

Laboratory Choksi Laboratories Ltd., 6/3, Manoramaganj, Indore, Madhya Pradesh

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6384 (in lieu of T-0240 & T-0241)

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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**BIOLOGICAL TESTING**

I.	FOOD & AGRICULTURAL PRODUCTS			
1.	Milk & Dairy Products	Bacterial Count /Total Plate Count	IS 5402 / ISO 4833-1 CLL-IDR-STP-MIC-027 Ver. 3.0 Effective Date 06/08/16	≥ 10 cfu / ml / g
		Coliform count	IS 5401(Part-1)/ ISO 4832 CLL-IDR-STP-MIC-026 Ver. 5.0 Effective Date. 01/09/16	≥ 10 cfu /ml/g  Qualitative (Absent/Present)/g/ ml
		Yeast and Mould Count	IS 5403 / ISO 7954 ISO 21527-1 CLL-IDR-STP-MIC-028 Ver. 3.0 Effective Date 01/09/16	≥ 10 cfu / ml/g  Qualitative (Absent/Present)/g/ ml/
		Staphylococcus aureus	IS 5887 (Part 2) CLL-IDR-STP-MIC-029 Ver. 6.0 Effective Date 01/09/16	≥ 10 cfu / ml/g  Qualitative (Absent/Present)/g/ml
		Salmonella	IS 5887 (Part 3)/ ISO 6579 -1 CLL-IDR-STP-MIC-070 Ver. 3.0 Effective Date. 24/08/16	Qualitative (Absent / Present)/25 g/ml
		Escherichia coli	IS 5887 (Part 1) CLL-IDR-STP-MIC-025 Ver. 4.0 Effective Date. 16/06/16	≥ 10 cfu / ml/g Qualitative (Absent / Present)/g/ml
		Shigella	IS 5887 (Part 7) CLL-IDR-STP-MIC-032 Ver. 5.0 Effective Date. 16/06/16	Qualitative (Absent / Present)/ 25 g/ml

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		Clostridium. perfringens	IS 5887 (Part 4) CLL-IDR-STP-MIC-033 Ver. 2.0 Effective Date 16/06/16	Qualitative (Absent/ Present) ml/g
		Vibrio cholerae	IS 5887 (Part 5) CLL-IDR-STP-MIC-035 Ver. 3.0 Effective Date. 16/06/16	Qualitative (Absent/present)/25g/ ml
		Vibrio parahaemolyticus	IS 5887 (Part 5) CLL-IDR-STP-MIC-036 Ver. 3.0 Effective Date. 16/06/16	Qualitative (Absent /present)/25g/ ml
2.	Cereal Food / Food Grain Products (Including Bakery Products)	Total Bacterial Count/ Total Plate Count	IS 5402/ ISO 4833-1 CLL-IDR-STP-MIC-027 Ver. 3.0 Effective Date 06/08/16	≥ 10 cfu /ml/g
		Coliform Count	IS 5401 (Part 1) / ISO 4832 CLL-IDR-STP-MIC-026 Ver. 5.0 Effective Date. 01/09/16	≥ 10 cfu / ml/g  Qualitative (Absent/Present)/g
		Yeast & Mould	IS 5403 / ISO 7954 CLL-IDR-STP-MIC-028 Ver. 3.0 Effective Date. 01/09/16	≥ 10 cfu / ml/g  Qualitative (Absent/present)/ g
		Staphylococcus aureus	IS 5887 (Part 2) CLL-IDR-STP-MIC-029 Ver. 6.0 Effective Date. 01/09/16	Qualitative (Absent/present)/ g  ≥ 10 cfu / ml/g
		Salmonella	IS 5887 (Part 3) / ISO 6579-1 CLL-IDR-STP-MIC-070 Ver. 3.0 Effective Date. 24/08/16	Qualitative (Absent / Present)/ 25 g

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		Escherichia coli	IS 5887 (Part 1) CLL-IDR-STP-MIC-025 Ver. 4.0 Effective Date. 16/06/16	≥ 10 cfu / ml/g Qualitative (Absent /Present)/ g
		Shigella	IS 5887 (Part 7) CLL-IDR-STP-MIC-032 Ver. 5.0 Effective Date. 16/06/16	Qualitative (Absent / Present)/25 g
		Clostridium perfringens	IS 5887 (Part 4) CLL-IDR-STP-MIC-033 Ver. 2.0 Effective Date. 16/06/16	Qualitative (Absent/Present)/g/ml
		Vibrio cholerae	IS 5887 (Part 5) CLL-IDR-STP-MIC-035 Ver. 3.0 Effective Date. 16/06/16	Qualitative (Absent/ Present)/25 g/ml
		Vibrio parahaemolyticus	IS 5887 (Part 5) CLL-IDR-STP-MIC-036 Ver. 3.0 Effective Date. 16/06/16	Qualitative (Absent/Present)/25 g/ml
3.	Fruits and Fruits Products	Total Bacterial Count / Total Plate Count	IS 5402/ ISO 4833-1 CLL-IDR-STP-MIC-027 Ver. 3.0 Effective Date 06/08/16	≥ 1 cfu /ml ≥ 1 x d <sup>-1</sup> cfu / g or ml
		Coliform count	IS 5401 (Part 1) / ISO 4832 CLL-IDR-STP-MIC-026 Ver. 5.0 Effective Date. 01/09/16	≥ 1 cfu /ml/g ≥ 1 x d <sup>-1</sup> cfu / g or ml Qualitative (Absent/Present)/g/ml
		Yeast and Mould Count	IS 5403 / ISO 7954 CLL-IDR-STP-MIC-028 Ver. 3.0 Effective Date. 01/09/16	≥ 1 cfu /ml ≥ 1 x d <sup>-1</sup> cfu / g / ml Qualitative (Absent/ Present)/g/ml

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		Staphylococcus aureus	IS 5887 (Part 2) CLL-IDR-STP-MIC-029 Ver. 6.0 Effective Date. 01/09/16	$\geq 1$ cfu /ml $\geq 1 \times d^{-1}$ cfu / g/ml Qualitative (Absent /Present)/g or ml
		Salmonella	IS 5887 (Part 3) / ISO 6579-1, CLL-IDR-STP- MIC-070, Ver.3.0Effective Date. 24/08/16	Qualitative (Absent / Present)/25 g /ml
		Escherichia coli	IS 5887 (Part 1) CLL-IDR-STP-MIC-025 Ver. 4.0 Effective Date. 16/06/16	$\geq 1$ cfu /ml $\geq 1 \times d^{-1}$ cfu / g/ml Qualitative (Absent or Present)/ml/ g
		Shigella	IS 5887 (Part 7) CLL-IDR-STP-MIC-032 Ver. 5.0 Effective Date. 16/06/16	Qualitative (Absent / Present)/ 25 g/ml
		Clostridium Perfringens	IS 5887 (Part 4) CLL-IDR-STP-MIC-033 Ver. 2.0 Effective Date. 16/06/16	Qualitative (Absent/Present)/ ml/ g
		Vibrio cholerae	IS 5887 (Part 5) CLL-IDR-STP-MIC-035 Ver. 3.0 Effective Date. 16/06/16	Qualitative (Absent/Present)/ 25 g/ml
		Vibrio parahaemolyticus	IS 5887 (Part 5) CLL-IDR-STP-MIC-036 Ver. 3.0 Effective Date. 16/06/16	Qualitative (Absent/Present)/ 25 g/ml
4.	Nuts and Nut Products	Total Bacterial Count / Total Plate Count	IS 5402 / ISO 4833-1 CLL-IDR-STP-MIC-027 Ver. 3.0 Effective Date 06/08/16	$\geq 10$ cfu / ml
		Coliform count	IS 5401 (Part 1) CLL-IDR-STP-MIC-026 Ver. 5.0 Effective Date. 01/09/16	$\geq 10$ cfu / ml/g Qualitative (Absent/Present)/g/ml

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		Yeast and Mould Count	IS 5403 / ISO 7954 CLL-IDR-STP-MIC-028 Ver. 3.0 Effective Date. 01/09/16	≥ 10 cfu / ml/g Qualitative (Absent/Present)/ g
		Staphylococcus aureus	IS 5887 (Part 2) CLL-IDR-STP-MIC-029 Ver. 6.0 Effective Date. 01/09/16	≥ 10 cfu / ml/g Qualitative (Absent/Present)/g
		Salmonella	IS 5887 (Part 3) / ISO 6579-1, CLL-IDR-STP- MIC-070, Ver. 3.0 Effective Date. 24/08/16	Qualitative (Absent / Present)/ 25 g
		E. coli	IS 5887 (Part 1) CLL-IDR-STP-MIC-025 Ver. 4.0 Effective Date. 16/06/16	≥ 10 cfu / ml  Qualitative (Absent/Present)/ g
		Shigella	IS 5887 (Part 7) CLL-IDR-STP-MIC-032 Ver. 5.0 Effective Date. 16/06/16	Qualitative (Absent / Present)/ 25 g
		Clostridium. perfringens	IS 5887 (Part 4) CLL-IDR-STP-MIC-033 Ver. 2.0 Effective Date. 16/06/16	Qualitative (Absent/ Present)/ g/ml
		Vibrio cholerae	IS 5887 (Part 5) CLL-IDR-STP-MIC-035 Ver. 3.0 Effective Date. 16/06/16	Qualitative (Absent/Present)/25 g/ml
		Vibrio parahaemolyticus	IS 5887 (Part 5) CLL-IDR-STP-MIC-036 Ver. 3.0 Effective Date. 16/06/16	Qualitative (Absent/Present)/25 g/ml
5.	Spices and Condiments Spices and Condiments	Total Bacterial Count /Total Plate Count	IS 5402/ ISO 4833-1 CLL-IDR-STP-MIC-027 Ver. 3.0 Effective Date 06/08/16	≥ 10 cfu / ml/g

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		Coliform count	IS 5401 (Part 1) / ISO 4832 CLL-IDR-STP-MIC-026 Ver. 5.0 Effective Date. 01/09/16	≥ 10 cfu / ml/g Qualitative (Absent/Present)/g
		Yeast and Mould Count	IS 5403 / ISO 7954 CLL-IDR-STP-MIC-028 Ver. 3.0 Effective Date. 01/09/16	≥ 10 cfu / ml/g Qualitative (Absent/Present)/g
		Staphylococcus aureus	IS 5887 (Part 2) CLL-IDR-STP-MIC-029 Ver. 6.0 Effective Date. 01/09/16	≥ 10 cfu / ml/g Qualitative (Absent or Present)/g
		Salmonella	IS 5887 (Part 3)/ISO 6579-1 CLL-IDR-STP-MIC-070 Ver. 3.0 Effective Date. 24/08/16	Qualitative (Absent / Present)/25 g
		E. coli	IS 5887 (Part 1) CLL-IDR-STP-MIC-025 Ver. 4.0 Effective Date. 16/06/16	≥ 10 cfu / ml/g Qualitative (Absent/Present)/g
		Shigella	IS 5887 (Part 7) CLL-IDR-STP-MIC-032 Ver. 5.0 Effective Date. 16/06/16	Qualitative (Absent/Present)/25 g
		Clostridium perfringens	IS 5887 (Part 4) CLL-IDR-STP-MIC-033 Ver. 2.0 Effective Date. 16/06/16	Qualitative (Absent/Present)/25 g
		Vibrio cholerae	IS 5887 (Part 5) CLL-IDR-STP-MIC-035 Ver. 3.0 Effective Date. 16/06/16	Qualitative (Absent/present)/ 25 g
		Vibrio parahaemolyticus	IS 5887 (Part 5) CLL-IDR-STP-MIC-036 Ver. 3.0 Effective Date. 16/06/16	Qualitative (Absent/present)/ 25 g

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6.	Non Alcoholic Beverages	Bacterial Count/Total Plate Count	IS 5402 / ISO 4833-1 CLL-IDR-STP-MIC-027 Ver. 3.0 Effective Date 06/08/16	$\geq 1$ cfu /ml/g $\geq 1 \times d^{-1}$ cfu / ml/g
		Coliform count	IS 5401 (Part 1) / ISO 4832 CLL-IDR-STP-MIC-026 Ver. 3.0 Effective Date. 01/09/16	$\geq 1$ cfu /ml/g $\geq 1 \times d^{-1}$ cfu / ml /g Qualitative (Absent/Present)/ml
		Yeast and Mould	IS 5403 / ISO 7954 CLL-IDR-STP-MIC-028 Ver. 3.0 Effective Date. 01/09/16	$\geq 1$ cfu /ml/g $\geq 1 \times d^{-1}$ cfu / ml /g Qualitative (Absent or Present)/ ml
		Staphylococcus aureus	IS 5887 (Part 2) CLL-IDR-STP-MIC-029 Ver. 6.0 Effective Date. 01/09/16	$\geq 10$ cfu / ml/g Qualitative (Absent/Present)/ ml
		Salmonella	IS 5887 (Part 3) / ISO 6579-1 CLL-IDR-STP-MIC-070 Ver. 3.0 Effective Date. 24/08/16	Qualitative (Absent / Present)/25 ml
		E. coli	IS 5887 (Part 1) CLL-IDR-STP-MIC-025 Ver. 4.0 Effective Date. 16/06/16	$\geq 10$ cfu / ml/g Qualitative (Absent /Present)/ml
		Shigella	IS 5887 (Part 7) CLL-IDR-STP-MIC-032 Ver. 5.0 Effective Date. 16/06/16	Qualitative (Absent / Present)/25 ml
		Clostridium perfringen	IS 5887 (Part 4) CLL-IDR-STP-MIC-033 Ver.2.0 Effective Date. 16/06/16	Qualitative (Absent/Present)/25 ml

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		Vibrio cholerae	IS 5887 (Part 5) CLL-IDR-STP-MIC-035 Ver. 3.0 Effective Date. 02/12/13	Qualitative (Absent/Present)/25 ml
		Vibrio parahaemolyticus	IS 5887 (Part 5) CLL-IDR-STP-MIC-036 Ver. 3.0 Effective Date. 16/06/16	Qualitative (Absent/Present)/25 ml
7.	Ready-to-eat Foods	Bacterial Count	IS 5402/ ISO 4833-1 CLL-IDR-STP-MIC-027 Ver. 3.0 Effective Date. 06/08/16	≥ 10 cfu / ml/g
		Coliform count	IS 5401 (Part 1)/ ISO 4832 CLL-IDR-STP-MIC-026 Ver.5.0 Effective Date. 01/09/16	≥ 10 cfu / ml/g  Qualitative (Absent/Present)/g/ml
		Yeast and Mould	IS 5403 / ISO 7954 CLL-IDR-STP-MIC-028 Ver. 3.0 Effective Date. 01/09/16	≥ 1 cfu /ml ≥ 1 x d <sup>-1</sup> cfu / g /ml  Qualitative (Absent/Present)/g/ ml
		Staphylococcus aureus	IS 5887 (Part 2) CLL-IDR-STP-MIC-029 Ver. 6.0 Effective Date. 01/09/16	≥ 10 cfu / ml/g Qualitative (Absent/Present)/g /ml
		Salmonella	IS 5887 (Part 3) / ISO 6579-1 CLL-IDR-STP-MIC-070 Ver. 3.0 Effective Date. 24/08/16	Qualitative (Absent /Present)/ 25 g/ml
		E.coli	IS 5887 (Part 1) CLL-IDR-STP-MIC-025 Ver. 4.0 Effective Date. 16/06/16	≥ 10 cfu / ml/g Qualitative (Absent/Present)/g /ml



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		Shigella	IS 5887 (Part 7) CLL-IDR-STP-MIC-032 Ver. 5.0 Effective Date. 16/06/16	Qualitative (Absent/Present)/ 25 g /ml
		Clostridium perfringens	IS 5887 (Part 4) CLL-IDR-STP-MIC-033 Ver. 2.0 Effective Date. 16/06/16	Qualitative (Absent/Present)/g/ml
		Vibrio cholerae	IS 5887 (Part 5) CLL-IDR-STP-MIC-035 Ver. 3.0 Effective Date. 16/06/16	Qualitative (Absent/Present)/ 25 g/ml
		Vibrio parahaemolyticus	IS 5887 (Part 5) CLL-IDR-STP-MIC-036 Ver. 2.0 Effective Date. 02/12/13	Qualitative (Absent/Present)/25 g / ml
<b>II.</b>	<b>WATER</b>			
<b>1.</b>	<b>Drinking Water, Packaged Drinking Water &amp; Natural Mineral Water</b>	Salmonella	IS 15187 / ISO 6340 CLL-IDR-STP-MIC-031 Ver. 2.0 Effective Date. 16/06/16	Qualitative (Present/Absent)/250 ml
		Shigella	IS 5887 (Part 7) CLL-IDR-STP-MIC-032 Ver. 2.0 Effective Date. 16/06/16	Qualitative (Present/Absent)/250 ml
		Coliforms count / MPN	IS 1622/ IS 10500 ISO 9308-1/ ISO 4832 IS 5401 (Part 1) CLL-IDR-STP-MIC-040 Ver. 5.0 Effective Date. 27/12/16	Qualitative (Detected/Not detected)/100 ml (2 MPN to 1600 MPN)/100ml Qualitative (Absent/Present)/250 ml ≥ 1 CFU/ml

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		E.coli / MPN	IS 1622/ IS 10500 IS 15185/ ISO 9308-1 ISO 4832 CLL-IDR-STP-MIC-040 Ver. 5.0 Effective Date. 27/12/16	Qualitative (Detected/Not detected)/100 ml (2 MPN to 1600 MPN)/ 100ml Qualitative (Absent/Present)/ 250 ml
		Vibrio cholerae	IS 5887 (Part 5) CLL-IDR-STP-MIC-035 Ver. 3.0 Effective Date. 16/06/16	Qualitative (Present/Absent)/250 ml
		Vibrio parahaemolyticus	IS 5887 (Part 5) CLL-IDR-STP-MIC-036 Ver. 2.0 Effective Date. 02/12/13	Qualitative (Present/Absent)/250 ml
		Faecal streptococci	IS 15186/ ISO 7899-2 CLL-IDR-STP-MIC-058 Ver. 2.0 Effective Date. 24/08/2016	Qualitative (Present/Absent)/250 ml
		Staphylococcus aureus	IS 5887 (Part 2) IS 5887 (Part 8/ Sec II) ISO 6888 (Sec II) CLL-IDR-STP-MIC-029 Ver. 6.0 Effective Date. 01/09/16	Qualitative (Present/Absent)/250 ml
		Pseudomonas aeruginosa	IS 13428 Annexure D CLL-IDR-STP-MIC-037 Ver. 6.0 Effective Date. 01/09/16	Qualitative (Present/Absent)/250 ml
		Sulphite reducing anaerobes	IS 13428 Annexure C CLL-IDR-STP-MIC-034 Ver. 3.0 Effective Date. 29/11/16	Qualitative (Present/Absent)/50 ml
		Yeast and Mould	IS 5403 / ISO 7954 CLL-IDR-STP-MIC-0ISO 4832: 2006 28	Qualitative (Present/Absent)/250 ml

Vinay Kumar Tyagi  
Convenor

N. Venkateswaran  
Program Director

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			Ver. 3.0 Effective Date. 01/09/16	
		Aerobic Microbial Count at 37 °C	IS 5402 / ISO 4833-1, CLL-IDR-STP-MIC-002, Ver. 2.0 Effective Date. 01/01/16	≥ 1 CFU/ml/g
		Aerobic microbial count at 20-22 °C	IS 5402 / ISO 4833-1, CLL-IDR-STP-MIC-002, Ver. 2.0 Effective Date. 01/01/16	≥ 1 CFU/ml/g
<b>III.</b>	<b>DRUGS &amp; PHARMACEUTICAL</b>			
<b>1.</b>	<b>Parenteral and Ophthalmic Preparations, Ear Preparations, Syringe, IV Sets</b>	Sterility	Indian Pharmacopeia British Pharmacopeia United States Pharmacopeia CLL-IDR-STP-MIC-016 Ver. 2.0 Effective Date. 12/12/14	Qualitative (Complies / Does-Not Comply)
<b>2.</b>	<b>Pharmaceutical Raw materials and Formulations (Tablets, Capsules, Oral suspension, Injections, Ointments &amp; Creams, Parenteral, Ophthalmic preparations, Ear/Nasal preparation &amp; Topical Solution.) and Herbal Products</b>	Total Bacterial Count	Indian Pharmacopeia British Pharmacopeia United States Pharmacopeia CLL-IDR-STP-MIC-056 Ver. 2.0 Effective Date. 18/12/14	≥ 1 CFU/ml/g ≥ 10 CFU/ g/ml
		Total Fungal Count	Indian Pharmacopeia British Pharmacopeia United States Pharmacopeia CLL-IDR-STP-MIC-056 Ver. 2.0 Effective Date. 18/12/14	≥ 1 CFU/ml/g ≥ 10 CFU/ g/ml
		S. aureus	Indian Pharmacopeia British Pharmacopeia United States	Qualitative (Absent/Present)/ml/ g

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			Pharmacopeia CLL-IDR-STP-MIC-056 Ver. 2.0 Effective Date. 18/12/14	
		P. seudomonas	Indian Pharmacopeia British Pharmacopeia United States Pharmacopeia CLL-IDR-STP-MIC-056 Ver. 2.0 Effective Date. 18/12/14	Qualitative (Absent/Present)/ml/ g
		E. coli	Indian Pharmacopeia British Pharmacopeia United States Pharmacopeia CLL-IDR-STP-MIC-056 Ver. 2.0 Effective Date. 18/12/14	Qualitative (Absent/Present)/ml/ g
		Salmonella	Indian Pharmacopeia British Pharmacopeia United States Pharmacopeia CLL-IDR-STP-MIC-056 Ver. 2.0 Effective Date. 18/12/14	Qualitative (Present/Absent)g/ 10 g/ml

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**CHEMICAL TESTING**

AT LABORATORY				
I.	<b>DRUGS &amp; PHARMACEUTICALS</b>			
1.	<b>General Tests</b>			
	Tablets , Capsules, Oral Suspension, Injections, Ointment and Creams, Parenteral and Ophthalmic Preparation, Ear and Eye Preparations, Powder, Topical Solutions	Average weight	Indian Pharmacopeia	0.05 gm to 5 gm
		Uniformity of Weight/ Volume	Indian Pharmacopeia	Qualitative
		Uniformity of Content	Indian Pharmacopeia	90% -110%
		Water	Indian Pharmacopeia	0.1% -50%
		pH	Indian Pharmacopeia	1 to 12
		Identification (IR)	Indian Pharmacopeia	Qualitative
		Identification (UV)	Indian Pharmacopeia	Qualitative
		Identification (HPLC)	Indian Pharmacopeia	Qualitative
		Identification (Melting Point)	Indian Pharmacopeia	Qualitative
		Identification (TLC)	Indian Pharmacopeia	Qualitative
	Related Substances (BY TLC)	Indian Pharmacopeia	Qualitative	
2.	<b>Tablets</b>			
a.	Amoxicillin Dispersible Trihydrate	Assay (HPLC)	Indian Pharmacopeia	70-120% of claim
b.	Cefadroxil	Assay (HPLC)	Indian Pharmacopeia	
c.	Chloroquine Phosphate	Assay (HPLC)	Indian Pharmacopeia	
d.	Ibuprofen	Assay (Titration)	Indian Pharmacopeia	
e.	Metronidazole	Assay (Non aqueous Titration)	Indian Pharmacopeia	
f.	Trimethoprim Sulphamethoxazole	Assay (HPLC)	Indian Pharmacopeia	

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g.	Norfloxacin	Assay (HPLC)	Indian Pharmacopeia	
h.	Cephalexin	Assay (HPLC)	Indian Pharmacopeia	
i.	Ranitidine HCl	Assay (HPLC)	Indian Pharmacopeia	
j.	Paracetamol	Assay (UV)	Indian Pharmacopeia	
k.	Ascorbic acid	Assay (Titration)	Indian Pharmacopeia	70-120 % of claim
l.	Albendazole	Assay (UV)	Indian Pharmacopeia	
m.	Chlorpheniramine Maleate	Assay (UV)	Indian Pharmacopeia	
n.	Ofloxacin	Assay (HPLC)	Indian Pharmacopeia	
o.	Capsule		Indian Pharmacopeia	
p.	Amoxicilline	Assay (HPLC)	Indian Pharmacopeia	70-120% of claim
q.	Chloramphenicol	Assay (UV)	Indian Pharmacopeia	
r.	Cefadroxil	Assay (HPLC)	Indian Pharmacopeia	
s.	Cephalexin	Assay (HPLC)	Indian Pharmacopeia	
t.	DiphenHydramine Hydrochloride	Assay (Titration)	Indian Pharmacopeia	
u.	Vitamin A & D	Assay (HPLC)	Indian Pharmacopeia	70-150% of claim
3.	Oral Suspension			
a.	Cefadroxil	Assay (HPLC)	Indian Pharmacopeia	70-120% of claim
b.	Trimethoprim – Sulphamethoxazole	Assay (HPLC)	Indian Pharmacopeia	70-120% of claim
c.	Amoxicillin	Assay (HPLC)	Indian Pharmacopeia	
d.	Chloroquine Phosphate	Assay (UV)	Indian Pharmacopeia	
e.	Paracetamol (Syrup)	Assay (HPLC)	Indian Pharmacopeia	
4.	Injections			
a.	Dextrose	Assay	Indian Pharmacopeia	
b.	Sodium Chloride & Dextrose	Assay (for Dextrose) Assay (for Sodium chloride)	Indian Pharmacopeia Indian Pharmacopeia	
c.	Sodium Chloride	Assay	Indian Pharmacopeia	
d.	Multiple Electrolyte and	Assay (for Sodium) Assay (for Potassium)	Indian Pharmacopeia	70-120% of claim

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	<b>Dextrose Injection Type I -VI</b>	Assay (for Magnesium)		
		Assay (for Acetate)		
		Assay (for Phosphate)		
		Assay (for Total chloride)		
		Assay (for Dextrose)		
		Assay (for Calcium)		
<b>5.</b>	<b>Topical Solution, Ointment and Creams</b>			
a.	<b>Chloramphenical (Eye Ointment)</b>	Assay (HPLC)	Indian Pharmacopeia	10-120% of claim
b.	<b>Diclofenac gel</b>	Assay (HPLC)	British Pharmacopeia	
c.	<b>Zinc oxide Cream</b>	Assay (as zinc oxide)	Indian Pharmacopeia	
d.	<b>Benzyl Benzoate Application</b>	Assay (Titrimetry)	Indian Pharmacopeia	1 to 30%
e.	<b>Povidone Iodine Solution</b>	Assay (Titration)	Indian Pharmacopeia	70 to 120% of claim
<b>6.</b>	<b>Parenteral and Ophthalmic Preparations, Ear/Eye Preparations,</b>			
a.	<b>Ciprofloxacin (Eye Drop)</b>	Assay (HPLC)	Indian Pharmacopeia	70 to 120% of claim
<b>7.</b>	<b>Powder</b>		Indian Pharmacopeia	
a.	<b>Oral Rehydration Salt</b>	Assay (for Total Sodium)	Indian Pharmacopeia	70 to 120% of claim
		Assay (for Potassium)		
		Assay (for Total Chloride)	Indian Pharmacopeia	
		Assay (for Citrate)		
		Assay (for Dextrose)		
<b>II.</b>	<b>RESIDUES IN FOOD PRODUCTS</b>			
<b>1.</b>	<b>Milk and Dairy Products</b>	<b>(Beta Lactum Group)</b> Penicillin G Cloxacillin Dicloxacillin Oxacillin	AOAC 982.18 CLL-IDR-STP-AGR-007 Ver. 2.0 , Effective date 01/01/16	Qualitative

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		Norfloxacin Ampicillin Amoxicillin		
		Tetracycline Oxytetracycline Chlortetracycline		Qualitative
		Sulfamethazine Sulfadimethoxine Sulfathiazole Sulfadiazine		Qualitative
		Chloramphenicol	CLL-IDR-STP-AGR-006 Ver. 1.0 , Effective date 01/01/13	0.1µg/l – 100µg/l (Milk) 0.1µg/kg – 100µg/kg (Milk Products)
		<b>Nitrofurans</b>		
		Furazolidone (AOZ)	CLL-IDR-STP-AGR-024 Ver. 1.0 , Effective date 01/01/13	1.0 µg/l – 100 µg/l (Milk) 1.0 µg/kg – 100 µg/kg (Milk Products)
		Furatadone (AMOZ)		
		Nitrofurantion (AHD)		
		Nitrofurazone (SEM)		
		<b>Antiamoebic</b>		
		Metronidazole	CLL-IDR-STP-AGR-052 Ver. 1.0 , Effective date 01/01/13	1.0 µg/l – 100 µg/l (Milk) 1.0 µg/kg – 100 µg/kg (Milk Products)
		Ranidazole		
		<b>Sulfonamides</b>		
		Sulfadiazine	CLL-IDR-STP-AGR-047 Ver. 1.0 , Effective date 01/01/13	10.0 µg/l – 100 µg/l (Milk) 10.0 µg/kg – 100 µg/kg (Milk Products)
		Sulfathiazole		
		Sulfamerazine		
		Sulfachloropuridazine		
		Sulfaquinaxaline		
		Sulfadimidine		
		Sulfadimethoxine		
		Sulfadoxine		
		Sulfamethoxypradizine		
		Sulfapyridine		
		Trimethoprim		
		<b>Macrolides</b>		



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		Erythromycin	CLL-IDR-STP-AGR-050 Ver. 1.0 , Effective date 01/01/13	1.0 µg/l – 100 µg/l (Milk) 1.0 µg/kg – 100 µg/kg (Milk Products)
		Spiramycin		
		Tilmicorin		
		Tylosin		
		Thiamphenicol		
		<b>Tetracyclines</b>		
		Chlortetracycline	CLL-IDR-STP-AGR-048 Ver. 1.0 , Effective date 01/01/13	5.0 µg/l – 100 µg/l (Milk) 5.0 µg/kg – 100 µg/kg (Milk Products)
		Oxytetracycline		
		Tetracycline		
		<b>Aminoglycosides</b>		
		Dihydrostreptomycin	CLL-IDR-STP-AGR-086 Ver. 1.0 , Effective date 30/08/17	1.0 µg/l – 100 µg/l (Milk) 1.0 µg/kg – 100 µg/kg (Milk Products)
		Gentamycin		
		Neomycin		
		Framycetin		
		Spectinomycin		
		Streptomycin		
		<b>Anthelmintics</b>		
		Albendazole	CLL-IDR-STP-AGR-051 Ver. 1.0 , Effective date 30/08/17	1.0 µg/l – 100 µg/l (Milk) 1.0 µg/kg – 100 µg/kg (Milk Products)
		Fenbendazole		
		<b>Non Steroidal Anti- Inflammatory Drug</b>		
		Phenyl Butazone	CLL-IDR-STP-AGR-053 Ver. 1.0 , Effective date 01/01/13	1.0 µg/l – 100 µg/l (Milk) 1.0 µg/kg– 100 µg/kg (Milk Products)
		<b>Heavy Metals</b>		
		Lead	AOAC 2015.01	0.05mg/kg -100mg/kg
		Arsenic	AOAC 2015.01	0.05mg/kg -100mg/kg
		Mercury	AOAC 2015.01	0.05mg/kg -100mg/kg
		Tin	AOAC 2015.01	0.05mg/kg -500mg/kg
		Cadmium	AOAC 2015.01	0.05mg/kg -100mg/kg
		Zinc	AOAC 2015.01	0.05mg/kg -50mg/kg
		Iron	AOAC 2015.01	0.1mg/kg -1000mg/kg

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		<b>Aflatoxin</b>		
		Aflatoxin M1	CLL-IDR-STP-AGR-005 Ver. 1.0, Effective date 01/01/13	0.5 µg/l – 100 µg/l (Milk) 0.5 µg/kg-100 µg/kg (Milk Products)
<b>2.</b>	<b>Fruits, Vegetables &amp; their Products</b>	<b>Pesticides Residues</b>		
		Alachlor	CLL-IDR-STP-AGR-001 (GC MS)	10 µg/kg – 100 µg/kg
		Aldrin/ Dieldrin	Ver. 3.0 Effective date 19/07/17	
		Alpha-BHC		
		Alpha-Chlordane		
		beta-BHC		
		beta-Endosulphan		
		Bitertanol		
		Captan		
		Chlorothalinol		
		Delta-BHC		
		Alpha Endosulphan		
		Endrin		
		Gamma-Chlordane		
		HCB		
		Heptachlor		
		Heptachlor epoxide		
		Lindane		
		Molinate		
		o,p <sup>i</sup> -DDD		
		o,p <sup>i</sup> -DDT		
		o,p-DDE		
		p,p <sup>i</sup> -DDD		
		p,p <sup>i</sup> DDE		
		p,p <sup>i</sup> -DDT		
		Propanil		
		Trifluralin		
		Alpha-Chlorfenvinphos		
		Atrazin		
		Beta-chlorfenvinphos		

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Bromophos ethyl		
		Butachlor		
		Chlorpyrifos		
		Dichlorvos		
		Dimethoate		
		Etrimphos		
		Malathion		
		Methamidophos		
		Methyl parathion		
		Methyl paroxan		
		Monochrotophos		
		Pendamethalin		
		Phorate		
		Phorate sulfon		
		Pirimiphos methyl		
		Quinalphos		
		Terbutylazine		
		Triazophos		
		Triedemifon		
		Carbofuran	CLL-IDR-STP-AGR-003	10 µg/kg – 100 µg/kg
		Carbaryl	Ver. 2.0 Effective date	
		Propoxur	19/07/17	
		Benomyl		
		Carbendazim		
		2,4 D	CLL-IDR-STP-AGR-002	10 µg/kg – 100 µg/kg
			Ver. 1.0 Effective date	
			01/01/13	
<b>3.</b>	<b>Food grains</b>	<b>Pesticides Residue</b>		
		Alachlor	CLL-IDR-STP-AGR-001	10µg/kg – 100µg/kg
		Aldrin/ Dieldrin	(GC MS)	
		Alpha-BHC	Ver. 3.0 Effective date	
		Alpha-Chlordane	19/07/17	
		beta-BHC		
		beta-Endosulphan		

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Bitertanol		
		Captafol		
		Captan		
		Chlorothalinol		
		Delta-BHC		
		Endosulphan sulfate		
		Endrin		
		Gamma-Chlordane		
		HCB		
		Heptachlor		
		Heptachlor epoxide		
		Lindane		
		Molinate		
		o,p'-DDD		
		o,p'-DDT		
		o,p'-DDE		
		p,p'-DDD		
		p,p'-DDE		
		p,p'-DDT		
		Propanil		
		Trifluralin		
		Alpha-Chlorfenvinphos		
		Atrazin		
		Beta-chlorfenvinphos		
		Bromophos ethyl		
		Butachlor		
		Chlorpyrifos	CLL-IDR-STP-AGR-001	10 µg/kg – 100 µg/kg
		Dichlorvos	(GC MS) Ver. 3.0 Effective	
		Dimethoate	date 19/07/17	
		Etrimphos		
		Malathion		
		Methamidophos		
		Methyl parathion		
		Methyl paroxan		

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Monochrotophos		
		Pendamethalin		
		Phorate		
		Phorate sulfon		
		Pirimiphos methyl		
		Quinalphos		
		Terbutylazine		
		Triazophos		
		Triedemifon		
		Carbofuran	CLL-IDR-STP-AGR-003	10µg/kg – 100µg/kg
		Carbaryl	Ver. 2.0 Effective date	
		Propoxur	19/07/17	
		Benomyl		
		Carbendazim		
		2,4 D	CLL-IDR-STP-AGR-002	10µg/kg – 100µg/kg
			Ver. 1.0, Effective Date	
			01/01/13	
<b>III.</b>	<b>FOOD AND AGRICULTURAL PRODUCT</b>			
<b>1.</b>	<b>Milk and Dairy Products</b>	<b>General Test</b>		
		Moisture	AOAC 927.05 , IS 10484 IS 11623, IS 3507	0.1%-80%
		Total Ash (on dried basis)	AOAC 945.46, IS 1547, IS 1165	0.1%-20%
		Titration Acidity (as Lactic acid)	AOAC 947.05 , IS 10484, IS 1166 IS 11766	0.1%-10%
		Fat	AOAC 989.05,932.06, 95.19, IS 10484, IS 1166, IS 11721, IS 1224 (Part 2), IS 11762, IS 3507	0.2%-30%
		Nitrogen	AOAC 991.20,920.109	0.2%-75%
		SNF	AOAC 990.21	1%-20%

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Protein	AOAC 991.20, 920.87, 984.13	0.5%-50%
		Total Solids	AOAC 990.19, 990.20, 920.107, IS 1166, IS 11623	1%-99%
		Total Fat	AOAC 932.06	0.1%-60%
		Saturated Fatty Acids	AOAC 996.06, 992.25	1%-50%
		Poly unsaturated Fatty	AOAC 996.06, 992.25	1%-50%
		Mono unsaturated Fatty	AOAC 996.06, 992.25	1%-50%
		Vitamin A (as retinol )	AOAC 992.06, 960.45	10IU/100g-10000 IU/100g
		Vitamin C (ascorbic acid)	AOAC 985.33	2.0-1000 mg/100 g
<b>2.</b>	<b>Fruits, Vegetable &amp; their Products</b>			
<b>a.</b>	<b>Frozen Vegetables</b>	Net contents	AOAC 963.26	100g-2500 g
		Total solids	AOAC 971.28	0.5%-50%
		Alcohol insoluble solids	AOAC 971.29	0.5%-25%
		Moisture (loss on drying) in fried potatoes	AOAC 984.25	0.1%-10%
		<b>Metals</b>		
		Lead	AOAC 2015.01	0.05mg/kg-50mg/kg
		Arsenic	AOAC 2015.01	0.05mg/kg-50mg/kg
		Mercury	AOAC 2015.01	0.05mg/kg-50mg/kg
		Tin	AOAC 2015.01	0.05mg/kg - 200mg/kg
		Cadmium	AOAC 2015.01	0.05mg/kg– 1000mg/kg
	Zinc	AOAC 2015.01	0.05mg/kg– 1000mg/kg	
	Copper	AOAC 2015.01	0.05 mg/kg – 1000 mg/kg	
	Iron	AOAC 2015.01	0.05mg/kg– 1000mg/kg	
	Nickel	AOAC 2015.01	0.05mg/kg– 1000mg/kg	
	Chromium	AOAC 986.15 AOAC 2015.01	0.05mg/kg– 1000mg/kg	
<b>3.</b>	<b>Bakery &amp; Confectionary Products</b>			
<b>a.</b>	<b>Plain Chocolates, Milk Chocolates Blended</b>	Total Fat (on dry basis)	IS 1163	1% -40%
		Milk Fat (on dry basis)	Annex B of IS 1163	0.1%-5%

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	<b>Chocolates &amp; Filled Chocolates</b>	Milk solids (on moisture & fat free basis)	IS 1163 Method 2 Annexure C-2	1%-15%
		Sugar (as sucrose on dry basis)	IS 1163 Annexure D	1%-75%
		Acid Insoluble Ash (on moisture & fat free basis)	IS 1163 Annexure E	0.05%-1%
		Chocolate component (applicable to filled chocolate only)	IS 1163 Annexure F	1%-20%
		Moisture	IS 1163 Annexure H	0.1%-10%
<b>b.</b>	<b>Biscuits</b>	Moisture	IS 1011 Annexure B	0.1%-10%
		Acid Insoluble Ash (on dry basis)	IS 1011 Annexure C	0.02%-5%
		Acidity of extracted fat (as oleic acid)	IS 1011 Annexure D	0.1%-5%
<b>c.</b>	<b>Sugar Boiled Confectionaries (Hard Boiled Sugar Confectionaries, Dragees &amp; Toffees)</b>	Sulphated Ash	IS 6287 Clause 6	0.1%-10%
		Acid Insoluble Ash	IS 6287 Clause 7	0.05%-1%
		Moisture	IS 6287 Clause 5	1%-15%
		Reducing Sugar (as dextrose)	IS 6287 Clause 8	1%-30%
		Sucrose	IS 6287 Clause 9	5%-80%
		Fat (on dry basis)	IS 6287 Clause 10	0.5%-10%
		Protein (on dry basis)	IS 6287 Clause 11	1%-15%
		Lactose (on dry basis)	IS 1479 (Part II) Clause 13.2 & 13.3	1%-10%
		Sulphur Dioxide	IS 6287 Clause 12	5mg/kg -1000mg/kg
		<b>Metals</b>		
	Lead	AOAC 2015.01	0.05mg/kg -50mg/kg	
	Copper	AOAC 2015.01	0.05mg/kg -100 mg/kg	
	Zinc	AOAC 2015.01	0.05mg/kg -100 mg/kg	
	Tin	AOAC 2015.01	0.05mg/kg -100 mg/kg	

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Iron	AOAC 2015.01	0.05mg/kg -100 mg/kg
		Mercury	AOAC 2015.01	0.05mg/kg -50 mg/kg
		Cadmium	AOAC 2015.01	0.05mg/kg -100 mg/kg
<b>d.</b>	<b>Processed Food, Canned Food, Nutritional Supplements, Complementary Foods Milk &amp; Milk Products Ready to Eat Foods Beverages Dehydrated Products Traditional Snack Foods Infant Foods, Frozen Foods, Nuts Products</b>	<b>Nutritional Labelling</b>		
		Total Fat	AOAC 932.06	0.1%-60%
		Saturated Fatty Acids	AOAC 996.06, 992.25	1%-50%
		Mono unsaturated Fatty	AOAC 996.06, 992.25	1%-50%
		Poly unsaturated Fatty	AOAC 996.06, 992.25	1%-50%
		Trans Fat	AOAC 996.06, 992.25	1%-50%
		Sugar	AOAC 923.09, 932.14	0.5%-50%
		Total carbohydrate (by calculation)	AOAC 986.25	5%-70%
		Vitamin A (as retinol )	AOAC 992.06, 960.45	10 IU/100 g – 10000 IU/100 g
		Vitamin C (ascorbic acid)	AOAC 985.33	2.0 IU/100 g – 1000 mg/100 g
	Cholesterol	AOAC 994.10	1-20 mg/kg	
	Total calories	IS 14433	1 Kcalories – 1000 Kcalories	
	Calories from fat	IS 14433	1 Kcalories – 1000 Kcalories	
<b>4.</b>	<b>Nuts &amp; Nut Products</b>			
<b>a.</b>	<b>Nuts &amp; Oil Seeds</b>	Moisture	AOAC 925.40, IS 4684	0.1%-30%
		Crude Fat	AOAC 948.22, IS 4684	0.2%-60%
		Protein	AOAC 950.48, IS 4684	1.0%-60%
		Crude Fibre	AOAC 935.53, IS 4684	0.5%-10%
		Ash	AOAC 950.49, IS 4684	0.2%-10 %
		Acid insoluble ash	IS 4684, Appendix E	0.05%-5%
		Aflatoxin B1	CLL-IDR-STP-AGR-81 Ver. 2.0, Effective Date 31/12/16	1.0 µg/kg - 250 µg/kg
		Aflatoxin B2		
		Aflatoxin G1		
		Aflatoxin G2		



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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection	
5.	Spices & Condiments	Extraneous matter	IS:1797 Clause 4	0.1%-20.0%	
		Total Ash	AOAC 941.12, IS:1797 Clause 6	0.2%-10 %	
		Water soluble ash	IS:1797 Clause 7	0.5%-50%	
		Acid insoluble ash	IS:1797 Clause 8, ASTA Method 4.0	0.05%-5%	
		Moisture	AOAC 941.11 , IS:1797 Clause 9	0.1-25%	
		Alcohol soluble extract	AOAC 898.03, IS:1797 Clause 10	0.5%-50%	
		Volatile oil	AOAC 962.17, 970.55, IS:1797 Clause 15 ASTA Method 5.0	0.5%-20%	
		Curcumin content (for turmeric )	IS 10925 Annex B ASTA Method 18.0	0.1%-10%	
		Energy value	IS 14433	1 Kcalories – 1000 Kcalories	
		Capsaicin Content	AOAC 995.03 ASTA Method 21.3	0.1% -10 %	
		<b>Heavy Metals</b>			
		Arsenic	AOAC 2015.01	0.1 mg/kg -100 mg/kg	
		Cadmium	AOAC 2015.01		
		Lead	AOAC 2015.01		
Mercury	AOAC 2015.01				
Aflatoxin B1	CLL-IDR-STP-AGR-081	1.0 µg/kg –100 µg/kg			
Aflatoxin B2	Ver. 2.0,				
Aflatoxin G1	Effective Date 31/12/16				
Aflatoxin G2					
6.	Oil & Fats	Moisture	IS 548 Clause 5.1	0.01% – 2%	
		FFA (as oleic acid)	IS 548 Clause 7	0.2%-10%	
		Iodine Value	IS 548 Clause 14	7.5-200	
		Refractive Index	IS 548 Clause 10	1.4000-1.6000	
		Saponification Value	IS 548 Clause 15	168-198	
		Unsaponifiable Matter	IS 548 Clause 8	0.75% – 1.5%	
		Insoluble impurities	IS 548 Clause 8	0.75% – 1.5%	

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Specific Gravity (at 95°C / 30°C) & (at 30°C / 30°C)	IS 548 Clause 11	0.70-0.95
		Peroxide value	IS 548 Clause 20	1 to 50 meq/1000 g
<b>7.</b>	<b>Cereals, Pulses &amp; by-Products</b>			
<b>a.</b>	<b>Food Grains &amp; Cereals</b>	Moisture	AOAC 925.09B	0.1%-20%
		Ash	AOAC 923.03	0.2%-10 %
		Crude Fibre	AOAC 926.09E	0.1%-20%
		Crude Fat or Ether extract	AOAC 920.39	0.2%-4%
		Fat (Total)	AOAC 996.01	0.2%-4%
		Fat (Saturated)	AOAC 996.01	0.2%-4%
		Fat (Unsaturated)	AOAC 996.01	0.2%-4%
		Fat (Monounsaturated)	AOAC 996.01	0.2%-4%
		Protein (in foods)/(in grains)/(in flour)	IS 7219, AOAC 979.09, 935.39	1.0%-20%
		Fat Acidity (in Grains)	AOAC 939.05	0.5%-10%
		Foreign matter,	IS 4333 (Part 1	0.1%-10%
		Other Food grain	IS 4333 (Part 1	0.02%-10%
		Damaged	IS 4333 (Part 1	0.02%-10%
		Insect Damaged	IS 4333 (Part 1	0.02%-10%
		Broken,	IS 4333 (Part 1	0.02%-10%
		Shriveled grains	IS 4333 (Part 1	0.02%-10%
		Aflatoxin B1	CLL-IDR-STP-AGR-81	1.0 µg/kg – 250 µg/kg
		Aflatoxin B2	Ver. 2.0,	
		Aflatoxin G1	Effective Date 31/12/16	
		Aflatoxin G2		
		Energy value (by calculation)	IS 14433	1 Kcalories – 1000 Kcalories
		<b>Heavy Metals</b>		
		Lead	AOAC 2015.01	0.1 mg/kg -1000 mg/kg
		Copper	AOAC 2015.01	0.1 mg/kg -1000 mg/kg
		Arsenic	AOAC 2015.01	0.1 mg/kg -1000 mg/kg
		Tin	AOAC 2015.01	0.1 mg/kg -1000 mg/kg
		Iron	AOAC 2015.01	0.1 mg/kg -1000 mg/kg

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		Zinc	AOAC 2015.01	0.1 mg/kg -1000 mg/kg
		Cadmium	AOAC 2015.01	0.1 mg/kg -1000 mg/kg
<b>b.</b>	<b>Wheat Atta</b>	Total Ash	IS 1155 Appendix B AOAC 923.03	0.2%-10 %
		Acid Insoluble Ash	IS 1155 Appendix C	0.05%-5%
		Crude Fibre (on dry basis)	IS 1155, Appendix E AOAC 962.05	0.2%-20%
		Moisture	IS 1155 Appendix A	0.1%- 30%
		Gluten (on dry basis)	IS 1155 Appendix D	0.5%-30%
		Alcoholic acidity (H <sub>2</sub> SO <sub>4</sub> )	IS 1155 Appendix F	0.05%-10%
<b>c.</b>	<b>Maida</b>	Total Ash	IS 1009 Appendix B	0.2%-10%
		Acid Insoluble Ash	IS 1009 Appendix C	0.05%-5%
		Crude Fibre (on dry basis)	AOAC 962.05	0.2%-20%
		Moisture	IS 1009 Appendix A	0.1%- 25%
		Gluten (on dry basis)	IS 1009 Appendix D	0.5%-30%
		Alcoholic acidity (H <sub>2</sub> SO <sub>4</sub> )	IS 1009 Appendix E	0.05%-10%
<b>IV.</b>	<b>FERTILIZERS</b>			
<b>1.</b>	<b>Fertilizers</b>	<b>General Tests</b>		
		Total Nitrogen	IS 6092 (Part 2 / Sec III):	0.2%-25%
		Total Phosphorous	IS 6092 (Part 3 / Sec IV&V):	0.2%-25%
		Total Potassium	IS 6092 (Part 4) Clause. 9	0.2%-25%
<b>V.</b>	<b>PESTICIDE FORMULATIONS</b>			
<b>1.</b>	<b>Water Dispersible Powders</b>	<b>General Tests for Pesticide Formulation</b>		
		Acidity (as H <sub>2</sub> SO <sub>4</sub> ) or Alkanity (as NaOH)	IS 6940 Clause. 11.3	0.005%-20%
		Suspensibility test	IS 6940 Clause. 11.2	40%-98%
		Wettability	IS 6940 Clause. 11.4	10sec-150 sec

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2.	<b>Dusting Powders</b>	Particle size (Partass through 75 Micron IS Sieve)	IS 6940 Clause. 12.1	1%-100%
		Bulk Density after compacting	IS 6940 Clause. 12.2	0.5-60
		Acidity (as H <sub>2</sub> SO <sub>4</sub> ) or Alkanity (as NaOH)	IS 6940 Clause. 11.3	0.005%-20%
3.	<b>Emulsifiable Concentrates/ Water Soluble Concentrates</b>	Emulsion Stability	IS 6940 Clause 13.3	1-5 mL
		Flash Point (abel)	IS 1448 (Part 20)	Upto 270 Deg.C
		Cold Test	IS 6940 Clause 13.1	Qualitative
		Acidity (as H <sub>2</sub> SO <sub>4</sub> ) or Alkanity (as NaOH)	IS-6940 Clause 13.5.2	0.005%-20%
4.	<b>Granules</b>	Attrition test	Cl 14.1.1 of IS-6940	0.1%-10%
		Water Run off test	Cl 14.1.2 of IS-6940	0.1%-10%
		Moisture	Cl. 4.1 of IS-6940	0.1%-100%
		Acidity (as H <sub>2</sub> SO <sub>4</sub> ) or Alkanity (as NaOH)	Cl. 13.5.2 of IS-6940	0.005%-20%
		Particle size (Pass through 75 Micron IS Sieve)	Cl.12.1 of IS 6940	1%-100%
5.	<b>Dusting Powder</b>			
a.	<b>Methyl Parathion DP</b>	Methyl Parathion content	Appendix A of IS-2570	0.5%-10%
b.	<b>Malathion DP</b>	Malathion content	Method A-1: Amendment 1 of IS-1832	0.5%-30%
6.	<b>Emulsifiable Concentrates</b>			
a.	<b>Dichlorvos EC</b>	Dichlorvos content	IS-5277 Appendix A	0.5%-80%
b.	<b>Chlorpyriphos EC</b>	Chlorpyriphos content	IS-8963 Annex A	0.5%-60%
c.	<b>Malathion EC</b>	Malathion content	IS-1832 Appendix A	0.5%-55%
d.	<b>2,4 -D Ethyl Ester</b>	2,4 -D Ethyl Ester content	IS-10243 Annex A	0.5%-45%
e.	<b>Deltamethrin EC</b>	Deltamethrin content	IS 12005 Appendix A	0.5%-10%

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7.	<b>Granules</b>			
a.	<b>Phorate Granules encapsulated</b>	Phorate content	IS 9359 Annex C	0.5%-15%
b.	<b>Carbofuran Granules Encapsulated</b>	Carbofuran content	IS 9360 Appendix A	0.5%-5.0%
8.	<b>Water Dispersible Powder</b>			
	<b>Copper Oxy Chloride</b>	Copper content	IS 1506 Appendix A	1%-70%
	<b>Sulphur Powder W</b>	Sulphur content	IS 3383 Appendix A	1%-90%
	<b>Carbaryl WDP</b>	Carbaryl content	IS 7121 Appendix A	1% -90%
VI.	<b>WATER</b>			
1.	<b>Potable &amp; Domestic water, Packaged</b>	Colour	IS 3025 (Part 4) APHA 2120 B	1-500 Pt. Co units
	<b>Drinking Water, Drinking Water &amp; Packaged Natural Mineral Water</b>	Odour	IS 3025 (Part 5) APHA 2150B	1-500 Hazen units Agreeable/ Disagreeable
		Taste	IS 3025 (Part 8) APHA 2160C	Agreeable/ Disagreeable
		Turbidity	IS 3025 (Part10) APHA 2130B	0.1NTU-1000NTU
		Total Dissolved Solids	IS 3025 (Part 16) APHA 2540C	1mg/L-5000mg/L
		pH	IS 3025 (Part 11) Clause. 2 APHA 4500-H <sup>+</sup> B-	1 to 12
		Ammoniacal Nitrogen (NH <sub>3</sub> -N)	IS 3025 (Part 34) Clause 2.5 APHA 4500-NH <sub>3</sub> C	0.2mg/L – 100mg/L
		Anionic Detergents as (MBAS)	IS 13428 Annexure K APHA 5540 B and C	0.05mg/L-100mg/L

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		Chloramines (as Cl <sub>2</sub> )	IS 3025 (Part-26) APHA 4500 cl f	0.05mg/L – 100mg/L
		Calcium (as Ca)	IS 3025 (Part 40) APHA 3500-Ca B	1.0mg/L-1000 mg/L
		Chloride (as Cl)	IS 3025 (Part 32) Clause 2, APHA 4500 cl- B	1mg/L - 5000mg/L
		Fluoride (as F)	IS 3025 (Part 60) Clause. 5 & 6 APHA 4500-F <sup>-</sup> C & D	0.1mg/L-10.0 mg/L
		Residual Free Chlorine (as cl <sub>2</sub> )	IS 3025 (Part 26) Clause 3 APHA 4500Cl F	0.1mg/L-100 mg/L 0.05mg/L-100 mg/L
		Iron (as Fe)	IS 3025 (Part 53) Clause 7 APHA 3125B APHA 3111B/c	0.05mg/L-100mg/L 0.00105mg/L-10mg/L
		Magnesium (as Mg)	IS 3025 (Part 46) Clause 6 APHA 3500-Mg B	1mg/L-100mg/L
		Manganese (as Mn)	IS 3025 (Part 59) Clause 5 APHA 3111B/c APHA 3125B	0.05mg/L-50 mg/L 0.00105mg/L-10mg/L
		Mineral Oil	IS 3025 (Part 39) Clause 6 APHA 5520B/C	Present/Absent 0.5mg/L-100mg/L
		Nitrate (as NO <sub>3</sub> )	IS 3025 (Part 34) Clause 3.3 APHA 4500-NO <sub>3</sub> <sup>-</sup> B	0.1mg/L-50mg/L
		Phenolic compound (as per C <sub>6</sub> H <sub>5</sub> OH)	IS 3025 (Part 43) Clause 6 APHA 5530 C	0.001mg/L-10mg/L Present/Absent
		Nitrite (as NO <sub>2</sub> )	IS 3025 (Part 34) Clause 4 APHA 4500-NO <sub>2</sub> <sup>-</sup> B	0.005mg/L- 50mg/L
		Selenium (as Se)	IS 3025 (Part 56) Clause 7 APHA 3125B APHA 3113B	0.005-10 mg/L 0.00105-10 mg/L
		Sulphate (as SO <sub>4</sub> )	IS 3025 (Part 24) Clause 4 APHA 4500-SO <sub>4</sub> <sup>2-</sup> E	1mg/L-1000mg/L
		Sulphide (as H <sub>2</sub> S)	APHA 4500-S <sup>2-</sup> D IS 3025 (Part 29) clause 3	0.05mg/L-50mg/L 0.1mg/L-50mg/L

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		Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (Part 23) APHA 2320B	1mg/L-1000mg/L
		Alkalinity (as HCO <sub>3</sub> )	IS 3025 (Part 23) APHA 2320 B	1mg/L-1000mg/L
		Total Hardness	IS 3025 (Part 21) APHA 2340 C	1mg/L- 5000 mg/L
		Cyanide (as CN)	IS 3025 (Part 27) Clause 2 APHA 4500-CN <sup>-</sup> E	0.008mg/L-10mg/L
		Sodium(as Na)	IS 3025 (Part 45) Clause. 5 APHA 3111B	1mg/L-1000mg/L
		Barium (as Ba)	IS 15302/ APHA 3111D APHA 3125B	0.1mg/L-50.0mg/L 0.00105mg/L-10mg/L
		Borate/boron (as B)	IS13428 Annex H APHA 4500 B	0.04mg/L-50 mg/L
		Sliver (as Ag)	IS 13428 Annexure J APHA 3111B APHA 3125 B	0.01mg/L-10mg/L 0.00105mg/L-10mg/L
		Copper (as Cu)	IS 3025 (Part 42) Clause 6/ APHA 3111B/c APHA 3125B	0.02mg/L-50mg/L 0.00105mg/L-10mg/L
		Aluminium	IS 3025 (Part 55) Clause 6, IS 15302 APHA 3111D/E APHA 3125B	0.2mg/L-1000mg/L 0.00105mg/L-10mg/L
		Zinc (as Zn)	IS 3025 (Part 49) Clause 5 APHA 3111B/C APHA 3125B	0.01mg/L-10mg/L 0.00105mg/L-10mg/L
		Cadmium (as Cd)	IS 3025 (Part 41) Clause 5 APHA 3111B APHA 3125B	0.01mg/L-10mg/L 0.00105mg/L-10mg/L
		Lead (as per Pb)	IS 3025 (Part 47) Clause 7 APHA 3111B APHA 3125B	0.01mg/L-10mg/L 0.00105mg/L-10mg/L

Vinay Kumar Tyagi  
Convenor

N. Venkateswaran  
Program Director

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		Mercury (as Hg)	IS 3025 (Part 48) Clause 5 APHA 3112B APHA 3125B	0.0002mg/L-1mg/L 0.000525mg/L-10mg/L
		Molybdenum (as Mo)	IS 3025 (Part 2) APHA 3111D APHA 3125B	0.01mg/L-10mg/L 0.00105mg/L-10mg/L
		Nickel (as Ni)	IS 13428 Annexure L APHA 3111B APHA 3125B	0.01mg/L-10 mg/L 0.00105mg/L-10mg/L
		Arsenic (as As)	IS 3025 (Part 37) Clause.2 APHA 3111 B APHA 3125 B	0.01mg/L-1 mg/L 0.00105mg/L-10mg/L
		Chromium (as Cr)	IS 13428 Annexure J APHA 3111B APHA 3125B	0.05mg/L-50 mg/L 0.00105mg/L-10mg/L
		Antimony (as per Sb)	IS 13428 Annexure G APHA 3125B APHA 3111B	0.05mg/L-50.0mg/L 0.00105mg/L-10mg/L
<b>VII.</b>	<b>RESIDUES IN WATER</b>			
<b>1.</b>	<b>Residues in Water</b>	<b>Trihalomethanes</b>		
		Bromoform	APHA 6232	0.003mg/L-10mg/L
		Dibromochloromethane		
		Bromodichloromethane		
		Chloroform		
		<b>Polynuclear Aromatic Hydrocarbons</b>		
		Acenaphthene	APHA 6440	0.01-100 µg/L
		Acenaphthylene		
		Anthracene		
		Benzo (A) Anthracene		
		Benzo (A) Pyrene		
		Benzo (B) Fluoranthene		
		Benzo (G,H,I) Perylene		
		Chrysene		



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		Dibenz (A,H) Anthracene		
		Fluoranthene		
		Fluorene		
		Indeno (1,2,3-CD) Pyrene		
		Naphthalene		
		Phenanthrene		
		Pyrene		
		Benzo (k) Fluoranthene		
		<b>Polychlorinated Biphenyl (PCB)</b>		
		2-Chlorobiphenyl	IS 13428 Annexure M	0.01-100 µg/L
		2,2',3,3',4,4',6- Heptachlorobiphenyl	APHA 6630	
		2,2',3,3',4,5',6,6'- Octachlorobiphenyl	EPA525.2 Rev. 2.0	
		2,2',3',4,6- Pentachlorobiphenyl	Effective from 1995	
		2,4,5-Trichlorobiphenyl		
		2,2',4,4',5,6'- Hexachlorobiphenyl		
		2,3-Dichlorobiphenyl		
		2,2,4,4 Tetrachlorobiphenyl		
		<b>Pesticide residues</b>		
		DDT	USEPA 508 Rev. 3.1	0.0125µg/L -100µg/L
		o,p, DDT	Effective from 1995/ 525.2	
		p,p DDT	Rev. 2.0 Effective from	
		O,p DDE	1995	
		p,p DDE		
		o,p DDD		
		p,p DDD		
		αHCH		
		βHCH		

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		HCH (Lindanae)		
		$\delta$ HCH		
		$\alpha$ Endosulfan		
		$\beta$ Endosulfan		
		Endosulfan Sulphate		
		Ethion		
		Monocrotophos	USEPA 525.2 Rev. 2.0	0.0125 $\mu$ g/L -100 $\mu$ g/L
		phorate	Effective from 1995/ 8141A	
		Chlorpyrifos	Rev. 1.0 Effective from	
		Phorate Sulphoxide	Sep. 1994	
		Phorate Sulphone		
		Butachlor		
		Atrazine		
		Methyl Parathion		
		Methyl -paraoxon		
		Malathion		
		Malaoxon		
		2,4-D	USEPA 515.1 Rev. 4.0	0.05 $\mu$ g/L -100 $\mu$ g/L
			Effective from 1989 /555	
			Rev. 1.0 Effective from	
			Aug. 1992/USEPA 8321A	
			Rev. 1.0 Effective from	
			Dec.1996	
		Aldrin	USEPA 525.2 Rev. 2.0	0.0125 $\mu$ g/L -100 $\mu$ g/L
		Dieldrin	Effective from 1995	
		Alachor		
		Isoproturon	USEPA 532 Rev. 1.0	0.05 $\mu$ g/L-100 $\mu$ g/L
			Effective from 2000	
<b>VIII.</b>	<b>POLLUTION AND ENVIRONMENT</b>			
<b>1.</b>	<b>Waste Water/Effluent</b>	Total Dissolved Solids	IS 3025 (Part16) APHA 2540C	5 mg/L -5000 mg/L
		pH	IS 3025 (Part 11) Clause 2 APHA 4500-H <sup>+</sup> B	1 to 12

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		Ammoniacal Nitrogen(NH <sub>3</sub> -N)	IS 3025 (Part 34) Clause 2.5 APHA 4500-NH <sub>3</sub> C	0.2 mg/L – 500mg/L
		Copper (as Cu)	IS 3025 (Part 42) Clause. 6 APHA 3125B	0.2 mg/L -500mg/L 0.00105 mg/L to 10 mg/L
		Iron (as Fe)	IS 3025 (Part 53) Clause. 7 APHA 3111B/C APHA 3125B	1-1000 mg/L 0.00105 mg/L to 10 mg/L
		Magnesium (as Mg)	IS 3025 (Part 46) Clause 6/7 APHA 3500-Mg B	1-1000mg/L
		Manganese (as Mn)	IS 3025 (Part 59) Clause 5 APHA 3125B	1 mg/L to 1000 mg/L 0.00105 mg/L to 10 mg/L
		Oil and Grease	IS 3025 (Part 39) Clause 6 APHA 5520B/C	5 mg/L to 1000 mg/L
		Phenolic compound (as per C <sub>6</sub> H <sub>5</sub> OH)	IS 3025 (Part 43) Clause 6 APHA 5530-C	0.001 mg/L to 100 mg/L
		Sulphate (as SO <sub>4</sub> )	IS 3025 (Part 24) Clause 4 APHA 4500-SO <sub>4</sub> <sup>2-</sup> E	1 mg/L to 1000 mg/L
		Sulphide (as H <sub>2</sub> S)	IS 3025 (Part 29) Clause 3 APHA 4500-S <sup>2-</sup> D	0.05mg/L to 500 mg/L
		Zinc (as Zn)	IS 3025 (Part 49) Clause 5 APHA 3125-B	0.1 mg/L to 100 mg/L 0.00105 mg/L to 10 mg/L
		Cadmium (as Cd)	IS 3025 (Part 41) Clause 5/6 APHA 3125B	0.1 mg/L to 100 mg/L 0.00105 mg/L to 10 mg/L

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		Cyanide (as CN)	IS 3025 (Part 27) Clause 2 APHA 4500-CN <sup>-</sup> E	0.008 mg/L to 50 mg/L
		Lead (as Pb)	IS 3025 (Part 47) Clause 2, APHA 3125B	0.2mg/L to 100 mg/L 0.00105 mg/L to 10 mg/L
		Mercury (as Hg)	IS 3025 (Part 48) Clause 5 APHA 3112B	0.01 mg/L to 100mg/L 0.000525mg/L to 10 mg/L
		Nickel (as Ni)	Annexure L IS 13428 APHA 3125B	0.1 mg/L to 100 mg/L 0.00105 mg/L to 10 mg/L
		Arsenic (as As)	Clause. 2 IS 3025 (Part 37) APHA 3125B	0.1 mg/L to 10 mg/L 0.00105 mg/L to 10 mg/L
		Chromium (as Cr)	IS 13428 Annexure J APHA 3125B	0.2 mg/L to 100 mg/L 0.00105 mg/L to 10 mg/L
		COD	IS 3025(Part 58) APHA 5220 B	5 mg/L -10000 mg/L
		BOD3 at 27°C	IS 3025 (Part 44)	1 mg/L -10000 mg/L
<b>IX.</b>	<b>ATMOSPHERIC POLLUTION</b>			
<b>1.</b>	<b>Ambient Air Quality Monitoring</b>	Respirable particulate matter (RPM) or PM10	IS 5182 (Part 23)	10-800 µg/m <sup>3</sup>
		PM 2.5	CLL-IDR-STP-EMS-012 Ver. 3.0, Effective Date 25/08/17	1 µg/m <sup>3</sup> -100 µg/m <sup>3</sup>
		Sulphur dioxide as SO <sub>2</sub>	IS 5182 (Part 02)	3 µg/m <sup>3</sup> -100 µg/m <sup>3</sup>
		Oxides of Nitrogen as NO <sub>2</sub>	IS 5182 (Part 06)	3 µg/m <sup>3</sup> -100 µg/m <sup>3</sup>
		Ozone	IS 5182 (Part 09)	10 µg/m <sup>3</sup> -200 µg/m <sup>3</sup>
		Lead	IS 5182 (Part 22)	0.4 µg/m <sup>3</sup> -5 µg/m <sup>3</sup>
		Ammonia	CLL-IDR-STP-EMS-013 Ver. 3.0, Effective Date 25/8/17	10 µg/m <sup>3</sup> - 400 µg/m <sup>3</sup>
		Arsenic	CLL-IDR-STP-EMS-010 Ver. 3.0, Effective Date 25/08/17	1 ng/m <sup>3</sup> -100 ng/m <sup>3</sup>

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Nickel	CLL-IDR-STP-EMS-010 Ver. 3.0, Effective Date 25/8/17	1 ng/m <sup>3</sup> -100 ng/m <sup>3</sup>
2.	Stack Emission Monitoring	Particulate Matter	IS 11255 (Part 1)	5 mg/Nm <sup>3</sup> -400mg/Nm <sup>3</sup>
		Sulphur dioxide as SO <sub>2</sub>	IS 11255 (Part 2)	4 mg/Nm <sup>3</sup> -400 mg/Nm <sup>3</sup>
		Oxides of Nitrogen as NO <sub>2</sub>	IS 11255 (Part 7)	4 mg/Nm <sup>3</sup> -400 mg/Nm <sup>3</sup>
		Carbon monoxide	CLL-IDR-STP-EMS-026 Instrument Manual Ver. 3.0, Effective Date 25/08/2017	1 -2000 mg/L
		Oxygen	CLL-IDR-STP-EMS-026 Instrument Manual Ver. 1.0, Effective Date 30/08/17	0.1%v/v-25% v/v
X.	<b>BUILDING MATERIALS</b>			
1.	Cement & Other Mortar (OPC, PPC, PSC)	Loss on ignition	IS 4032 Clause. 4.2	0.2%-20%
		Silica as SiO <sub>2</sub>	IS 4032 Clause. 4.3	1%- 30%
		Insoluble residue	IS 4032 Clause. 4.10	0.2%-45%
		Iron oxide as Fe <sub>2</sub> O <sub>3</sub>	IS 4032 Clause. 4.5.2	0.1%-20%
		Alumina as Al <sub>2</sub> O <sub>3</sub>	IS 4032 Clause. 4.6	0.5%-25%
		Calcium oxide (as CaO)	IS 4032 Clause. 4.7.2	10%-70%
		Magnesia (as MgO)	IS 4032 Clause. 4.8.2	0.5-15%
		Sulphuric Anhydride (as SO <sub>3</sub> )	IS 4032 Clause. 4.9	0.1%-10%
XI.	<b>METALS &amp; ALLOYS</b>			
1.	Steels (Plain Carbon Low, Alloy & High Alloy)	Carbon as C	IS 228 (Part 1)	0.05% – 2.5 %
		Sulphur as S	IS 228 (Part 9)	0.01%– 0.25%
		Phosphorus as P	IS 228 (Part 3)	0.01%-0.5%
		Silicon as Si	IS 228 (Part 8)	0.05%-0.5%
		Manganese as Mn	IS 228 (Part 2)	0.1%-1.5%

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		Carbon as C	CLL-IDR-STP-BMD-004 (Spectro) Ver.2.0, Effective Date 16/03/16 ASTM E-1009-95	0.02% – 2.5%
		Sulphur as S		0.01%- 0.08%
		Phosphorus as P		0.01% - 0.2%
		Silicon as Si		0.01%– 2.12%
		Manganese as Mn		0.15% - 1.5%
<b>XII.</b>	<b>PLASTIC &amp; RESIN</b>			
<b>1.</b>	<b>High Density Polyethylene Pipes for Water Supply</b>	<b>Overall Migration</b>		
		(a) Simulant	IS 9845 Method 1 Clause. 5	5mg/Lit to 500 mg / Lit,
		(b) Surface of the Material	Method 2 Clause. 6	0.5 mg/dm <sup>2</sup> to 100 mg/dm <sup>2</sup>

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
<b>AT SITE</b>				
<b>I.</b>	<b>ATMOSPHERIC POLLUTION</b>			
<b>1.</b>	<b>Noise-Ambient and Source</b>	Noise Levels Leq dB (A) Ambient	IS 9989	30 dB(A) to 130 dB(A)
		Noise Levels- Source	IS 4758	30 dB(A) to 130 dB(A)
<b>2.</b>	<b>Illumination</b>	Lux	CLL-IDR-SOP-0983 Instrument Manual Ver. 2.0, Effective Date 25/07/13	0 to 1785 Lux

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Vinay Kumar Tyagi  
Convenor

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N. Venkateswaran  
Program Director