Laboratory	avan's Research Centre (Microbiology), 5th Floor, Palanji Sadan- C Building, Bhavan's College Campus, Andheri West, Mumbai, harashtra	
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SI.	Product / Material	Specific Test	Test Method Specification	Range of Testing /
	of Test	Performed	against which tests are	Limits of Detection
			performed	

BIOLOGICAL TESTING

I.	WATER			
1.	Drinking Water	Coliforms	IS: 1622: 1981 RA 2014	Present/ Absent/ 100ml
		E coli	IS: 1622: 1981 RA 2014	Present/ Absent/ 100ml
2.	Packaged Drinking	Coliforms	IS: 15185:2016	Absent/ Present/ 250 ml
	Water/ Packaged	E coli	IS: 15185:2016	Absent/ Present/ 250 ml
	Natural Mineral Water	Fecal Streptococci	IS: 15186:2002 RA 2014	Absent/ Present/ 250 ml
	-	Total Viable Colony Count @ 22° C for 72hrs	IS 5402: 2012	Min 1cfu / ml
		Total Viable Colony Count @ 37° C for 24hrs	IS 5402: 2012	Min 1cfu / ml
		Pseudomonas Aeruginosa	IS: 13428: 2005 RA 2014: Annex D	Absent/ Present/ 250 ml
		Salmonella spp	IS: 15187: 2016	Absent/ Present/ 250 ml
		Shigella spp	IS: 5887 (Part 7): 1999 RA 2013	Absent/ Present/ 250 ml
		S Aureus	IS:5887(Part 2) :1976 RA 2013	Absent/ Present/ 250 ml
		Sulphite Reducing Anaerobes	IS: 13428: 2005 RA 2014: Annex C	Absent/ Present/ 50 ml
		Vibrio Parahaemolyticus	IS 5887 (Part 5) 1976 RA 2013	Absent/ Present/ 250 ml
		Yeast and Mold Count	IS 5403: 1999 RA 2013	Absent/ Present/ 250 ml
3.	Water for	Coliforms	IS: 1622: 1981 RA 2014	Present/ Absent/ 100ml
ļ	Processed Food	Standard Plate Count	IS: 1622: 1981 RA 2014	Min 1cfu / ml
ļ	Industry	Proteolytic Organisms	IS: 4251: 1967 RA 2015	Min 1cfu / ml
	<u> </u>	Lipolytic Organisms	IS: 4251: 1967 RA 2015	Min 1cfu / ml

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
11.	COSMETICS AND E	SSENTIAL OILS		
1.	Cosmetics and	Total Microbial Count	IS: 14648:2011	Min 10 cfu/ g/ml
	cosmetic raw	Gram Negative Enteric	IS: 14648:2011	Present/ Absent/g /ml
	materials	Pathogens		
		Staphylococcus Aureus	IS: 14648:2011	Present/ Absent/g/ml
		Pseudomonas Aeruginosa	IS: 14648:2011	Present/ Absent/g/ml
		Candida Albicans	IS: 14648:2011	Present/ Absent/g/ml
		Effectiveness of	AOAC Official Method of	Min 10 cfu/ g/ml
		Antimicrobial Preservative / Challenge Test	Analysis 998.10	
		Standard Test Method for Assessment of Antimicrobial Activity for water Miscible Compounds using Time- Kill Procedure	ASTM: E2783- 11	Log Reduction: -0.5 to 5.0
		Quantitative Suspension Test for the Evaluation of Basic Bactericidal Activity of Chemical Disinfectants and Antiseptics	BS EN 1040:2005: E	Log Reduction: -0.5 to 5.0
III.	ENVIRONMENT ANI	D POLLUTION		
1.	Microbiological monitoring in air/surface area	Microbial Count in Surface by Swab Test	In House method - FS 004 BRC In House method - CS 002 BRC	Min 10 cfu / 25 cm ²
		Microbial Count in air by Settle Plate Method	Sedimentation method In House method - FA 002 BRC In House method - CA 001 BRC	Min 1 cfu/ 90 mm diameter plate/ 30 mins

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
IV.	BIOCIDES			
1.	Antiseptics / Sanitizers	Quantitative Suspension test for the Evaluation of Basic Bactericidal Activity of Chemical Disinfectants and Antiseptics	BS EN 1040:2005: E	Log Reduction: -0.5 to 5.0
		Quantitative Suspension test for the Evaluation of Bactericidal Activity of Chemical Disinfectants and Antiseptics Used in food, Industrial, Domestic and Institutional Areas	EN 1276: 2009 E	Log Reduction: -0.5 to 5.0
		Quantitative Non Porous Surface Test for the Evaluation of Bactericidal and / or Fungicidal Activity of Chemical Disinfectants and Antiseptics Used in Food, Industrial, Domestic and Institutional Areas	BS EN 13697: 2015	Log Reduction for bacterial cultures: -0.5 to 5.0 Log Reduction for fungal cultures: -0.3 to 4.0
		Standard Test Method for Assessment of Antimicrobial Activity for water Miscible Compounds using Time- Kill Procedure	ASTM: E2783- 11	Log Reduction: -0.5 to 5.0
		Quantitative Suspension test for the Evaluation of Sporicidal Activity of Chemical Disinfectants and Antiseptics Used in Food, Industrial, Domestic and Institutional Areas	EN 13704: 2002 E	Log Reduction: -0.5 to 3.0

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		(Bacillus Subtilis ATCC 6633)		
		Turbidometric or Tube assay Method	IP 2014, Volume I, chapter No. 2.2 Biological methods	Min 0.0005 %
		Disc Diffusion Susceptibility test of Bauer Kirby	IP 2014, Volume I, chapter No. 2.2 Biological methods	Min 6 mm
		Cup plate Method	IP 2014, Volume I, chapter No. 2.2 Biological methods	Min 8 mm
		Phenol Coefficient Method- Testing Disinfectants Against Staphylococcus Aureus ATCC 6538	AOAC 2011, Official Method of Analysis 955.12	1 to 10
		Phenol Coefficient Method- Testing Disinfectants Against Pseudomonas Aeruginosa ATCC 15442	AOAC 2011, Official Method of Analysis 955.13	1 to 10
V.	BIOLOGICAL TESTS	ON OTHER MISCELLANE	OUS TEST ITEMS	
1.	Water Purifier	Evaluation of Drinking Water Treatment Technology for Microbiological Reduction Performance- Viruses- MS 2 Bacteriophage	National Sanitary Foundation (NSF) P248: 2008	Min 1 cfu/ 1 ml
		Evaluation of Drinking Water Treatment Technology for Microbiological Reduction Performance- Microspheres	National Sanitary Foundation (NSF)/ ANSI 53: 2011a / P231: 2003	Min 1 microsphere / 250 ml

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[SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			Evaluation of Drinking Water Treatment Technology for Microbiological Reduction Performance- Bacteria- Raoultella (Klebsiella) terrigena	National Sanitary Foundation (NSF) P231: 2003/ P248: 2008	Min 1 cfu/ 100 ml

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