

Laboratory **Choksi Laboratories Limited, Plot No. # 362, Industrial Area, Phase-II, Panchkula, Haryana**

Accreditation Standard **ISO/IEC 17025: 2005**

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BIOLOGICAL TESTING

I FOOD & AGRICULTURE PRODUCTS				
1.	Milk & Milk Products	Total Bacterial Count	IS 5402:2012	≥10 cfu/ml or g
		Yeast and Mould	IS 5403: 1999, RA 2009	≥10 cfu/ml or g
		Salmonella	IS 5887(Part-3): 1999, RA 2005	Absent/ Present per 25 g or ml
		E.coli	IS 5887(Part-1): 1976, RA 2009	≥10 cfu/ml or g
2.	Cereal Food/ Food Grain Products (including Bakery Products)	Salmonella	IS 5887(Part-3): 1999 , RA 2009	Absent / Present per 25g
		E.coli	IS 5887(Part-1): 1976, RA 2005	≥10 cfu/g Absent or Present /25g
3.	Spices and Condiments	Salmonella	IS 5887(Part-3): 1999, RA 2005	Absent / Present per 25g
4.	Ready-to-eat Foods	Total Bacterial Count	IS 5402:2012	≥10 cfu /g
		Yeast and Mould	IS 5403: 1999, RA 2009	≥10 cfu /g
		Staphylococcus aureus	IS 5887(Part-2): 1976, RA2012 IS 5887(Part-8/SEC.2)-2002,RA 2012	Absent or Present per g
II. WATER				
1.	Potable Water	E.coli	IS:1622:1981,RA 2009 (Membrane filtration technique)	(Present/Absent)/100ml
		Total Coliform	IS:1622:1981, RA 2009 (Membrane filtration technique)	(Present/Absent)/100ml

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III.	DRUGS & PHARMACEUTICALS			
1.	Pharmaceutical Raw materials and formulations (Tablets, Capsule, Oral Suspension, Injections, Ointment & Creams, Parenteral, Ophthalmic Preparation, Ear/Nasal Preparation & Topical Solution) and herbal product)	Total Aerobic Viable Count	IP 2018 (2.2.9) Vol-I	≥10 cfu/g or ml
		Total Fungal Count	IP 2018 (2.2.9) Vol-I	≥10 cfu/g or ml
		E.coli	IP 2018 (2.2.9) Vol-I	Absent/Present per ml or g

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CHEMICAL TESTING				
I.	DRUGS & PHARMACEUTICALS			
1.	Finished Products (General tests)	Average weight	IP 2018 Vol. 2 & 3 for individual products	0.025 g to 2 g
		Average fill/ volume	IP 2018 Vol. 2	1 ml to 15 ml
		Disintegration time	IP 2018 Vol. 1 p299	1 min to 180 min
		Dissolution	IP 2018 Vol. 1 p302	15 % to 120 %w/w (of Label claim)
		Identification	IP 2018 Vol. 2 & 3	Qualitative
		Uniformity of content	IP 2018 Vol. 1 p308	60% to 120% w/w (of avg. value)
		Uniformity of weight	IP 2018 Vol. 1 p308 & Vol. 2 p1119	5% to 10% of avg. wt.
		Water	IP 2018 Vol. 1	0.1% to 70 %
		Weight per ml	IP 2018 Vol. 1 p256	0.6 g/ml to 2 g/ml
	pH	IP 2018 Vol. 1 p215	1 to 14	
2.	Tablet			
a.	Amlodipine	Assay	IP 2018 Vol. 2 p1221	80% to 120 %w/w (of Label claim)
		Related Substances	IP 2018 Vol. 2 p1221	0.25% to 0.75 % w/w
		(a) Amlodipine Impurity D		
	(b) Sum of all other impurities			0.25% to 0.75 % w/w
b.	Amoxicillin	Assay	IP 2018 Vol. 2 p1232	70% to 120 % w/w/ (of Label claim)
		Assay	USP 39 Vol.2 p2523	70 % to 120 % w/w (of Label claim)

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c.	Ampicillin	Assay	IP 2018Vol.2 p1241	70% to 120 % w/w (of Label claim)
		Assay	USP 39 Vol. 2 p2544	70% to 120 % w/w (of Label claim)
d.	Atorvastatin	Assay	IP 2018 Vol. 2 p1288	70 % to 120 % w/w (of Label claim)
		Related Substances	IP 2018 Vol. 2 p1288	0.5 % to 1.5 % w/w
		(a) Any impurity		
		(b) Sum of all impurities		2% to 6 % w/w
e.	Azithromycin	Assay	IP 2018Vol. 2 p1314	70%to 120 % w/w (of Label claim)
		Related Substances	IP 2018 Vol. 2 p1313	0.1% to 3% w/w
		(a) Azithromycin Impurity B		
		(b) Sum of all Impurities		1.5 % to 4.5 % w/w
f.	Cefadroxil	Assay	IP 2018 Vol. 2 p1510	70% to 120 % w/w (of Label claim)
g.	Cephalexin	Assay	IP 2018 Vol. 2 p1557	70% to 120 % w/w (of Label claim)
h.	Cetirizine	Assay	IP 2018 Vol. 2 p1560	70 % to 120 % w/w (of Label claim)
		Related Substances	IP 2018 Vol. 2 p1560	0.25% to 0.75 % w/w
		(a) Any individual impurity		
		(b) Sum of all impurities		0.5 % to 1.5 % w/w
i.	Ciprofloxacin	Assay	IP 2018 Vol. 2 p1631	70% to 120 % w/w (of Label claim)
		Assay	USP 39Vol. 2 p 3164	70% to 120 % w/w (of Label claim)
g.	Cinnarzine	Assay	IP 2018 Vol. 2 p1625	70% to 120% w/w (of Label claim)

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		Related Substances (a) Any individual Impurity	IP 2018 Vol. 2 p1625	0.125% to 0.375 % w/w
		(b) Sum of all impurities		0.25% to 0.75 % w/w
h.	Enalapril Maleate	Assay	IP 2018 Vol.2 p 1940	70 % to 120 % w/w (of Label claim)
i.	Folic acid	Assay	IP 2018 Vol. 2 p 2122	70% to 120 % w/w (of Label claim)
		Hydrolysis products	IP 2018 Vol. 2 p 2121	Qualitative
		N- (4 Aminobenzyl) L- glutamic Acid		Qualitative
		4 -Amino benzoic Acid		Qualitative
		Assay	BP 2017 Vol. III p632	70% to 120 % w/w (of Label claim)
		Hydrolysis products	BP 2017 Vol. III p632	Qualitative
		N- (4 Aminobenzyl) L-glutamic Acid		Qualitative
		4 -Aminobenzoic Acid		Qualitative
j.	Ibuprofen	Assay	IP 2018 Vol. 2 p2265	75% to 120 % w/w (of Label claim)
k.	Levofloxacin	Assay	IP 2018 Vol. 2 p2426	70 % to 120 % w/w (of Label claim)
		Related Substances	IP 2018 Vol. 2 p2426	0.25% to 0.75 % w/w
		(a) Any individual Impurity		
		(b) Sum of all impurities		0.5 % to 1.5 % w/w
l.	Metformin	Assay	IP 2018 Vol. 2 p2548	70% to 120 % w/w (of Label claim)
		Related Substances	IP 2018 Vol. 2 p2548	Qualitative
		(a) Dicyandiamide		
		(b) Any other impurity		Qualitative
m.	Metronidazole	Assay	IP 2018 Vol. 2 p 2599	75% to 120 % w/w (of Label claim)

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n.	Ondansetron (O.D)	Assay	USP 39Vol. 3 p 5158	70% to 120 % w/w (of Label claim)
		Related Substances	IP 2018 Vol. 3 p 2790	
			IP 2018,Vol. 3 p 2789	0.1% to 0.3 % w/w
		(a) 2-methylimidazole		
		(b) Ondansetron impurity D		0.1 % to 0.3 % w/w
	Ondansetron	(c) Individual impurity		0.1% to 0.3 % w/w
		(d) Total impurities		0.25% to 0.75 % w/w
		Assay	IP 2018Vol 3 p2792	75 % to 120 % w/w (of Label claim)
		Related Substances	IP 2018Vol- 3 p2792	0.1% to 0.3 % w/w
		(a) 2-methylimidazole		
	Paracetamol	(b) Ondansetron impurity D		
		(c) Individual impurity		
		(d) Total impurities		0.25% to 0.75 % w/w
		Assay	IP 2018 Vol.3 p 2858	75 % to 120 % w/w (of Label claim)
		Related Substances	IP 2018 Vol.3 p2858	Qualitative
	Trimethoprim&Sulphamethoxazole	4 – Aminophenol		
		4 – Chloroacetanilide		5 ppm to 15 ppm
		Any other impurity		0.125% to 0.375 %w/w
		Assay	BP 2017 Vol.III p1005	75% to 120 % w/w (of Label claim)
		Related Substances	BP 2017 Vol.III p1005	0.05% to 0.15 % w/w
	Trimethoprim&Sulphamethoxazole	(a) 4-Aminophenol		
		(b)4-Chloroacetanilide		5 ppm to 15 ppm
		(c)Any other impurity		0.125 % to 0.375 % w/w
	Trimethoprim&Sulphamethoxazole	Assay-Trimethoprim	IP 2018 Vol. 3 p 3442	75% to 120 % w/w
		Assay-Sulphamethoxazole		75% to 120 % w/w

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3.	Other finished Products			
a.	Amoxicillin (capsules)	Assay	IP 2018 Vol. 2 p1231	70% to 120 % w/w (of Label claim)
		Assay	BP 2017 Vol. III p142	70 % to 120 % w/w (of Label claim)
		<u>Related Substances</u> Any individual impurity	BP 2017 Vol. III p142	0.5% to 1.5 % w/w
		Assay	USP 39Vol. 2 p2521	70% to 120 % w/w (of Label claim)
b.	Ampicillin (capsules)	Assay	BP 2017 Vol. III p147	75% to 120 % w/w (of Label claim)
		<u>Related Substances</u> Any individual impurity	BP 2017 Vol. III p147	0.5% to 1.5 % w/w
		Assay	USP 39Vol. 2 p2540	70% to 120 % w/w
c.	Ampicillin (Inj.)	Assay	IP 2018 Vol. 2 p1243	75% to 120 % w/w (of Label claim)
d.	Cephalexin (Capsules)	Assay	IP 2018 Vol. 2 p1554	70% to 120 % w/w (of Label claim)
e.	Cloxacillin (capsules)	Assay	IP 2018 Vol. 2 p1683	75% to 120 % w/w (of Label claim)
f.		Assay	USP 39Vol. 2 p3267	70 % to 120 % w/w (of Label claim)
g.	Clotrimazole (cream)	Assay	IP 2018 Vol. 2 p1680	75% to 120 % w/w (of Label claim)
		2-Chlorotritanol	IP 2018 Vol. 2 p1680	Qualitative
		Assay	BP 2017 Vol. III p374	75 % to 120 % w/w (of Label claim)
		2-Chlorotritanol	BP 2017 Vol. III p374	0.5% to 1.5 % w/w
h.	Cefadroxil (capsules)	Assay	IP 2018 Vol. 2 p1509	70% to 120 % w/w (of Label claim)
i.	Cefadroxil (O.S)	Assay	IP 2018 Vol. 2 p1507	70% to 120 % w/w (of Label claim)

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j.	Cefixime (O.S)	Assay	USP 39Vol. 2 p 3002	70% to 120 % w/w (of Label claim)
k.	Ciprofloxacin (eye drops)	Assay	IP 2018 Vol. 2 p11630	70% to 120 % w/w (of Label claim)
l.	Ciprofloxacin (inj)	Assay	IP 2018 Vol. 2 p1627	70 % to 120 % w/w (of Label claim)
m.	Diclofenac Gel	Assay	BP2017 III Vol. III p 473	75% to 120 % w/w (of Label claim)
n.	Diclofenac (Inj.)	Assay	IP 2018 Vol. 2 p1809	75 % to 120 % w/w (of Label claim)
o.	Ondansetron (Inj.)	Assay	USP 39Vol. 3 p 5153	70% to 120 % w/w (of Label claim)
		Related Substances	USP 39Vol. 3 p 5153	0.1% to 0.3 % w/w
p.	Ondansetron (O.S)	Assay	USP 39Vol. 3 p5152	70% to 120 % w/w (of Label claim)
		Related Substances	USP 39Vol. 3 p5152	0.05% to 0.15 % w/w
		(a)Ondansetron related compound 'D'		
		(b) Imidazole		0.1% to 0.3 % w/w
		(c) 2-methylimidazole		0.1% to 0.3 % w/w
		(d) Des-C-methyl ondansetron HCl		0.1% to 0.3 % w/w
		(e) N-Desmethyl ondansetronMaleate		0.1% to 0.3 % w/w
		(f) Ondansetron related compound 'A'		0.1% to 0.3 % w/w
		(g) Unknown impurity		0.1 % to 0.3 % w/w
		(h) Total impurities		0.25 % to 0.75 % w/w
q.	Paracetamol (O.S)/ Syrup	Assay	IP 2018 Vol.3 p2855	75% to 120 % w/w (of Label claim)
		Assay	BP 2017 Vol.III p1002	75% to 120 % w/w (of Label claim)

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		Assay	USP 39Vol.2p2296	70% to 120% w/w (of Label claim)
r.	Piroxicam (capsules)	Assay	IP 2018 Vol. 3 p 2950	75 % to 120 % w/w (of Label claim)
s.	Sulphamethoxazole & Trimethoprim (O.S)	Assay– Sulphamethoxazole	IP 2018 Vol.3 p3441	80 % to 120 % w/w (of Label claim)
		Assay–Trimethoprim	IP 2018 Vol.3 p3441	80% to 120% w/w(of Label claim)
t.	Oral Rehydration Salts	Assay	IP 2018 Vol. 3 p2793	5m moles/l to 125m moles/l
		(a) Sodium		
		(b) Potassium		2 m moles/ l to 40 m moles/ l
		(c) Chloride		5 m moles/ l to 100 m moles/ l
		(d) Citrate		2 m moles/ l to 20 m moles/ l
		(e) Dextrose		5 m moles/ l to 100m moles/ l
II.	FOOD & AGRICULTURAL PRODUCTS			
1.	Bakery & Confectionery Products	Moisture	IS 12711:1989, RA 2010	1.0% to 25%
		Total Ash	IS 12711:1989, RA 2010	0.1 % to 10%
		Total Fat	IS 12711:1989, RA 2010	1.0% to 30%
		Proteins	IS 7219:1973, RA 2010	0.1% to 30%
		Acid Insoluble Ash	IS 12711:1989, RA 2010	0.01% to 5%
		Acidity of extracted fat	IS 12711:1989, RA 2010	0.1 % to 5%
		Alcoholic Acidity	IS 12711:1989, RA 2010	0.1% to 5%
		Total solid content	IS 12711:1989, RA 2010	1.0 % to 30%
		pH of the aqueous extract	IS 12711:1989, RA 2010	2% to 14
2.	Cereals, Pulses and by Products.	Moisture	IS 1155:1968, FSSAI Lab Manual , Cereal and Cereal Products p7	1.0% to 25%

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		Total ash	FSSAI Lab Manual, Cereal and Cereal Products p12	1.0% to 25%
		Calcium	FSSAI Lab Manual, Cereal and Cereal Products p16	0.1% to 25%
		Total Fat	IS1163:1992	1.0% to 25%
		Crude fiber	IS 1155: 1968	0.1% to 30%
		Protein	IS 7219 : 1973	1.0% to 90%
		Gluten	IS 1009: 1979, RA 2015	0.1% to 20%
		Acid insoluble ash	IS 1009: 1979, RA 2015	0.01% to 5%
		Alcoholic acidity	IS 1009: 1979, RA 2015	0.01% to 5%
		Extraneous matter	IS 2813:1995, RA 2015	0.1% to 20%
3.	Dairy Products (Milk, Fresh Milk)			
		Protein content	FSSAI Lab Manual, Milk and Milk Products p158	1 % to 30%
		Total Milk Solids	FSSAI Lab Manual , Milk and Milk Products p34	1.0% to 20%
		Titrateable acidity	IS 1166:1986, RA 2013	0.1% to 10%
		pH	IS 4238:1967, RA 2018	5% to 9
		Milk Fat	FSSAI Lab Manual, Milk and Milk Products p39	0.1 % to 15%
		Total ash	FSSAI Lab Manual, Milk and Milk Products p88	0.1 % to 5%
		M.B.R Test	IS 1479(Part I): 2016	Present/Absent
4.	Adulterants in fresh milk	Cane sugar	IS 1479 (part I): 1960	Present/Absent
		Starch	IS 1479 (part I): 1960	Present/Absent
		Urea	FSSAI Lab Manual , Milk and Milk Products p11	40 ppm to 1000 ppm
		Sodium chloride	FSSAI Lab Manual , Milk and Milk Products p17	Present/Absent
		Neutralizers	IS 1479 part I; 1961, FSSAI Lab Manual, Milk and Milk Products p20	Present/Absent

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		Detergents containing (alkyl bezenesulphonic acid)	FSSAI Lab Manual, Milk and Milk Products p24	Present/Absent
5.	Ghee			
		Moisture Content	IS 3508:1966, RA 2013	0.1% to 10%
		Refractive Index	IS 3508:1966, RA 2013	1.30 to 1.470
		Insoluble Impurities	IS 3508:1966, RA 2013	0.1% to 10%
		Acidity	IS 3508:1966, RA 2011	0.1% to 20%
		Reichert Meissl value	3508:1966, RA 2011	1 to 35
		Baudouin test	3508:1966, RA 2011	Present/Absent
6.	Ice Cream			
		Total Fat	FSSAI Lab Manual, Milk and Milk Products p61	0.1% to 30%
		Total solids	FSSAI Lab Manual, Milk and Milk Products p59	0.1% to 70%
		Acidity	IS 2802:1964	0.1% to 10%
		Protein	FSSAI Lab Manual, Milk and Milk Products p61	0.1% to 25%
7.	Butter			
		Moisture	FSSAI Lab Manual, Milk and Milk Products p99	0.1% to 25%
		Acid value	FSSAI Lab Manual, oils and Fats p25	0.1 % to 10%
		Curd content	IS 3507:1966, RA 2013	0.1% to 10%
		Fat	3507:1966, RA 2013	20.0% to 95%
		Salt	3507:1966, RA 2013	0.1% to 5%
		SNF	3507:1966, RA 2013	0.1% to 5%
		Titrateable Acidity	3507:1966, RA 2013	1.0% to 5%
		pH	3507:1966, RA 2013	2 to 14
8.	Dry Milk powder includes Skim Milk Powder			
		Total Solids	IS 11623:2008, RA 2013	60.0 % to 100.0%
		Fat	IS 11721:2013	1.0 % to 30%
		Total Ash	IS 1165:2002, RA 2013	0.1% to 25%

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		Titrateable Acidity	1165:2002, RA 2013	0.1% to 2.0%
		Protein	1165:2002, RA 2013	1.0% to 90%
		Moisture	IS 16072:2012, FSSAI Lab Manual , Milk and Milk Products p84	0.5% to 20%
9.	Spices and Condiments	Water Insoluble Ash	IS 1797:2017,	0.1% to 10%
		Total Ash	FSSAI Lab Manual, Spices and Condiments p12	0.1% to 25%
		Starch	FSSAI Lab Manual, Spices and Condiments p33	0.1% to 60%
		Water extract	IS 1797 : 2017	1.0% to 70%
		Calcium	IS 1797: 2017	0.1% to 20%
		Alcohol soluble extract	IS 1797: 2017	0.1% to 20%
		Cold water soluble extract	IS 1797: 2017	1.0 % to 40%
		Crude fiber	IS 1797: 2017, FSSAI Lab Manual, Spices and Condiments p22	1.0% to 30%
		Salt	IS 1797: 2017	1.0% to 20%
		Acid Insoluble Ash	FSSAI Lab Manual, Spices and Condiments p14	0.1% to 10.0%
10.	Sugar and Sugar Products	Sulphated Ash	IS 6287:1985, FSSAI Lab Manual, Sugar and Sugar Products & Confectionery Products p59	0.1 % to 5%
		Moisture	IS 6287 :1985, RA 1999	0.1 % to 30%
		Protein	IS 6287 :1985, RA 1999	0.1% to 40%
		Total Ash	IS 6287 : 1985, FSSAI Lab Manual, Sugar and Sugar Products & Confectionery Products p6	0.1% to 5%
		Total Fat	IS 1163:1992, RA 2009	0.1 % to 50%
		Milk Solids	IS 1163:1992, RA 2009	1.0% to 30%

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		Acid Insoluble Ash	IS 6287:1985, FSSAI Lab Manual, Sugar and Sugar Products & Confectionery Products p61	0.1% to 5%
		Soluble & Insoluble Ash	FSSAI Lab Manual, Sugar and Sugar Products & Confectionery Products p7	0.1% to 5%
		Alkalinity of Soluble Ash	FSSAI Lab Manual, Sugar and Sugar Products & Confectionery Products p9	0.1% to 5%
		Alkalinity of Insoluble Ash	P3, 900.02F, Chapter 44, AOAC 20 th Edition	0.1% to 5%
		Milk fat	IS 1163:1992, RA 2009	1.0% to 10%
		Sugar content	IS 6287 :1985, RA 1999	5 to 80
11.	Oil and Fats	Insoluble Impurities	IS 548(Part I):1964, RA 2015	0.1% to 10%
		Melting Point	IS 548(Part I):1964, RA 2015	40 °C to 100°C
		Acid value	IS 548(Part I):1964, RA 2015	0.1 to 25
		Saponification Value	IS 548(Part I):1964, RA 2015	5.0 to 300
		Iodine value	IS 548(Part I):1964, RA 2015	5.0 to 300
		Peroxide Value	IS 548(Part I):1964, RA 2015	0.1 meq/kg to 25 meq/kg
		Unsaponifiable Value	IS 548(Part I):1964, RA 2015	0.1 to 5
		Refractive Index	IS 548(Part I):1964, RA 2015	1.3 to 1.7
		Moisture	IS 548(Part I):1964, RA 2015	0.01% to 5%
		Argemone Oil	FSSAI Lab Manual, Oil and Fats p68	Present/Absent

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Program Director

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Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-7355**

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Validity **06.06.2018 to 05.06.2020**

Last Amended on --

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
12.	Alcoholic Drinks	Total ash	IS 3752:2005/ IS 4449:2005	0.01% to 10%
		Total acidity	IS 3752:2005/ IS 4449:2005	0.1% to 50%
		Ethyl alcohol content	IS 3752:2005	20% to 80%
		Residue on Evaporation	IS 3752:2005/ IS 4449:2005	0.1% to 25%
III.	COSMETICS AND ESSENTIAL OILS			
1.	Skin Cream	pH	IS 6608:2004	4.0 to 9.0
		Total fatty substance	IS 6608:2004	0.3% to 10% w/w
		Total residue	IS 6608:2004	0.5% to 20% w/w
		Heavy metals	IS 6608:2004	Qualitative
		Arsenic	IS 6608:2004	Qualitative
2.	Shampoo	Non-volatile alcohol Soluble matter	IS 7884:2004	0.8% to 20% w/w
		pH	IS 7884:2004	4.0 to 9.0
		Foam Height	IS 7884:2004 (annexure- D)	Qualitative
3.	Shaving cream	Total fatty substance	IS 9740:1981, RA 2006	0.6% to 50% w/w
		Free caustic alkali	IS 9740:1981, RA 2006	Qualitative
4.	Hair dye	pH	IS 8481:2005	9.0 to 11.0
		Oxidative hair dyes	IS 8481:2005 (annexure- D)	0.1% to 4.0% w/w
5.	Toothpaste	pH	IS 6356:2001, RA 2006	5.5 to 10.5
		Heavy metals	IS 6356:2001, RA 2006	Qualitative
		Arsenic	IS 6356:2001, RA 2006	Qualitative
		Foaming power	IS 6356:2001, RA 2006	10.0 mm to 400 mm