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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
!	1	!	performed	<u> </u>

BIOLOGICAL TESTING

I.	WATER			
1.	Drinking Water	Total Coli form bacteria	IS 5401:2012	Qualitative (Absent/present)/25gm
! !		Total Plate Count	IS 5402:2012 (RA 2012)	≥10 cfu/gm
! !		Yeast &Mould count	IS 5403:1999 (RA 2009)	≥10 cfu/gm
		E. Coli	IS 5887 (Part 1): 1976 (RA 2009)	Qualitative (Absent/Present)/25gm
,		Salmonella	IS 5887 (Part 3): 1999	Qualitative
: : 	 	! ! !	(RA 2009)	(Absent/Present)/25gm
		Staphylococcus aureus	IS 5887 (Part 2): 1976	Qualitative
	 	! 	(RA 2009)	(Absent/Present)/25gm
		Pseudomonas aru.	IS 13428: 2005	Qualitative
				(Absent/Present)/25gm
II.	S & PHARMACEUTIC	ALS		
1.	Raw Materials			
a.	Acacia Powder IP	E.coli	IP-2018/Page No. 45 (2.2.9)	Present/Absent/gm
b.	Alginic Acid IP	E.coli	IP-2018	Present/Absent/gm
1 1 h	 	: : •	Page No 45 (2.2.9)	
		Salmonella	IP-2018	Present/Absent/gm
	 		Page No45 (2.2.9)	
C.	Dried Aluminium	E.coli	IP-2018	Present/Absent/gm
; !	Hydroxide Gel IP	1 4	Page No-45 (2.2.9)	
d.	Purified Water	Total viable count	IP-2018	1-100cfu/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
 :			Page No 3516,45 (2.2.9)	: :
} !	† !	Pseudomonas	: IP-2018	Present/Absent/100ml
		aeruginosa	Page No 3516,45 (2.2.9)	
} ! !	† ! !	Staphylococcus aureus	IP-2018	Present/Absent/100ml
! !	i !	i , , , , , , , , , , , , , , , , , , ,	Page No 3516,45 (2.2.9)	<u> </u>
, !	T	Salmonella	IP-2018	Present/Absent/100ml
! ! L = = = = =	! !	!	Page No. 3516,45 (2.2.9)	<u> </u>
	! ! !	E.coli	IP-2018	Present/Absent/100ml
1 1 L	! ! !	! ! !	Page No 3516,45 (2.2.9)	! ! !
2.	Finished Products	 	! !	!
a.	Gentamycin	Sterility	IP-2018	Complies /Does not
	Sulphate Injection		Page No-2168- (2.2.11)	Comply
i	i IP	Assay	IP-2018	60 mg/2 ml to
	! ! #	! ! *	Page No2168 (2.2.10)	100 mg/ 2ml
b.	Gentamycin eye	Sterility	IP-2018	Complies /Does not
: }	drops	+	Page No-59 (2.2.11)	Comply
C.	Frusemide	Sterility	IP-2018	Complies /Does not
; }	Injection	: +	Page No-59 (2.2.11)	Comply
d.	Isoxsuptine	Sterility	IP-2018	Complies /Does not
	Injection	i +	Page No-59 (2.2.11)	Comply
e.	Sterilized surgical	Sterility Test	USP Vol. I,	Complies /Does not
]]]	ligature and	1 1 1	Page No. 136	Comply
	sterilized surgical			
i !	suture	i Lota ella Tart	i	i
f.	Sterile Disposable	Sterility Test	USP Vol. I ,	Complies /Does not
i	Devices for single	i i	Page No. 136	Comply
į	use only	1 	: :	į į
III.	FOOD & AGRICULT	LURAL PRODUCTS	! !	! !
		ONAL I NODOOTO	: :	į į
1.	Herbs, Spices &	Total Plate Count	IS 5402: 2012 (RA 2012)	≥10 cfu/gm

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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
	Condiments (Haldi Powder)	Yeast &Mould count E. Coli	IS 5403: 1999 (RA 2009) IS 5887 (Part 1): 1976 (RA 2009)	≥10 cfu/gm Qualitative Absent/Present)/25gm
 	†	Salmonella	IS 5887 (Part 3): 1999 (RA 2009)	Qualitative (Absent/Present)/25gm
 	! ! ! ! !	Staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2009)	Qualitative (Absent/Present)/25gm
	¦ 	Coliform Count	IS:5401(P-I)-2012	Qualitative (Absent/Present)/25gm
2.	Beverages (Non-Alcoholic Drinks) Apple	Total Plate Count Yeast &Mould count E. Coli	IS 5402: 2012 (RA 2012) IS 5403: 1999 (RA 2009) IS 5887 (Part 1): 1976	l ≥10 cfu/gm l ≥10 cfu/gm : Qualitative
 	Juice	Salmonella	(RA 2009) IS 5887 (Part 3): 1999	(Absent/Present)25/gm Qualitative
	! ! ! !	Coliform Count	(RA 2009) IS:5401(P-I)-2012	(Absent/Present)/25gm Qualitative
3.	Tomato Ketchup/	Yeast &Mould count	IS 5403: 1999 (RA 2009)	(Absent/Present)/25gm ≥10 cfu/gm
	Apple (Raw) / Mixed Fruit Jam	E. Coli	IS 5887 (Part 1): 1976 (RA 2009)	Qualitative (Absent/Present)/25gm
	! ! ! !	Salmonella	IS 5887 (Part 3): 1999 (RA 2009)	Qualitative (Absent/Present)/25gm
 	! ! ! !	Staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2009)	≥10 cfu/gm
	<u> </u>	Coliform Count	IS:5401(P-I)-2012	Qualitative (Absent/Present)/25gm
4.	Snacks and Instant Mixes	Total Plate Count Yeast &Mould count	IS 5402: 2012 (RA 2012) IS 5403: 1999 (RA 2009)	≥10 cfu/gm ≥10 cfu/gm
! ! ! ! !	; ; ; ;	E. Coli	IS 5887 (Part 1): 1976 (RA 2009)	Qualitative (Absent/Present)/25gm

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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
, , , , , ,		Salmonella	IS 5887 (Part 3): 1999 (RA 2009)	Qualitative (Absent/Present)/25gm
		Staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2009)	Qualitative (Absent/Present)/25gm
		Coliform Count	IS:5401(P-I)-2012	Qualitative (Absent/Present)/25gm
5.	Bakery & Confectionery Products (Biscuit,	Total Plate Count Yeast &Mould count E. Coli	IS 5402: 2012 (RA 2012) IS 5403: 1999 (RA 2009) IS 5887 (Part 1): 1976	≥10 cfu/gm ≥10 cfu/gm Qualitative
	Protein rich nutrition, wheat	Salmonella	(RA 2009) IS 5887 (Part 3): 1999	(Absent/Present)/25gm Qualitative
	flour biscuit, Wheat meal,		(RA 2009)	(Absent/Present)/25gm
	Bread, Food, hard-boiled	Staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2009)	≥10 cfu/gm
	confectionery, Chocolate	Coliform Count	IS:5401(P-I)-2012	Qualitative (Absent/Present)/25gm
6.	Cereals & Pulses (Cereal based	Total Plate Count Yeast &Mould count	IS 5402: 2012 (RA 2012) IS 5403: 1999 (RA 2009)	≥10 cfu/gm ≥10 cfu/gm
	Products) (maida)	E. Coli	IS 5887 (Part 1): 1976 (RA 2009)	Qualitative (Absent/Present)/25gm
		Staphylococcus aureus	IS 5887 (Part 2): 1976 (RA 2009)	Qualitative (Absent/Present)/25gm
		Coliform Count	IS:5401(P-I)-2012	Qualitative (Absent/Present)/25gm
7.	Nuts and Nuts Products	Total Plate Count Yeast &Mould count	IS 5402: 2012 (RA 2012) IS 5403: 1999 (RA 2009)	≥10 cfu/gm ≥10 cfu/gm
		E. Coli	IS 5887 (Part 1): 1976 (RA 2009)	Qualitative (Absent/Present)/25gm
j	 	Salmonella	IS 5887 (Part 3): 1999	Qualitative

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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
; ; }		Staphylococcus aureus	(RA 2009) IS 5887 (Part 2): 1976 (RA 2009)	(Absent/Present)/25gm Qualitative (Absent/Present)/25gm
8.	Milk and Dairy Products (Milk Powder)	Total Plate Count Yeast &Mould count E. Coli	IS 5402: 2012 (RA 2012) IS 5403: 1999 (RA 2009) IS 5887 (Part 1): 1976 (RA 2009)	≥10 cfu/gm ≥10 cfu/gm Qualitative
 		Salmonella Staphylococcus aureus	(RA 2009) IS 5887 (Part 3): 1999 (RA 2009) IS 5887 (Part 2): 1976	(Absent/Present)/25gm Qualitative (Absent/Present)/25gm Qualitative
i 		Coliform Count	(RA 2009) IS:5401(P-I)-2012	(Absent/Present)/25gm Qualitative (Absent/Present)/25gm.
9.	Infant Foods, Baby Foods,	Total Plate Count Yeast &Mould count	IS 5402: 2012 (RA 2012) IS 5403: 1999 (RA 2009)	i ≥10 cfu/gm i ≥10 cfu/gm
! ! ! 	Weaning Foods & Dietary Supplement	E. Coli Salmonella	IS 5887 (Part 1): 1976 (RA 2009) IS 5887 (Part 3): 1999	Qualitative (Absent/Present)/25gm Qualitative
 	(cerelac)	Staphylococcus aureus	(RA 2009) IS 5887 (Part 2): 1976 (RA 2009)	(Absent/Present)/25gm Qualitative (Absent/Present)/25gm
 	 	Coliform Count	IS:5401(P-I)-2012	Qualitative (Absent/Present)/25gm
10.	Honey	Total Plate Count Yeast &Mould count	IS 5402: 2012 (RA 2012) IS 5403: 1999 (RA 2009)	≥10 cfu/gm ≥10 cfu/gm
; } 		E. Coli Salmonella	IS 5887 (Part 1): 1976 (RA 2009) IS 5887 (Part 3): 1999	Qualitative (Absent/Present)/25gm Qualitative
: ! ! !	; 4	Staphylococcus aureus	(RA 2009) IS 5887 (Part 2): 1976	(Absent/Present)/25gm Qualitative

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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
<u>:</u>		I !	(RA 2009)	(Absent/Present)/25gm
11.	Tea	Total Plate Count	IS 5402: 2012 (RA 2012)	≥10 cfu/gm
	I I	Yeast & Mould count	IS 5403: 1999 (RA 2009)	≥10 cfu/gm
:	T I I	E. Coli	IS 5887 (Part 1): 1976	Qualitative
! !	! ! !		(RA 2009)	(Absent/Present)/25gm
•	! ! !	Staphylococcus aureus	IS 5887 (Part 3): 1999	Qualitative
!	! ! !		(RA 2009)	(Absent/Present)/25gm
!	 	Coliform Count	IS: 5401 (Part 1): 2012	Qualitative
<u> </u>	I I	i i	! !	(Absent/Present)/25gm

CHEMICAL TESTING

I.	WATER	 		
1.	Drinking Water	Colour	IS 3025 (part 4) : 1983 (RA:2017)	1 unit to 70 unit
 		рН	IS 3025 (part 11) :1983 (RA:2017)	1 to 14
i !	 	Total dissolved solids	IS 3025 (part 16) : 1984	1 mg to 10 gm /l

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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
: :			(RA: 2017)	
 	†	Taste	IS 3025 (part 7): 1984 (RA: 2017)	Aggreable to disaggreable
 	†	Turbidity	IS 3025 (part 10): 1984 (RA: 2017)	0 to 200 NTU
	 	Odour	IS 3025 (part 5):1983 (RA: 2017)	aggreable to disaggreable
r ! ! !	T	Alkalinity	IS 3025 (Part 23): 1986 (RA:2014)	0.5 to 500 mg/l
 	†	Chloride	IS 3025 (Part 32): 1988 (RA :2014)	1 to 2000 mg /l
	†	Chlorine residual	IS 3025 (Part 26): 1986 (RA:2014)	0.005 to 5 mg/l
	†	Fluoride	IS 3025 (Part 60) : 2008 (RA:2013)	1 mg/l to 10 mg /l
	†	Total hardness	IS 3025 (Part 21) : 2009 (RA:2014)	1 m g to 2000 mg/l
	†	Sulphide	IS 3025 (Part 29) :1986 (RA :2014)	1 mg/l to 200 mg/L
	†	Boron (B)	IS 3025 (part 02) :2004 (RA :2014)	1 ppb to 100 ppm
r ! ! !	T	Cadmium (Cd)	IS 3025 (part 02) :2004 (RA :2014)	1 ppb to 100 ppm
r ! ! !	†	Total Chromium (Cr)	IS 3025 (part 02) :2004 (RA :2014)	1 ppb to 100 ppm
 	†	Copper (Cu)	IS 3025 (part 02) :2004 (RA :2014)	1 ppb to 100 ppm
 	†	Iron (Fe)	IS 3025 (part 02) :2004 (RA :2014)	1 ppb to 100 ppm
	 	Lead (Pb)	IS 3025 (part 02) :2004	1 ppb to 100 ppm

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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
; :]	(RA :2014)	
 	†	Magnesium (Mg)	IS 3025 (part 02) :2004 (RA :2014)	1 ppb to 100 ppm
! !	1	Mercury (Hg)	APHA 3125 : 2012	1 ppb to 100 ppm
! !		Nickel (Ni)	IS 3025 (part 02) :2004 (RA :2014)	1 ppb to 100 ppm
		Zinc (Zn)	IS 3025 (part 02) :2004 (RA :2014)	1 ppb to 100 ppm
 	T	Arsenic (As)	IS 3025 (part 02) :2004 (RA :2014)	1 ppb to 100 ppm
 		Barium (Ba)	IS 3025 (part 02) :2004 (RA :2014)	1 ppb to 100 ppm
 	†	Manganese (Mn)	IS 3025 (part 02) :2004 (RA :2014)	1 ppb to 100 ppm
 	†	Selenium (Se)	IS 3025 (part 02) :2004 (RA :2014)	1 ppb to 100 ppm
 	†	Calcium (Ca)	IS 3025 (part 02) :2004 (RA :2014)	1 ppb to 100 ppm
 	†	Nitrate	IS 3025 (Part 34) :1988 (RA :2014)	1 mg /l to 500 mg /l
 	†	Sulphate	IS 3025 (Part 24) :1986 (RA:2014)	1 mg /l to 1000 mg/l
 	†	Molybdenium (Mo)	IS 3025 (part 02) :2004 (RA :2014)	1 ppb to 100 ppm
	T	Silver (Ag)	IS 3025 (part 02) :2004 (RA :2014)	1 ppb to 100 ppm
		Alluminium (Al)	IS 3025 (part 02) :2004 (RA :2014)	1 ppb to 100 ppm
II.	8 & PHARMACEUTIC	CALS	1	

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Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I		 	
*	 	! ! !	
	Identification by IR	•	Qualitative
Sodium I.P.	 	+	
į		•	80.0 to 120.0%
 			¦
Mefenamic Acid	Identification by IR	•	Qualitative
I.P.	¦ -	Page No. 2508 to 2510	¦
: : :	Assay (By Titration)	I.P. 2018	80.0 to 120.0%
 		Page No. 2508 to 2510	
Paracetamol I.P.	Identification by IR	I.P. 2018	Qualitative
 	 	Page No. 2853 to 2854	
! !	Assay (By Titration)	I.P. 2018	80.0 to 120.0%
! !		Page No. 2853 to 22854	!
Ranitidine HCI I.P	Identification by IR	I.P. 2018	Qualitative
! !		Page No. 3094 to 3095	!
I I	Assay (By HPLC)	I.P. 2018	80.0 to 120.0%
! !		Page No. 3094 to 3095	!
Albendazole I.P.	cation by IR	I.P. 2018	Qualitative
! !		Page No. 1168 to 1169	!
I I	by UV	I.P. 2018	80.0 to 120.0%
! !		Page No. 1168 to 1169	
Amoxicilline	cation by IR	I.P. 2018	Qualitative
Trihydrate I.P.		Page No. 1230 to 1231	<u> </u>
I	py HPLC	I.P. 2018	80.0 to 120.0%
! !	 	Page No. 1230 to 1231	ļ
Glycerin I.P.	Assay (by Titration)	I.P. 2018	80.0 to 120.0%
!		Page 2183 to 2184	
Ornidazole I.P.	¦ Assay	I.P.	80.0 to 120.0%
 	(by Potentiometer)	Page No. 2796 to 2797	!
	aterials Diclofenac Sodium I.P. Mefenamic Acid I.P. Paracetamol I.P. Ranitidine HCI I.P Albendazole I.P. Amoxicilline Trihydrate I.P.	aterials Diclofenac Sodium I.P. Assay (By Potentiometer) Mefenamic Acid I.P. Assay (By Titration) Paracetamol I.P. Identification by IR Assay (By Titration) Ranitidine HCI I.P Identification by IR Assay (By Titration) Ranitidine HCI I.P Assay (By HPLC) Albendazole I.P. py UV Amoxicilline Trihydrate I.P. py HPLC Glycerin I.P. Assay (by Titration) Assay (by Titration) Assay (By HPLC) Assay (By HPLC)	Of Test

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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
i.	Acceclofenac	Assay (by HPLC)	I.P. 2018 Page No. 1143 to 1145	80 .0 to 120.0%
j.	Ambroxol HCI	Assay (by HPLC)	I.P. 2018 Page No. 1197 to 1198	80 .0 to 120.0%
k.	Ascorbic acid	Assay (by Titration)	I.P. 2018 Page No. 1270 to 1271	80 .0 to 120.0%
l.	Levocetrizine Hcl	Assay (by Potentiometer)	I.P. 2018 Page No. 2413 to 2414	80 .0 to 120.0%
m.	Purified Water	Acidity or Alkalinity	IP 2018 Page No: 3516 to 3517	Qualitative
		Nitrates	IP 2018 Page No: 3516 to 3517	Qualitative
		Oxidisable substances/ Total Organic Carbon	IP 2018 Page No: 3516 to 3517	Qualitative
2.	Finished Products	<u>.</u>	<u> </u>	! !
a.	Ofloxacin Tablet I.P.	Assay (By HPLC)	I.P. 2018 Page No. 2769 to 2770	80.0 to 120.0%
b.	Paracetamol Tablet I.P.	Assay (By UV)	I.P. 2018 Page No. 2858	80.0 to 120.0%
C.	Diclofenac Injection	Assay (By HPLC)	I.P. 2018 Page No. 1809	80.0 to 120.0%
d.	Albendazole Tablets I.P.	Assay (By UV)	I.P. 2018 Page No. 1170	80.0 to 120.0%
е.	Metronidazole Tablets I.P.	Assay (By Titration)	I.P. 2018 Page No. 2598 to 2599	80.0 to 120.0%
f.	Amoxycilline Oral Suspension	Assay (By HPLC)	I.P. 2018 Page No. 1232 to 1233	80.0 to 120.0%
g.	Hydrogen Peroxide Solution	Assay (By Titration)	I.P. 2018 Page No. 2231 to 2232	80.0 to 120.0%

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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
r · : : :	I.P.20 volume	,	,	
III.	POLLUTION & ENVIRONMENT		;	
1.	Effluent Water	рН	IS 3025 (part 11) :1983 (RA: 2017)	1 to 14
· - - - -		BOD	IS 3025 (part 44) :1993 (RA:2014)	10 mg to 1500 mg/l
· 		COD	IS 3025 (part 58) :2006 (RA:2017)	1 to 500 mg/l
		Oil & Grease	IS 3025 (part 39) :1991 (RA:2014)	1 to 20 gm /ltr
· 		Temperature	IS 3025 (part 09) :1984 (RA:2017)	5 to 60 °C
· - - -		Suspended Solids	IS 3025 (part 17) :1984 (RA:2017)	10 mg to 100 gm /ltr
· - - -		Dissolve Solids	IS 3025 (part 16) :1984 (RA:2017)	10 mg to 10 gm/ I
· - - - -		Arsenic (as As)	IS 3025 (part 02) :2004(RA :2014)	1 ppb to 100 ppm
		Mercury (as Hg)	APHA 3125 : 2012	1 ppb to 100 ppm
, · · · · · · · · · · · · · ·		Lead (as Pb)	IS 3025 (part 02) :2004(RA :2014)	1 ppb to 100 ppm
· - - -		Cadmium (as Cd)	IS 3025 (part 02) :2004(RA :2014)	1 ppb to 100 ppm
r · · · · · · · · · · · · · ·		Total Chromium(as Cr)	IS 3025 (part 02) :2004(RA :2014)	1 ppb to 100 ppm
r · · · · · · · · · · · · · ·		Copper (as Cu)	IS 3025 (part 02) :2004(RA :2014)	1 ppb to 100 ppm
 		Zinc (as Zn)	IS 3025 (part 02) :2004(RA :2014)	1 ppb to 100 ppm

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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
 		Selenium (as Se)	IS 3025 (part 02) :2004(RA :2014)	1 ppb to 100 ppm
		Nickel (as Ni)	IS 3025 (part 02) :2004(RA :2014)	1 ppb to 100 ppm
		Boron (as B)	IS 3025 (part 02) :2004(RA :2014)	1 ppb to 100 ppm
		Percent Sodium	IS 3025 (part 02) :2004(RA :2014)	1% to 10 %
		Iron	IS 3025 (part 02) :2004(RA :2014)	1 ppb to 100 ppm
		Manganese	IS 3025 (part 02) :2004(RA :2014)	1 ppb to 100 ppm
		Vanadium	IS 3025 (part 02) :2004(RA :2014)	1 ppb to 100 ppm
IV.	ATMOSPHERIC POI	LUTION		
1.	Air Quality	Suspended Particulates Matter (PM 2.5)	IS 5182(Part 4) :1999 (RA :2014)	10 ug to5000 µg/m3
r		Respirable Particulate Matter (PM 10)	IS 5182 (Part23) :2006 (RA:2017)	10 ug to5000 μg/m3
		Sulphur Dioxide (SO ₂)	IS 5182 (part 02) :2001 (RA:2017)	10 ug to5000 μg/m3
		Oxides of Nitrogen as NO ₂	IS 5182 Part 06) :2006 (RA:2017)	10 ug to5000 μg/m3
V.	FOOD AND AGRICULTURAL PRODUCTS			
1.	Spices & condiments chili	Extraneous matter & other refractions	IS 1797: 2017	0.1-20gm/ 100gm

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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
 	powder haldi	Moisture	IS 1797: 2017	0.5-50gm/100gm
	Coriander	Total ash	IS 1797: 2017	0.01-25gm/ 100gm
	1	Acid insoluble ash	IS 1797: 2017	0.01- 10gm/100gm
		Cold water soluble extract	IS 1797: 2017	0.2-75gm/100gm
	!	Alcohol soluble Extract	IS 1797: 2017	0.2-75gm/100gm
		Calcium as Calcium oxide	IS 1797: 2017	0.1-10gm/100gm
	†	Non Volatile Ether Extract	IS 1797: 2017	0.1-50gm/100gm
	1 1	Volatile oil content	IS 1797: 2017	0.05-25gm/ 100gm
2.	Honey & Honey	Specific Gravity at 27°C	IS 4941: 1994 (RA 2014)	1.1 to 1.55
	Products	Moisture	IS 4941: 1994 (RA 2014)	5-25gm/ 100gm
	1	Total Ash	IS 4941: 1994 (RA 2014)	0.1-10gm/ 100gm
	1	Total reducing sugar	IS 4941: 1994 (RA 2014)	1.0-80gm/100gm
	1 1	Fructose / Glucose ratio	IS 4941: 1994 (RA 2014)	0.5 to 4.0
 	I I	Acidity (as Formic acid)	IS 4941: 1994 (RA 2014)	0.01-2.0gm/100gm
	 	Sucrose	IS 4941: 1994 (RA 2014)	0.2-20gm/100gm
		Optical density at 660nm	IS 4941: 1994 (RA 2014)	0.1 to 1.2
	1	Hydroxymethyl Furfural	IS 4941: 1994 (RA 2014)	1.0 mg/kg to 200mg /kg
	!	Fiehe's test	IS 4941: 1994 (RA 2014)	Positive/Negative
3.	Bakery Products	Moisture	IS 12711: 1989 (RA 2015)	0.50-50gm/ 100gm
	1	Ash	IS 12711: 1989 (RA 2015)	0.2-20gm/100gm
 	1	Acid insoluble ash	IS 12711: 1989 (RA 2015)	0.2-15gm/100gm
	1	Total solid content	IS 12711: 1989 (RA 2015)	5.0-95gm/100gm
	! !	pH of aqueous extract	IS 12711: 1989 (RA 2015)	0.05-10gm/100gm
4.	Processed food	Moisture	IS 6287: 1985 (RA 2015)	0.1-40 gm /100gm
! ! •	Chewing Gum /	Sulphated Ash	IS 6287: 1985 (RA 2015)	0.1-20gm/100gm
! ! •	Bubble Gum	Acid Insoluble Ash	IS 6287: 1985 (RA 2015)	0.05-10gm/100gm

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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
	 	Sucrose	IS 6287: 1985 (RA 2015)	1.0-90gm/100gm
	1	Reducing Sugar	IS 6287: 1985 (RA 2015)	1.0-90gm/100gm
5.	Sugar	Moisture	IS 6287: 1985 (RA 2015)	0.5-40gm/100gm
	Confectionary	Total Ash	IS 6287: 1985 (RA 2015)	0.1-20gm/100gm
	1	Acid Insoluble Ash	IS 6287: 1985 (RA 2015)	0.1-10gm/100gm
	1	Sucrose	IS 6287: 1985 (RA 2015)	1.0-80gm/100gm
	1	Fat	IS 6287: 1985 (RA 2015)	1.0-50gm/100gm
6.	Alcoholic Drinks	Residue on Evaporation	IS 3752: 2005 (RA 2015)	0.02-25gm/100 gm
	& Beverages	Volatile Acids	IS 3752: 2005 (RA 2015)	5.0-50 gm/100 L
	1	Higher Alcohols	IS 3752: 2005 (RA 2015)	5.0-50gm/100 L
	1	Aldehydes	IS 3752: 2005 (RA 2015)	0.02-25gm/100L
	1	Furfural	IS 3752: 2005 (RA 2015)	5.0-50gm/100 L
	1	Methyl Alcohol	IS 3752: 2005 (RA 2015)	5.0-50gm)/100 L
	1	Ethyl alcohol	IS 3752: 2005 (RA 2015)	0.5.0-50gm/100 L
7.	Fruit & Vegetable	Acidity (as Citric Acid)	IS 2860 1964 (RA 2013)	0.1-10 gm/100 gm
	Products	Sodium Chloride in Brine	IS 2860 1964 (RA 2013)	1.0-70gm/100gm
	1	Drain weight	IS 2860 1964 (RA 2013)	0.5-80gm/ 100g
8.	Cereals & pulses	Moisture	IS 4333 (Part 2): 2017	1.0-30gm/100gm
	(Whole/Dals and Products)	Foreign matter	IS 4333 (Part 1): 1996 (RA 2017)	0.05-20gm/100gm
		Other food grain	IS 4333 (Part 1): 1996 (RA 2017)	0.05-20gm/100gm
		Damaged, discolored and insect damaged grains	IS 4333 (Part 1): 1996 (RA 2017)	0.05-20gm/100gm
	; !	Broken and unhusked grains	IS 4333 (Part 1): 1996 (RA 2017)	0.05-20gm/100gm
	†	Rodent hair and Excreta	IS 4333 (Part 1): 1996 (RA 2017)	0.05-20gm/100gm
	1 1 4	Gluten in maida	IS 1009:1979 (RA 2015)	1.0-30gm/100gm

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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
9.	Milk (Raw and Processed)	Total Ash in maida Fat	IS 1009:1979 (RA 2015) IS 1479 (part-2):1961 (RA 2018)	0.1-10gm/100gm 0.5-99gm/100gm
	 	Acidity pH	IS 1479(part 1): 2016 IS1479 (Part 2): 1961 (RA 2018)	0.01 % to 10% 1 to 14
	†	Total Solids	IS1479 (Part 2): 1961 (RA 2018)	1 % to 99 %
	: !	Density Milk AdutIrants	IS 1183 : 1965	0 to 5
	! !	starch	IS 1479(part 1): 2016	Present/absent
	1 1 1	Cane sugar	IS 1479(part 1): 2016	Present/absent
! ! 	! ! *	Test for boric acid	IS 1479(part 1): 2016	Present/absent
 	! ! *	Teat for Formaldehyde	IS 1479(part 1): 2016	Present/absent
 	! ! †	Test for Salicylic Acid	IS 1479(part 1): 2016	Present/absent
 	i ! ! !	Test for Hydrogen Peroxide	IS 1479(part 1): 2016	Present/absent
	; ; ; ;	Detection of Hypochlorite	IS 1479(part 1): 2016	Present/absent
 	: 	Rosalic acid test for Carbonate.	IS 1479(part 1): 2016	Present/absent
! ! •	! ! †	Bromothymol Blue Test	IS 1479(part 1): 2016	Present/absent
10.	Milk Powder Infant	Moisture	IS 1165:2002 (RA 2018)	0.1 % to 50 %
	Milk Substitute	Total Ash	IS 1165:2002 (RA 2018)	0.01 % to 20 %
! ! !		Fat	IS 1165:2002 (RA 2018)	0.1 % to 50 %
	: 	Titrable Acidity	IS 1165:2002 (RA 2018)	0.01 % to 10 %
11.	Tea and Tea	Dry Matter/ Moisture	IS 13852:1994 (RA 2014)	1 % to 99 %
! 	Products	Total Ash	IS 13854:1994 (RA 2014)	0.1 % to 20 %
! 	! 	Acid Insoluble Ash	IS 13857:1993 (RA 2014)	0.02 % to 10 %
<u> </u>	I 4	Water Soluble Ash	IS 13855:1993 (RA 2014)	0.1 % to 99 %

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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
 i !		Water Soluble Extract	IS 13862:1999 (RA 2014)	1 % to 99 %
12.	Roasted and	Moisture	IS 3077:1992 (RA 2014)	0.05-10%
! !	ground coffee	Total Ash	IS 3077:1992 (RA 2014)	0.5-6.0%
! !	 	Acid Insoluble Ash	IS3077:1992 (RA 2014)	0.02-10%
! !	 	Water Soluble Matter	IS3077:1992 (RA 2014)	0.5-90%
! !	I I	Petroleum Ether Extract	IS3077:1992 (RA 2014)	0.5-90%
13.	Oil and Fats	Moisture & Volatile	IS 548 (Part 1): 1964	0.02-5.0gm/100g
1 1 	! ! \$	matter	(RA 2015)	! ! !
	! !	Specific gravity	IS 548 (Part 1): 1964	0.86-0.968
: : }	 	1 1 4	(RA 2015)	! ! #
<u>.</u>		Refractive index	IS 548 (Part 1): 1964	1.33-1.5
; }	' 	 	(RA 2015)	; +
!	i I I	Melting point	IS 548 (Part 1): 1964	10°C-100°C
; }	; 	i +	(RA 2015)	i +
! !	I I I	Saponification value	IS 548 (Part 1): 1964	1-500
i }	i 	i #	(RA 2015)	i i
1 1 1	 	Acid value	IS 548 (Part 1): 1964 (RA 2015)	0.05-50
} · !		Unsaponifiable matter	IS 548 (Part 1): 1964	0.3-5%
	; 	i +	(RA 2015)	i +
		lodine value	IS 548 (Part 1): 1964 (RA 2015)	1-500
Ь ! !		fatty acid profile by GC	1 1	i
· ! !	• 	Palmitic Acid	IS 5483:1976 (RA 2012)	1.0% to 100.0%
· ! !		Stearic Acid	IS 5483:1976 (RA 2012)	1.0% to 100.0%
i !		Oleic Acid	IS 5483:1976 (RA 2012)	1.0% to 100.0%
		Linoleic Acid	IS 5483:1976 (RA 2012)	1.0% to 100.0%
·	*	Linoleic Acid	IS 5483:1976 (RA 2012)	1.0% to 100.0%
·	T	Baudouin Test (sesam	IS 548 (Part 2): 1976	Qualitative
! ! L	! !	seed oil)	(RA 2015)	<u> </u>

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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
r		Halphen Test	IS 548 (Part 2): 1976 (RA 2015)	Qualitative
!	!	(Cotton seed oil)	!	!
		Hexa Bromide Test (linseed oil)	IS 548 (Part 2): 1976 (RA 2015)	Qualitative
		Test for tea seed oil in olive oil	IS 548 (Part 1): 1964 (RA 2015)	Qualitative
		Castor oil	IS 548 (Part 2): 1976 (RA 2015)	Qualitative
! ! !	 	Argemone oil	IS 548 (Part 2): 1976 (RA 2015)	Qualitative
	! ! ! !	Mineral oil	IS 548 (Part 2): 1976 (RA 2015)	Qualitative
! ! !	1 1 1 1 1	Insoluble impurities	IS 548 (Part 1): 1964 (RA 2015)	Qualitative
	! ! ! !	Peroxide Value	IS 548 (Part 1): 1964 (RA 2015)	0.5-100mEq/1000gm