Laboratory		TUV SUD South Asia F Maharashtra	TUV SUD South Asia Pvt. Ltd., Saki Naka, Andheri (East), Mumbai, Maharashtra				
Acc	reditation Standar	d ISO/IEC 17025: 2005					
Disc	cipline	Biological Testing	I	ssue Dat	te 09.04.2014		
Cert	ificate Number	T-1416	,	Valid Unt	il 08.04.2016		
Last Amended on		22.04.2014	I	Page	1 of 50		
S.No.	Product / Material of Test	Specific Test Performed	Test Method Specificatio against which tests are performed		nge of Testing / nits of Detection		
I. FO	OOD AND AGRICUL	FURAL PRODUCTS					
1.	Cocoa Product	Total Plate Count	IS 5402:2012	<u>></u> 1	0 cfu/gm		
			Chapter 3, FDA- BAM, 2001 Chapter 7-Compendium of Methods for the microbiologi examination of foods, 4 th edit APHA 2001	ical	0 cfu/gm		
			ISO 4833-1:2013	<u>></u> 1	0 cfu/gm		
		Yeast & Mold count	IS 5403:1999, (RA 2009)	<u>></u> 1	0 cfu/gm		
			FDA-BAM-2001 (Chapter18 Chapter 20 Compendium of Methods for the microbiologi examination of foods, 4 th edit APHA 2001	ical	0 cfu/gm		
			ISO 21527-2 :2008	<u>></u> 1	0 cfu/gm		
		E.Coli	IS 5887 (Part-1)1976, (RA 20	005) Pre	esent /Absent per gm		
			FDA-BAM-2002 (Chapter 4) Chapter 8 Compendium of Methods for the microbiologi examination of foods, 4th edi APHA 2001	ical	MPN/g		
			ISO 16649-2 : 2001	<u>></u> 1	0 cfu/gm		

Laboratory	TUV SUD South Maharashtra	TUV SUD South Asia Pvt. Ltd., Saki Naka, Andheri (East), Mumbai, Maharashtra			
Accreditation Star	ndard ISO/IEC 17025:	2005			
Discipline	Biological Test	ting	Issue Date	09.04.2014	
Certificate Numbe	r T-1416		Valid Until	08.04.2016	
Last Amended on	22.04.2014		Page	2 of 50	
S.No. Product / Material of Tes	Specific Test Perforr st	ned Test Method Spec against which test performed		ge of Testing / ts of Detection	
Tea, Coffee and		ns and IS 5401 (Part 1) 2002	$\geq 10 $	cfu/g, ≥3 MPN/g	
Cocoa Product	fecal coliforms	FDA-BAM-2002 (Ch	mapter 4) ≥ 10 c	cfu/g	
		Chapter 8 Compendi Methods for the micro examination of foods APHA 2001	obiological	cfu/g, ≥3 MPN/g	
		ISO 4832 : 2006	≥10 c	cfu/g	
	Staphylococcus aureus	IS 5887 (Part 2)1976,	, (RA 2005) Prese	ent/Absent per 25gm	
		IS 5887 (Part 8/Sec 1 (RA 2012)	$)2002, \ge 10 c$	cfu/g	
		Chapter 39 Compense Methods for the micro examination of foods APHA 2001	obiological	cfu/g, ≥3 MPN/g	
		ISO 6888-1 : 1999	≥10 c	cfu/g	
	Salmonella sp.	Chapter 5, FDA- BAl Chapter 37 Compend Methods for the micro examination of foods APHA 2001 IS 5887 (Part 3) 1999 ISO 6579:2002	lium of obiological , 4th edition,	ent/Absent per 25gm	

Laboratory TUV SUD South Asia Maharashtra			Pvt. Ltd., Saki Naka, And	heri (Eas	st), Mumbai,
Accre	editation Standar	d ISO/IEC 17025: 2005			
Disci	pline	Biological Testing		Issue Da	ate 09.04.2014
Certificate Number Last Amended on		T-1416		Valid Un	til 08.04.2016
		22.04.2014		Page	3 of 50
	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		ange of Testing / imits of Detection
	Tea, Coffee and Cocoa Product	Shigella sp.	FDA-BAM-2001(Chapter 6) Chapter 38 Compendium of Methods for the microbiolog examination of foods, 4th ec APHA 2001 IS 5887 (Part 7) 1999, (RA 2)	gical lition,	resent/Absent per 25gm
		Listeria sp.	FDA-BAM-2011(Chapter 1) Chapter 36 Compendium of Methods for the microbiolog examination of foods, 4th ec APHA 2001 IS 14988 (Part 1) : 2002 ISO 11290-1 : 1996	f gical	resent/Absent per 25gm
		Clostridium perfringens	IS 5887 (Part 4) 1999, (RA 2	2005) Pr	resent/Absent per 25gm
			ISO 7937:2004	<u>≥</u> 1	10 cfu/g
			FDA-BAM-2001(Chapter 1) Chapter 34 Compendium of Methods for the microbiolog examination of foods, 4th ec APHA 2001	gical	10 cfu/g, Present / bsent per 2 g
			IS 5887 (Part 4) 1999, (RA 2	2005) ≥1	10 cfu/g

Laboratory TUV SUD South Asia F Maharashtra		Pvt. Ltd., Saki Naka, Andhe	⊧ri (East), I	Mumbai,
Accreditation Standard	d ISO/IEC 17025: 2005			
Discipline	Biological Testing	ls	sue Date	09.04.2014
Certificate Number	T-1416	Va	alid Until	08.04.2016
Last Amended on	22.04.2014	Pa	age	4 of 50
S.No. Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection
Tea, Coffee and Cocoa Product	Bacillus cereus	FDA-BAM-2001(Chapter14) Chapter 32 Compendium of Methods for the microbiologica examination of foods, 4th edition APHA 2001	al	cfu/g, ≥3 MPN/g
		IS 5887 (Part 6) 1999, (RA 200	$(5) \geq 100 c$	cfu/g
		ISO 7932:2004	≥100 c	cfu/g
	Vibrio cholerae and V.parahaemolyticus	FDA-BAM-2004(Chapter 9) Chapter 40 Compendium of Methods for the microbiologica examination of foods, 4 th editio APHA 2001 IS 5887 (Part 5) 1976, (RA 200	≥3 MF al on,	t/ Absent per 25g / PN/g
	Detection & Enumeration of faecal streptococci	IS 5887(2)1976, (RA 2005)	Presen	t/Absent per 25 gm
	Enterobacteriaceae	CH-8 Compendium of Methods for the microbiological examination of foods, 4 th editio APHA 2001		ìu/g
	Lactic acid bacteria	ISO 15214:1998	≥10 cf	ìu/g

Laboratory		TUV SUD South Asia F Maharashtra	TUV SUD South Asia Pvt. Ltd., Saki Naka, Andheri (East), Mumbai, Maharashtra				
Acc	reditation Standard	d ISO/IEC 17025: 2005					
Disc	ipline	Biological Testing	ŀ	ssue Date	09.04.2014		
Cert	ificate Number	T-1416	٨	/alid Until	08.04.2016		
Last	Amended on	22.04.2014	F	Page	5 of 50		
S.No.	Product / Material of Test	Specific Test Performed	Test Method Specificatio against which tests are performed		e of Testing / s of Detection		
2.	Milk & dairy	Total Plate Count	IS 5402:2012	≥10 cf	u/g		
	products Milk and Dairy Products (Condensed milk/ Partly/ Skimmed condensed milk,		Chapter 3, FDA- BAM, 2001 Chapter 7-Compendium of Methods for the microbiologi examination of foods, 4 th edit APHA 2001	cal	ù/g		
	Cream sterilized, Dairy Whitener,		FDA-BAM-2001 (Chapter18)) $\geq 1 \text{ cfu}$	/ml ≥10 cfu/g/ml		
	Milk Powder, Dahi, Cheese/ Processed spared, Ice cream/Ice cream dry mix, Frozen desert,		Chapter 20 Compendium of Methods for the microbiologi examination of foods,chapter 4 th edition, APHA 2001		ìu/g		
	Ice candy, Malted milk food, Milk		ISO 21527-1 :2008	≥10 cf	u/g		
	powder, Milk Lolly, Partly skimmed/		ISO 21527-2 :2008	≥10 cf	u/g		
	whey powder, Skimmed Milk	E.Coli	IS 5887 (Part-1)1976, (RA 20	005) Presen	t /Absent per gm		
	powder (standard grade), Flavored/Cream Milk, Skimmed Milk powder(extra grade), Pasteurized Milk, Milk cereal base weaning base,		FDA-BAM-2001 (Chapter 4) Chapter 8 Compendium of Methods for the microbiologi examination of foods, 4th edi APHA 2001	cal	PN/g		

•		TUV SUD South Asia F Maharashtra	TUV SUD South Asia Pvt. Ltd., Saki Naka, Andheri (East), Mumbai, Maharashtra			
Асси	reditation Standar	d ISO/IEC 17025: 2005				
Disc	ipline	Biological Testing	l	ssue Date	09.04.2014	
Cert	ificate Number	T-1416	٧	/alid Until	08.04.2016	
Last Amended on		22.04.2014	F	Page	6 of 50	
S.No.	Product / Material of Test	Specific Test Performed	Test Method Specificatio against which tests are performed		ge of Testing / ts of Detection	
	Processed- Cereal Based Complementary Foods , Sweetened Ultra High	Total Coliform counts & faecal Coliform	FDA-BAM-2001 (Chapter 4) Chapter 8 Compendium of Methods for the microbiologi examination of foods, 4th edit APHA 2001	cal	cfu/g,≥3 MPN/g	
	Temperature (UHT) Treated Condensed Milk, Paneer/		IS 5401 (Part 1) 2002	≥10 o Prese	cfu/g ent/Absent per 0.1g	
	Chhana, Sweetened Condensed Milk,		ISO 4832 : 2006	≥ 10 o	cfu/g	
	Casein edible, Sterilized Milk, Milk powder whole,	Staphylococcus aureus	IS 5887 (Part 2)1976, (RA 20	005) Prese 0.1g/	ent/Absent per 1g	
	Butter milk, Ghee, Khoya, Burfi, Butter, Kulfi, Lassi, Yoghurt, Chakka, Shrikhand, Infant Milk Substitute,		Chapter 39 Compendium of Methods for the microbiologi examination of foods, 4th edit APHA 2001 FDA-BAM-2001(Chapter 12)	cal tion,	cfu/g,≥3 MPN/g	
	Butter Fat/ Butter oil)		IS 5887 (Part 8/sec 1)2002,	≥10 0	cfu/g	
			ISO 6888-1 : 1999	≥10 0	cfu/g	
		Salmonella sp.	FDA-BAM-2001(Chapter 5) Chapter 37 Compendium of Methods for the microbiologi examination of foods, 4th edit APHA 2001 IS 5887 (Part 3) 1999, (RA 20 ISO 6579:2002	cal tion,	ent/ Absent per 25g	

Laboratory	TUV SUD South Asia F Maharashtra	Pvt. Ltd., Saki Naka, Andh	eri (East), ∣	Mumbai,
Accreditation Standard	ISO/IEC 17025: 2005			
Discipline	Biological Testing	ls	ssue Date	09.04.2014
Certificate Number	T-1416	v	alid Until	08.04.2016
Last Amended on	22.04.2014	Р	age	7 of 50
S.No. Product / S.No. S Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection
S	Shigella sp.	FDA-BAM-2001(Chapter 6) Chapter 38 Compendium of Methods for the microbiologic examination of foods, 4th edit APHA 2001 IS 5887 (Part 7) 1999, (RA 20	cal ion,	t/Absent/25gm
J	Listeria sp.	FDA-BAM-2011(Chapter 10) Chapter 36 Compendium of Methods for the microbiologic examination of foods, 4 th editi APHA 2001	cal	t/Absent perg
		IS 14988 (Part 1) : 2002 ISO 11290-1:1996	Presen	t/Absent perg
(Clostridium perfringens	IS 5887 (Part 4) 1999, (RA 20	009) Presen	t/Absent/25gm/ml
		FDA-BAM-2001(Chapter 16) Chapter 34 APHA 4th Edition		fu/g, Present / t per 2 g
		ISO 7937:2004		fu/g, Present / t per 2 g

Laboratory TUV SUD South Asia P Maharashtra		Pvt. Ltd., Saki Naka, Andho	eri (East), ∣	Mumbai,
Accreditation Standar	d ISO/IEC 17025: 2005			
Discipline	Biological Testing	Is	sue Date	09.04.2014
Certificate Number	T-1416	v	alid Until	08.04.2016
Last Amended on	22.04.2014	Р	age	8 of 50
S.No. Product / Material of Test	Specific Test Performed	Test Method Specificatior against which tests are performed		e of Testing / s of Detection
	Bacillus cereus	FDA-BAM-2001(Chapter14) Chapter 32 Compendium of Methods for the microbiologic examination of foods, 4th editi APHA 2001	cal	:fu/g, ≥3 MPN/g
		IS 5887 (Part 6) 1999 RA 2011	$2 \geq 1 \text{ cfu}$	/ml, $\geq 10 \text{ cfu/g}$
		ISO 7932:2004	≥100 c	:fu/g
	Vibrio cholerae and V.parahaemolyticus	FDA-BAM-2004(Chapter 9) Chapter 40 Compendium of Methods for the microbiologic examination of foods, 4th editi APHA 2001 IS 5887 (Part 5) 1976, (RA 20	≥3 MF cal ion,	t/ Absent per 25g / N/g
	Feacal Streptococci	IS 5887(2)1976, (RA 2005)	Presen	t/Absent per 25 gm
		IS 5887(2)1976, (RA 2005)	0.3 to	110 MPN/gm
	Enterobacteriaceae	ISO 21528-2:2004	≥10 cf	u/g
		CH-8 Compendium of Method for the microbiological examination of foods, 4th edit APHA 2001		ù/g

Laboratory		TUV SUD South Asia F Maharashtra	TUV SUD South Asia Pvt. Ltd., Saki Naka, Andheri (East), Mumbai, Maharashtra				
Acc	reditation Standar	d ISO/IEC 17025: 2005	ISO/IEC 17025: 2005				
Disc	ipline	Biological Testing	I	ssue Dat	e 09.04.2014		
Cert	ificate Number	T-1416	,	Valid Unti	08.04.2016		
Last Amended on		22.04.2014	I	Page	9 of 50		
S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		nge of Testing / hits of Detection		
		Anaerobic spore count	CH-23 Compendium of Meth for the microbiological examination of foods, 4th edi APHA 2001		sent /Absent in 1 gm		
		Lactic acid bacteria	ISO 15214:1998	≥10	cfu/g		
3.	Alcoholic Drinks & ' Beverages	Total Plate Count	IS 5402:2012	≥ 1 of	cfu/ml		
			Chapter 3, FDA- BAM, 2001 Chapter 7-Compendium of Methods for the microbiolog examination of foods, 4th edi APHA 2001	ical	cfu/ml		
		Yeast & Mold count	IS 5403:1999, (RA 2009)	≥1 0	efu/ml		
			FDA-BAM-2001 (Chapter18 Chapter 20 Compendium of Methods for the microbiolog examination of foods, 4th edi APHA 2001	ical	efu/ml		
		E.Coli	IS 5887 (Part-1)1976, (RA 20	005) Pres	sent /Absent per 25 ml		
			FDA-BAM-2001 (Chapter 4) Chapter 8 Compendium of Methods for the microbiolog examination of foods, 4th edi APHA 2001	ical	MPN/ml		

Laboratory		TUV SUD South Asia F Maharashtra	TUV SUD South Asia Pvt. Ltd., Saki Naka, Andheri (East), Mumbai, Maharashtra			
Acc	reditation Standar	d ISO/IEC 17025: 2005				
Disc	cipline	Biological Testing		Issue	Date	09.04.2014
Cert	tificate Number	T-1416		Valid	Until	08.04.2016
Last Amended on		22.04.2014		Page		10 of 50
S.No.	Product / Material of Test	Specific Test Performed	Test Method Specificat against which tests are performed			e of Testing / s of Detection
	Alcoholic Drinks & Beverages	Enumeration of coliforms and fecal coliforms	FDA-BAM-2001 (Chapter Chapter 8 Compendium of Methods for the microbiolo examination of foods, 4th e APHA 2001	gical	≥1 cfu⁄	/ml, ≥3 MPN/ml
			IS 5401 (Part 1) 2012,		≥1 cfu/	/ml
			IS 5401 (Part-2) : 2012		Present / Absent per 100 ml	
		Staphylococcus aureus	IS 5887 (Part 2)1976, (RA	2005)		t/Absent/25 ml
			IS 5887 (Part 8/sec 1)2002	,	≥1 cfu/	/ml
			FDA-BAM-2001 (Chapter 1 Chapter 39 Compendium of Methods for the microbiolo examination of foods, 4th e APHA 2001	of gical	≥1 cfu/	/ml
		Salmonella sp.	FDA-BAM-2011(Chapter 5 Chapter 37 Compendium of Methods for the microbiolo examination of foods, 4th e APHA 2001 IS 5887 (Part 3) 1999, (RA	of ogical dition,	Presen	t/Absent/25 ml

Laboratory		TUV SUD South Asia I Maharashtra	TUV SUD South Asia Pvt. Ltd., Saki Naka, Andheri (East), Mumbai, Maharashtra				
Accreditation Standard		d ISO/IEC 17025: 2005	ISO/IEC 17025: 2005				
Disc	cipline	Biological Testing	I	ssue Dat	e 09.04.2014		
Cert	ificate Number	T-1416	,	Valid Unti	08.04.2016		
Last Amended on		22.04.2014	I	Page	11 of 50		
S.No.	Product / Material of Test	Specific Test Performed	Test Method Specificatio against which tests are performed		nge of Testing / hits of Detection		
	Alcoholic Drinks & Beverages	Shigella sp.	FDA-BAM-2001(Chapter 6) Chapter 38 Compendium of Methods for the microbiologi examination of foods, 4th edi APHA 2001 IS 5887 (Part 7) 1999, (RA 2	ical ition,	sent/Absent/25ml		
		Listeria sp.	FDA-BAM-2011(Chapter 10 Chapter 36 Compendium of Methods for the microbiologi examination of foods, 4th edi APHA 2001 IS 14988 (Part 1) : 2002	ical	sent/Absent/25 ml		
		Clostridium perfringens	IS 5887 (Part 4) 1999, (RA 2	005) Pres	sent/Absent/25 ml		
			FDA-BAM-2001(Chapter 16 Chapter 34 Compendium of Methods for the microbiologi examination of foods, 4th edi APHA 2001	Abs	cfu/ml, Present / sent per 2 ml		
		Bacillus cereus	FDA-BAM-2001(Chapter14) Chapter 32 Compendium of Methods for the microbiologi examination of foods, 4th edi APHA 2001	ical	0 cfu/ml		
			IS 5887 (Part 6) 1999, (RA 2	005) ≥10	0 cfu/ml		

•		TUV SUD South Asia P Maharashtra	TUV SUD South Asia Pvt. Ltd., Saki Naka, Andheri (East), Mumbai, Maharashtra				
Acc	reditation Standar	d ISO/IEC 17025: 2005					
Disc	cipline	Biological Testing	ls	sue Date	09.04.2014		
Cert	ificate Number	T-1416	Va	alid Until	08.04.2016		
Last Amended on		22.04.2014	Pa	ige	12 of 50		
S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection		
	Alcoholic Drinks & Beverages	Bacillus cereus	FDA-BAM-2001(Chapter14) Chapter 32 Compendium of Methods for the microbiologica examination of foods, 4th edition APHA 2001		PN/ml		
		Vibrio cholerae and V.parahaemolyticus	FDA-BAM-2004(Chapter 9) Chapter 40 APHA 4 th Edition 2 IS 5887 (Part 5) 1976, (RA 200	001	t/Absent/25 ml		
		Detection of Feacal Streptococci	IS 5887 (Part 2)1976, (RA 200	5) Presen	t/Absent per 25 ml		
		Enumeration of Feacal Streptococci	IS 5887 (Part 2)1976, (RA 200.	5) 0.3 to	110 MPN/ml		
		Enterobacteriaceae	ISO 21528-2 :2004 CH-8 Compendium of Methods for the microbiological examination of foods, 4th edition APHA 2001		/ml		
4.	Animal Feed / Pet Foods	Total Plate Count	IS 5402:2012	≥10 cf	u/g		
	1 CL F 00US		Chapter 3, FDA- BAM, 2001 Chapter 7-Compendium of Methods for the microbiologica examination of foods, 4th edition APHA 2001		ìu/g		
		Yeast & Mold count	IS 5403:1999 (2009)	≥10 cf	ù/g		

Laboratory		TUV SUD South Asia F Maharashtra	TUV SUD South Asia Pvt. Ltd., Saki Naka, Andheri (East), Mumbai, Maharashtra					
Acc	reditation Standa	rd ISO/IEC 17025: 2005	ISO/IEC 17025: 2005					
Disc	cipline	Biological Testing	Is	ssue Date	09.04.2014			
Cert	tificate Number	T-1416	V	/alid Until	08.04.2016			
Last	t Amended on	22.04.2014	F	Page	13 of 50			
S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection			
	Animal Feed / Pet Foods		FDA-BAM-2001 (Chapter18) Chapter 20 Compendium of Methods for the microbiologic examination of foods, 4th edit APHA 2001	cal	îu/g			
		E.Coli	IS 5887 (Part-1)1976, (RA 20	009) Preser	nt/Absent per gm			
			FDA-BAM-2001 (Chapter 4) Chapter 8 Compendium of Methods for the microbiologic examination of foods, 4th edit APHA 2001	cal	PN/g			
		Total Coliform counts & faecal	IS 5401 (Part1):2002,	≥10 cf	îu/g			
		Coliform	FDA-BAM-2001 (Chapter 4)	$\geq 10 \text{ cm}$	°u/g,≥3 MPN/g			
			Chapter 8 Compendium of Methods for the microbiologic examination of foods, 4th edit APHA 2001	cal	ìu/g,≥3 MPN/g			
		Staphylococcus aureus	IS 5887 (Part 2)1976, (RA 20	05) Preser	nt/Absent/25gm			
			IS 5887 (Part 8/sec 1)2002 (RA 2012)	≥10 ct	ìu/g,			

Laboratory	TUV SUD South Asia I Maharashtra	TUV SUD South Asia Pvt. Ltd., Saki Naka, Andheri (East), Mumbai, Maharashtra					
Accreditation Standar	d ISO/IEC 17025: 2005	ISO/IEC 17025: 2005					
Discipline	Biological Testing	Issu	le Date	09.04.2014			
Certificate Number	T-1416	Vali	d Until	08.04.2016			
Last Amended on	22.04.2014	Pag	е	14 of 50			
S.No. Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection			
Animal Feed / Pet Foods	Staphylococcus aureus	FDA-BAM-2001(Chapter 12) Chapter 39 Compendium of Methods for the microbiological examination of foods, 4th edition APHA 2001	n of ≥3 MPN/g logical				
	Feacal Streptococci	cal Streptococci IS 5887(2)1976, (RA 2005)		t/Absent per 25 gm			
		IS 5887(2)1976, (RA 2005)	0.3 to	110 MPN/gm			
	Enterobacteriaceae	ISO 21528-2:2004 ≥10 cfu/g		ù/g			
		CH-8 Compendium of Methods for the microbiological examination of foods, 4th edition APHA 2001	≥10 cf	ù/g			
	Detection of Salmonella sp.	FDA-BAM-2001(Chapter 5) Chapter 37 Compendium of Methods for the microbiological examination of foods, 4th edition APHA 2001 IS 5887 (Part 3) 1999, (RA 2009)	ompendium of e microbiological foods, 4th edition,				
	Detection of Shigella sp.	FDA-BAM-2001(Chapter 6) Chapter 38 Compendium of Methods for the microbiological examination of foods, 4th edition APHA 2001 IS 5887 (Part 7) 1999, (RA 2005)	,	t/Absent/25gm			

Laboratory	TUV SUD South Asia F Maharashtra	TUV SUD South Asia Pvt. Ltd., Saki Naka, Andheri (East), Mumbai, Maharashtra					
Accreditation Standa	rd ISO/IEC 17025: 2005	ISO/IEC 17025: 2005					
Discipline	Biological Testing	lssu	e Date 09.04.2014				
Certificate Number	T-1416	Valie	d Until 08.04.2016				
Last Amended on	22.04.2014	Page	e 15 of 50				
S.No. Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection				
Animal Feed / Pet Foods	Listeria sp.	FDA-BAM-2011(Chapter 10) CH-36 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 2001 IS 14988 (Part 1) : 2002	Present/Absent/25gm				
	Clostridium perfringens	IS 5887 (Part 4) 1999, (RA 2005)	Present/Absent/25gm				
		FDA-BAM-2001(Chapter 16)	≥10 cfu/g				
		Chapter 34 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g, Present / Absent per 2 g				
		IS 5887 (Part 4) 1999, (RA 2005)	$\geq 10 \text{ cfu/g},$				
	Enumeration of Bacillus cereus	FDA-BAM-2001(Chapter14) Chapter 32 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	$\geq 100 \text{ cfu/g}, \geq 3 \text{ MPN/g}$				
		IS 5887 (Part 6) 1999, (RA 2005)	≥100 cfu/g				
	Vibrio cholera and V.parahaemolyticus	FDA-BAM-2004(Chapter 9) Chapter 40 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 5) 1976, (RA 2005)	Present/ Absent per 25 g / ≥3 MPN/g				

Laboratory		TUV SUD South Asi Maharashtra	TUV SUD South Asia Pvt. Ltd., Saki Naka, Andheri (East), Mumbai, Maharashtra					
Acc	reditation Standar	rd ISO/IEC 17025: 2005	SO/IEC 17025: 2005					
Disc	cipline	Biological Testing	Issu	e Date 09.04.2014				
Cert	tificate Number	T-1416	Valic	l Until 08.04.2016				
Last Amended on		22.04.2014	Page	e 16 of 50				
S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection				
5.	Bakery & Confectionary	Total Plate Count	IS 5402:2012	≥10 cfu/g				
			Chapter 3, FDA- BAM, 2001 Chapter 7-Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g				
			ISO 4833-1:2013	$\geq 10 \text{ cfu/g}$				
		Yeast & Mold count	IS 5403:1999, (RA 2009)S	$\geq 10 \text{ cfu/g}$				
			FDA-BAM-2001 (Chapter18) Chapter 20 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g				
			ISO 21527-1 :2008 ISO 21527-2 :2008	≥10 cfu/g				
		E.Coli	IS 5887 (Part-1)1976, (RA 2009	Present /Absent per gm				
			FDA-BAM-2001 (Chapter 4) Chapter 8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥3 MPN/g				
			ISO 16649-2:2001	$\geq 10 \text{ cfu/g}$				

Rini Narayan Accreditation Officer-I

Laboratory	TUV SUD South Asia P Maharashtra	TUV SUD South Asia Pvt. Ltd., Saki Naka, Andheri (East), Mumbai, Maharashtra					
Accreditation Standard	ISO/IEC 17025: 2005	ISO/IEC 17025: 2005					
Discipline	Biological Testing		Issue	Date	09.04.2014		
Certificate Number	T-1416		Valid Until		08.04.2016		
Last Amended on	22.04.2014		Page		17 of 50		
S.No. Product / Material of Test	Specific Test Performed			e of Testing / of Detection			
e e e e e e e e e e e e e e e e e e e	Total Coliform counts & faecal Coliform	FDA-BAM-2001 (Chapter Chapter 8 Compendium of Methods for the microbiolo examination of foods, 4th er APHA 2001	gical	≥10 cfi	u/g,≥3 MPN/g		
		IS 5401 (Part 1) 2012		$\geq 10 \mathrm{cfi}$	u/g		
		ISO 4832:2006		$\geq 10 \text{ cfu/g}$			
	Staphylococcus aureus	IS 5887 (Part 2)1976, (RA 2	2005)	Presen	t/Absent/25gm		
			2) of gical dition,	≥10 cfi	u/g,≥3 MPN/g		
		IS 5887 (Part 8/sec 1)2002	,	$\geq 10 \mathrm{cft}$	u/g		
		ISO 6888-1 : 1999		≥10 cfi	u/g		
	Salmonella sp.	FDA-BAM-2011(Chapter 5 Chapter 37 Compendium o Methods for the microbiolo examination of foods, 4th er APHA 2001 IS 5887 (Part 3) 1999, (RA ISO 6579:2002	of gical dition,	Present	t/Absent/25gm		

Labo	oratory	TUV SUD South Asia Maharashtra	TUV SUD South Asia Pvt. Ltd., Saki Naka, Andheri (East), Mumbai, Maharashtra				
Acc	reditation Standa	rd ISO/IEC 17025: 2005					
Disc	ipline	Biological Testing	Is	sue Date	09.04.2014		
Cert	ificate Number	T-1416	Va	alid Until	08.04.2016		
Last Amended on		22.04.2014	Pa	age	18 of 50		
S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection		
	Bakery & Confectionary	Shigella sp.	FDA-BAM-2001(Chapter 6) Chapter 38 Compendium of Methods for the microbiologic examination of foods, 4th editi APHA 2001 IS 5887 (Part 7) 1999, (RA 200	al on,	nt/Absent/25gm		
		Detection of Listeria sp.	FDA-BAM-2011(Chapter 10) Chapter 36 Compendium of Methods for the microbiologica examination of foods, 4th editi APHA 2001 IS 14988 (Part 1) : 2002 ISO 11290-1 :1996	al	nt/Absent/25gm		
		Clostridium perfringens	IS 5887 (Part 4) 1999, (RA 200	05) Presen	nt/Absent/25gm		
			FDA-BAM-2001(Chapter 16)	≥10 cf	fu/g		
			Chapter 34 Compendium of Methods for the microbiologica examination of foods, 4th editi APHA 2001	al Absen	îu/g, Present / t per 2 g		
			ISO 7937:2004	≥10 cf	fu/g,		

Laboratory	TUV SUD South Asia F Maharashtra	TUV SUD South Asia Pvt. Ltd., Saki Naka, Andheri (East), Mumbai, Maharashtra					
Accreditation Standard	d ISO/IEC 17025: 2005	ISO/IEC 17025: 2005					
Discipline	Biological Testing	I	Issue Date	09.04.2014			
Certificate Number	T-1416	,	Valid Until	08.04.2016			
Last Amended on	22.04.2014		Page	19 of 50			
S.No. Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection			
Bakery & Confectionary	Bacillus cereus	FDA-BAM-2001(Chapter14) ≥100 c Chapter 32 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001		cfu/g, ≥3 MPN/g			
		IS 5887 (Part 6) 1999, (RA 2	2005) ≥100	cfu/g,			
		ISO 7932:2004	≥100	cfu/g,			
	Vibrio cholerae and V.parahaemolyticus	FDA-BAM-2004(Chapter 9) Chapter 40 Compendium of Methods for the microbiolog examination of foods, 4th ed APHA 2001 IS 5887 (Part 5) 1976, (RA 2	≥3 Ml ical ition,	nt/ Absent per 25 g / PN/g			
	Feacal Streptococci	IS 5887(2)1976, (RA 2005)	RA 2005) Present/Absent p				
		IS 5887(2)1976(RA 2005) ISO 21528-2:2004	0.3 – ≥10 ci	110 MPN/gm fu/g			
	Enterobacteriaceae	CH-8 Compendium of Metho for the microbiological examination of foods, 4th ed APHA 2001		fu/g			
	Lactic acid bacteria	ISO 15214:1998	≥10 c	fu/g			

Laboratory		TUV SUD South Asia Maharashtra	TUV SUD South Asia Pvt. Ltd., Saki Naka, Andheri (East), Mumbai, Maharashtra					
Acc	reditation Standar	d ISO/IEC 17025: 2005	ISO/IEC 17025: 2005					
Disc	cipline	Biological Testing	lss	ue Date	09.04.2014			
Cert	ificate Number	T-1416	Val	lid Until	08.04.2016			
Last Amended on		22.04.2014	Pa	ge	20 of 50			
S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection			
(Cereals, Pulses & Cereals Products (including Malt foods)	Total Plate Count	IS 5402:2012	≥10 cf	u/g			
			Chapter 3, FDA- BAM, 2001 Chapter 7-Compendium of Methods for the microbiological examination of foods, 4th edition APHA 2001		ù/g			
			ISO 4833-1:2013	≥10 cf	u/g			
		Yeast & Mold count	IS 5403:1999, (RA 2009)	≥10 cf	u/g			
			FDA-BAM-2001 (Chapter18) Chapter 20 Compendium of Methods for the microbiological examination of foods, 4th edition APHA 2001		u/g			
			ISO 21527-1:2008	≥10 cf	u/g			
			ISO 21527-2:2008	≥10 cf	u/g			
		E.Coli	FDA-BAM-2001 (Chapter 4) Chapter 8 Compendium of Methods for the microbiological examination of foods, 4 th edition APHA 2001		PN/g			
			IS 5887 (Part-1)1976, (RA 2009) Presen	t / Absent /g			
			ISO 16649-2:2001	≥10 cf	u/g			

Laboratory	TUV SUD South Asia F Maharashtra	Pvt. Ltd., Saki Naka, Andhe	eri (East), l	Mumbai,
Accreditation Standa	rd ISO/IEC 17025: 2005			
Discipline	Biological Testing	ls	sue Date	09.04.2014
Certificate Number	T-1416	Va	alid Until	08.04.2016
Last Amended on	22.04.2014	Pa	age	21 of 50
S.No. Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection
Cereals, Pulses & Cereals Products (including Malt foods)	Total Coliform counts & faecal Coliform	FDA-BAM-2002 (Chapter 4) CH-8 Compendium of Methods for the microbiological examination of foods, 4th edition APHA 2001	S	u/g, ≥3 MPN/g
		IS 5401 (Part 1) 2012	≥10 cf	u/g
		ISO 4832:2006	≥10 cf	u/g
	Staphylococcus aureus	IS 5887 (Part 2)1976, (RA 200	9) Presen	t/Absent/gm
		FDA-BAM-2001(Chapter 12) Chapter 39 Compendium of Methods for the microbiologica examination of foods, 4th edition APHA 2001		
		IS 5887 (Part 8/sec 1)2002, (RA 2012)	≥10 cf	ù/g
		IS 5887 (Part 2)1976, (RA 200	5) Presen	t/Absent/gm
		ISO 6888-1:1999	≥10 cf	u/g
	Feacal Streptococci	IS 5887(2)1976, (RA 2005)	Presen	t/Absent per 25 gm
		IS 5887(2)1976, (RA 2005)	0.3 to	110 MPN/gm

Laboratory		TUV SUD South Asia Pvt. Ltd., Saki Naka, Andheri (East), Mumbai, Maharashtra					
Accreditation Stand	ard	ISO/IEC 17025: 2005					
Discipline		Biological Testing		Issue	Date	09.04.2014	
Certificate Number		T-1416		Valid	Until	08.04.2016	
Last Amended on		22.04.2014		Page		22 of 50	
S.No. Product / Sp Material of Test		Decific Test Performed Test Method Specifica against which tests ar performed		on	Range of Testing Limits of Detection		
Cereals, Pulses & Cereals Products (including Malt foods)	Ente	erobacteriaceae	CH-8 Compendium of Meth for the microbiological examination of foods, 4th ea APHA 2001		≥10 cf	u/g	
	ISO 215		ISO 21528-2:2004		≥10 cf	u/g	
	Dete	ection of Salmonella sp.	FDA-BAM-2011(Chapter 5 Chapter 37 Compendium o Methods for the microbiolo examination of foods, 4th ea APHA 2001 IS 5887 (Part 3) 1999, (RA ISO 6579:2002	f gical dition,	Presen	t/Absent/25gm	
	Dete	ection of Shigella sp.	FDA-BAM-2001(Chapter 6 Chapter 38 Compendium of Methods for the microbiolo examination of foods, 4th e APHA 2001 IS 5887 (Part 7) 1999, (RA	gical dition,	Presen	t /Absent/25gm	
	Dete	ection of Listeria sp.	FDA-BAM-2011(Chapter 1 CH-36 Compendium of Me for the microbiological examination of foods, 4th ea APHA 2001 IS 14988 (Part 1) : 2002 ISO 11290-1:1996	thods	Presen	t/ Absent/25gm	

Laboratory		TUV SUD South Asia P Maharashtra	TUV SUD South Asia Pvt. Ltd., Saki Naka, Andheri (East), Mumbai, Maharashtra					
Acc	reditation Standar	d ISO/IEC 17025: 2005	ISO/IEC 17025: 2005					
Disc	cipline	Biological Testing	Is	sue Date	09.04.2014			
Cert	ificate Number	T-1416	Va	alid Until	08.04.2016			
Last	t Amended on	22.04.2014	Pa	age	23 of 50			
S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection			
	Cereals, Pulses &	Clostridium perfringens	IS 5887 (Part 4) 1999, (RA 200	05) Presen	t/Absent/25gm			
	Cereals Products (including Malt foods)		FDA-BAM-2001(Chapter 16)	≥10 cf	u/g			
			Chapter 34 Compendium of Methods for the microbiologics examination of foods, 4th editi APHA 2001	al Absen	u/g, Present / t per 2 g			
			IS 5887 (Part 4) 1999, (RA 200	$(05) \ge 10 \text{ cf}$	u/g,			
			ISO 7937:2004	≥10 cf	u/g,			
		Enumeration of Bacillus cereus	FDA-BAM-2012(Chapter14)	≥100 c	fu/g, ≥3 MPN/g			
			Chapter 32 Compendium of Methods for the microbiologica examination of foods, 4th editi APHA 2001 IS 5887 (Part 6) 1999, (RA 200 ISO 7932:2004	al on,				
		Detection of Vibrio cholerae and V.parahaemolyticus	FDA-BAM-2004(Chapter 9)	Presen ≥3 MP	t/ Absent per 25g / N/g			
			Chapter 40 Compendium of Methods for the microbiologics examination of foods, 4th editi APHA 2001	al $\geq 3 \text{ MP}$	t/ Absent per 25g / N/g			
			IS 5887 (Part 5) 1976, (RA 200	05) Presen	t/ Absent per 25g			
		Lactic acid bacteria	ISO 15214:1998	≥10 cf	u/g			

Laboratory			TUV SUD South Asia Pvt. Ltd., Saki Naka, Andheri (East), Mumbai, Maharashtra					
Acc	reditation Standar	d ISO	ISO/IEC 17025: 2005					
Disc	cipline	Bio	logical Testing		Issue	Date	09.04.2014	
Cert	tificate Number	T-1-	416		Valid	Until	08.04.2016	
Last Amended on		22.0	04.2014		Page		24 of 50	
S.No.	Product / Material of Test	Specific	Test Performed	Test Method Specificat against which tests are performed			of Testing / of Detection	
	Whole, Ground	Total Pla	te Count	IS 5402:2012		≥10 cfu	ı/g	
	Spices & Condiments			Chapter 3, FDA- BAM, 200 Chapter 7-Compendium of Methods for the microbiolo examination of foods, 4th e APHA 2001	gical	≥10 cfu/g		
				ISO 4833-1:2013		$\geq 10 \text{ cfu/g}$		
		Yeast & l	Mold count	IS 5403:1999 (RA 2009)		$\geq 10 \text{ cfu}$	l/g	
			FDA-BAM-2001 (Chapter Chapter 20 Compendium or Methods for the microbiolo examination of foods, 4th e APHA 2001	f gical	≥10 cfu/g			
				ISO 21527-1:2008		$\geq 10 \text{ cfu/g}$		
				ISO 21527-2:2008				
		E.Coli		IS 5887 (Part-1)1976, (RA	2009)	Present	/Absent per gm	
				FDA-BAM-2001 (Chapter Chapter 8 Compendium of Methods for the microbiolo examination of foods, 4th e APHA 2001	gical	≥3 MPN/g		
				ISO 16649-2:2001		≥10 cfu	l/g	

Laboratory		TUV SUD South Asia F Maharashtra	TUV SUD South Asia Pvt. Ltd., Saki Naka, Andheri (East), Mumbai, Maharashtra				
Ассі	reditation Standa	rd ISO/IEC 17025: 2005					
Disc	ipline	Biological Testing	I	lssue D	Date	09.04.2014	
Cert	ificate Number	T-1416		Valid U	Intil	08.04.2016	
Last Amended on		22.04.2014	I	Page		25 of 50	
S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed			of Testing / of Detection	
	Whole, Ground Spices & Condiments	Total Coliform counts & faecal Coliform	FDA-BAM-2001 (Chapter 4 Chapter 8 Compendium of Methods for the microbiolog examination of foods, 4th edi APHA 2001	ical	≥10 cfu	/g, ≥3 MPN/g	
			IS 5401 (Part 1) 2012,	-	≥10 cfu	/g	
			ISO 4832:2006	-	≥10 cfu	/g	
		Staphylococcus aureus	IS 5887 (Part 2)1976, (RA 20	005)	Present	/Absent/25gm	
			FDA-BAM-2001(Chapter 12 Chapter 39 Compendium of Methods for the microbiolog examination of foods, 4th edi APHA 2001	ical	≥10 cfu	/g,≥3 MPN/g	
			IS 5887 (Part 8/sec 1)2002, (RA 2012)	2	≥10 cfu	/g	
			ISO 6888-1:1999		≥10 cfu	/g	
		Salmonella sp.	FDA-BAM-2011(Chapter 5) Chapter 37 Compendium of Methods for the microbiolog examination of foods, 4th edi APHA 2001 IS 5887 (Part 3) 1999, (RA 2 ISO 6579:2002	ical ition,	Present	/Absent/25gm	

Laboratory TUV SUD Sou Maharashtra			Pvt. Ltd., Saki Naka, Andh	eri (East),	Mumbai,
Acc	reditation Standa	rd ISO/IEC 17025: 2005			
Disc	cipline	Biological Testing	ls	ssue Date	09.04.2014
Certificate Number Last Amended on		T-1416	v	alid Until	08.04.2016
		22.04.2014	Р	Page	26 of 50
S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection
	Whole, Ground Spices & Condiments	Shigella sp.	FDA-BAM-2001(Chapter 6) Chapter 38 Compendium of Methods for the microbiologic examination of foods, 4th edit APHA 2001 IS 5887 (Part 7) 1999, (RA 20	cal tion,	nt /Absent/25gm
		Listeria sp.	FDA-BAM-2011(Chapter 10) CH-36 Compendium of Metho for the microbiological examination of foods, 4th edit APHA 2001 IS 14988 (Part 1) : 2002 ISO 11290-1:1996	ods	nt /Absent/25gm
		Clostridium perfringens	IS 5887 (Part 4) 1999, (RA 20	005) Preser	nt/ Absent/25gm
			FDA-BAM-2001(Chapter 16)	$\geq 10 \text{ cf}$	ìu/g,
			Chapter 34 Compendium of Methods for the microbiologic examination of foods, 4th edit APHA 2001	cal Absen	ìu/g, Present / t per 2 g
			IS 5887 (Part 4) 1999, (RA 20	$(005) \ge 10 \text{ cf}$	ìu/g,
			ISO 7937:2004	≥10 cf	ĩu/g,

Laboratory		TUV SUD South Asia P Maharashtra	TUV SUD South Asia Pvt. Ltd., Saki Naka, Andheri (East), Mumbai, Maharashtra					
Acc	reditation Standa	rd ISO/IEC 17025: 2005						
Disc	cipline	Biological Testing	ls	ssue Date	09.04.2014			
Certificate Number Last Amended on		T-1416	v	alid Until	08.04.2016			
		22.04.2014	P	age	27 of 50			
S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection			
	Whole, Ground Spices & Condiments	Enumeration of Bacillus cereus	FDA-BAM-2012(Chapter14) Chapter 32 Compendium of Methods for the microbiologic examination of foods, 4th edit APHA 2001 IS 5887 (Part 6) 1999, (RA 20	cal ion,	:fu/g,≥3 MPN/g			
			ISO 7932:2004	≥100 c	:fu/g			
		Detection of Vibrio cholerae and V.parahaemolyticus	FDA-BAM-2004(Chapter 9) Chapter 40 Compendium of Methods for the microbiologic examination of foods, 4th edit APHA 2001 IS 5887 (Part 5) 1976, (RA 20	cal ion,	t /Absent/25gm			
		Enterobacteriaceae	CH-8 Compendium of Method for the microbiological examination of foods, 4th edit APHA 2001 ISO 21528-2:2004					
		Feacal Streptococci	IS 5887(2)1976, (RA 2005)		t/Absent per 25 gm			
			IS 5887(2)1976, (RA 2005)	0.3 – 1	10 MPN/gm			

Laboratory		TUV SUD South Asia P Maharashtra	TUV SUD South Asia Pvt. Ltd., Saki Naka, Andheri (East), Mumbai, Maharashtra					
Acc	reditation Standar	d ISO/IEC 17025: 2005						
Disc	ipline	Biological Testing	I	ssue Date	09.04.2014			
Cert	ificate Number	T-1416	N	/alid Until	08.04.2016			
Last Amended on		22.04.2014	I	Page	28 of 50			
S.No.	Product / Material of Test	Specific Test Performed	Test Method Specificatio against which tests are performed		e of Testing / s of Detection			
	Whole, Ground Spices &	Lactic acid bacteria	ISO 15214:1998	≥10 cf	u/g,			
	Condiments	Mesophilic aerobic spore formers	Chapter 22, 4th edition, APHA 2001	≥1 cfu	/ g			
		Mesophilic anaerobic spore formers	Chapter 23, 4th edition, APHA 2001		t / Absent / g, ≥ 3 g, ≥ 10 cfu/g			
		Thermophilic flatsour spore formers	Chapter 25, 4th edition, APHA 2001	1 cfu i	n 2 g			
8.	Nuts & Nuts Products	Total Plate Count	IS 5402:2012 Chapter 3, FDA- BAM, 2001 Chapter 7-Compendium of Methods for the microbiologi examination of foods, 4th edi APHA 2001	cal				
		Yeast & Mold count	IS 5403:1999, (RA 2009) FDA-BAM-2001 (Chapter18 Chapter 20 Compendium of Methods for the microbiologi examination of foods, 4th edi APHA 2001	cal				
		E. Coli	IS 5887 (Part-1)1976, (RA 20 FDA-BAM-2001 (Chapter 4) Chapter 8 Compendium of Methods for the microbiologi examination of foods, 4th edi APHA 2001	≥3 MP	t /Absent per gm N /gm			

Laboratory	TUV SUD South Asia I Maharashtra	TUV SUD South Asia Pvt. Ltd., Saki Naka, Andheri (East), Mumbai, Maharashtra				
Accreditation Standa	ard ISO/IEC 17025: 2005					
Discipline	Biological Testing	lss	sue Date	09.04.2014		
Certificate Number	T-1416	Va	lid Until	08.04.2016		
Last Amended on	22.04.2014	Pa	ge	29 of 50		
S.No. Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection		
Nuts & Nuts Products	Total Coliform counts & faecal Coliform	FDA-BAM-2002 (Chapter 4) Chapter 8 Compendium of Methods for the microbiologica examination of foods, 4th editio APHA 2001	1	ù/g, ≥3 MPN/g		
		IS 5401 (Part 1) 2012,	$\geq 10 \text{ cf}$	u/g		
	Staphylococcus aureus	IS 5887 (Part 2)1976, (RA 2005	5) Presen	t/ Absent/25gm		
		FDA-BAM-2001(Chapter 12) Chapter 39 Compendium of Methods for the microbiologica examination of foods, 4th editio APHA 2001	1	ù/g, ≥3 MPN/g		
		IS 5887 (Part 8/sec 1)2002, (RA 2012)	≥10 cf	ù/g		
	Salmonella sp.	FDA-BAM-2011(Chapter 5) Chapter 37 Compendium of Methods for the microbiologica examination of foods, 4th editio APHA 2001 IS 5887 (Part 3) 1999, (RA 200	l on,	t /Absent/25gm		
	Shigella sp.	FDA-BAM-2001(Chapter 6) Chapter 38 Compendium of Methods for the microbiologica examination of foods, 4th editio APHA 2001 IS 5887 (Part 7) 1999, (RA 200	l on,	t /Absent/25gm		

Laboratory		TUV SUD South Asia F Maharashtra	TUV SUD South Asia Pvt. Ltd., Saki Naka, Andheri (East), Mumbai, Maharashtra					
Acc	reditation Standa	rd ISO/IEC 17025: 2005	ISO/IEC 17025: 2005					
Disc	cipline	Biological Testing	ls	ssue Da	ate 09.04.2014			
Certificate Number Last Amended on		T-1416	۷	/alid Un	til 08.04.2016			
		22.04.2014	F	Page	30 of 50			
S.No.	Product / Material of Test	Specific Test Performed	Test Method Specificatio against which tests are performed		ange of Testing / mits of Detection			
	Nuts & Nuts Products	Detection of Listeria sp.	FDA-BAM-2011(Chapter 10) Chapter 36 Compendium of Methods for the microbiologi examination of foods, 4th edit APHA 2001 IS 14988 (Part 1) : 2002	cal	resent /Absent/25gm			
		Clostridium perfringens	IS 5887 (Part 4) 1999, (RA 20	005) Pi	resent /Absent/25gm			
			FDA-BAM-2001(Chapter 16) Chapter 34 Compendium of Methods for the microbiologi examination of foods, 4th edit APHA 2001	A cal	10 cfu/g, Present / bsent per 2 gm			
			IS 5887 (Part 4) 1999, (RA 20	005) ≥l	10 cfu/g,			
		Enumeration of Bacillus cereus	FDA-BAM-2001(Chapter14) Chapter 32 Compendium of Methods for the microbiologi examination of foods, 4th edit APHA 2001	cal	$100 \text{ cfu/g}, \ge 3 \text{ MPN/g}$			
			IS 5887 (Part 6) 1999, (RA 20	005) ≥1	100 cfu/g			
		Vibrio cholerae and V.parahaemolyticus	FDA-BAM-2004(Chapter 9) Chapter 40 Compendium of Methods for the microbiologi examination of foods, 4th edit APHA 2001 IS 5887 (Part 5) 1976, (RA 20	cal tion,	resent /Absent/25gm			

Laboratory		TUV SUD South Asia I Maharashtra	TUV SUD South Asia Pvt. Ltd., Saki Naka, Andheri (East), Mumbai, Maharashtra				
Acc	reditation Standar	d ISO/IEC 17025: 2005					
Disc	ipline	Biological Testing	I	ssue I	Date	09.04.2014	
Cert	ificate Number	T-1416	,	Valid L	Jntil	08.04.2016	
Last Amended on		22.04.2014	I	Page		31 of 50	
S.No.	Product / Material of Test	Specific Test Performed	Test Method Specificatio against which tests are performed			e of Testing / of Detection	
	Nuts & Nuts	Feacal Streptococci	IS 5887(2)1976, (RA 2005)		Present	Absent per 25 gm	
	Products		IS 5887(2)1976, (RA 2005)		0.3 to 1	10 MPN/gm	
		Enterobacteriaceae	CH-8 Compendium of Metho for the microbiological examination of foods, 4th edi APHA 2001		≥10 cfi	ı/g	
			ISO 21528-2:2004		≥10 cfi	ı/g	
9.	•	Total Plate Count	IS 5402:2012		≥10 cfi	ı/g	
	(Cooked Veg & Non-Veg Items, Snacks & Instant Mixes, Extruded Snacks, Protein Rich Extruded		Chapter 3, FDA- BAM, Chapter 7-Compendium of 20 Methods for the microbiologi examination of foods, 4th edi APHA 2001	001 ical	≥10 cfi	ı/g	
	Foods, Raw/ Processed/ Sem-	Yeast & Mold count	IS 5403:1999, (RA 2009)		≥10 cfi	ı/g	
	Processed/ Sem- Processed/ Canned/ Thermally Processed such as Dal, Pasta, Biriyani, Pizza, Burger, Veg		FDA-BAM-2001 (Chapter18 Chapter 20 Compendium of Methods for the microbiologi examination of foods, 4th edi APHA 2001	ical	≥10 cfi	ı/g	
	& Non-Veg Salad, Dosa, Idli, Samosa,	E. Coli	IS 5887 (Part-1)1976, (RA 20	009)	Present	Absent per gm	
	Chappathietc)		FDA-BAM-2001 (Chapter 4) Chapter 8 Compendium of Methods for the microbiologi examination of foods, 4th edi APHA 2001	ical	≥3 MP	N/g	

Laboratory	TUV SUD South Asia Maharashtra	TUV SUD South Asia Pvt. Ltd., Saki Naka, Andheri (East), Mumbai, Maharashtra					
Accreditation Standa	ard ISO/IEC 17025: 2005						
Discipline	Biological Testing	Issu	e Date	09.04.2014			
Certificate Number	T-1416	Valio	d Until	08.04.2016			
Last Amended on	22.04.2014	Page	;	32 of 50			
S.No. Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection			
Ready to Eat Food (Cooked Veg & Non-Veg Items, Snacks & Instant Mixes, Extruded Snacks, Protein Rich Extruded Foods, Raw/	Total Coliform counts & faecal Coliform	IS 5401 (Part 1) 2012, FDA-BAM-2001 (Chapter 4) Chapter 8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cf ≥10 cf	fu/g fu/g, ≥3 MPN/g			
Processed/ Sem- Processed/ Canned Thermally Processed such as Dal, Pasta, Biriyani, Pizza, Burger, Veg & Non Vag Selad	Staphylococcus aureus	IS 5887 (Part 2)1976, (RA 2005) IS 5887 (Part 8/sec 1)2002, FDA-BAM-2001(Chapter 12) Chapter 39 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	$\geq 10 \text{ cf}$	nt /Absent/25gm ſu/g ſu/g, ≥3 MPN/g			
Non-Veg Salad, Dosa, Idli, Samosa, Chappathietc)	, Detection of Salmonella sp.	FDA-BAM-2011(Chapter 5) Chapter 37 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 3) 1999, (RA 2009)	Preser	nt /Absent/25gm			
	Detection of Shigella sp.	FDA-BAM-2001(Chapter 6) Chapter 38 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 7) 1999, (RA 2009)	Preser	nt /Absent/25gm			

Laboratory	TUV SUD South Asia I Maharashtra	TUV SUD South Asia Pvt. Ltd., Saki Naka, Andheri (East), Mumbai, Maharashtra				
Accreditation Standar	d ISO/IEC 17025: 2005					
Discipline	Biological Testing		Issue I	Date	09.04.2014	
Certificate Number	T-1416		Valid U	Jntil	08.04.2016	
Last Amended on	22.04.2014		Page		33 of 50	
S.No. Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	on		of Testing / of Detection	
Ready to Eat Food (Cooked Veg & Non-Veg Items, Snacks & Instant Mixes, Extruded Snacks, Protein Rich Extruded	Detection of Listeria sp.	FDA-BAM-2011(Chapter 10 Chapter 36 Compendium of Methods for the microbiolog examination of foods, 4th ed APHA 2001 IS 14988 (Part 1) : 2002	f gical	Present /	/Absent/25gm	
Foods, Raw/ Processed/ Sem- Processed/ Canned/ Thermally Processed such as Dal, Pasta, Biriyani, Pizza,	Clostridium perfringens	IS 5887 (Part 4) 1999, (RA 2 FDA-BAM-2001(Chapter 1) Chapter 34 Compendium of Methods for the microbiolog examination of foods, 4th ed APHA 2001	6) gical	≥10 cfu/	/g, Present /	
Burger, Veg & Non-Veg Salad, Dosa, Idli, Samosa, Chappathietc)	Bacillus cereus	 APHA 2001 IS 5887 (Part 4) 1999, (RA 2 FDA-BAM-2012(Chapter14 Chapter 32 Compendium of Methods for the microbiolog examination of foods, 4th ed APHA 2001 	l) gical	≥10 cfu/ ≥100 cft	′g, u/g, ≥3 MPN/g	
	Vibrio cholerae and V.parahaemolyticus	IS 5887 (Part 6) 1999, (RA 2 FDA-BAM-2004(Chapter 9) Chapter 40 Compendium of Methods for the microbiolog examination of foods, 4th ed APHA 2001 IS 5887 (Part 5) 1976, (RA 2) gical lition,	≥100 cft Present /Absent/		

•		TUV SUD South As Maharashtra	TUV SUD South Asia Pvt. Ltd., Saki Naka, Andheri (East), Mumbai, Maharashtra				
Acc	reditation Standar	rd ISO/IEC 17025: 200)5				
Disc	cipline	Biological Testing	Issu	e Date	09.04.2014		
Cert	tificate Number	T-1416	Valio	d Until	08.04.2016		
Last Amended on		22.04.2014	Page	e	34 of 50		
S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection		
		Feacal Streptococci	IS 5887(2)1976, (RA 2005)	Present	t/Absent per 25 gm		
		Enterobacteriaceae	IS 5887(2)1976, (RA 2005) CH-8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfi	110 MPN/gm u/g		
			ISO 21528-2:2004	≥10 cfi	u/g		
10.	Raw & Processed Fruits & Vegetable Foods	Total Plate Count	IS 5402:2012 Chapter 3, FDA- BAM, 2001 Chapter 7-Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfi ≥10 cfi			
		Yeast & Mold count	IS 5403:1999, (RA 2009) FDA-BAM-2001 (Chapter18) Chapter 20 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfi ≥10 cfi	-		
		E. Coli	IS 5887 (Part-1)1976, (RA 2009) FDA-BAM-2002 (Chapter 4) Chapter 8 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥3 MP	t /Absent per gm N/g		

Laboratory		TUV SUD South Asia F Maharashtra	TUV SUD South Asia Pvt. Ltd., Saki Naka, Andheri (East), Mumbai, Maharashtra					
Accreditatio	n Standard	ISO/IEC 17025: 2005						
Discipline		Biological Testing	Is	sue Date	09.04.2014			
Certificate Number Last Amended on		T-1416	Va	alid Until	08.04.2016			
		22.04.2014	Pa	age	35 of 50			
S.No. Product Materia	t / I of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection			
	Processed Vegetable	Total Coliform counts & faecal Coliform	FDA-BAM-2002 (Chapter 4) Chapter 8 Compendium of Methods for the microbiologica examination of foods, 4th edition APHA 2001	al	îu/g, ≥3 MPN/g			
			IS 5401 (Part 1) 2012,	≥10 cf	ìu/g			
		Staphylococcus aureus	IS 5887 (Part 2)1976, (RA 200 FDA-BAM-2001(Chapter 12) Chapter 39 Compendium of Methods for the microbiologica examination of foods, 4th edition APHA 2001	$\geq 10 \text{ cf}$	nt/Absent/25gm fu/g, ≥3 MPN/g			
			IS 5887 (Part 8/sec 1)2012 IS 5887 (Part 2)1976, (RA 200	$\geq 10 \text{ cf}$ 5) Preser	u/g nt/Absent/25gm			
		Salmonella sp.	FDA-BAM-2011(Chapter 5) Chapter 37 Compendium of Methods for the microbiologica examination of foods, 4th edition APHA 2001 IS 5887 (Part 3) 1999, (RA 200	al on,	nt /Absent/25gm			
		Shigella sp.	FDA-BAM-2001(Chapter 6) Chapter 38 Compendium of Methods for the microbiologica examination of foods, 4th edition APHA 2001 IS 5887 (Part 7) 1999, (RA 200	al on,	nt /Absent/25gm			

Laboratory	TUV SUD South Asia F Maharashtra	TUV SUD South Asia Pvt. Ltd., Saki Naka, Andheri (East), Mumbai, Maharashtra				
Accreditation Standar	d ISO/IEC 17025: 2005					
Discipline	Biological Testing	Is	sue Date	09.04.2014		
Certificate Number	T-1416	Va	alid Until	08.04.2016		
Last Amended on	22.04.2014	Pa	age	36 of 50		
S.No. Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection		
Raw & Processed Fruits & Vegetable Foods	Listeria sp.	FDA-BAM-2011(Chapter 10) Chapter 36 Compendium of Methods for the microbiologics examination of foods, 4th editi APHA 2001 IS 14988 (Part 1) : 2002	al	tt /Absent/25gm		
	Clostridium perfringens	IS 5887 (Part 4) 1999, (RA 200	05) Presen	t/Absent/25gm		
		FDA-BAM-2001(Chapter 16) Chapter 34 Compendium of Methods for the microbiologica examination of foods, 4th edition APHA 2001		ù/g,		
		IS 5887 (Part 4) 1999, (RA 200	$05) \geq 10 \text{ cf}$	u/g,		
	Enumeration of Bacillus cereus	FDA-BAM-2012(Chapter14) Chapter 32 Compendium of Methods for the microbiologica examination of foods, 4th edition APHA 2001	al	:fu/g, ≥3 MPN/g		
		IS 5887 (Part 6) 1999, (RA 200	$(05) \ge 100 c$	cfu/g,		
	Vibrio cholerae and V.parahaemolyticus	FDA-BAM-2004(Chapter 9) Chapter 40 Compendium of Methods for the microbiologica examination of foods, 4th editi APHA 2001 IS 5887 (Part 5) 1976, (RA 200	al on,	t/ Absent/25gm		
Laboratory TUV SUD South Asia Maharashtra		Pvt. Ltd., Saki Naka, Andhe	ri (East), ∣	Mumbai,		
--	-------------------------------	---	--	-----------------------	----------------------------------	
Acc	reditation Standar	d ISO/IEC 17025: 2005				
Disc	cipline	Biological Testing	lss	sue Date	09.04.2014	
Cert	tificate Number	T-1416	Va	lid Until	08.04.2016	
Las	t Amended on	22.04.2014	Pa	ge	37 of 50	
S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection	
	Raw & Processed	Feacal Streptococci	IS 5887(2)1976, (RA 2005)	Presen	t/Absent per 25 gm	
	Fruits & Vegetable Foods		IS 5887(2)1976, (RA 2005)	0.3 – 1	10 MPN/gm	
		Lactic acid bacteria	19.522, Chapter 51, APHA 200	$1 \ge 10 \text{ cf}$	u/g,	
		Flat Sour Organisms	CH-24 Compendium of Method for the microbiological examination of foods, 4th edition APHA 2001		u /g	
		Enterobacteriaceae	CH-8 Compendium of Methods for the microbiological examination of foods, 4th edition APHA 2001 ISO 21528-2:2004		u/g,	
		Incubation at 37 ⁰ C for 10 days	IS 2860 : 1964	Compl Compl	ies/Does not ies	
		Incubation at 55 ⁰ C for 7 days	IS 2860 : 1965	Compl Compl	ies/Does not ies	
11.	Meat & Poultry Products	Total Plate Count	IS 5402:2012(, (RA 2007)	≥10 cf	u/g,	
	Troutes		Chapter 3, FDA- BAM, 2001 Chapter 7-Compendium of Methods for the microbiologica examination of foods, 4th edition APHA 2001		u/g,	

Laboratory TUV SUD South Asia Maharashtra		Pvt. Ltd., Saki Naka, Andh	eri (East),	Mumbai,
Accreditation Standar	d ISO/IEC 17025: 2005			
Discipline	Biological Testing	ls	ssue Date	09.04.2014
Certificate Number	T-1416	v	alid Until	08.04.2016
Last Amended on	22.04.2014	P	age	38 of 50
S.No. Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection
Meat & Poultry Products	Yeast & Mold count	IS 5403:1999, (RA 2009)	≥10 cf	Ĩu/g,
Troutes		FDA-BAM-2001 (Chapter18) Chapter 20 Compendium of Methods for the microbiologic examination of foods, 4th edit APHA 2001	cal	ĵu/g,
	E. Coli	IS 5887 (Part-1)1976, (RA 20	05) Presen or 25 g	nt /Absent per gm gm
		FDA-BAM-2002 (Chapter 4) Chapter 8 Compendium of Methods for the microbiologic examination of foods, 4th edit APHA 2001		PN/g
	Total Coliform counts & faecal Coliform	FDA-BAM-2002 (Chapter 4)	$\geq 10 \text{ cf}$	fu/g,≥3 MPN/g
		Chapter 8 Compendium of Methods for the microbiologic examination of foods, 4th edit APHA 2001	cal	îu/g, ≥3 MPN/g
		IS 5401 (Part 1) 2012,	≥10 cf	ìu/g,
	Staphylococcus aureus	IS 5887 (Part 2)1976, (RA 200 FDA-BAM-2001(Chapter 12) Chapter 39 Compendium of Methods for the microbiologic examination of foods, 4th edit APHA 2001	$\geq 10 \text{ cf}$	nt/Absent/25gm ìu/g,

Laboratory	Pvt. Ltd., Saki Naka, Andh	eri (East), I	Mumbai,	
Accreditation Standard	ISO/IEC 17025: 2005			
Discipline	Biological Testing	ls	ssue Date	09.04.2014
Certificate Number	T-1416	v	alid Until	08.04.2016
Last Amended on	22.04.2014	P	age	39 of 50
S.No. Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection
Meat & Poultry Products	Detection of Salmonella sp.	FDA-BAM-2011(Chapter 5) Chapter 37 Compendium of Methods for the microbiologic examination of foods, 4th edit APHA 2001 IS 5887 (Part 3) 1999, (RA 20	cal ion,	t/ Absent/25gm
	Detection of Shigella sp.	FDA-BAM-2001(Chapter 6) Chapter 38 Compendium of Methods for the microbiologic examination of foods, 4th edit APHA 2001 IS 5887 (Part 7) 1999, (RA 20	cal ion,	t/ Absent/25gm
	Detection of Listeria sp.	FDA-BAM-2011(Chapter 10) Chapter 36 Compendium of Methods for the microbiologic examination of foods, 4th edition, APHA 2001 IS 14988 (Part 1) : 2002		t/ Absent/25gm
	Detection of Clostridium perfringens	IS 5887 (Part 4) 1999, (RA 20	005) Presen	t/Absent/25gm
	Enumeration of Clostridium perfringens	FDA-BAM-2001(Chapter 16) Chapter 34 Compendium of Methods for the microbiologic examination of foods, 4th edit APHA 2001	Presen	fu/g, t / Absent per 2 g
		IS 5887 (Part 4) 1999, (RA 20	$(005) \ge 100 c$	fu/g,

Laboratory TUV SUD South Asia Maharashtra			Pvt. Ltd., Saki Naka, Andh	eri (Eas	t), Mumbai,
Acc	reditation Standar	rd ISO/IEC 17025: 2005			
Disc	cipline	Biological Testing	Is	ssue Da	te 09.04.2014
Certificate Number		T-1416	v	alid Un	til 08.04.2016
Last	t Amended on	22.04.2014	Р	age	40 of 50
S.No.	Product / Material of Test	Specific Test Performed	Test Method Specificatior against which tests are performed		ange of Testing / mits of Detection
	Meat & Poultry Products	Enumeration of Bacillus cereus	IS 5887 (Part 6) 1999, (RA 20 FDA-BAM-2012(Chapter14) Chapter 32 Compendium of Methods for the microbiologic examination of foods, 4th edite APHA 2001	≥1 cal	00 cfu/g 00 cfu/g, ≥3 MPN/g
		Detection of Vibrio cholerae and V.parahaemolyticus	FDA-BAM-2004(Chapter 9) Chapter 40 Compendium of Methods for the microbiologic examination of foods, 4th edit APHA 2001	cal ion,	esent/ Absent/25gm
		Feacal Streptococci Enumeration of Feacal	IS 5887 (Part 5) 1976, (RA 20 IS 5887 (Part 2)1976, (RA 200		esent/Absent per 25 gm
		Streptococci	IS 5887 (Part 2)1976, (RA 200	05) 0.3	3 – 110 MPN/gm
		Enterobacteriaceae	CH-8 Compendium of Method for the microbiological examination of foods, 4th editi APHA 2001		0 cfu/g
			ISO 21528-2:2004	<u>></u> 1	0 cfu/g
12.	Sugar & Sugar Products	Total Plate Count	IS 5402:2012	≥1	0 cfu/g
	Touucis		Chapter 3, FDA- BAM, 2001 Chapter 7-Compendium of Methods for the microbiologic examination of foods, 4th edite APHA 2001	cal	0 cfu/g

Laboratory	Pvt. Ltd., Saki Naka, Andł	heri (Ea	ast), M	umbai,	
Accreditation Standard	ISO/IEC 17025: 2005				
Discipline	Biological Testing	I	Issue D	Date	09.04.2014
Certificate Number	T-1416	•	Valid U	Intil	08.04.2016
Last Amended on	22.04.2014	I	Page		41 of 50
S.No. Product / Material of Test	Specific Test Performed	Test Method Specificatio against which tests are performed			of Testing / of Detection
Sugar & Sugar	Yeast & Mold count	IS 5403:1999, (RA 2009)		≥10 cfu/	g
Products		FDA-BAM-2001 (Chapter18 Chapter 20 Compendium of Methods for the microbiolog examination of foods, 4th edi APHA 2001	ical	≥10 cfu/	ģ
	E. Coli	IS 5887 (Part-1)1976, (RA 20 FDA-BAM-2002 (Chapter 4) Chapter 8 Compendium of Methods for the microbiologi examination of foods, 4th edi APHA 2001) ical	Present , ≥3 MPN	/Absent per gm I/g
	Coliform counts & faecal Coliform	FDA-BAM-2001 (Chapter 4) Chapter 8 Compendium of Methods for the microbiologi examination of foods, 4th edi APHA 2001	ical ition,		′g, ≥3 MPN/g
		IS 5401 (Part 1) 2012,		≥10 cfu/	g
	Staphylococcus aureus	IS 5887 (Part 2)1976, (RA 20 FDA-BAM-2001(Chapter 12 Chapter 39 Compendium of Methods for the microbiolog examination of foods, 4th edi APHA 2001	2) ical ition,	≥10 cfu/	Absent/25gm ′g, ≥3 MPN/g
		IS 5887 (Part 8/sec 1)2002, (RA 2012)		≥10 cfu/	g

Laboratory	TUV SUD South Asia Maharashtra	TUV SUD South Asia Pvt. Ltd., Saki Naka, Andheri (East), Mumbai, Maharashtra			
Accreditation Standar	d ISO/IEC 17025: 2005				
Discipline	Biological Testing	ls	ssue Date	09.04.2014	
Certificate Number	T-1416	v	alid Until	08.04.2016	
Last Amended on	22.04.2014	Р	age	42 of 50	
S.No. Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection	
Sugar & Sugar Products	Salmonella sp.	FDA-BAM-2001(Chapter 5) Chapter 37 Compendium of Methods for the microbiologic examination of foods, 4th edit APHA 2001 IS 5887 (Part 3) 1999, (RA 20	cal ion,	nt/ Absent/25gm	
	Shigella sp.	FDA-BAM-2001(Chapter 6) Chapter 38 Compendium of Methods for the microbiologic examination of foods, 4th edit APHA 2001 IS 5887 (Part 7) 1999, (RA 20	cal ion,	nt/ Absent/25gm	
	Listeria sp.	FDA-BAM-2011(Chapter 10) Chapter 36 Compendium of Methods for the microbiologic examination of foods, 4th edit APHA 2001 IS 14988 (Part 1) : 2002	cal	nt/ Absent/25gm	
	Clostridium perfringens	IS 5887 (Part 4) 1999, (RA 20	005) Presen	nt/Absent/25gm	
		FDA-BAM-2001(Chapter 16) Chapter 34 Compendium of Methods for the microbiologic examination of foods, 4th edit APHA 2001	Presen	ûu/g, at / Absent per 2 g	
		IS 5887 (Part 4) 1999, (RA 20	$(005) \ge 10 \text{ cf}$	ìu/g,	

Laboratory TUV SUD South Asia Maharashtra		vt. Ltd., Saki Naka, Andheri	(East),	Mumbai,
Accreditation Standa	ard ISO/IEC 17025: 2005			
Discipline	Biological Testing	Issu	ue Date	09.04.2014
Certificate Number	T-1416	Vali	d Until	08.04.2016
Last Amended on	22.04.2014	Pag	e	43 of 50
S.No. Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection
Sugar & Sugar	Enumeration of Bacillus cereus	IS 5887 (Part 6) 1999, (RA 2005)) ≥100 d	cfu/g
Products		FDA-BAM-2001(Chapter14) Chapter 32 APHA 4th Edition	≥100 0	cfu/g, ≥3 MPN/g
	Vibrio cholerae and V.parahaemolyticus	FDA-BAM-2004(Chapter 9) Chapter 40 Compendium of Methods for the microbiological examination of foods, 4th edition APHA 2001 IS 5887 (Part 5) 1976, (RA 2005)	≥3 MI	nt/ Absent per 25g / PN/g
	Feacal Streptococci	IS 5887(2)1976, (RA 2005)	Preser	nt/Absent per 25 gm
		IS 5887(2)1976, (RA 2005)	0.3 to	110 MPN/gm
	Enterobacteriaceae	CH-8 Compendium of Methods for the microbiological examination of foods, 4th edition APHA 2001	≥10 ct	fu/g
		ISO 21528-2:2004	≥10 cf	fu/g
	Lactic acid bacteria	ISO 15214:1998	≥10 cf	fu/g
	Mesophilic aerobic spore formers	CH-22 Compendium of Methods for the microbiological examination of foods, 4th edition APHA 2001		//g

Laboratory TUV SUD South Asia F Maharashtra		Pvt. Ltd., Saki Naka, Andheri	(East), Mumbai,	
Acc	reditation Standa	rd ISO/IEC 17025: 2005		
Disc	cipline	Biological Testing	Issu	e Date 09.04.2014
Cert	tificate Number	T-1416	Valio	Until 08.04.2016
Last	t Amended on	22.04.2014	Page	e 44 of 50
S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Sugar & Sugar Products	Mesophilic anaerobic spore formers	CH-23 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	Present / Absent / g, ≥3 MPN/g, >10cfu/g
		Thermophilic flatsour spore formers	CH-25 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	>1 cfu in 2 g
		Thermophilic anaerobic spore formers	CH-26 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	Present / Absent / 20 g
13.	Fish & Marine	Total Plate Count	IS 5402:2012	$\geq 10 \text{ cfu/g}$
	Products		Chapter 3, FDA- BAM, 2001 Chapter 7-Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g
		Yeast & Mold count	IS 5403:1999, (RA 2009)	$\geq 10 \text{ cfu/g}$
			FDA-BAM-2001 (Chapter18) Chapter 20 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cfu/g

Laboratory TUV SUD South A Maharashtra		Pvt. Ltd., Saki Naka, Andho	eri (East),	Mumbai,
Accreditation Standard	d ISO/IEC 17025: 2005			
Discipline	Biological Testing	Is	sue Date	09.04.2014
Certificate Number	T-1416	v	alid Until	08.04.2016
Last Amended on	22.04.2014	P	age	45 of 50
S.No. Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection
Fish & Marine Products	E. Coli	IS 5887 (Part-1)1976, (RA 200	09) Presen	t /Absent per 25 gm
Froducts		FDA-BAM-2001 (Chapter 4) Chapter 8 Compendium of Methods for the microbiologic examination of foods, 4th editi APHA 2001		PN/g
	Total Coliform counts & faecal Coliform	FDA-BAM-2001 (Chapter 4) Chapter 8 Compendium of Methods for the microbiologic examination of foods, 4th editi APHA 2001	al	ù/g, ≥3 MPN/g
		IS 5401 (Part 1) 2012,	≥10 cf	u/g
	Staphylococcus aureus	IS 5887 (Part 2)1976, (RA 200)9) Presen	t/ Absent/25gm
		FDA-BAM-2001(Chapter 12) Chapter 39 Compendium of Methods for the microbiologic examination of foods, 4th editi APHA 2001	≥3 MF	
		IS 5887 (Part 8/Sec 1) 2002 (RA 2012)	≥10 cf	u/g
		IS 5887 (Part 2)1976, (RA 200)5) Presen	t/ Absent/25gm

Laboratory TUV SUD South Asia I Maharashtra		a Pvt. Ltd., Saki Naka, Andheri	(East),	Mumbai,
Accreditation Stand	ard ISO/IEC 17025: 2005			
Discipline	Biological Testing	Issu	e Date	09.04.2014
Certificate Number	T-1416	Valio	d Until	08.04.2016
Last Amended on	22.04.2014	Page	9	46 of 50
S.No. Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection
Fish & Marine Products	Detection of Salmonella sp.	FDA-BAM-2011(Chapter 5) Chapter 37 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 3) 1999, (RA 2009)	Presen	t/ Absent/25gm
	Detection of Shigella sp.	FDA-BAM-2001(Chapter 6) Chapter 38 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 5887 (Part 7) 1999, (RA 2005)	Presen	ıt/ Absent/25gm
	Detection of Listeria sp.	FDA-BAM-2011(Chapter 10) Chapter 36 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001 IS 14988 (Part 1) : 2002	Presen	t/ Absent/25gm
	Clostridium perfringens	IS 5887 (Part 4) 1999, (RA 2009)	Presen	t/Absent/25gm
		FDA-BAM-2001(Chapter 16) Chapter 34 Compendium of Methods for the microbiological examination of foods, 4th edition, APHA 2001	≥10 cf Presen	ù/g, tt / Absent per 2 g
		IS 5887 (Part 4) 1999, (RA 2005)	$\geq 10 \text{ cf}$	ù/g,

Laboratory TUV SUD South Asia H Maharashtra		Pvt. Ltd., Saki Naka, Andh	eri (East),	Mumbai,
Accreditation Standard	ISO/IEC 17025: 2005			
Discipline	Biological Testing	ls	ssue Date	09.04.2014
Certificate Number	T-1416	v	alid Until	08.04.2016
Last Amended on	22.04.2014	P	age	47 of 50
S.No. Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	n Rang Limit	e of Testing / s of Detection
	Enumeration of Bacillus cereus	IS 5887 (Part 6) 1999, (RA 20	005) ≥100 0	cfu/g
Products		FDA-BAM-2012(Chapter14)	≥100 0	cfu/g, ≥3 MPN/g
		Chapter 32 Compendium of Methods for the microbiologic examination of foods, 4th edit APHA 2001		
	Vibrio cholerae and V.parahaemolyticus	FDA-BAM-2004(Chapter 9) Chapter 40 Compendium of Methods for the microbiologic examination of foods, 4th edit APHA 2001 IS 5887 (Part 5) 1976, (RA 20	cal tion,	tt/Absent/25gm
	Feacal Streptococci Enumeration of Feacal	IS 5887 (Part 2) 1976, (RA 20	005) Preser	t/Absent per 25 gm
	Streptococci	IS 5887 (Part 2) 1976, (RA 20	005) 0.3 to	110 MPN/gm
]	Enterobacteriaceae	CH-8 Compendium of Method for the microbiological examination of foods, 4th edit APHA 2001		ìu/g
		ISO 21528-2:2004	≥10 cf	ìu/g

Laboratory		TUV SUD South Asia Maharashtra	TUV SUD South Asia Pvt. Ltd., Saki Naka, Andheri (East), Mumbai, Maharashtra			
Acc	reditation Standar	d ISO/IEC 17025: 2005				
Disc	cipline	Biological Testing		Issue Date	09.04.2014	
Cert	ificate Number	T-1416		Valid Until	08.04.2016	
Last	t Amended on	22.04.2014		Page	48 of 50	
S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection	
II. W	ATER					
1.	Packaged Natural Mineral Water & Packaged Drinking Water	Total Plate Count @ 37°C	IS 5402:2012	<1 cfu	ı/ml	
		Total Plate Count @ 22°C	IS 5402:2012	<1 cfu	l/ml	
		Yeast & Mold count	IS 5403:1999 (RA 2005)		nt /Absent/ 250 ml	
		Detection of Escherichia coli	IS 5887(Part-1)1976 (RA 20 IS 15185:2002 RA 2007/ ISO 9308-1:2000	,	nt /Absent/ 250 ml	
		Detection of Coliform	IS 5401 : 2012, IS 15185:2002 (RA 2007)/ ISO 9308-1:2000		nt /Absent/ 250 ml	
		Staphylococcus aureus	IS 5887(Part 2)1976 (RA 20	,	nt /Absent/ 250 ml	
		Detection of Salmonella sp.	IS 5887(Part 3) 1999 (RA 20 IS 15187: 2002 (RA 2007)	,	nt /Absent/ 250 ml	
		Detection of Shigella sp.	IS 5887(Part 7) 1999 (RA 20	,	nt /Absent/ 250 ml	
		Fecal Streptococci	IS 5887(Part 2)1976 (RA 20 IS 15186:2002 (RA 2007)/ ISO 7899-2:2000		nt /Absent/ 250 ml	

Laboratory		TUV SUD South Asia I Maharashtra	TUV SUD South Asia Pvt. Ltd., Saki Naka, Andheri (East), Mumbai, Maharashtra				
Accreditation Standard		rd ISO/IEC 17025: 2005	ISO/IEC 17025: 2005				
Discipline Certificate Number		Biological Testing	Biological Testing T-1416		09.04.2014		
		T-1416			08.04.2016		
Last	Amended on	22.04.2014		Page	49 of 50		
S.No.	Product / Material of Test	Specific Test Performed Test Method S against which performed					
	Packaged Natural Mineral Water & Packaged Drinking Water	Sulphite redusing anaerobes	IS 13428:1998 (RA 2009) (Annex C)	Preser	Present/Absent/ 50 ml		
		Pseudomonas aeruginosa	IS 13428- 2009 (Annex D)		Present /Absent/ 100 to 250 ml		
		Vibrio cholerae	IS 5887(Part 5) 1976 (RA 20	/	Present /Absent/ 100 to 250 ml		
		V.parahaemolyticus	IS 5887(Part 5) 1976 (RA 20		nt /Absent/ o 250 ml		
2.	Processed water	Coliform	IS 1622-1981 (RA 1992)	≥1 MPN/100 ml			
		Proteolytic bacterial count	IS 4251:1967 (RA 1992)	≥1 cfi	$\geq 1 \text{ cfu/ml}$		
		Lipolytic bacterial count	IS 4251:1967 (RA 2009)	≥1 cfi	$\geq 1 \text{ cfu/ml}$		
		Total Plate Count@ 37°C	IS 1622-1981 (RA 2009)	≥1 cfi	$\geq 1 \text{ cfu/ml}$		
		E.coli	IS 1622-1981 (RA 2009)	<u>></u> 1 M	PN/100 ml		
3.	Drinking Water	Coliform	IS 1622-1981 (RA 2009)	≥1MPN /100 ml/Absent MPN/100 ml			
			9221 B, 9221 C, 9221 E, APHA 22nd Edition,2012	≥1.1 N	MPN/100 ml		
		E.coli	IS 1622-1981 (RA 2009)		PN /100 ml Absent /100 ml		
			9221 B, 9221 E APHA 22 nd 2012	Edn., ≥ 1.1 M	MPN/100 ml		

Laboratory Accreditation Standard Discipline Certificate Number Last Amended on		TUV SUD South Asia Maharashtra	TUV SUD South Asia Pvt. Ltd., Saki Naka, Andheri (East), Mumbai, Maharashtra ISO/IEC 17025: 2005				
		rd ISO/IEC 17025: 2005					
		Biological Testing	Biological Testing		09.04.2014		
		T-1416		Valid Until	08.04.2016		
		22.04.2014	22.04.2014		50 of 50		
S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection		
III. (COSMETICS AND ES	SSENTIAL OILS					
1.	Cosmetics (Raw Products) Cosmetics (Finished Products- Skin Care Cream, Lotions, Powders, Under Eye Gel, Lipsticks, Perfumes, Nail polish)	Total Bacterial Count	IS 14648:2011	≥10 cf	$\geq 10 \text{ cfu/g}$		
		Yeast & Mold count	IS 14648:2011	≥10 cf	$\geq 10 \text{ cfu/g}$		
		Gram Negative pathogens	IS 14648:2011	Presen	Present / Absent per gm		
		C.albicans	IS 14648:2011	Presen	Present / Absent per gm		
		Pseudomonas	IS 14648:2011	Presen	Present / Absent per gm		
		Staphylococcus aureus	IS 14648:2011	Presen	Present / Absent per gm		
IV. E	BIOCIDES						
1.	Antiseptics used in food, industrial and domestic area	S.aureus	BS EN 13697 / BS EN 1276. BS EN 1040	/ Presen	Present/Absent		
		Enterococcus hirae	BS EN 13697 / BS EN 1276 BS EN 1040	/ Presen	Present/Absent		
		E.coli	BS EN 13697 / BS EN 1276 BS EN 1040	/ Presen	Present/Absent		
		Candida albicans	BS EN 13697	Presen	Present/Absent		
		A.niger	BS EN 13697	Presen	t/Absent		

*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.