

<b>Laboratory</b>	<b>Standard Analytical Laboratory (ND) Pvt. Ltd., 69, Functional Industrial Estate, Patparganj, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>1 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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## **I. DRUGS & PHARMACEUTICALS**

### **A. DRUGS (Drugs Raw Material)**

<b>1.</b>	<b>Aspirin</b>	Identification Appearance of Solution Heavy Metals Arsenic Chlorides Sulphates Sulphated Ash Loss on Drying Readily Carbonisable Substances Salicylic Acid Clarity of Solution in Alkali Assay	I.P.-2010(Vol-2) Page No. 842-843	As per Specification As per specification Comparative >0.01 ppm Comparative Comparative Max.0.05% to 10% 0.05% to 20%  As per specification 0.01% w/w to 10% As per specification 50% to 110%
<b>2.</b>	<b>Aluminium Hydroxide Gel</b>	Identification pH Heavy Metals Arsenic Chlorides Sulphates Neutralizing Capacity Assay	I.P.-2010(Vol-2) Page No. 788-789	As per specification 1.0 to -14.0 Comparative > 0.01ppm Comparative Comparative As per specification 50% to 110%

<b>Laboratory</b>	<b>Standard Analytical Laboratory (ND) Pvt. Ltd., 69, Functional Industrial Estate, Patparganj, Delhi</b>		
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<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>2 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
3.	<b>Aminophylline</b>	Heavy Metals	I.P.- 2010(Vol-2) Page No.799-800	Comparative
		Related Substances Sulphated Ash Water Assay	I.P.- 2007	Comparative Test Max. 0.05% - 10% Max 0.02%- 50% 50% to 110%
4.	<b>Ammonium Chloride</b>	Identification pH Appearance of solution Heavy Metals Arsenic Iron Sulphates Sulphated Ash Loss on Drying Calcium Thiocyanate	I.P.- 2010(Vol-2) Page No.810-811	As per specification 1.0 to 14.0 As per specification Comparative >0.01ppm Comparative Comparative 0.01% to 10 % 0.05% to 20% Comparative As per specification
		Assay	I.P. - 2010	50% to 110%
5.	<b>Ampicillin Trihydrate</b>	Identification Appearance of Solution  N,N Dimethyl aniline Heavy Metal Sulphated Ash Water Assay	IP-2010(Vol-2) Page No. 828-829	As per specification Comparative  Comparative Comparative 0.01% to 10% 0.02% to 50% 50% to 110%

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<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>3 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
6.	<b>Ampicillin IP</b>	Identification pH Appearance of Solution  Specific Optical Rotation Heavy Metals Sulphated Ash Water Assay	I.P.- 2010(Vol-2) Page No.822-823	Test as per specification 1.0 to 14.0 Comparative test as per specification 0° to ± 360° Comparative 0.01% to 10% 0.02% to 50% 50% to 110%
7.	<b>Amoxicillin Trihydrate</b>	Identification pH Appearance of Solution N, N Dimethyl aniline Heavy Metal Sulphated Ash Water SOR Assay	IP2010(Vol-2) Page No. 816-817	As per specification 1 to 14 Comparative Comparative Comparative 0.01% to 10% 0.02% to 50%/ 0° to 360° 50% to 110%
8.	<b>Dried Aluminium Hydroxide Gel IP</b>	Identification pH Heavy Metal Arsenic Chlorides Sulphates Assay Neutralizing Capacity Microbial Contamination	I.P.- 2010 (Vol-2) Page No. 789	Test as per specification 1.0 to 14.0 Comparative > 0.01 ppm Comparative Comparative 50% to 110% Test as per specification As per specification

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<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>4 of 77</b>

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9.	<b>Albendazole</b>	Identification Heavy Metal Assay LOD Sulphated Ash	IP 2010(Vol-2) page 780-781	As per Specification Comparative 50% to 110% 0.1% to 20% 0.01% to 10%
10.	<b>Ascorbic Acid IP</b>	Identification pH  Appearance of Solution  Specific Optical Rotation Heavy Metals Sulphated Ash Assay Oxalic Acid Light Absorption	I.P.- 2010(Vol-2) Page No. 839  I.P.- 2010	Tests as per specification 1.0-14.0  Comparative tests as per specification 0° to ± 360° Comparative 0.01%-10% 50% to 110% Min. 0.1% Confirmative test as per specification
11.	<b>Atropine Sulphate</b>	Identification  pH Specific Optical Rotation Sulphated Ash Water Apoatropine Foreign Alkaloids and Decomposition product Assay	I.P.- 2010(Vol-2) Page No. 852-853	As per specification  1 to 14 0° to +360° 0.01% to 10% 0.02% to 50% As per specification As per specification  50% to 110%

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<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>5 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>12.</b>	<b>Benzhexol HCl</b>	Identification pH Sulphated Ash Loss on Drying Piperidylpropiofenone Assay	I.P.- 2010 (Vol-2) Page No. 884-885	As per specification 1.0-14.0 0.01%-10% 0.05%- 20% As per specification 50% to 110%
<b>13.</b>	<b>Benzocaine</b>	Identification Appearance of Solution  Heavy Metals Chlorides Sulphated Ash Loss on Drying Acidity or Alkalinity Assay	I.P.- 2010 (Vol 2) Page No. 886  I.P.- 2010	As per specification As per specification  Comparative Comparative 0.01%-10% 0.05%-20% As per specification 50% to 110%
<b>14.</b>	<b>Benzoic Acid</b>	Identification Appearance of Solution Heavy Metals Arsenic Sulphated Ash Water Readily Oxidisable substances Readily Carbonisable substances Cinnamic Acid Chlorinated Compound Assay	I.P.- 2010(Vol 2) Page No. 886-887	As per specification -do- Comparative > 0.01 ppm 0.01% to 10% 0.02%- 50% As per specification As per specification As per specification As per specification 50% to 110%

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<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>6 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
15.	<b>Bromhexine HCl IP</b>	Identification Related Substances  Sulphated Ash Loss on Drying Assay	I.P.- 2010 (Vol 2) Page No. 921-922	Tests as per specification Comparative tests as per specification 0.01%-10% 0.05%-20% 50% to 110%
16.	<b>Betamethasone IP</b>	Identification Specific Optical Rotation Light Absorption Sulphated Ash Loss on Drying Assay	I.P.- 2010(Vol 2) Page No. 899-900	Test as per specification 0° ± 360° 0.01 to 1.1 0.01%-10% 0.05%-20% 50% to 110%
17.	<b>Beclomethasone Dipropionate IP</b>	Identification Specific Optical Rotation Light Absorption Sulphated Ash Loss On Drying Assay	I.P.- 2010 (Vol 2) Page No. 873-874	Test as per specification +0° + 360° Test as per specification 0.01% to 10% 0.05% to 20%
18.	<b>Bisacodyl</b>	Identification Sulphated Ash Loss on Drying Acidity or Alkalinity Assay	I.P.- 2010 (Vol 2) Page No. 915-916	As per specification 0.01% to 10% 0.05% to 20% As per specification 50% to 110%

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>7 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>19.</b>	<b>Caffeine IP</b>	Identification Acidity or Alkalinity Appearance of Solution  Heavy Metals Arsenic Related Substances  Sulphated Ash Loss on Drying Assay	I.P.- 2010 (Vol 2) Page No. 953	Tests as per specification As per Specification Comparative tests as per specification Comparative >0.01ppm Comparative tests as per specification 0.01% to 10% 0.05% to 20% 50% to 110%
<b>20.</b>	<b>Calcium Carbonate IP</b>	Identification Heavy Metals Arsenic Iron Chloride Sulphate Loss on Drying Assay Barium  Substances insoluble in Acetic Acid Magnesium & Alkali metals	I.P.- 2010 (Vol 2) Page No. 961-962	Tests as per specification Comparative >0.01ppm Comparative Comparative Comparative 0.05% to 20% 50% to 110% Confirmative test as per specification As per specification  As per specification

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<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>8 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
21.	<b>Calcium Pantothenate</b>	Identification pH Appearance of Solution Specific Optical Rotation Heavy Metals Loss on Drying Assay	I.P.- 2010 (Vol 2) Page No. 969-970	As per specification 1 to 14 As per specification 0° ± 360° Comparative 0.05% to 20% 50% to 110%
22.	<b>Calcium Lactate</b>	Identification Heavy Metals Arsenic Chloride Sulphates Iron Loss On Drying Acidity & Alkalinity Reducing Sugar Assay	I.P.- 2010 (Vol 2) Page No. 967	As per specification Comparative >0.01ppm Comparative Comparative Comparative 0.05% to 20% As per specification -do- 50% to 110%
23.	<b>Calcium Gluconate</b>	Identification Appearance of Solution Heavy Metals Arsenic Chloride Sulphate Acidity or Alkalinity Sucrose & Reducing sugar Assay	I.P.- 2010 (Vol 2) Page No. 965	As per specification -do- Comparative >0.01ppm Comparative Comparative As per specification -do- 50% to 110%



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<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>9 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
24.	<b>Calcium Chloride</b>	Identification Appearance of solution Heavy Metals Arsenic Iron Sulphate Acidity or Alkalinity Barium Aluminium & Phosphate Magnesium & Alkali Salt Assay	I.P.- 2010 (Vol 2) Page No. 962-963	As per specification -do- Comparative >0.01ppm Comparative Comparative As per specification -do- -do- -do- 50% to 110%
25.	<b>Calamine</b>	Identification Arsenic Chloride Sulphate Loss in Ignition Acid insoluble Alkaline Substances Water soluble Dyes Ethanol Soluble Dyes Lead  Calcium Soluble barium salt Assay	I.P.- 2010 (Vol 2) Page No. 953-954            I.P.- 2010 (Vol 2)	As per Specification >0.01ppm Comparative Comparative 0.05% to 50% As per specification As per specification As per specification As per specification As per specification  As per specification As per specification 50% to 110%

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<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>10 of 77</b>

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26.	<b>Clofazimine</b>	Identification Heavy Metals Related Substances Sulphate Ash Loss on Drying Assay	I.P.- 2010 (Vol 2) Page No. 1107-1108	As per Specification Comparative As per Specification 0.01% to 10% 0.05% to 20% 50% to 110%
27.	<b>Codeine Phosphate</b>	Identification pH Appearance of Solution Specific Optical Rotation Chloride Sulphate Loss on Drying Morphine Foreign Alkaloids Assay	I.P.- 2010 (Vol 2) Page No. 1128-1129	As per Specification 1.0 to 14.0 As per Specification -0 <sup>0</sup> to -360 <sup>0</sup> Comparative Comparative 0.05% to 20% As per Specification -do- 50% to 110%
28.	<b>Cetrimide</b>	Identification Appearance of Solution Sulphated Ash Loss & Drying Acidity or Alkalinity Amine Salts Assay	I.P.- 2010 (Vol 2) Page No. 1041	As per specification -do- 0.01% to 10% 0.05% to 20% As per specification -do- 50% to 110%

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>11 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
29.	<b>Cetyl Alcohol</b>	Appearance of Solution Melting Range Acid Value Hydroxyl Value Iodine Value Saponification Value	I.P.- 2010 (Vol 2) Page No. 1042	As per specification 1 <sup>0</sup> to 300 <sup>0</sup> Min. 0.1 1 to 300 0.5 to 100 0.5 to 250
30.	<b>Chlorpromazine HCl</b>	Identification pH Heavy Metals Related Substances Sulphated Ash Loss & Drying Assay	I.P.- 2010 Page No. 1072-1073	As per specification 1.0 to 14.0 Comparative As per specification 0.01% to 10% 0.05% to 20% 50% to 110%
31.	<b>Citric Acid Anhydrous</b>	Identification Appearance of Solution Heavy Metals Arsenic Chloride Sulphate Sulphated Ash Water Barium Calcium Oxalic Acid Readily Carbonisable Substances Assay Iron	I.P.- 2010 Page No. 1099-1100	As per specification -do- Comparative >0.01ppm Comparative Comparative 0.01% to 10% 0.02% to 50% As per specification Comparative As per specification -do- 50% to 110% Comparative



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<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>13 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
34.	<b>Tribasic Calcium Phosphate</b>	Identification Heavy Metals Arsenic Iron Chloride Sulphate Loss on Ignition Water Acid Insoluble Substances Water Soluble Substances Carbonate Proteinous Impurities Assay	I.P.- 2010 (Vol 2) Page No. 970-971	As per specification Comparative >0.01ppm Comparative Comparative Comparative 0.5 to 50% 0.02% to 50% 0.01% to 50% Max. 0.1% to 50% As per Specification -do- 50% to 110%
35.	<b>Dapsone</b>	Identification Related Substances Sulphated Ash Loss on Drying Assay	I.P.- 2010 (Vol 2) Page No. 1162	As per specification -do- 0.01% to 10% 0.05% to 20% 50% to 110%
36.	<b>Diphenhydramine HCL</b>	Identification pH Appearance of Solution Related Substances Sulphated Ash Loss on Drying Assay	I.P.- 2010 (Vol 2) Page No. 1232-1233	As per specification 1.0 to 14.0 As per specification -do- 0.01% to 10% 0.05% to 20% 50% to 110%

<b>Laboratory</b>	<b>Standard Analytical Laboratory (ND) Pvt. Ltd., 69, Functional Industrial Estate, Patparganj, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>14 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
37.	<b>Dexamethasone</b>	Identification Specific optical rotation Sulphated Ash Loss on Drying Light Absorption Assay	I.P. 2010 Page No. 1171-1173	As per specification 0° to 360° 0.01% to 10% 0.05% to 20% As per specification 50% to 110%
38.	<b>Dexamethasone Sodium Phosphate</b>	Identification pH Specific optical rotation Inorganic Phosphate Free Dexamethasone Ethanol & Total Ethanol Water Assay	I.P. 2010 Page No. 1175-1176	As per specification 1.0 to 14.0 0° to 360° As per specification Max. 1% Max. 3.0% Max. 16% 50% to 110%
39.	<b>Dicyclomine HCL IP</b>	Identification Related Substances  Sulphated Ash Loss on Drying Assay	I.P.- 2010 (Vol 2) Page No. 1104-1105	Test as per specification Comparative tests as per specification 0.01% to 10% 0.05% to 20% 50% to 110%
40.	<b>Diazepam IP</b>	Identification Related Substance Heavy Metals Sulphated Ash Loss on Drying Assay	I.P.- 2010 (Vol 2) Page No. 1194-1195	Test as per specification Comparative Comparative 0.01% to 10% 0.05% to 20% 50% to 110%



<b>Laboratory</b>	<b>Standard Analytical Laboratory (ND) Pvt. Ltd., 69, Functional Industrial Estate, Patparganj, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>16 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
43.	<b>Cloxacillin Sodium IP</b>	Identification pH Appearance of Sol. Specific Optical Rotation Water Assay	I.P.- 2010 (Vol 2) Page No. 1123-1124	Test as per specification 1 –14 Test as per specification + 0 <sup>o</sup> + 360 <sup>0</sup> 0.02% to 50% 50% to 110%
44.	<b>Cimetidine IP</b>	Identification Heavy Metals Sulphated Ash Loss on Drying Assay	I.P.- 2010 (Vol 2) Page No. 1086-1087	Tests as per specification Comparative 0.05% to 10% 0.05% to 20% 50% to 110%
45.	<b>Chlorpheniramine Maleate IP</b>	Identification pH Appearance of Sol.  Related Substances Sulphated Ash  Loss On Drying Assay	I.P.- 2010 (Vol 2) Page No. 1070-1071     I.P.- 2010 (Vol 2)	Tests as per specification 1.0 to 14.0 Comparative tests as per specification -do- 0.01% to 10%  0.05% to 20% 50% to 110%
46.	<b>Chloroquine Phosphate IP</b>	Identification pH Appearance of Solution  Heavy Metals	I.P.- 2010 (Vol 2) Page No. 1061-1062	Tests as per specification 1.0 to 14.0 Comparative tests as per specification Comparative



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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>17 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
		Related Substances	I.P.- 2010 (Vol 2) Page No. 1061-1062	Comparative tests as per specification
		Water Assay		0.02% to 50% 50% to 110%
<b>47.</b>	<b>Cephalexin IP</b>	Identification	I.P.- 2010 (Vol 2) Page No. 1031-1032	Tests as per specification
		pH	I.P.- 2010	1.0 to 14.0
		Specific Optical Rotation		+0° + 3600
		Light Absorption		Comparative tests as per specification
		Sulphated Ash		0.01% to 10%
		Water Assay		0.02% to 50% 50% to 110%
<b>48.</b>	<b>Diloxanide Furoate IP</b>	Identification	I.P.2010 Page No.1225-1226	Tests as per specification
		Related Substances		Comparative tests as per specification
		Sulphated Ash		0.01% to 10%
		Loss On Drying		0.05% to 20%
		Assay		50 % to 110%
		Free Acidity		Confirmative test as per specification
<b>49.</b>	<b>Activated Dimethicone IP</b>	Identification	I.P.- 2010 (Vol 2)	Tests as per specification
		Acidity	Page No. 1230-31	Comparative tests as per specification
		Heavy Metals		Comparative
		Assay for polydimethyl Siloxane		50% to 110 %

<b>Laboratory</b>	<b>Standard Analytical Laboratory (ND) Pvt. Ltd., 69, Functional Industrial Estate, Patparganj, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>18 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
		Assay for Silicodioxide Defoaming Activity	I.P.- 2010 (Vol 2) Page No. 1230-31	1% to 10% NMT 15 secs
<b>50.</b>	<b>Disodium Edetate IP</b>	Identification PH	I.P.- 2010 (Vol 2) Page No. 1234-1235	Tests as per specification 1.0 to 14.0
		Appearance of Solution	I.P.- 2010	Comparative tests as per specification
		Heavy Metals Iron Assay		Comparative Comparative 50% to 110%
<b>51.</b>	<b>Ethambutol Hydrochloride IP</b>	Identification PH Specific Optical Rotation Heavy Metals Sulphated Ash Loss On Drying Assay 2-Aminobutol	I.P.- 2010 (Vol 2) Page No. 1299-1301	Tests as per specification 1.0 to 14.0 + 0° to + 360° Comparative 0.01% to 10% 0.05% to 20% 50% to 110% Comparative tests as per specification
<b>52.</b>	<b>Frusamide IP</b>	Identification Heavy Metals Chloride Sulphate Sulphated Ash Loss On Drying Assay Free Amines	I.P.- 2010 (Vol 2) Page No. 1391-1392	Tests as per specification Comparative Comparative Comparative 0.01% to 10% 0.05% to 20% 50% to 110% Test as per specification



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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>20 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
56.	<b>Folic Acid</b>	Identification Specific Optical Rotation Sulphated Ash Water Free Amines Assay	I.P.- 2010 Page No. 1384-1385	As per specification + 0° to + 360° 0.01% to 10% 0.02% to 50% As per specification 50% to 150%
57.	<b>Furazolidone</b>	Identification pH Sulphated Ash Loss on Drying Assay	I.P.- 2010 Page No. 11394-1395	As per specification 1.0 to 14.0 0.01% to 10% 0.05% to 20% 50% to 110%
58.	<b>Ibuprofen IP</b>	Identification  Optical Rotation Heavy Metals Sulphated Ash Loss On Drying Assay Appearance of Solution	I.P.- 2010 Page No. 1479-1480	Tests as per specification +0° to -360° Comparative 0.01 % to 10% 0.01% to 20% 50% to 110% As per Specification
59.	<b>Hydrochloric Acid</b>	Identification Heavy Metals Arsenic Sulphates Residue on evaporation Bromide and Iodide Free Chlorine Sulphite Assay	I.P.- 2010 Page No. 1450	As per specification Comparative >0.01ppm Comparative Min 0.05% As per specification -do- -do- 10% to 50%

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>21 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>60.</b>	<b>Iron &amp; Ammonium Citrate</b>	Identification Arsenic Chloride Sulphates Lead Zinc Free Ferric Compounds Assay	I.P.- 2010 Page No. 1511-1512 I.P.- 2010	As per specification >0.01ppm Comparative Comparative Comparative Comparative As per specification 10% to 110%
<b>61.</b>	<b>Isoniazid</b>	Identification pH Appearance of Solution Heavy Metals Sulphated Ash Loss on Drying Hydrazine Related Substances Assay	I.P.- 2010 Page No. 1515-1516	As per specification 1.0 to 14.0 As per specification Comparative 0.01% to 10% 0.05% to 20% As per specification -do- 50% to 110%
<b>62.</b>	<b>Isoxsuprine Hydrochloride</b>	Identification pH Heavy Metals Sulphated Ash Loss on Drying Phenones Assay	I.P.- 2010 Page No. 1527-1528	As per specification 1.0 to 14.0 Comparative 0.01% to 10% 0.05% to 20% As per specification 50% to 110%

<b>Laboratory</b>	<b>Standard Analytical Laboratory (ND) Pvt. Ltd., 69, Functional Industrial Estate, Patparganj, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>22 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
63.	<b>Lignocaine Hydrochloride</b>	Identification pH Appearance of Solution Heavy Metals Sulphates Sulphated Ash Water Assay 2-6 dimethyl Aniline	I.P.- 2010 Page No. 1584-1585	As per specification 1.0 to 14.0 As per specification Comparative Comparative 0.01% to 10% 0.02% to 50% 50% to 110% Comparative
64.	<b>Methyl Paraben IP</b>	Identification Acidity  Appearance of Solution Chlorides Sulphate Related Substances Sulphated Ash Assay	I.P.- 2010 Page No. 1672-1673	Test as per specification Confirmative test as per Specification Comparative Comparative Comparative -do- 0.01% to 10% 50% to 110%
65.	<b>Magnesium Sulphate</b>	Identification  Appearance of Solution Heavy Metals Arsenic Iron Chlorides Loss on Drying Acidity or Alkalinity Assay	I.P.- 2010 Page No.1626-1627          I.P.- 2010	As per specification  -do- Comparative >0.01ppm Comparative Comparative 0.05% to 20% As per specification 10% to 110%

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>23 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
66.	<b>Magnesium Stearate</b>	Identification Appearance of Solution Heavy Metals Chloride Sulphate Loss or Drying Acidity or Alkalinity Appearance of Solution of the Fatty acids Acid Value of the fatty acids Free Stearic Acid Zinc Stearate Assay	I.P.- 2010 Page No. 11625-1626	As per specification -do- Comparative Comparative Comparative Max. 6.0% As per specification -do- Min. 1.0 to 300 Min. 1% to 20% As per specification 1.0% to 10%
67.	<b>Magnesium Trisilicate</b>	Identification Heavy Metals Arsenic Chlorides Sulphates Loss on Ignition Alkalinity Acid Absorption Water Soluble Salts Assay for MgO Assay of SiO <sub>2</sub>	I.P.-2010 Page No.1626-1627	As per specification Comparative >0.01ppm Comparative Comparative 0.05%. to 50% As per specification -do- -do- 10% to 110% NLT 65%
68.	<b>Methyl Salicylate</b>	Identification Appearance of Solution Acidity Refractive Index Weight / ml Assay	I.P.- 2010 Page No. 1666	As per specification -do- As per specification 1.3 to 1.7 0.8 to 1.5 gm 50% to 110%

<b>Laboratory</b>	<b>Standard Analytical Laboratory (ND) Pvt. Ltd., 69, Functional Industrial Estate, Patparganj, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>24 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
69.	<b>Metronidazole Benzoate</b>	Identification pH Related Substances  Sulphated Ash Loss on Drying Free Benzoic Acid Assay	I.P.- 2010 Page No. 1683-1684	As per specification 1.0 to 14.0 Comparative test as per specification 0.01% to 10% 0.05% to 20% Max. 0.2% 50% to 110%
70.	<b>Microcrystalline Cellulose</b>	Identification pH Heavy Metals Arsenic Sulphated Ash Loss on Drying Starch and Dextrins Organic Impurities Water Soluble Substances Assay	I.P.- 2010 Page No. 1695	As per specification 1.0 to 14.0 Comparative >0.01ppm 0.05% to 10% 0.05% to 20% As per specification -do- 0.1% to 50% 90% to 110%
71.	<b>Morphine Sulphate</b>	Identification Sulphated Ash Loss on Drying Acidity Other Alkaloids Assay	I.P.- 2010 Page No. 1706-1707	As per specification 0.01% to 10% 0.05% to 20% As per specification -do- 50% to 110%



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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>25 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
72.	<b>Niacinamide IP</b>	Identification pH Appearance of Solution  Heavy Metals Chlorides Sulphates Related Substances  Sulphated Ash Loss on Drying Assay	I.P.- 2010 Page No.1775-1776	Test as per specification 1.0 to 14.0 Comparative tests as per specification Comparative Comparative Comparative Comparative tests as per specification 0.01% to 10% 0.05% to 20% 50% to 110%
73.	<b>Metronidazole IP</b>	Identification Appearance of Solution  Heavy Metals Related Substances  Sulphated Ash Loss on Drying Assay	I.P.- 2010 Page No. 1680-1683	Test as per specification Comparative tests as per specification Comparative Comparative tests as per specification 0.01% to 10% 0.05% to 20% 50% to 110%
74.	<b>Potassium Permagnate</b>	Identification Appearance of Solution  Chlorides Sulphates Water Insoluble Matter Assay	I.P.- 2010 Page No. 1940	As per specification Comparative test as per specification Comparative Comparative Min. 0.1% 50% to 110%

<b>Laboratory</b>	<b>Standard Analytical Laboratory (ND) Pvt. Ltd., 69, Functional Industrial Estate, Patparganj, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>26 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
75.	<b>Phenol</b>	Identification Appearance of Solution.  Acidity Freezing Point Non Volatile Matter Assay	I.P.-2010 Page No. 1893-1894	As per specification Comparative test as per specification As per specification Min.0° to 150° Min. 0.01% 50% to 110 %
76.	<b>Phenobarbitone Sodium</b>	Identification Appearance of Solution  pH Related Substances Loss on Drying Assay	I.P.- 2010 Page No. 1891-1892	As per specification Comparative test as per specification 1.0 to 14.0 As per specification 0.05% to 20% 50% to 110%
77.	<b>Phenobarbitone</b>	Identification Appearance of Solution  Related Substances Sulphated Ash Loss on Drying Acidity Assay	I.P.- 2010 Page No. 1890-1891	As per specification Comparative test as per specification As per specification 0.01% to 10% 0.05% to 20% As per specification 50% to 110%

<b>Laboratory</b>	<b>Standard Analytical Laboratory (ND) Pvt. Ltd., 69, Functional Industrial Estate, Patparganj, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>27 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>78.</b>	<b>Propylene Glycol IP</b>	Identification Acidity  Appearance of Solution  Heavy Metals Sulphated Ash Water Boiling Range Relative Density Refractive Index Oxidizing Substances  Reducing Substances Ethylene Glycols & Diethylene glycol	I.P.- 2010 Page No. 1990-1991	Test as per specification Confirmative tests as per specification Confirmative tests as per specification Comparative 0.001% to 10% 0.02% to 50% 30° – 300° 0.5 to 1.8 1.3 to 1.7 Confirmative test as per specification -do- Comparative
<b>79.</b>	<b>Paracetamol IP</b>	Identification Heavy Metals Related Substances Sulphated Ash Loss on Drying Assay 4-Aminophenol	I.P.- 2010 Page No. 1859-1860	Test as per specification Comparative Comparative 0.01% - 10% 0.05% to 20% (±) 10 % of limits/0.1% Comparative

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>28 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>80.</b>	<b>Propyl Paraben IP</b>	Identification Acidity  Appearance of Solution Chlorides Sulphates Related Substances Sulphated Ash Loss on Drying Assay	I.P.- 2010 Page No. 1991-1992	Test as per specification Confirmative tests as per specification Comparative Comparative Comparative Comparative 0.01% - 10% 0.05% to 20% 50% to 110%
<b>81.</b>	<b>Pyrazinamide IP</b>	Identification Appearance of Solution Heavy Metals Related Substances  Sulphated Ash Water Assay Acidity or alkalinity	I.P.- 2010 Page No. 2004-2005	Test as per specification -do- Comparative Comparative tests as per specification 0.01% to 10% 0.02% to 50% 50% to 110% As per specification
<b>82.</b>	<b>Pyridoxine Hydrochloride IP</b>	Identification pH Appearance of Solution  Heavy Metals Related Substances  Sulphated Ash Loss on Drying Assay	I.P.- 2010 Page No. 2005-2006	Test as per specification 1.0 to 14.0 Comparative tests as per specification Comparative Comparative tests as per specification 0.01% to 10% 0.01% to 20% 50% to 110%

**Laboratory** Standard Analytical Laboratory (ND) Pvt. Ltd., 69, Functional Industrial Estate, Patparganj, Delhi

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

**Discipline** Chemical Testing **Issue Date** 31.01.2014

**Certificate Number** T-0780 **Valid Until** 30.01.2016

**Last Amended on** - **Page** 29 of 77

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
83.	<b>Pseudoephedrine HCl IP</b>	Identification pH Appearance of Solution  Specific optical Rotation Related Substances  Sulphated Ash Loss on Drying Assay	I.P.- 2010 Page No. 1999-2000	Test as per specification 1.0 to 14.0 Comparative tests as per specification + 0 ° ± 360° Comparative tests as per specification 0.01% to 10% 0.05% to 20% 50% to 110%
84.	<b>Riboflavin IP</b>	Identification pH Heavy Metals Sulphated Ash Loss on Drying Assay Lumiflavine  Light Absorption	I.P.- 2010 Page No. 2050	Test as per specification 1.0 to 14.0 Comparative 0.01% to 10% 0.05% to 20% 50% to 110% Comparative tests as per specification -do-
85.	<b>Rifampicin</b>	Identification pH Heavy Metals Sulphated Ash Loss on Drying Assay	I.P.- 2010 Page No. 2054-2055	As per specification 1.0 to 14.0 Comparative 0.01% to 10% 0.05% to 20% 50% to 110%

<b>Laboratory</b>	<b>Standard Analytical Laboratory (ND) Pvt. Ltd., 69, Functional Industrial Estate, Patparganj, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>30 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
86.	<b>Salicylic Acid</b>	Identification Appearance of Solution Heavy Metals Iron Chlorides Sulphates Sulphated Ash Loss on Drying Assay	I.P.- 2010 Page No. 2089-2090	As per specification -do- Comparative Comparative Comparative Comparative 0.01% to 10% 0.01% to 20% 50% to 110%
87.	<b>Sodium Benzoate</b>	Identification Appearance of Solution Heavy Metals Arsenic Loss on Drying Acidity or Alkalinity Chlorinated Compounds Assay	I.P.- 2010 Page No. 2110	As per specification -do- Comparative >0.01ppm 0.05% to 20% As per specification Comparative 50% to 110%
88.	<b>Sodium Bicarbonate</b>	Identification Appearance of Sol.  Heavy Metals Arsenic Calcium  Iron Chloride Sulphate Carbonate Assay	I.P.- 2010 Page No. 2111	As per specification Comparative as per specification Comparative >0.01ppm Comparative test as per specification Comparative Comparative Comparative As per specification 50% to 110%

**Laboratory** Standard Analytical Laboratory (ND) Pvt. Ltd., 69, Functional Industrial Estate, Patparganj, Delhi

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

**Discipline** Chemical Testing **Issue Date** 31.01.2014

**Certificate Number** T-0780 **Valid Until** 30.01.2016

**Last Amended on** - **Page** 31 of 77

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
89.	Sodium Salicylate	Identification Appearance of Solution Heavy Metals Arsenic Chlorides Sulphates Loss on Drying Acidity Assay	I.P.- 2010 Page No.2134-2135	As per specification -do- Comparative >0.01ppm Comparative Comparative 0.05% to 20% As per Specification 50% to 110%
90.	Sodium Methyl Paraben	Identification pH Appearance of Solution Chlorides Sulphates Water Assay	I.P.- 2010 Page No.2132-33    I.P.- 2010	As per specification 1.0 to 14.0 As per specification Comparative Comparative 0.02% to 50% 50% to 110%
91.	Sodium Propyl Paraben	Identification pH  Chloride Sulphate Water Appearance of Solution Assay	I.P.- 2010 Page No.2134	As per specification 1.0 to 14.0  Comparative Comparative 0.02% to 50% As per specification 50% to 110%





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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>33 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>94.</b>	<b>Sodium Citrate IP</b>	Identification  Acidity or Alkalinity Appearance of Solution  Heavy Metals Arsenic Chlorides Sulphates Water Assay Oxalate Tartrates Rediy Carbonisable Substance	I.P.- 2010 Page No. 2118-2119	Tests as per specification -do- Comparative test as per specification Comparative >0.01ppm Comparative Comparative 0.02% to 50% 50% to 110% Comparative As per specification As per specification
<b>95.</b>	<b>Sorbitol I.P. 70% (Non crystallizing)</b>	Identification Acidity or Alkalinity Appearance of Solution Specific Optical Rotation Heavy Metals Arsenic Chloride Sulphate Sulphate Ash Assay Reducing Sugars Nickel Refractive index Relative density	I.P.- 2010 Page No. 2145-2146	Tests as per specification -do- As per specification 0 <sup>0</sup> to 360 <sup>0</sup> Comparative >0.01ppm Comparative Comparative 0.01% to 10% 50% to 110% Tests as per specification Comparative 1.3 to 1.7 0.5 to 1.8

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>34 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
96.	<b>Sucrose I.P.</b>	Identification Acidity or Alkalinity Specific Optical Rotation Heavy Metals Sulphated Ash Barium Calcium Sulphite Dextrins Glucose & Invert Sugar Colouring Matter	I.P.- 2010 Page No. 2166-2167          I.P.- 2007	Tests as per specification -do- $\pm 0^0 \pm 360^0$ Comparative 0.01% to 10% As per specification As per specification As per specification As per specification Min. 10mg/20gm As per specification & Comparative test as per specification
97.	<b>Sulphacetamide Sodium I.P</b>	Identification  pH Appearance of Solution  Heavy Metals Sulphates Related Substances  Water Assay	I.P.- 2010 Page No. 2167-2168                    I.P.- 2010	Tests as per specification 1.0 to 14.0 Comparative Tests as per specification Comparative Comparative Comparative test as per specification 0.02% to 50% 50% to 110%

<b>Laboratory</b>	<b>Standard Analytical Laboratory (ND) Pvt. Ltd., 69, Functional Industrial Estate, Patparganj, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>35 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>98.</b>	<b>Thiamine Hydrochloride</b>	Identification pH  Appearance of Solution  Heavy Metals Sulphates Sulphate Ash Loss on Drying Nitrates Assay	I.P.- 2010 Page No. 2209-2210	As per specification 1.0 to 14.0  Comparative test as per specification Comparative Comparative 0.01% to 10% 0.05% to 20% As per specification (±) 10 % of limits/0.1%
<b>99.</b>	<b>Tinidazole IP</b>	Identification Related Substances  Sulphated Ash Loss on Drying Assay	I.P.- 2010 Page No. 2226-2227	Tests as per specification Comparative test as per specification 0.05% to 10% 0.05% to 20% 50% to 110%
<b>100.</b>	<b>Trimethoprim IP</b>	Identification Appearance of Solution  Heavy Metals Related Substances Sulphated Ash Loss on Drying Assay	I.P.- 2010 Page No.2264-2265  I.P.- 2010	Tests as per specification Comparative test as per specification Comparative Comparative 0.01% to 10% 0.05% to 20% 50% to 110%

<b>Laboratory</b>	<b>Standard Analytical Laboratory (ND) Pvt. Ltd., 69, Functional Industrial Estate, Patparganj, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>36 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>101.</b>	<b>Zinc Oxide</b>	Identification Arsenic Iron Loss on Ignition Alkalinity Carbonate and Substances Insoluble in acids Lead Assay	I.P.- 2010 Page No.2336	As per specification >0.01ppm Comparative 0.01% to 50% As per specification Comparative  Comparative 50% to 110%
<b>102.</b>	<b>Zinc Chloride</b>	Identification pH Sulphates Aluminium, calcium heavy metals, Iron & Magnesium Ammonium Salts Oxychlorides Assay	I.P.- 2010 Page No.2335-2336	As per specification 1.0 to 14.0 Comparative As per specification  As per specification As per specification 50 % to limits/0.1%
<b>103.</b>	<b>Zinc Sulphate IP</b>	Identification pH Appearance of Solution  Arsenic Iron Chlorides Assay	I.P.- 2010 Page No.2337-2338	Tests as per specification 1.0 to 14.0 Comparative Tests as per specification As per specification >0.01ppm Comparative Comparative 50% to 110%

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>37 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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#### **B. DRUGS (FINISHED PRODUCT)**

<b>1.</b>	<b>Albendazole Tablets I.P.</b>	Identification Other tests Assay	I.P.- 2010 VOL.2Page No. 781	Tests as per specification +-10%of specified limits 50% to 150%.
<b>2.</b>	<b>Amoxicillin Trihydrate Capsules IP</b>	Identification Other tests Dissolution Assay	I.P.- 2010 VOL.2 Page No. 813-814	Tests as per specification +-10%of specified limits 50% to 100% 50% to 150%
<b>3.</b>	<b>Aminophyllin Tablets</b>	Identification Other tests Assay	I.P.- 2010 VOL.2 Page No. 801-802	As per Specification +-10%of specified limits 50% to 150%
<b>4.</b>	<b>Ampicillin Dispersible Tablets</b>	Identification Uniformity of Dispersion Other tests Assay	I.P.- 2010 VOL.2Page No. 828	As per Specification -do- +-10%of specified limits 50% to 150%.
<b>5.</b>	<b>Ascorbic Acid Tablets</b>	Identification Disintegration Time Other tests Assay	I.P.- 2010 VOL.2Page No. 840	As per Specification -do- +-10%of specified limits 50% to 150%.
<b>6.</b>	<b>Aspirin Tablets</b>	Identification Salicylic Acid Other tests Assay	I.P.- 2010 VOL.2Page No. 843	As per Specification Min. 0.1% +-10%of specified limits 50% to 150%.

<b>Laboratory</b>	<b>Standard Analytical Laboratory (ND) Pvt. Ltd., 69, Functional Industrial Estate, Patparganj, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>38 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
7.	<b>Soluble Aspirin Tablets</b>	Identification Salicylic Acid Other tests Assay	I.P.- 2010 VOL.2Page No. 843	As per Specification Min. 0.1% +-10%of specified limits 50% to 150%.
8.	<b>Aspirin &amp; Caffeine Tablets</b>	Identification Salicylic Acid Other tests Assay for Asprin Assay For Caffeine	I.P.- 2010 VOL.2Page No.844	As per Specification Min. 0.1% +-10%of specified limits 50% to 150%. 50% to 150%
9.	<b>Bisacodyl Tablets</b>	Identification Uniformity of Contents Other tests Assay	I.P.- 2010 VOL.2Page No. 917	As per Specification -do- +-10%of specified limits 50% to 150%
10.	<b>Compound Benzoic Acid Ointment</b>	Identification Assay for Benzoic acid Assay for Salicylic acid	I.P.- 2010 VOL.2 Page No. 887-888	As per Specification 50% to 150% 50% to 150%
11.	<b>Bromhexine HCl Tablets</b>	Identification Related Substances Assay Other tests	I.P.- 2010 VOL.2 Page No. 922-923	As per Specification -do- 50% to 150% +-10%of specified limits
12.	<b>Cephalexin Capsules IP</b>	Identification Assay Water Other tests	I.P.-2010 Page No. 1034-1035 I.P.-2010	Tests as per specification 50% to 150% 0.02% to 50% +-10%of specified limits

<b>Laboratory</b>	<b>Standard Analytical Laboratory (ND) Pvt. Ltd., 69, Functional Industrial Estate, Patparganj, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>39 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
13.	<b>Calamine Lotion</b>	Identification Microbial Contamination	I.P.- 2010 VOL.2 Page No.955	As per Specification -do-
14.	<b>Calcium Gluconate Tablets</b>	Identification Other tests Assay	I.P.- 2010 VOL.2 Page No 966-967	As per Specification +-10% of specified limits 50% to 150%
15.	<b>Calcium Lactate Tablets</b>	Identification Disintegration Time Other tests Assay	I.P.- 2010 VOL.2 Page No 967-968	As per Specification +-10% of specified limits +-10% of specified limits 50% to 150%
16.	<b>Chloroquine Phosphate Tablets I.P.</b>	Identification Dissolution Assay Related substances Other test	I.P.- 2010 VOL.2 Page No. 1063-1064	Test as per specification 50% to 100% 50% to 150% Tests as per specification +-10% of specified limits
17.	<b>Chloramphenicol Capsules</b>	Identification Specific Optical Rotation Dissolution Other tests Assay	I.P.- 2010 VOL.2 Page No. 1047	Test as per specification $\pm 0^0 \pm 360^0$ 50% to 100% +-10% of specified limits 50% to 150%
18.	<b>Chlorpheniramine Maleate Tablets I.P.</b>	Identification  Assay Related Substances  Uniformity of Content Other tests	I.P.- 2010 VOL.2 Page No.1071-1072 I.P.- 2010	Tests as per specification  50% to 150% Comparative Tests as per specification 50% to 150% +-10% of specified limits

**Laboratory** Standard Analytical Laboratory (ND) Pvt. Ltd., 69, Functional Industrial Estate, Patparganj, Delhi

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

**Discipline** Chemical Testing **Issue Date** 31.01.2014

**Certificate Number** T-0780 **Valid Until** 30.01.2016

**Last Amended on** - **Page** 40 of 77

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
19.	<b>Chlorpromazine HCl Tablets</b>	Identification Uniformity of Content Related Substances Other tests Assay	I.P.- 2010 VOL.2 Page No. 1073-1074	As per Specification -do- -do- +-10% of specified limits 50% to 150%
20.	<b>Cloxacillin Sodium Capsules I.P.</b>	Identification Assay Dissolution Other tests	I.P.- 2010 VOL.2 Page No.1124-1125	Tests as per specification 50% to 150% 50% to 100% +-10% of specified limits
21.	<b>Clofazimine Capsules</b>	Identification Other tests Assay	I.P. 2010 Page No. 1108	As per specification +-10% of specified limits 50% to 150%
22.	<b>Codeine Phosphate Syrup</b>	Identification Related Substances Other tests Assay	I.P. 2010 Page No. 1129-1130	As per specification -do- +-10% of specified limits 50% to 150%
23.	<b>Dapsone Tablets</b>	Identification Related Substances Dissolution Other tests Assay	I.P.- 2010 VOL.2 Page No. 1163	As per Specification -do- 50% to 100% +-10% of specified limits 50% to 150%
24.	<b>Dexamethasone Sodium Phosphate Injection</b>	Identification pH Other tests Assay	I.P.- 2010 VOL.2 Page No. 1176-1177	As per Specification 1.0 to 14.0 +-10% of specified limits 50% to 150%



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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>41 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
25.	<b>Diazepam Tablets IP</b>	Identification Assay Related Substances & decomposition Products Dissolution Uniformity of content	I.P.- 2010 VOL.2 Page No.1196-1197 I.P.- 2010	Tests as per specification 50% to 150% Tests as per specification 50% to 100% 50% to 150%
26.	<b>Diazepam Injection</b>	Identification pH Other tests Assay	I.P.- 2010 VOL.2Page No. 1196	As per specification 1.0 to 14.0 +-10% of specified limits 50% to 150%
27.	<b>Diclofenac Sod. Tablets</b>	Identification Other tests Assay	I.P.- 2010 VOL.2 Page No.1200-12001	As per specification +-10% of specified limits 50% to 150%
28.	<b>Dicyclomine HCl oral Solution</b>	Identification Other tests Assay	I.P.- 2010 VOL.2 Page No. 1205-1206	As per Specification +-10% of specified limits 50% to 150%
29.	<b>Dicyclomine HCl tablets</b>	Identification Related substances Other tests Assay	I.P.- 2010 VOL.2Page No. 1206	As per Specification -do- +-10% of specified limits 50% to 150%
30.	<b>Ethambutol Tablets IP</b>	Identification Other tests Assay 2-Aminobutanol Dissolution	I.P.- 2010 VOL.2Page No. 1301	As per Specification +-10% of specified limits 50% to 150% comparative 50% to 100%

**Laboratory** Standard Analytical Laboratory (ND) Pvt. Ltd., 69, Functional Industrial Estate, Patparganj, Delhi

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

**Discipline** Chemical Testing **Issue Date** 31.01.2014

**Certificate Number** T-0780 **Valid Until** 30.01.2016

**Last Amended on** - **Page** 42 of 77

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
31.	<b>Ferrous Sulphate Tablets I.P.</b>	Identification Other tests Assay	I.P.- 2010 VOL.2Page No 1346	Tests as per specification +-10%of specified limits 50% to 150%
32.	<b>Ferrous Fumarate Tablets</b>	Identification Disintegration Time Ferric Iron Other tests Assay	I.P.- 2010 VOL.2Page No. 1342	As per Specification 1Minute to 4 hrs Comparative +-10%of specified limits 50% to 150%
33.	<b>Ferrous Gluconate Tablets</b>	Identification Ferric Iron Other tests Assay	I.P.- 2010 VOL.2Page No. 1344	As per Specification As per Specification +-10%of specified limits 50% to 150%
34.	<b>Frusemide Tablets IP (Furosemide)</b>	Identification Other tests  Assay Free Amine	I.P.- 2010 VOL.2 Page No. 1393-1394  I.P.- 2010	Tests as per specification +-10%of specified limits  50% to 150% Tests as per specification
35.	<b>Furazolidone Oral Suspension</b>	Identification pH Other tests Assay	I.P. 2010 Page No 1395	As per Specification 1.0 to 14.0 As per Specification 50% to 150%
36.	<b>Furazolidone Tablets</b>	Identification Other tests Assay	I.P.- 2010 VOL.2 Page No. 1395-1396	As per Specification As per Specification 50% to 150%

<b>Laboratory</b>	<b>Standard Analytical Laboratory (ND) Pvt. Ltd., 69, Functional Industrial Estate, Patparganj, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>43 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
37.	<b>Isoniazid Tablets IP</b>	Identification Other tests Dissolution Assay Related substances	I.P.- 2010 VOL.2 Page No. 1516-1517	As per Specification As per Specification 50% to 100% 50% to 150% -do-
38.	<b>Isoxsuprine HCl Tablets</b>	Identification Other tests Assay	I.P.- 2010 VOL.2Page No. 1529	As per Specification +-10% of specified limits 50% to 150%
39.	<b>Lignocaine HCL Injection</b>	Identification PH 2,6-Dimethylaniline Other tests Assay	I.P.- 2010 VOL.2Page No. 1587	As per Specification 1.0 to 14.0 Comparative +-10% of specified limits 50% to 150%
40.	<b>Metronidazole Tablets I.P.</b>	Identification Dissolution Assay Related Substances  Other tests	I.P.- 2010 VOL.2 Page No.1686-1687	Tests as per specification 50% to 100% 95 – 105% Comparative Tests as per specification +-10% of specified limits
41.	<b>Metronidazole Benzoate Oral Suspension</b>	Identification Other tests Assay	I.P.- 2010 VOL.2Page No. 1684	As per specification +-10% of specified limits 50% to 150%

<b>Laboratory</b>	<b>Standard Analytical Laboratory (ND) Pvt. Ltd., 69, Functional Industrial Estate, Patparganj, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>44 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
42.	<b>Nicotinamide Tablets</b>	Identification Related Substances Other tests Assay	I.P.- 2010 VOL.3 Page No. 1776	As per specification Comparative +-10% of specified limits 50% to 150%
43.	<b>Oral Rehydration Salts IP</b>	Identification Uniformity of weight Assay Total Sodium Potassium Total Chloride Citrate Dextrose Seal test Other tests	I.P.- 2010 VOL.3 Page No.1820-1821	Tests as per specification Tests as per specification 50% to 150% 50% to 150% 50% to 150% 50% to 150% 50% to 150% 50% to 150% As per specification +-10% of specified limits
44.	<b>Paracetamol Syrup IP</b>	Identification Assay 4-Aminophenol  Other tests	I.P.- 2010 VOL.3 Page No.1860-1861	Tests as per specification 50% to 150% Comparative tests as per specification +-10% of specified limits
45.	<b>Paracetamol Tablets I.P.</b>	Identification  Assay 4-Aminophenol  Relative substance Dissolution Other tests	I.P.- 2010 VOL.3 Page No. 1861-1862	Tests as per specification  50% to 150% Comparative Tests as per specification -do- 50% to 100% +-10% of specified limits

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>45 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
46.	<b>Phenobarbitone Sodium Injection</b>	Identification pH Other tests Assay	I.P.- 2010 VOL.3 Page No. 1892-1893	As per Specification 1.0 to 14.0 +-10% of specified limits 50% to 150%
47.	<b>Phenobartitone Sodium Tablets</b>	Identification Other tests Assay	I.P.- 2010 VOL.3Page No. 1893	As per specification +-10% of specified limits 50% to 150%
48.	<b>Povidone Iodine Solution</b>	Identification ph Ethanol (if present) Assay	I.P.- 2010 VOL.3 Page No. 1943-1944	As per specification 1.0 to 14 10% to 100% 50% to 150%
49.	<b>Pyridoxine HCl Tablets</b>	Identification Assay Related Substances  Uniformity of content	I.P.- 2010 VOL.3 Page No. 2006-2007	As per specification 50% to 150% Comparative Tests as per specification 50% to 100%
50.	<b>Pyrazinamide Tablets IP</b>	Identification Assay Related Substances  Other tests	I.P.- 2010 VOL.3Page No. 2005	Tests as per specification 50-150% Comparative Tests as per specification +-10% of specified limits
51.	<b>Tinidazole Tablets IP</b>	Identification  Assay Other tests	I.P.- 2010 VOL.3Page No. 2227	Tests as per specification  50% to 150% +-10% of specified limits

<b>Laboratory</b>	<b>Standard Analytical Laboratory (ND) Pvt. Ltd., 69, Functional Industrial Estate, Patparganj, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>46 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
52.	<b>Trimethoprim And Sulphamethoxazole Tablets IP</b>	Identification Assay For Trimethoprim Assay For Sulphamethoxazole Other tests	I.P.- 2010 VOL.3 Page No. 2266-2267	Tests as per Specification 50% to 150% 50% to 150% +-10% of specified limits
53.	<b>Riboflavin Tablet</b>	Identification Uniformity of content Other tests Assay	I.P.- 2010 VOL.3Page No. 2052	As per Specification 50% to 150% +-10% of specified limits 50% to 150%
54.	<b>Rifampicin Capsules</b>	Identification Related Substances Other tests Dissolution Assay	I.P.- 2010 VOL.3 Page No. 2055-2056	As per Specification Comparative +-10% of specified limits 50% to 100% 50% to 150%
55.	<b>Zinc Oxide Cream</b>	Identification Other tests Assay	I.P.- 2010 VOL.3Page No. 2336	As per Specification +-10% of specified limits 50% to 150%
56.	<b>Pharmaceuticals (General test)</b>	General Identification Reactions  Limit Test for Arsenic  Limit Test for Chlorides  Limit test for free formaldehyde	I.P.- 2010 Page No.71-75 as per specification  I.P-2010 Page No. 80 as per specification  I.P.- 2010 Page No. 80 as per specification  I.P.- 2010 Page No. 83 as per specification	As per specification  Comparative test  Comparative test  Comparative test

<b>Laboratory</b>	<b>Standard Analytical Laboratory (ND) Pvt. Ltd., 69, Functional Industrial Estate, Patparganj, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>47 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Pharmaceuticals (General test)</b>	Limit test for heavy metals	I.P.- 2010 Page No. 80-81 as per specification	Comparative test
		Limit test for iron	I.P.- 2010 Page No. 81 as per specification	Comparative test
		Limit test for lead	I.P.- 2010 Page No. 81-82 as per specification	Comparative test
		Limit test for sulphates	I.P.- 2010 Page No. 82 as per specification	Comparative
		Determination of nitrogen	I.P.- 2010 Page No. 87-88 as per specification	0.05% to 50%
		Determination of sulphated ash	I.P.- 2010 Page No. 82 as per specification	0.05% to 10%
		Determination of water	I.P.- 2010 Page No. 97-99 as per specification	0.02% to 50%
		Determination of zinc	I.P.- 2010 Page No. 99 as per specification	Comparative
		Determination of acetyl value	I.P.- 2010 Page No. 84 as per specification	>10
		Determination of acid value	I.P.- 2010 Page No. 84 as per specification	>0.5

<b>Laboratory</b>	<b>Standard Analytical Laboratory (ND) Pvt. Ltd., 69, Functional Industrial Estate, Patparganj, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>48 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Pharmaceuticals (General test)</b>	Determination of ester value	I.P.- 2010 Page No. 85 as per specification	>10
		Determination of hydroxyl value	I.P.- 2010 Page No. 85-86 as per specification	>10
		Determination of iodine value	I.P.- 2010 Page No. 86 as per specification	5 to 100
		Determination of peroxide value	I.P.- 2010 Page No.92 as per specification	1 to 20
		Determination of saponification value	I.P.- 2010 Page No.92 as per specification	50 to 200
		Determination of Unsaponifiable Matter	I.P.- 2010 Page No.93-94 as per specification	0.5 to 10
		Determination of Foreign Organic Matter	I.P.- 2010 Page No. 201 as per specification	0.1% to 5.0%
		Determination of Ethanol-Soluble Extractive	I.P.- 2010 Page No. 201 as per specification	0.1% to 80%
		Determination of Water soluble Extractive	I.P.- 2010 Page No. 201 as per specification	1 to 90
		Determination of Ash	I.P.- 2010 Page No. 82-83 as per specification	0.5% to 10%



<b>Laboratory</b>	<b>Standard Analytical Laboratory (ND) Pvt. Ltd., 69, Functional Industrial Estate, Patparganj, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>49 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Pharmaceuticals (General test)</b>	Determination of Acid Insoluble Ash	I.P.- 2010 Page No. 82 as per specification	0.5% to 10%
		Determination of Water Soluble Ash	I.P.- 2010 Page No. 83 as per specification	0.5% to 10%
		Infra Red Spectrophotometry	I.P.- 2010 Page No. 111-117 as per specification	Identity Test
		Ultra-Violet and Visible spectrophotometry (E1%)	I.P.- 2010 Page No. 117-118 as per specification	Identity test
		Test for Clarity of Solution	I.P.- 2010 Page No. 107 as per specification	Comparative Test
		Test for Colour of Solution	I.P.- 2010 Page No. 107 as per specification	Comparative Test
		Disintegration Test for Tablets & Capsules	I.P.- 2010 Page No. 187-188 as per specification	Min/hr/1 Sec. Detection limit
		Determination of Boiling or Distilling Range	I.P.- 2010 Page No. 119 as per specification	Min. 50°C
		Determination of Congealing Range or Temperature	I.P.- 2010 Page No. 121-122 as per specification	Min. 20°C
		Determination of Ethanol	I.P.- 2010 Page No. 99-101 as per specification	0.5% to 100%

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>50 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Pharmaceuticals (General test)</b>	Determination of Freezing Point	I.P.- 2010 Page No. 122 as per specification	Min. 0°C
		Determination of Melting Range or Temperature	I.P.- 2010 Page No. 140-143 as per specification	Ambient to 330°C
		Determination of Optical Rotation and Specific Optical Rotation	I.P.- 2010 Page No. 143-144 as per specification	± 0°C to ± 360°
		Determination of pH value	I.P.- 2010 Page No. 146 as per specification	1 to 14
		Determination of Refractive Index	I.P.- 2010 Page No. 171 as per specification	1.3 to 1.7
<b>II. COSMETICS &amp; ESSENTIAL OILS</b>				
<b>1.</b>	<b>Toothpaste (Fluoridated)</b>	i) Fineness:	IS 6356 : 2001 B	0.1 to 100 %
		a) Particles retained on 150 micron IS Sieve	-	
		b) Particles retained on 75 micron IS Sieve	IS 6356 : 2001 C	0.1 to 100 %
		ii) pH of aqueous suspension	IS 6356 : 2001 D	1 to 14
		iii) Heavy metals (as lead)	IS 6356 : 2001 E	Comparative
		iv) Arsenic (as AS <sub>2</sub> O <sub>3</sub> )	IS 6356 : 2001 F	> 0.01 ppm
	v) Foaming power		0.1 to 150 ml	

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>51 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
2.	<b>Toothpaste (Non-fluoridated)</b>	i) Fineness:	IS 6356 : 2001 B	0.1 to 100 %
		a) Particles retained on 150 micron IS Sieve	-	0.1 to 100 %
		b) Particles retained on 75 micron IS Sieve		
		ii) pH of aqueous suspension	IS 6356 : 2001 C	1 to 14
		iii) Heavy metals (as lead)	IS 6356 : 2001 D	Comparative
		iv) Arsenic (as As <sub>2</sub> O <sub>3</sub> )	IS 6356 : 2001 E	> 0.01 ppm
v) Foaming power	IS 6356 : 2001 F	0.1 to 150 ml		
3.	<b>Skin Powder (Face Powder)</b>	i) Matter insoluble in boiling water.	IS 3959 : 2004 B	0.1 to 100 %
		ii) Fineness:		
		a) Residue on 75-micron IS Sieve.	IS 3959 : 2004 C	Max. 100%
		b) Residue on 150-micron IS Sieve.		Max. 100%
		iii) Moisture and volatile matter.	IS 3959 : 2004 D	0.1 to 100%
		iv) pH of aqueous suspension	IS 3959 : 2004 E	1 to 14
v) Heavy metals (as Pb).	IS 3959 : 2004 F	>0.01 ppm		
vi) Arsenic (as As <sub>2</sub> O <sub>3</sub> )	IS 3959 : 2004 G	> 0.01 ppm		

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>52 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>4.</b>	<b>Skin Powder (Body Powder)</b>	i) Matter insoluble in boiling water.	IS 3959 : 2004 B	0.1 to 100 %
		ii) Fineness:	IS 3959 : 2004 C	Max. 100%
		a) Residue on 75-micron IS Sieve.		
		b) Residue on 150-micron IS Sieve.		Max. 100%
		iii) Moisture and volatile matter.	IS 3959 : 2004 D	0.1 to 100%
		iv) pH of aqueous suspension	IS 3959 : 2004 E	1 to 14
<b>5.</b>	<b>Shampoo, Surfactant Based</b>	v) Heavy metals (as Pb).	IS 3959 : 2004 F	>0.01 ppm
		vi) Arsenic (as As <sub>2</sub> O <sub>3</sub> )	IS 3959 : 2004 G	> 0.01 ppm
		i) Non-volatile alcohol soluble matter.	IS 7884 : 2004 B	0.1 to 50%
		ii) pH	IS 7884 : 2004 C	1 to 14
		iii) Foam height	IS 7884 : 2004 D	50 to 250
		<b>6.</b>	<b>Skin Powder (For Infants)</b>	i) Matter insoluble in boiling water.
ii) Fineness:				
a) Residue on 75-micron IS Sieve.	IS 3959 : 2004 C			Max. 100%
b) Residue on 150-micron IS Sieve.				Max. 100%
iii) Moisture and volatile matter.	IS 3959 : 2004 D			0.1 to 100%
iv) pH of aqueous suspension	IS 3959 : 2004 E			1 to 14
		v) Heavy metals (as Pb).	IS 3959 : 2004 F	comparative
		vi) Arsenic (as As <sub>2</sub> O <sub>3</sub> )	IS 3959 : 2004 G	> 0.01 ppm

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>53 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
7.	Powder Hair Dyes	i) pH	IS 10350 : 1999 A	1 to 14
		ii) Total active matter (dye content)	IS 10350 : 1999 B	0.1 to 50%
8.	Shaving Creams	i) Total fatty substances	IS 9740 : 1981 B-2	0.1 to 100%
		ii) Water content	IS 2362-1973 B-3	0.1 to 80%
		iii) Lathering (foaming)	IS 9740 – 1981 B-4	0.1 to 400
		iv) Free caustic alkali	IS 323 – 1959 B-5	0.1 to 20%
9.	Shaving Soap	i) Moisture and volatile matter	IS 286 4	0.1 to 100%
		ii) Matter insoluble in alcohol	IS 286 5	0.1 to 100%
		iii) Free caustic alkali (as KOH)	IS 286 6	0.1 to 20%
		iv) Chlorides (as KCL)	IS 286 10	Max. 1.5%
		v) Unsaponified fatty matter	IS 286 13	0.1 to 50%
		vi) Glycerol	IS 286 22	0.1 to 100%

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>54 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>10.</b>	<b>Henna Powder</b>	i) Moisture and volatile matter	IS 7159 – 1984 - 4	0.1 to 100%
		ii) Cold water extract	IS 7159 – 1984 - 5	0.1 to 50%
		iii) Crude fibre	IS 7159 – 1984 - 6	0.1 to 50%
		iv) Mineral Matter	IS 7159 – 1984 - 7	Max. 50%
		v) Acid insoluble ash	IS 7159 – 1984 - 8	0.1 to 20%
		vi) Extraneous sand	IS 7159 – 1984 - 9	0.1 to 50%
		vii) Presence of extraneous dyes	IS 7159 – 1984 - 10	Qualitative test
		viii) Lawsone pigment	IS 7159 – 1984 - 11	0.1 to 10%
<b>11.</b>	<b>Skin Creams</b>	i) pH	IS 6608 : 2004 B	1 to 14
		ii) Total Fatty substance content	IS 6608 : 2004 C	0 to 100%
		iii) Total residue	IS 6608 : 2004 D	Max. 100%
		iv) Heavy metals (as Pb)	IS 6608 : 2004 E	Comparative
		v) Arsenic (as As <sub>2</sub> O <sub>3</sub> )	IS 6608 : 2004 F	> 0.01 ppm

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>55 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>12.</b>	<b>Tooth Powder</b>	i) Fineness:		
		(a) Particles retained on 150 micron IS Sieve	IS 5383 - 1978 A-2	0.1 to 100 % 0.1 to 100%
		(b) Particles retained on 75 micron IS Sieve		
		ii) Moisture and volatile matter	IS 5383 – 1978A-3	0.1 to 100%
		iii) pH	IS 5383 – 1978A-4	1 to 14
		iv) Foaming power	IS 5383 – 1978A-5	0.1 to 150 ml
		v) Lead (as Pb)	IS 5383 – 1978A-6	Comparative
		vi) Arsenic (as As <sub>2</sub> O <sub>3</sub> )	IS 5383 – 1978A-7	> 0.01 ppm
		vii) Hard and sharp-edged abrasive particles	IS 5383 – 1978A-8	Max. 2%

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>56 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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### **III. SOAP, DETERGENTS AND TOILETRIES**

<b>1. Toilet Soap</b>	i) Total fatty matter.	IS 286-15	0.1 to 100%
	ii) Free caustic alkali, as sodium hydroxide (NaOH)	IS 286-62	0.1 to 20%
	iii) Matter insoluble in alcohol	IS 286-5	Max. 100%
	iv) Chlorides (as sodium chloride)	IS 286-10	Max. 1.50%
<b>2. Toilet Soap (Liquid)</b>	i) Total fatty matter.	IS 286-15	0.1 to 100%
	ii) Matter insoluble in alcohol	IS 286-5	Max. 100%
	iii) Free caustic alkali, (as K <sub>2</sub> O)	IS 286-6.2	0.1 to 20%
<b>3. Laundry Soap Powder</b>	i) Total fatty matter	IS 286-1966 15	0.1 to 100%
	ii) Unsaponified fatty matter	IS 286-1966 13	0.1 to 50%
	iii) Free caustic alkali	IS 286-1966 – 6.2	0.1 to 20%
	iv) Matter insoluble in alcohol	IS 286-1966 5	Max.100%
	v) Glycerol	IS 286-1966 22	0.1 to 100%



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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>57 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>4.</b>	<b>Soft Soap</b>	i) Total fatty matter.	IS 286-1966 15	0.1 to 100%
		ii) Unsaponified and unsaponifiable matter	IS 286-1966 12	0.1 to 50%
		iii) Total free alkali ( as K <sub>2</sub> O)	IS 7532 – 1974 A	0.1 to 50%
		iv) Free caustic alkali (as K <sub>2</sub> O)	IS 286-1966 – 6	0.1 to 20%
<b>5.</b>	<b>Transparent Toilet Soap</b>	i) Total fatty matter.	IS 286-1978 15	0 to 100%
		ii) Unsaponified fatty matter	IS 286-1978 13	0 to 50%
		iii) Free caustic alkali (as NaOH)	IS 286-1978 6.2	0 to 20%
<b>6.</b>	<b>Antibacterial Toilet Soap</b>	i) Total fatty matter.	IS 286 15	0.1 to 100%
		ii) Free caustic alkali, as sodium hydroxide (NaOH)	IS 286 6.2	0.1 to 20%
		iii) Matter insoluble in alcohol	IS 286 2.5	Max. 100%

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>58 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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#### **IV. POLLUTION AND EFFLUENTS**

<b>1. Effluents &amp; Waste Water</b>	Colour		APHA 2012, 2120B, 2-6	5-70 Hazen units
	Conductivity		APHA-2012, 22 <sup>nd</sup> Edition 2-54, 2510-B	2 - 10,000 µmhos/cm
	Total solids		APHA-2012, 22 <sup>nd</sup> Edition 2-64, 2540-B	3-10000 mg/l
	Total suspended solid		APHA-2012, 22 <sup>nd</sup> Edition 2-66, 2540-D	3-10000 mg/l
	Residual chlorine		APHA-2012, 22 <sup>nd</sup> Edition 4-60, 4500 Cl-B	0.1-100 mg /l
	Fluoride		APHA-2012, 22 <sup>nd</sup> Edition 4-87, 4500 F-D	0.1-25 mg /l
	Dissolved Oxygen		APHA-2012, 22 <sup>nd</sup> Edition 4-139, 4500 O-C	0.1-10 mg/L
	pH		APHA-2012, 22 <sup>nd</sup> Edition 4-92, 4500 H+-B	1-14 unit
	Oil & Grease		APHA-2012, 22 <sup>nd</sup> Edition 5-40, 5520 B	5-100 mg/L
Biochemical Oxygen Demand		APHA-2012, 22 <sup>nd</sup> Edition 5-5, 5210-B	2-1000 mg/l	

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>59 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Effluents &amp; Waste Water</b>	Chemical Oxygen Demand	APHA-2012, 22 <sup>nd</sup> Edition 5-17, 5220-B	2-1000 mg/l
		Total Dissolved solids	APHA-2012, 22 <sup>nd</sup> Edition 2-65, 2540-C	5-10000 mg/l
		Total Kjeldahl Nitrogen	APHA-2012, 22 <sup>nd</sup> Edition 4-132, 4500-B	0.1-20 mg/l
		Ammonical Nitrogen	APHA-2012, 22 <sup>nd</sup> Edition 4-112, 4500 -C	0.1-10 mg/l
		Phosphate as P	APHA-2012, 22 <sup>nd</sup> Edition 4-154, 4500 – P-D	0.005-2 mg/l
		Chloride as Cl	APHA-2012, 22 <sup>nd</sup> Edition 4-72, 4500 Cl <sup>-</sup> B	1.01-100 mg/l
		Cyanide as CN	APHA-2012, 22 <sup>nd</sup> Edition 4-39, 4-44, 4500 – CN <sup>-</sup> C&D	0.02-10 mg/l
		Sulphide as H <sub>2</sub> S	APHA-2012, 22 <sup>nd</sup> Edition 4-178, 4500 – S <sup>-</sup> F	0.01-10 mg/l
		Hexavalent Chromium as Cr <sup>+6</sup>	APHA-2012, 22 <sup>nd</sup> Edition, 3-69, 3500 Cr – B as Cr+6	0.1-5 mg/l
		Sulphate as SO <sub>4</sub>	APHA-2012, 22 <sup>nd</sup> Edition 4-190 4500 – E	5-1000 mg/l

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<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>60 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Effluents &amp; Waste Water</b>	Nitrate as NO <sub>3</sub>	APHA-2012, 22 <sup>nd</sup> Edition 4-122, 4500-B	1-50 mg/l
		Arsenic as As	APHA-2012, 22 <sup>nd</sup> Edition 3-61, 3113-B	0.01-10 mg/l
		Cadmium as Cd	APHA-2012, 22 <sup>nd</sup> Edition 3-64, 3113-B	0.01-5 mg/l
		Copper as Cu	APHA-2012, 22 <sup>nd</sup> Edition 3-72, 3113-B	0.01-10 mg/l
		Sodium as Na	APHA-2012, 22 <sup>nd</sup> Edition 3-98, 3113-B	5-1000 mg/l
		Potassium as K	APHA-2012, 22 <sup>nd</sup> Edition 3-88, 3113-B	5-1000 mg/l
		Lead as Pb	APHA-2012, 22 <sup>nd</sup> Edition 3-79, 3113-B	0.01-100 mg/l
		Mercury as Hg	APHA-2012, 22 <sup>nd</sup> Edition 3-86, 3113-B	0.01-50mg/l
		Zinc as Zn	APHA-2012, 22 <sup>nd</sup> Edition 3-106, 3113-B	0.01-100 mg/l
		Iron as Fe	APHA-2012, 22 <sup>nd</sup> Edition 3-76, 3113-B	0.01-100 mg/l

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>61 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Effluents &amp; Waste Water</b>	Aluminium as Al	APHA-2012, 22 <sup>nd</sup> Edition 3-57, 3113-B	0.01-100 mg/l
		Selenium as Se	APHA-2012, 22 <sup>nd</sup> Edition 3-91, 3113-B	0.01-10 mg/l
		Boron as B	APHA 2012, 22 <sup>nd</sup> Edition, 4-23, 3113-B	0.3-10 mg/l
		Manganese as Mn	APHA-2012, 22 <sup>nd</sup> Edition 3-84, 3113-B	0.01-10 mg/l
		Nickel as Ni	APHA 2012, 22 <sup>nd</sup> Edition, 3-87, 3113-B	0.01-10 mg/l
		Chromium as Cr	APHA 2012, 22 <sup>nd</sup> Edition, 3-67, 3113-B	0.005-10 mg/l (LOD)

#### **V. AIR, GASES & ATMOSPHERE**

<b>1. Stack Emission</b>	Particulate Matter (PM)	IS 11255 –Part-1	10-1000 mg/Nm <sup>3</sup>
	Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 –Part II - 1985	2-100 mg/ Nm <sup>3</sup>
	Carbon Monoxide(CO)	IS 5182 –Part X - 1999	1-12%
	Carbon Dioxide	IS 13270:1992	1-12%
	Nitrogen Oxide(No <sub>x</sub> )	IS 11255- Part-7	2-100 mg/ Nm <sup>3</sup>

<b>Laboratory</b>	<b>Standard Analytical Laboratory (ND) Pvt. Ltd., 69, Functional Industrial Estate, Patparganj, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>62 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
2.	<b>Ambient Air</b>	Suspended Particulate Matter (SPM) (SPM)	IS 5182 Part IV 1999/SOP based on (CPCB Guideline)/SAL/SOP/ENV/007	10-1000µg/ m <sup>3</sup>
		RSPM	IS 5182 Part 23 1999 (RDS) SOP based on (CPCB Guideline)/SAL/SOP/ENV/008	10-400µg/ m <sup>3</sup>
		Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 Part II 2001 SOP based on (CPCB Guideline)/SAL/SOP/ENV/009	4-80µg/ m <sup>3</sup>
		Nitrogen Oxide (No <sub>x</sub> )	IS 5182 Part VI 2006 SOP based on (CPCB Guideline)/SAL/SOP/ENV/010	4-80µg/ m <sup>3</sup>

## **VI. WATER**

<b>1. Packaged Drinking Water (Other Than Packaged Natural Mineral Water) IS 14543</b>	Colour, true colour unit	IS 3025(Part4)	1-5 colour units
	Odour	IS 3025(Part5)	Agreeable
	Taste	IS 3035(Part8)	Agreeable NTU
	Turbidity	IS 3025(Part10)	0 – 40 mg/l
	Total Dissolved Solids	IS 3025(Part16)	2 & above
	pH value	IS 3025(Part11)	1 to 14
	Barium (as Ba)	Annex-F,IS 13428/IS 15302	(0.5 to 50)mg/L
	Copper (as Cu)	IS 3025 (Part-42)/APHA3113, 3030	(0.1 to 1)mg/L
Iron(as Fe)	IS 3025(Part53)/IS 15303	(0.01 to 1) mg/l	

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>63 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Packaged Drinking Water (Other Than Packaged Natural Mineral Water) IS 14543</b>	Manganese(as Mn)	IS 3025(P-59)/ APHA 3113, 3030/ TP No. SAL/CHEM/068	(0.01 to 1) mg/l
		Nitrate(as NO <sub>3</sub> )	IS 3025(Pt34)	(0.01 to 1) mg/l
		Nitrite(as NO <sub>2</sub> )	IS 3025(Pt34)	(0.01 to 1) mg/l
		Fluoride (as F)	IS 3025(Pt.60)	(0.01 to 20) mg/l
		Zinc (as Zn)	IS 3025(Pt49)	(0.01 to 100) mg/l
		Silver (as Ag)	Annex J IS 13428/APHA 3113, 3030	(0.003 to 0.3)mg/l
		Aluminium (as Al)	IS 3025(Pt55)/ APHA 3113, 3030	(0.03to 1.0)mg/l
		Chloride (as Cl)	IS 3025(Pt32)	(5 to 500) mg/l
		Selenium (as Se)	IS 3025(Pt56) IS 15303/APHA 3113, 3030	(0.004 to 0.4) mg/l
		Sulphate (as SO <sub>4</sub> )	IS 3025(Pt24)	(5 to 500)mg/l
		Alkalinity (as CaCO <sub>3</sub> )	IS 3025(Pt23)	(5 to 500)mg/l
		Calcium (as Ca)	IS 3025(Pt40)	(1.0 to 100)mg/l
		Magnesium (as Mg)	IS 3025(Pt46)	(1.0 to 100) mg/l

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>64 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Packaged Drinking Water (Other Than Packaged Natural Mineral Water) IS 14543</b>	Sodium (as Na)	IS 3025(P-45)	(1 to 100)mg/l
		Residual free chlorine	IS 3025(P-26)	(0.1 to 10)mg/l
		Phenolic compounds (as C <sub>6</sub> H <sub>5</sub> OH)	IS 3025(P-43)	(0.001 to 0.1) mg/l
		Mineral oil	IS 3025(P39)	(0.01to 1) mg/l
		Anionic surface active agents (as MBAS)	Annex K IS 13428	(0.01 to 0.1)mg/l
		Sulphide (as H <sub>2</sub> S)	IS 3025(P-29)	(0.02 to 2.0)mg/l
		Antimony (as Sb)	IS 15305/APHA 3113, 3030	(0.003to 0.3) mg/l
		Borate (as B)	Annex H IS 13428	(2 to 200)mg/l
		Mercury (as Hg)	IS 3025 (P-48)	(0.0005 to 0.05)mg/l
		Cadmium (as Cd)	IS 3025(P-41)/ APHA 3113, 3030	(0.002 to 0.2)mg/l
		Arsenic (as As)	IS 3025(P-37)	(0.0051 to 1.0)mg/l
		Cyanide (as CN)	IS 3025(P-27)	(0.02 to 2.0)mg/l
		Lead (as Pb)	IS 3025(P-47)/ APHA 3113, 3030	(0.002 to 2.0 mg/l
		Chromium (as Cr)	Annex J IS 13428 (P-52)/ APHA 3113, 3030	(0.005 to 0.5)mg/l



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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>65 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Packaged Drinking Water (Other Than Packaged Natural Mineral Water) IS 14543</b>	Nickel (as Ni)	Annex L IS 13428/ APHA 3113, 3030	(0.01to 1.0) mg/l
		Polychlorinated biphenyle (PCB)	Annex M IS 13428/ (P-54)	(0.0001 to 0.01) mg/l
		Polynuclear aromatic hydrocarbons	APHA 6440 AOAC 990.06 19 <sup>th</sup> Edition 2012	(0.0002 to 0.01) mg/l
		DDT(o.p & p,p-isomers of DDT, DDE & DDD	IS 14543 AOAC 990.06 19 <sup>th</sup> Edition 2012	(0.00001to 0.001) mg/l
		Y-HCH (Lindane)	IS 14543 AOAC 990.06 19 <sup>th</sup> Edition 2012	(0.00002 to 0.002)mg/l
		$\alpha$ , $\beta$ and $\delta$ -HCH	IS 14543 AOAC 990.06 19 <sup>th</sup> Edition 2012	(0.00002 to 0.002)mg/l
		Endosulfan ( $\alpha$ , $\beta$ and Sulphate)	IS 14543 AOAC 990.06 19 <sup>th</sup> Edition 2012	(0.00002 to 0.002) mg/l
		Monocrotophos	IS 14543 USEPA 8141A	(0.0001 to 0.01)mg/l
		Ethion	IS 14543 USEPA 1657A	(0.00005 to 0.005) mg/l
		Chlorpyriphos	IS 14543 USEPA 525.2,8141A	(0.00005 to 0.005)mg/l
		Phorate (including phorate sulphoxide & sulphone)	IS 14543 USEPA 8141A	(0.00005 to 0.005)mg/l
		2, 4-D	IS 14543 USEPA 515.1	(0.00005 to 0.005) mg/l

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<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>66 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Packaged Drinking Water (Other Than Packaged Natural Mineral Water) IS 14543</b>	Butachlor	IS 14543 USEPA 525.2,8141A	(0.00005 to 0.005) mg/l
		Iso proton	IS 14543 USEPA 532	(0.00005 to 0.005)mg/l
		Alachor	IS 14543 USEPA 525.2,507	(0.00005 to 0.005) mg/l
		Atrazine	IS 14543 USEPA 525.2,8141A	(0.00005 to 0.005)mg/l
		Methyl parathion Including methyl paraoxon	IS 14543 USEPA 8141 A	(0.00005 to 0.005) mg/l
		Malathion including Malaaxon	IS 14543 USEPA 8141 A	(0.00005 to 0.005) mg/l
		Aldrin & Dieldrin	IS 14543 USEPA AOAC 990.06 19 <sup>th</sup> Edition 2012	(0.00003 to 0.003) mg/l

## **VII. FOOD & AGRICULTURAL PRODUCTS**

### **1. Spice & Condiments**

#### **a. Chilies (whole and ground powdered)**

		IS 2322-2010	
Moisture , Percent by mass		IS 1797-1985 (Clause 4)	0.01 to 10% ≥ 10%
Ash, Percent by mass		IS 1797-1985 (Clause 6)	0.01 to 10% ≥ 10%
Acid Insoluble Ash, Percent by mass		IS 1797-1985 (Clause 8)	0.01 to 10 % ≥ 10%
Non – Volatile Ether Extract , Percent by mass		IS 1797-1985 (Clause 14)	0.1 to 20% ≥20%

<b>Laboratory</b>	<b>Standard Analytical Laboratory (ND) Pvt. Ltd., 69, Functional Industrial Estate, Patparganj, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>67 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>b.</b>	<b>Turmeric (Whole and Ground)</b>  <b>IS 3576-2010 (Amd.-1)</b>	Moisture , Percent by mass	IS 1797-1985 (Clause-9)	3 to 15% ≥15%
		Ash, Percent by mass	IS 1797-1985 (Clause-6)	0.01 to 10% ≥10%
		Acid Insoluble Ash, Percent by mass	IS 1797-1985 (Clause-8 )	0.01 to 10% ≥10%
		Non – Volatil Ether Extract ,Percent by mass	IS 1797-1985 (Clause-8)	5 to 10% ≥10%
		Presence of chromates	IS 3576:2010 (Annex. A)	Presence/ Absence
<b>c.</b>	<b>Black Papper (Whole &amp; ground)</b>  <b>IS 1798-1982</b>	Ash, Percent by mass	IS1797-1985 (Clause 9)	0.01 to 10% ≥ 10%
		Acid Insoluble Ash, Percent by mass	IS1797-1985 (Clause 6)	0.01 to 10 % ≥ 10%
		Non – Volatile Ether Extract , by mass	IS1797-1985 (Clause 8)	0.1 to 20% ≥20%
<b>d.</b>	<b>Garam Masala IS 13545-1992</b>	Volatile Oil ,ml/100gm	IS 1797 (Clause 15)	0.01 to 10% ≥ 10%
		Ash, Percent by mass	IS 1797 (Clause 6)	0.01 to 10% ≥ 10%

<b>Laboratory</b>	<b>Standard Analytical Laboratory (ND) Pvt. Ltd., 69, Functional Industrial Estate, Patparganj, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>68 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
		Acid Insoluble Ash, Percent by mass	IS 1797 (Clause 8)	0.01 to 10 % ≥ 10%
		Non – Volatile Ether Extract , Percent by mass	IS 1797 (Clause 8)	0.01 to 20% ≥20%
<b>2.</b>	<b>Milk &amp; Dairy product</b>			
<b>a.</b>	<b>Fresh Milk &amp; Pasteurised Milk, Toned Milk IS 1479 (I &amp; II)-1979, RA 2009 IS 13688 : 1999</b>	Total Fat , Percent by mass	IS 1479 (I & II) Cl 4&5	0.01 to 10 % ≥ 10%
		Total Solids, Percent by mass	IS 1479(II)-1979	1 to 40% ≥ 40%
		Protein, Percent by mass	IS 1479(II)-1979	0.1 to 20 % ≥ 20%
		Sugars, Percent by mass	DGHS Lab mannul -1 (Milk & Milk products)	0.1 to 20 % ≥ 20%
<b>b.</b>	<b>Milk Powder , Whole/Skimmed IS 1165 :2002</b>	Moisture , Percent by mass	IS 11623:1992, RA 2009	0.1 to 20 % ≥ 20%
		Total Solids, Percent by mass	IS 1165:1992, RA 2009	0.01 to 40% ≥ 40%
		Acidity	IS 1165:1992, RA 2009	0.01 to 40% ≥ 40%

<b>Laboratory</b>	<b>Standard Analytical Laboratory (ND) Pvt. Ltd., 69, Functional Industrial Estate, Patparganj, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>69 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
		Fat (A) Whole Milk Powder, Percent by mass  (B)Skimmed Milk Powder, Percent by Mass	IS 11721-1986, RA 2009	0.01 to 50% ≥50%
<b>c.</b>	<b>Chhana Panner IS 5162-1980</b>	Moisture , Percent by mass	IS 2785-1979 (App. A)	10 to 40% ≥40%
		Fat , Percent by mass	IS 2785-1979 (App. B)	40 to 50% ≥50%
		Protein, Percent by mass	IS 7219 -1973 (App. A)	1 to 20% ≥20%
		Ash, Percent by mass	IS 5162 –1980 (App. A)	0.01 to 10% ≥10%
<b>d.</b>	<b>Curd/Yogurt Vegetable IS 8678-1977, RA 2005</b>	Total Solids, Percent by mass	IS 4079-1967 (App. A)	1 to 20% ≥20%
		Fat, Percent by mass	IS 11721-1986	1 to 40% ≥40%
		Protein, Percent by mass	IS 7219-1973 (App. A)	2 to 20% ≥ 20%
		Acidity as Lactic Acid, Percent by mass	IS 1479 (P-1)	0.01 to 10% ≥ 10%

**Laboratory** Standard Analytical Laboratory (ND) Pvt. Ltd., 69, Functional Industrial Estate, Patparganj, Delhi

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

**Discipline** Chemical Testing **Issue Date** 31.01.2014

**Certificate Number** T-0780 **Valid Until** 30.01.2016

**Last Amended on** - **Page** 70 of 77

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
3.	<b>Tea</b> <b>IS 3633-2003</b>	Moisture, Percent by mass	IS 13853-1994 (Clause 3.9)	0.1 to 20% ≥ 20%
		Total Ash, Percent by mass	IS 13854-1999 (Clause 3.9)	0.01 to 10% ≥ 10%
		Acid Insoluble Ash, Percent by mass	IS 13857-1993 (Clause 4.9)	0.01 to 10% ≥ 10%
		Water Extract, Percent by mass	IS 13862-1999 (Clause 4.1)	10 to 50% ≥ 50%
4.	<b>Chocolate,</b> <b>IS 1163 : 1992</b>	Acid Insoluble ash, Percent by mass	IS 1163-1992, RA 2009	0.01 to 10% ≥10%
		Total Fat, Percent by mass	IS 1163-1992, RA 2009	0.1 to 60 % ≥60%
5.	<b>Namkeens</b> <b>IS 15271-2003</b>	Moisture, Percent by mass	IS 15271-2003 (App. B)	0.1 to 10% ≥10%
		Acid Insoluble Ash, Percent by mass	IS 15271-2003 (App. C)	0.01 to 10% ≥10%
		Oil/ Fat, Percent by mass	IS 15271-2003 (App. D)	0.1 to 50% ≥50%
		Acidity of the extracted fat, Percent by mass	IS 15271-2003 ( App-E)	0.01 to 20% ≥ 20%

<b>Laboratory</b>	<b>Standard Analytical Laboratory (ND) Pvt. Ltd., 69, Functional Industrial Estate, Patparganj, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>71 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>6.</b>	<b>Starch &amp; Starchy Product</b>			
<b>a.</b>	<b>Corn Flakes</b>	Moisture, Percent by mass	IS 1158-1973 (Amd. 3) (App. A)	0.1 to 10% ≥10%
		Total Ash, Percent by mass	IS 1158-1973 (Amd. 3) (App. B)	0.01 to 10% ≥10%
		Acid Insoluble Ash, Percent by mass	IS 1158-1973 (Amd. 3) (App. C)	0.01 to 20% ≥ 20%
		Alcoholic Acidity as H <sub>2</sub> SO <sub>4</sub> , Percent by mass	IS 1158-1973 (Amd. 3) (App. E)	0.01 to 20 ≥ 20
<b>b.</b>	<b>Custard Powder IS 1007 – 1984 (Amd.)</b>	Moisture, Percent by mass	IS 4706-1978 (P-II)	0.1 to 10% ≥10%
		Total Ash , Percent by mass	IS 4706 -1978 (P-II)(Clause 6)	0.01 to 10% ≥10%
		Acid Insoluble Ash, Percent by mass	IS 4706-1978 (P-II)(Clause 8)	0.01 to 20% ≥20%
		Gelling Power	IS 1007-1984 (App. A)	Qualitative

<b>Laboratory</b>	<b>Standard Analytical Laboratory (ND) Pvt. Ltd., 69, Functional Industrial Estate, Patparganj, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>72 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>c.</b>	<b>Macaroni / Vermicelli</b>	Moisture, Percent by mass	IS 1485-1993 (Annex C)	0.1 to 20% ≥ 20%
		Total Ash, Percent by mass	IS 1485-1993 (Annex D)	0.01 to 10% ≥ 10%
		Free Acidity, Percent by mass	IS 1485 (Annex. H)	0.01 to 10% ≥10%
		Acid Insoluble Ash, Percent by mass	IS 1485-1993 (Annex E)	0.01 to 20% ≥20%
		Protein, Percent by mass	IS 1485-1993, 7219 (Annex F)	1 to 20% ≥20%
<b>7.</b>	<b>Corn Flour IS 1005-1992</b>	Moisture, Percent by mass	IS 4706-1978 (P-2), RA 2005	0.1 to 20% ≥20%
		Total Ash, Percent by mass	IS 4706-1978 (P-II) RA 2005 (Clause6)	0.01 to 10% ≥10%
		Acid Insoluble Ash, Percent by mass	IS 4706-1978 (P-II), RA 2005 (Clause8)	0.01 to 20% ≥20%
		Protein, Percent by mass	IS 4706-1978 (P-II) RA 2005 (Clause10)	0.01 to 10% ≥10%
		Alcoholic Acidity as H <sub>2</sub> SO <sub>4</sub> , Percent by mass	IS 4706-1978 (P-II) RA 2005 (Clause15)	0.01 to 20% ≥20%



<b>Laboratory</b>	<b>Standard Analytical Laboratory (ND) Pvt. Ltd., 69, Functional Industrial Estate, Patparganj, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>73 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>8.</b>	<b>Chewing Gum / Bubble Gum</b>	Moisture, Percent by mass	IS 6287-1985 (Clause 5)	0.1 to 20% ≥20%
		Sulphated Ash, Percent by mass	IS 6287-1985 (Clause 6)	0.01 to 10% ≥10%
		Acid Insoluble Ash, Percent by mass	IS 6287-1985 (Clause 7)	0.01 to 20% ≥20%
<b>9.</b>	<b>Food Grain (Rice, All Pulses (Urad, Wheat, Barley, Oat Sorghum))</b>	Moisture, Percent by mass	IS 4333(2)-2002,RA2012	0.1 to 10% ≥ 10%
		Damage grain , Percent by mass	IS 4333(2)-2002,RA2012	0.1 to 10% ≥10%
		Other grain , Percent by mass	IS 4333(2)-2002,RA2012	0.1 to 20% ≥20%
		Foreign Matter, Percent by mass	IS 4333(2)-2002,RA2012	0.1 to 10% ≥10%
		Insect & Rodent contaminated Grain, Percent by mass	IS 4333(2)-2002,RA2012	0.1 to 10% ≥10%
		Weight of 1000 grain, Percent by mass	IS 4333(2)-2002,RA2012	0.01 to 10% ≥10%

<b>Laboratory</b>	<b>Standard Analytical Laboratory (ND) Pvt. Ltd., 69, Functional Industrial Estate, Patparganj, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>74 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>10.</b>	<b>Bakery and Confectionery Products</b>			
<b>a.</b>	<b>Biscuits</b>	Moisture, Percent by mass	IS 1011-2002, RA 2009 (Appd. B)	0.01 to 10% ≥10%
		Acid Insoluble ash, Percent by mass	IS 1011-2002, RA 2009, (Appd.C)	0.01 to 10% ≥10%
		Acidity of the extracted Fat , Percent by mass	IS 1011-2002, RA 2009, (Appd. D)	0.01 to 10% ≥10%
<b>11.</b>	<b>Cereal Products</b>			
<b>a.</b>	<b>Wheat Atta IS 1155-1968, RA2005</b>	Loss on drying, Percent by mass	IS 1155-1968 (Amd.3), RA 2005, Appd. A	0.1 to 10% ≥ 10%
		Total Ash, Percent by mass	IS 1155-1968 (Amd.3), RA 2005, (Appd. B)	0.01 to 10% ≥10%
		Acid Insoluble Ash, Percent by mass	IS 1155-1968 (Amd.3), RA 2005, (Appd. C)	0.01 to 10% ≥10%
		Alcoholic Acidity as H <sub>2</sub> SO <sub>4</sub> , Percent by mass	IS 1155-1968 (Amd.3), RA 2005, (Appd. F)	0.01 to 10% ≥10%
		Gluten, Percent by mass	IS 1155-1968 (Amd.3), RA 2005, (Appd. D)	0.1 to 15% ≥15%
		Granularity	IS 1155-1968 (Amd.3), RA 2005, (Appd. G)	Qualitative

<b>Laboratory</b>	<b>Standard Analytical Laboratory (ND) Pvt. Ltd., 69, Functional Industrial Estate, Patparganj, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>75 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>b.</b>	<b>Maida</b>	Loss on drying, Percent by mass	IS 1009-1979, (Amd.2), RA 2000, (Appd. A)	0.1 to 30% ≥30%
		Total Ash, Percent by mass	IS 1009-1979 (Amd.2), RA 2000, (Appd. B)	0.01to 30% ≥ 30%
		Acid Insoluble Ash, Percent by mass	IS 1009-1979 (Amd.2), RA 2000, (Appd. C)	0.01 to 10% ≥10%
		Alcoholic Acidity as H <sub>2</sub> SO <sub>4</sub> , Percent by mass	IS 1009-1979 (Amd.2), RA 2000, (Appd. F)	0.01 to 10% ≥10%
		Gluten, Percent by mass	IS 1009-1979 (Amd.2), RA 2000, (Appd. D)	1 to 40% ≥40%
		Granularity	IS 1009-1979 (Amd.2), RA 2000, (Appd. G)	Qualitative
<b>c.</b>	<b>Semolina (Suji)</b>	Total Ash, Percent by mass	IS 1010-1968 (Amd.3), RA 2010, (Appd. C)	0.01 to 10% ≥10%
		Acid Insoluble Ash, Percent by mass	IS 1010-1968 (Amd.3), RA 2010, (Appd. D)	0.01 to 5% ≥5%
		Alcoholic Acidity as H <sub>2</sub> SO <sub>4</sub> , Percent by mass	IS 1010-1968(Amd.3), RA 2010, (Appd. F)	0.02 to 5% ≥ 5%
		Gluten, Percent by mass	IS 1010-1968(Amd.3), RA 2010, (Appd. E)	1.0 to 30.0% ≥30%

<b>Laboratory</b>	<b>Standard Analytical Laboratory (ND) Pvt. Ltd., 69, Functional Industrial Estate, Patparganj, Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>31.01.2014</b>
<b>Certificate Number</b>	<b>T-0780</b>	<b>Valid Until</b>	<b>30.01.2016</b>
<b>Last Amended on</b>	<b>-</b>	<b>Page</b>	<b>76 of 77</b>

<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
	<b>Semolina (Suji)</b>	Loss on drying, Percent by mass	IS 1010-1968, RA 2010	0.1 to 30% ≥30%
		<b>Sieve Test</b> Material passing through 1.18mm sieve	Cl. 3.2 IS 1010 - 1969	95 to 100%
		IS Sieve Material Retained on 710 micron IS Sieve	Cl. 3.2 IS 1010 - 1969	90 to 100%
		Sieve Material Retained on 250 micron Sieve	Cl. 3.2 IS 1010 - 1969	90 to 100%
<b>12.</b>	<b>Iodized Salt, Vacuum Evaporated Iodized, &amp; Refined Salt</b>	Moisture Content, Percent by mass	IS 7224-2006	0.1 to 40% ≥40%
		Matter Insoluble in Water, Percent by mass	IS 7224-2006	0.1 to 10 % ≥10%
		Chloride content, Percent by mass	IS 7224-2006	1 to 99 % ≥99%
		Matter soluble in Water, Percent by mass	IS 7224-2006	0.1 to 10 % ≥10%
		Calcium, Percent by mass	IS 7224-2006	0.1 to 10% ≥10%
		Magnesium, Percent by mass	IS 7224-2006	0.1 to 10 % ≥10%

**Laboratory** Standard Analytical Laboratory (ND) Pvt. Ltd., 69, Functional Industrial Estate, Patparganj, Delhi

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

**Discipline** Chemical Testing **Issue Date** 31.01.2014

**Certificate Number** T-0780 **Valid Until** 30.01.2016

**Last Amended on** - **Page** 77 of 77

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Iodized Salt, Vacuum Evaporated Iodized, & Refined Salt	Sulphate	IS 7224-2006	0.1 to 10.5 ≥ 10%
		Iodine	IS 7224-2006	1 to 50 ppm ≥50 ppm
13.	Honey	Free from foreign matter	IS 4941-1994	Visually
		Colour	IS 4941-1994	Visually
		Specific Gravity	IS 4941-1994	0.09 to 1.5
		Moisture, Percent by mass	IS 4941-1994	1 to 30 % ≥30%
		Total Reducing Sugar, Percent by mass	IS 4941-1994	1 to 90 % ≥90%
		Sucrose, Percent by mass	IS 4941-1994	0.1 to 10 % ≥10%
		Ash, Percent by mass	IS 4941-1994	0.01 to 5% ≥5%
		Acidity, Percent by mass	IS 4941-1994	0.01 to 5%

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