 (Part I): 1976 (RA 2009) / AOAC 991.14	Present/ Absent/gm/25g ≥ 10 cfu/g
		Salmonella	IS 5887(Part 3): 1999 (RA 2005) AOAC 967.26	Present/ Absent/25g
		Shigella	IS 5887 (Part 7): 1999 (RA 2005)	Present / Absent per 25g
		S. aureus	IS 5887 (Part 2): 1976 (RA 2005) IS 5887 (Part 8): 2002 AOAC 975.55	≥ 1 cfu or ≥ 10 cfu Present/ Absent/gm
		Faecal streptococci	IS 5887 (Part 2): 1976(RA 2009)	Absent / Present/gm
		Listeria monocytogenes	IS 14988 (Part 1) : 2001 AOAC 993.12	Absent / Present / 1 gm /25 gm
		Listeria monocytogenes	IS 14988 (Part 2) : 2002	>10 cfu/gm

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		Vibrio cholerae	IS 5887 (Part 5): 1976 (RA 2009)/ IS 15188:2002 (RA 2009)	Absent / Present/ 25gm/gm
		Vibrio parahaemolyticus	IS 5887 (Part 5): 1976 (RA 2009)/ IS 15188:2002(RA 2009)	Absent / Present/ 25gm/gm
		Clostridium Pefringenes	IS 5887 (Part 4):1999 (RA 2005)	Absent / Present/ 25gm/gm
		Clostridium Botulinum	IS 5887 (Part V):1999 (RA 2005)	Absent / Present/ 25gm/gm
		Bacillus cereus	IS 5887(VI): 1999 AOAC 980.31	>10 cfu/gm Absent/ Present per gm
		Yeast & mould	IS 5403: 1999 (RA 2005) AOAC 995.81	≥10 cfu/g
		Pseudomonas Aeruginosa	IS 13428 (Annexure D) :2005 (RA 2009)	Present / Absent per gm
10.	Poultry & Poultry Products	Total Bacterial Count / Total Plate Count/ Aerobic Plate Count	IS 5402: 2002 (RA 2007)	≥ 10 cfu/g
		Coliform	IS 5401(Part1): 2002 (RA 2007)/ AOAC 991.14	≥ 10 cfu/g Present/ Absent per gm
		E. coli	IS 5887 (Part 1): 1976 (RA 2009) / AOAC 991.14	Present/ Absent/gm/25g ≥ 10 cfu/g
		Salmonella	IS 5887(Part 3): 1999 (RA 2005) AOAC 967.26	Present/ Absent/25g
		Shigella	IS (Part 7): 1999 (RA 2005)	Present / Absent per 25g

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		S. aureus	IS 5887(Part 2): 1976 (RA 2005) IS 5887(Part 8): 2002 AOAC 975.55	≥ 10cfu Present/ Absent/gm
		Faecal streptococci	IS 5887 (Part 2): 1976(RA 2009)	Absent / Present/gm
		Listeria monocytogenes	IS 14988 (Part 1) : 2001 AOAC 993.12	Absent / Present / 1 gm /25 gm
		Listeria monocytogenes	IS 14988 (Part 2) : 2002	>10 cfu/gm
		Vibrio cholerae	IS 5887 (Part 5): 1976 (RA 2009)/ IS 15188:2002(RA 2009)	Absent / Present/ 25gm/gm
		Vibrio parahaemolyticus	IS 5887 (Part 5): 1976 (RA 2009)/ IS 15188:2002(RA 2009)	Absent / Present/ 25gm/gm
		Clostridium Peفرingenes	IS 5887 (Part 4):1999 (RA 2005)	Absent / Present/ 25gm/gm
		Clostridium Botulinum	IS 5887 (Part 4):1999 (RA 2005)	Absent / Present/ 25gm/gm
		Bacillus cereus	IS 5887(Part 6): 1999 AOAC 980.31	≥10 cfu/g Absent/ Present per gm
		Yeast & mould	IS 5403: 1999 (RA 2005) AOAC 995.81	≥10 cfu/g
		Pseudomonas Aeruginosa	IS 13428 (Annexure D) :2005 (RA 2009)	Present / Absent per gm

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11.	Egg & Egg Products	Total Bacterial Count / Total Plate Count/ Aerobic Plate Count	IS 5402: 2002 (RA 2007)	≥ 10 cfu/g
		Coliform	IS 5401(Part1): 2002(RA 2007)/ AOAC 991.14	≥ 10 cfu/g Present/ Absent per gm
		E. coli	IS 5887(Part I): 1976 (RA 2009) / AOAC 991.14	Present/ Absent/25g ≥ 10 cfu/g
		Salmonella	IS 5887(Part 3): 1999 (RA 2005) AOAC 967.26	Present/ Absent/25g
		Shigella	IS 5887 (Part 7): 1999 (RA 2005)	Present / Absent per 25g
		S. aureus	IS 5887 (Part 2): 1976 (RA 2005) IS 5887 (VIII): 2002 AOAC 975.55	≥ 10cfu Present/ Absent/gm
		Faecal streptococci	IS 5887 (Part 2): 1976(RA 2009)	Absent / Present/gm
		Listeria monocytogenes	IS 14988 (Part 1) : 2001 AOAC 993.12	Absent / Present / 1 gm /25 gm
		Listeria monocytogenes	IS 14988 (Part 2) : 2002	>10 cfu/gm
		Vibrio cholerae	IS 5887 (Part 5): 1976 (RA 2009)/ IS 15188: 2002 (RA 2009)	Absent / Present/ 25gm/gm
		Vibrio parahaemolyticus	IS 5887 (Part 5): 1976 (RA 2009)/ IS 15188:2002 (RA 2009)	Absent / Present/ 25gm/gm
Clostridium Pefringenes	IS 5887 (Part 4):1999 (RA 2005)	Absent / Present / 25gm/gm		

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		Clostridium Botulinum	IS 5887 (Part 4):1999 (RA 2005)	Absent / Present/ 25gm/gm
		Bacillus cereus	IS 5887(Part 6): 1999 AOAC 980.31	>10 cfu/gm Absent/ Present / gm
		Yeast & mould	IS 5403: 1999 (RA 2005) AOAC 995.81	≥10 cfu/g
		Pseudomonas Aeruginosa	IS 13428 (Annexure D) :2005 (RA 2009)	Present / Absent per gm
II. POLLUTION & ENVIRONMENT				
1.	Effluents / Waste Water	Aerobic plate count / Total Plate Count	IS 5402: 2002 (RA 2007)	≥1 cfu/ml
		Coliform bacteria	IS 5401(Part1):2002 (RA 2007) IS 1622: 1981(RA 2009) AOAC 989.10	≥1 cfu/ml ≥1MPN /100 ml Absent / Present/ 100 ml
		E.coli	IS 5887 (Part 1): 1976 (RA 2009) IS 1622: 1981(RA 2009) AOAC 991.14	≥1 cfu/ml ≥1MPN /100 ml Absent/Present / ml / 100 ml/ 250 ml
		Faecal strepococci	IS 5887 (Part 2): 1976 (RA 2009) IS 15186: 2002 RA 2009/ IS 1622: 1981(RA 2009)	≥1 cfu/ml Absent/Present/ml / 100 ml / 250 ml ≥1MPN /100 ml

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		Faecal coliform	IS 1622: 1981(RA 2009) APHA 9221 E	≥ 1 cfu/ml Absent / Present/ml/ 100 ml/ 250 ml/ MPN/100ml
2.	SWAB (Hand Swab, Surface Swab, Equipment Swab)	Aerobic plate count / Total Plate Count	IS 5402: 2002 (RA 2007)	≥ 1 cfu/cm ²
		Coliform bacteria	IS 5401(Part1): 2002 (RA 2007) IS 1622: 1981(RA 2009) AOAC 989.10	≥ 1 cfu/ cm ² Absent / Present / cm ²
		E.coli	IS 5887 (Part1): 1976 (RA 2009) IS 1622: 1981(RA 2009) AOAC 991.14	Absent/Present per cm ²
		Yeast & mould	IS 5403: 1999 (RA 2005) AOAC 995.81	≥ 1 cfu/ cm ²
		S. aureus	IS 5887 (Part 2): 1976 (RA 2005) IS 5887 (Paert 8): 2002 AOAC 975.55	≥ 1 cfu/ cm ² Absent / Present / cm ²
		Faecal Streptococci	IS 5887 (Part 2): 1976 (RA 2005) IS 15186:2002 (RA 2009)	≥ 1 cfu/ cm ² Absent / Present / cm ²
		Salmonella	IS 5887 (Part 3): 1999 (RA 2005) AOAC 967.26	Absent / Present per cm ² / 100 cm ² /Full Surface
		Shigella	IS 5887 (Part 7): 1999 (RA 2005)	Present / Absent per cm ²
		Listeria monocytogenes	IS 14988 (Part1) : 2001 AOAC 993.12	Absent / Present per cm ² / 100 cm ² /Full Surface

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III. TOXICOLOGY				
1.	ENVIRONMENT BIOLOGY (Industrial Effluents and Waste Waters)	Toxicity to fish	IS 6582 :1971 (RA 2009)	TLM
IV. WATER				
1.	Drinking Water/ Potable Water	Aerobic plate count / Total Plate Count	IS 5402: 2002(RA 2007)	≥1 cfu/ml
		Coliform bacteria	IS 5401(Part 1):2002 (RA 2007) IS 1622: 1981(RA 2009) AOAC 989.10	≥1 cfu/ml ≥1MPN /100 ml Absent / Present/100 ml
		E.coli	IS 5887 (Part 1): 1976 (RA 2009) IS 1622: 1981(RA 2009) AOAC 991.14	≥1 cfu/ml ≥1MPN /100 ml Absent/Present/ ml / 100 ml/ 250 ml
		Faecal streptococci	IS 5887 (Part 2): 1976 (RA 2009) IS 15186: 2002 (RA 2009) IS 1622: 1981(RA 2009)	≥1 cfu/ml Absent/Present/ml/ 100 ml/ 250 ml ≥1MPN /100 ml
		Faecal coliform	IS 1622: 1981(RA 2009) APHA:9221 E	≥1MPN /100 ml Absent / Present/ml/ 100ml/ 250 ml
		Pseudomonas aeruginosa	IS 13428 (Annexure D): 2005 (RA 2009)	Absent/Present / ml / 100 ml / 250 ml
		Salmonella	IS 5887 (Part 3): 1999 (RA 2009) / IS 15187:2002(RA 2009) / AOAC 967.25, 26, 27, 28	Absent / Present/ml/ 100 ml/ 250 ml

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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
		Shigella	IS 5887 (Part 7): 1999 (RA 2009) / IS 15187:2002	Absent / Present/ml/ 100ml/250 ml
		Standard Plate Count	IS 1622:1981(RA 2009)/ IS 3328:1993 (RA 2008)	≥1 cfu/ml
		Staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2009) / IS 15186:2002 (RA 2009) / IS 5887 (Part 8): 2002	Absent / Present /ml/ 100ml/ 250 ml
		Sulphite reducing anaerobes	IS 13428 (Annexure C): 2005 (RA 2009) / IS 15188:2002(RA 2009)	Absent / Present /ml/ 50 ml
		Sulphate Reducing Bacteria	IS 1622:1981(RA 2009)	Absent / Present / ml
		Vibrio cholerae	IS 5887 (Part 5): 1976 (RA 2005)/ IS 15188: 2002(RA 2009)	Absent / Present /ml/ 250 ml/100ml
		Vibrio parahaemolyticus	IS 5887 (Part 5): 1976 (RA 2009)/ IS 15188:2002(RA 2009)	Absent / Present/ml/100 ml/ 250 ml
		Yeast & Mould	IS 5403: 1999 (RA 2009)/ IS 15188:2002(RA 2009)	≥1 cfu/ml /100ml Absent / Present /ml / 250ml
		Heterotrophic Plate Count	APHA 9215 A	≥1 cfu/ml
2.	Water For Swimming Pool and Spas	Aerobic plate count / Total Plate Count	IS 5402: 2002 (RA 2007)	≥1 cfu/ml
		Coliform bacteria	IS 5401(Part 1):2002 (RA 2009) IS 1622: 1981(RA 2009) AOAC 989.10	≥1 cfu/ml ≥1MPN /100 ml Absent / Present/ 250 ml

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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
		E.coli	IS 5887 (Part 1): 1976 (RA 2009) IS 1622: 1981(RA 2009) AOAC 991.14	≥1 cfu/ml ≥1MPN /100 ml Absent/Present per ml / 100 ml/ 250 ml
		Faecal streptococci	IS 5887 (Part 2): 1976 (RA 2009) IS 15186: 2002 (RA 2009) IS 1622: 1981(RA 2009)	≥1 cfu/ml Absent/Present per ml / 100 ml / 250 ml ≥1MPN /100 ml
		Faecal coliform	IS 1622: 1981(RA 2009) APHA : 9221 E	≥1MPN /100 ml Absent / Present/ml/ 100 ml/250 ml
		Standard Plate Count	IS 1622:1981(RA 2009)/ IS 3328:1993 (RA 2008)	≥1 cfu/ml
		Staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2009) /IS 15186:2002/ IS 5887 (Part 8): 2002 (RA 2007)	Absent / Present /ml/ 100ml/ 250 ml
		Yeast & Mould	IS 5403: 1999 (RA 2009)/ IS 15188:2002 (RA 2009)	≥1 cfu/ml /100ml Absent / Present /ml/ 100ml/250ml
		Heterotrophic Plate Count	APHA 9215 A	≥1 cfu/ml
3.	Ground Water/ Surface Water	Aerobic plate count / Total Plate Count	IS 5402: 2002 (RA 2007)	≥1 cfu/ml
		Coliform bacteria	IS 5401(Part 1):2002 (RA 2009) IS 1622: 1981(RA 2009) AOAC 989.10	≥1 cfu/ml ≥1MPN /100 ml Absent / Present/100 ml/ 250ml

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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
	E.coli		IS 5887 (Part 1): 1976 (RA 2009) IS 1622: 1981(RA 2003) AOAC 991.14	≥1 cfu/ml ≥1MPN /100 ml Absent/Present per ml / 100 ml/ 250 ml
	Faecal streptococci		IS 5887 (Part 2): 1976 (RA 2009) IS 15186: 2002 (RA 2009) IS 1622: 1981(RA 2009)	≥1 cfu/ml Absent/Present per ml / 100 ml / 250 ml ≥1MPN /100 ml
	Faecal coliform		IS 1622: 1981(RA 2009) APHA:9221 E	≥1MPN /100 ml Absent / Present/ml/ 100 ml/250 ml
	Pseudomonas aeruginosa		IS 13428 (Annexure D): 2005 (RA 2009)	Absent/Present / ml / 100 ml / 250 ml
	Salmonella		IS 5887 (Part 3): 1999 (RA 2009) / IS 15187:2002 / AOAC 967.25,26,27,28	Absent / Present/ml/ 100 ml/ 250 ml
	Shigella		IS 5887 (Part 7): 1999 (RA 2009) /IS 15187:2002	Absent / Present /ml/ 100ml/ 250 ml
	Standard Plate Count		IS 1622:1981(RA 2009)/ IS 3328:1993(RA 2008)	≥1 cfu/ml
	Staphylococcus aureus		IS 5887 (Part 2): 1976 (RA 2009) / IS 15186:2002 (RA 2009)/ IS 5887 (Part -8): 2002 (RA 2007)	Absent / Present / ml/ 100ml/ 250 ml

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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
		Sulphite reducing anaerobes	IS 13428 (Annexure C): 2005 (RA 2009) / IS 15188:2002(RA 2009)	Absent / Present /ml/ 50 ml
		Sulphate Reducing Bacteria	IS 1622:1981 (RA 2009)	Absent / Present / ml
		Slime forming organism	IS 4251: 1967/ IS 1622: 1981(RA 2009)	Absent / Present / ml
		Thermophillic Bacteria	IS 4251: 1967 (Appendix-B)	Absent / Present / ml
		Vibrio cholerae	IS 5887 (Part 5): 1976 (RA 2009)/ IS 15188:2002(RA 2009)	Absent / Present /ml/ 250 ml/100ml
		Vibrio parahaemolyticus	IS 5887 (Part 5): 1976 (RA 2009)/ (RA 2009) IS 15188:2002(RA 2009)	Absent / Present/ml/ 100 ml/ 250 ml
		Yeast & Mould	IS 5403: 1999 (RA 2005)/ IS 15188:2002(RA 2009)	≥1 cfu/ml /100ml Absent / Present /ml/ 250ml
		Heterotrophic Plate Count	APHA 9215 A	≥1 cfu/ml
4.	Water for Dialysis	Aerobic plate count / Total Plate Count	IS 5402: 2002	≥1 cfu/ml
		Coliform bacteria	IS 5401(Part 1): 2002 (RA 2007) IS 1622: 1981(RA 2009) AOAC 989.10	≥1 cfu/ml ≥1MPN /100 ml Absent / Present/100 ml/ 250ml
		E.coli	IS 5887 (Part 1): 1976 (RA 2009) IS 1622: 1981(RA 2009) AOAC 991.14	≥1 cfu/ml Absent/Present per ml / 100 ml/ 250 ml

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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
		Faecal coliform	IS 1622: 1981(RA 2009) APHA:9221 E	≥1MPN /100 ml Absent / Present/ml/ 100 ml/250 ml
		Standard Plate Count	IS 1622:1981(RA 2009)/ IS 3328:1993/ ISO13959:2009(E)	≥1 cfu/ml
		Yeast & Mould	IS 5403: 1999 (RA 2005)/ IS 15188:2002	≥1 cfu/ml /100ml Absent / Present / ml/ 250ml
		Heterotrophic Plate Count	APHA 9215 A	≥1 cfu/ml
		Endotoxins	IP 2010 (2.2.3),Vol 1,Page No.28	Less than 0.25 EU/ml
5.	Water for Processed Food Industries	Aerobic plate count / Total Plate Count	IS 5402: 2002	≥1 cfu/ml
		Coliform bacteria	IS 5401(Part 1):2002 (RA 2007) IS 1622: 1981(RA 2009) AOAC 989.10	≥1 cfu/ml ≥1MPN /100 ml Absent / Present/100 ml
		Lypolytic bacteria	IS 4251: 1967 (Appendix-A) (RA 1992)	≥1 cfu/ml Absent/Present / ml / 100 ml / 250 ml
		Proteolytic bacteria	IS 4251:1967 (Appendix-A) (RA 1992)	≥1 cfu/ml Absent/Present / ml / 100 ml/ 250 ml
		Standard Plate Count	IS 1622:1981(RA 2009)/ IS 3328:1993(RA 2008)	≥1 cfu/ml
		Slime forming organism	IS 4251:1967/ IS 1622:1981(RA 2009)	Absent / Present / ml
		Thermophyllic Bacteria	IS 4251:1967 (Appendix-B)	Absent / Present / ml

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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
6.	Water for Industrial Purpose	Aerobic plate count / Total Plate Count	IS 5402: 2002	≥1 cfu/ml
Coliform bacteria		IS 5401(Part 1):2002 (RA 2007) IS 1622: 1981(RA 2009) AOAC 989.10	≥1 cfu/ml ≥1MPN /100 ml Absent / Present/100 ml/ 250ml	
E.coli		IS 5887 (Part 1): 1976 (RA 2009) IS 1622: 1981(RA 2009) AOAC 991.14	≥1 cfu/ml ≥1MPN /100 ml Absent/Present per ml / 100 ml/ 250 ml	
Faecal streptococci		IS 5887 (Part 2): 1976 (RA 2009) IS 15186: 2002(RA 2009) IS 1622: 1981(RA 2009)	≥1 cfu/ml Absent/Present per ml / 100 ml / 250 ml ≥1MPN /100 ml	
Faecal coliform		IS 1622: 1981(RA 2009) APHA 9221E	Absent / Present/ml/ 100 ml/250 ml/ MPN/100ml	
Standard Plate Count		IS 1622:1981(RA 2009)/ IS 3328:1993	≥1 cfu/ml	
Staphylococcus aureus		IS 5887 (Part 2): 1976 (RA 2009) /IS 15186:2002 RA 2009/ IS 5887 (Part 8): 2002 (RA 2007)	Absent / Present /ml/ 100ml/ 250 ml	
Sulphite reducing anaerobes		IS 13428 (Annexure C): 2005 (RA 2009) / IS 15188:2002(RA 2009)	Absent / Present /ml/ 50 ml	
Sulphate Reducing Bacteria		IS 1622:1981(RA 2009)	Absent / Present / ml	
Slime forming organism		IS 4251:1967/ IS 1622:1981(RA 2009)	Absent / Present / ml	

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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
		Yeast & Mould	IS 5403: 1999 (RA 2005)/ IS 15188:2002(RA 2009)	≥1 cfu/ml /100ml Absent / Present /ml/ 100ml
		Heterotrophic Plate Count	APHA 9215 A	≥1 cfu/ml
7.	Packaged Drinking Water	Aerobic plate count at 22°C, 37°C	IS 5402: 2002(RA 2007) IS 5402: 2002 (RA 2007)	≥1 cfu/ml ≥1 cfu/ml
		Coliform bacteria	IS 5401 (Part1) : 2002 (RA 2007)/ IS 15185::2002/ AOAC 989.10	≥1 cfu/ml Absent / Present/100ml/250 ml
		E.coli	IS 5887 (Part 1): 1976(RA 2009)/ IS 15185::2002/ AOAC 991.14	≥1 cfu/ml Absent / Present/100ml/250 ml
		Faecal streptococci	IS 5887 (Part 2): 1976(RA 2009)/ IS 15186: 2002	Absent / Present/ 100ml/250 ml
		Pseudomonas aeruginosa	IS 13428 (Annexure D): 2005 / IS 15188:2002(RA 2009)	Absent / Present/ 100ml/250 ml
		Salmonella	IS 5887 (Part 3): 1999 (RA 2009) / IS 15187:2002 / AOAC 967.25,26,27,28	Absent / Present / 100ml/250 ml
		Shigella	IS 5887 (Part 7): 1999 (RA 2009) / IS 15187:2002	Absent / Present / 100ml/250 ml

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		Staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2009) / IS 15186:2002 RA 2009)/ IS 5887 (Part 8): 2002	Absent / Present/100 ml/250 ml
		Sulphite reducing anaerobes	IS 13428 (Annexure C): 2005 (RA 2009) / IS 15188:2002(RA 2009)	Absent / Present/50 ml
		Vibrio cholerae	IS 5887 (Part 5): 1976 (RA 2009)/ IS 15188:2002(RA 2009)	≥1 cfu/ml Absent / Present /100ml/ 250 ml
		Vibrio parahaemolyticus	IS 5887 (Part 5): 1976 (RA 2009)/ IS 15188:2002(RA 2009)	≥1 cfu/ml Absent / Present/100ml/ 250 ml
		Yeast & Mould	IS 5403: 1999 (RA 2005)/ IS 15188:2002	≥1 cfu/ml Absent / Present /100ml 250 ml
8.	Water For Industrial Purpose (Rinse Water)	Salmonella	IS 5887 (Part 3): 1999 (RA 2009) / IS 15187:2002 / AOAC 967.25, 26, 27, 28	Absent / Present/ml/ 100 ml/ 250 ml
		Shigella	IS 5887 (Part 7): 1999 (RA 2009) / IS 15187:2002	Absent / Present / ml/ 100ml/ 250 ml
		Listeria monocytogenes	IS 14988 (Part 1) : 2001 AOAC 993.12	Absent / Present / ml/ 100ml/ 250 ml
		Listeria monocytogenes	IS 14988 (Part 2) : 2002	>1 cfu/ml

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V.	PETROLEUM			
1.	Aircraft Turbine Fuel (ATF)	Total viable count	IP 385-1999	1-4000 cfu/lit
		Fungal count	IP 385-1999	1-10 cfu/ lit

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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.**