

Laboratory **Sophisticated Industrial Materials Analytic Labs Pvt. Ltd., Plot No. 37, Sector-7, IIE, SIDCUL, Haridwar, Uttarakhand**

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

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

I.	<b>ATMOSPHERIC POLLUTION</b>			
1.	<b>Stack Emission</b>	Particulate Matter (PM)	IS 11255-(Part1)	5 to 1000 mg/Nm <sup>3</sup>
		Sulphur Dioxide (SO <sub>2</sub> )	IS 11255-(Part2)	2 to 500 mg/Nm <sup>3</sup>
		Carbon Monoxide (CO)	IS 5182-(Part10)	1 to 500 mg/Nm <sup>3</sup>
		Nitrogen Oxide (Nox)	IS 11255-(Part 7)	2 to 500 mg/Nm <sup>3</sup>
		Chlorine (Cl <sub>2</sub> )	APHA-202/ IS 5182-(Part19)	1 to 50 mg/Nm <sup>3</sup>
		Ammonia as NH <sub>3</sub>	APHA-401/ IS 11255-(Part 6)	0.001 to 100 mg/Nm <sup>3</sup>
		Carbondioxide (CO <sub>2</sub> )	IS 13270	1 % v/v to 20%
		Oxygen (O <sub>2</sub> )	IS 13270	1 % v/v to 15%
		Acid Mist	USEPA 8	0.5 to 5000 mg/Nm <sup>3</sup>
		Hydrogen sulfide	IS 11255 (Part 4)	3 to 500 mg/Nm <sup>3</sup>
		Carbon disulfide	IS 11255 (Part 4)	5 to 500 mg/Nm <sup>3</sup>
		Lead	USEPA 29	0.5 to 100 mg/Nm <sup>3</sup>
		Manganese	USEPA 29	0.5 to 100 mg/Nm <sup>3</sup>
		Nickel	USEPA 29	0.5 to 100 mg/Nm <sup>3</sup>
		Zinc	USEPA 29	0.5 to 100 mg/Nm <sup>3</sup>
		Aluminium	USEPA 29	0.5 to 100 mg/Nm <sup>3</sup>
		Suspended Particulate Matter (SPM)	IS 5182-(Part4)	5 to 10000 µg/m <sup>3</sup>
		Sulphur Dioxide (SO <sub>2</sub> )	IS 5182-(Part2)	8 to 100 µg/m <sup>3</sup>
		Carbon Monoxide (CO)	IS 5182-(Part10)	10 to 5000 µg/m <sup>3</sup>
		Nitrogen Oxide (NO <sub>2</sub> )	IS 5182-(Part6)	5 to 500 µg/m <sup>3</sup>
		Formaldehyde (HCHO)	APHA - 116	10 to 100 µg/m <sup>3</sup>
		Chlorine	APHA - 202 / IS 5182-(Part 19)	10 to 500 µg/m <sup>3</sup>
		RSPM (PM <sub>10</sub> )	IS 5182-(Part 23)	10 to 2000 µg/m <sup>3</sup>
Ammonia as NH <sub>3</sub>	APHA - 401	1.0 to 300 µg/m <sup>3</sup>		

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2.	<b>Fugitive Emission</b>	PM <sub>2.5</sub>	USEPA-40(Part-50)/STP//PM/O3/CPCB guideline	2.0 to 200 µg/m <sup>3</sup>
		Ozone (asO <sub>3</sub> )	APHA -411/IS 5182 (Part-09)	10 to 1000µg/m <sup>3</sup>
		H <sub>2</sub> S	IS 5182 (Part 7):1973	6 to 600 µg/m <sup>3</sup>
		Lead as( Pb)	APHA-822	0.05 to 300 µg/m <sup>3</sup>
		Nickel as( Ni)	APHA-822	5 to 300 ng/m <sup>3</sup>
		Arsenic as( A <sub>S</sub> )	APHA-822	1 to 150 ng/m <sup>3</sup>
		Suspended Particulate Matter (SPM)	IS 5182-(Part4)	5 to 10000 µg/m <sup>3</sup>
		Suphur Dioxide (SO <sub>2</sub> )	IS 5182-(Part2)	8 to 100 µg/m <sup>3</sup>
		Carbon Monoxide (CO)	IS 5182-(Part10)	10 to 5000 µg/m <sup>3</sup>
		Nitrogen Dioxide (No <sub>2</sub> )	IS 5182-(Part6)	5 to 500 µg/m <sup>3</sup>
		Formaldehyde (HCHO)	APHA- 116	10 to 100 µg/m <sup>3</sup>
		Chlorine (as Cl <sub>2</sub> )	APHA– 202 IS 5182-(Part 19)	10 to 500 µg/m <sup>3</sup>
		RSPM(PM10)	IS 5182-(Part 23)	10 to 2000 µg/m <sup>3</sup>
		PM <sub>2.5</sub>	USEPA-40(Part-50)/STP//PM/O3/CPCB guideline	2.0 to 200 µg/m <sup>3</sup>
		Acid Mist	NIOSH 7903	0.5 to 5000 mg/Nm <sup>3</sup>
		Silica	NIOSH 7601	2.0 to 100mg/m <sup>3</sup>
		Lead as(Pb)	APHA-822	0.05 to 300 µg/m <sup>3</sup>
		Zinc as (Zn)	APHA-822	5 to 300 ng/m <sup>3</sup>
		Nickel as (Ni)	APHA-822	5 to 300 ng/m <sup>3</sup>
Chromium as (Cr)	APHA-822	5 to 300 ng/m <sup>3</sup>		
Iron as (Fe)	APHA-822	5 to 300 ng/m <sup>3</sup>		
<b>II.</b>	<b>FOOD &amp; AGRICULTURAL PRODUCTS</b>			
<b>1.</b>	<b>Bakery and Confectionary Products</b>			
<b>a.</b>	<b>Biscuit &amp; Cookie</b>	Moisture	App.-B, IS 1011	1 to 10%
		Acid Insoluble Ash	App.-C, IS 1011	0.04 to 2%

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b.	Sugar Confectionery	Ash Sulphated	CI 5 IS 6287	0.5 to 2.5 %
		Acid Insoluble Ash	CI 6 IS 6287	0.1 to 2.0 %
		Sulphur dioxide	CI 11 IS 6287	20 to 1000 mg/kg
2.	Cereal & Pulses			
a.	Food Grains & Pulses (Whole & Split) Wheat, Maize, Moong Dal, Urad Dal, Chana Dal, Lobia Dal, Rajmah, Masur Dal, Arhar Dal etc.	Loss on drying	IS 4333-2002 (Part-2)	5.0 to 20%
		Foreign matter	IS 4333-1996 (Part-1)	0 to 10%
		Other edible grains	IS 4333-1996 (Part-1)	0 to 10%
		Damaged grains	IS 4333-1996 (Part-1)	0 to 10%
		Weevilled grains by count	IS 4333-1996 (Part-1)	0 to 10%
b.	Maida	Moisture	Appendix A, IS 1009	2 to 30%
		Total ash	Appendix B, IS 1009	0.2 to 10%
		Acid insoluble ash	Appendix C, IS 1009-	0.02 to 2.0%
		Alcoholic acidity	Appendix E, IS 1009	0.05 to 2.0%
		Gluten	Appendix D, IS 1009	2 to 20%
c.	Atta	Moisture	Appendix A, IS 1155	0.5 to 30%
		Total Ash	Appendix B, IS 1155	0.1 to 5.0%
		Acid insoluble ash	Appendix C, IS 1155	0.01 to 5.0%
		Alcoholic acidity	Appendix F, IS 1155	0.05 to 2.0%
		Gluten	Appendix D, IS 1155	1 to 20%
d.	Suji / Rava or Samolina	Loss on drying	Appendix B IS 1010	0.5 to 30%
		Total ash	Appendix C IS 1010	0.2 to 5%
		Acid insoluble ash	Appendix D IS 1010	0.02 to 2.0%
		Alcoholic acidity	Appendix F IS 1010	0.02 to 20%
		Gluten	Appendix E IS 1010	2 to 20%
3.	Stimulant Food			
a.	Coffee Powder	Moisture	Annex. B IS 2791	0.5 to 20%
		Total ash	Annex. C IS 2791	0.2 to 2.0%
		Solubility in boiling water	Annex. E IS 2791	Qualitative Soluble
		Solubility in cold water	Annex. E IS 2791	Qualitative Soluble

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b.	Chocolate	Acid Insoluble Ash	IS 1163 Annex. D	0.05 to 2.0 %
		Fat	IS 1163 Annex. A & B	2 to 50 %
4.	Milk & Dairy Products			
a.	Cheese	Moisture	Appd. A, IS 2785	20 to 75%
		Protein	Appd. AIS 7219	0.5 to 50%
5.	Edible Starch and Starchy Products			
a.	Custard powder, Corn Flakes	Moisture	CI4 IS 4706 (Part II)	0.5 to 15%
		Total ash	CI 6 IS 4706 (Part II)	0.2 to 10%
		Acid insoluble ash	CI 8 IS 4706 (Part-II)	0.02 to 2.0 %
		Protein	CL 9, IS 4706 (Part -II)	0.2 to 10 %
		Alcoholic acidity	CI 15IS 4706 (Part II)	0.02 to 2.0 %
b.	Macroni, Spaghetti, Vermicelli & egg noodles	Moisture	AnnexC IS 1485-1993	0.5 to 20%
		Total ash	Annex D IS 1485	0.2 to 2.0 %
		Acid insoluble ash	Annex E IS 1485	0.02 to 2.0 %
		Total protein (N x 5.7)	Annex F IS 1485	0.5 to 20%
6.	Spices and Condiments			
a.	Chilli Powder/ Turmeric Power /Black Pepper Powder	Ash	CI 6 IS 1797	1 to 20 %
		Acid insoluble ash	CI 8 IS 1797	0.1 to 10 %
		Moisture	CI 9 IS 1797	0.5 to 20 %
		Salt	CI 16 IS 1797	2 to 20 %
7.	Tobacco Products			
a.	Chewing Tobacco	Moisture (Loss on heating)	CI 6 IS 5643	0.5 to 20%
		Total ash	CI 10 IS 5643	0.5 to 10%
		Acid insoluble ash	CI 11 IS 5643	0.5 to 10%
		Nicotine content (as total alkaloids)	CI 18 IS 5643	0.5 to 4.5%
8.	Food Additives Iodized Salt	Moisture	Annex. A, IS 7224	0.1 to 10%
		Iron as Fe	Annex. M, IS 7224	0.5 to 100 ppm

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9.	<b>Namkeen products AlooBhujia, Mixture Namkeen, Moong Dal</b>	Moisture	Appd. B, IS 15271	5.0 to 60%
		Acid insoluble ash	App.C, IS 15271	0.02 to 2.0%
		Fat	Appd.-D, IS 15271	5.0 to 60 %
		Peroxide Value	Appd.F, IS 15271	0.5 mq/kg to 10
10.	<b>Edible Groundnut flour</b>	Moisture	IS 4684	1 to 10g/100g
		Total ash	IS 4684	1 to 5g/100g
		Protein	IS 4684	1 to 25g/100g
		Fat	IS 15271 IS 4684	1 to 20g/100g
		Vitamin C	IS 5838	1 to 25 mg/100g
11.	<b>Oil/ Fats &amp; Related Products Oil &amp;Fat , Ghee, Margarine , Vanspati .</b>			
		Moisture and volatile Matter	IS 548 (Part-1)	0.001 to 10g /100g
		Acid value	IS 548 (Part-1)	0.1 to 10
		Saponification value	IS 548 (Part-1)	85 to 300
		Refractive Index	IS 548 (Part-1)	1.4300 to 1.4700
		Peroxide value	IS 548 (Part-1)	1 to 100 meq/kg
		Melting point	IS 548 (Part-1)	150C to 800C
		RichertMissel Value	IS 548 (Part-1)	1 to 80
12.	<b>Animal Food &amp; Feed related products Animal Feed</b>			
		Moisture	CI 4 IS 7874 (Part-1)	0.5 to 20%
		Crude fat	CI 4 IS 7874 (Part-1 )	0.5 to 30%
		Crude protein	CI 4 IS 7874 (Part-1)	2.0 to 30%
		Crude fibre	CI 4 IS 7874 (Part-1)	0.5 to 20%
		Sodium chloride	CI 4 IS 7874 (Part-1)	0.05 to 10%
		Acid insoluble ash	CI 4 IS 7874 (Part-1)	0.1 to 5 %
13.	<b>Honey</b>	Moisture	IS 4941	12 to 25 %
		Acidity	IS 4941	0.05 to 0.2
		Total reducing sugars	IS 4941	1 to 90 %
		Sucrose	IS 4941	1 to 10 %

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14.		Fructose-glucose ratio	IS 4941	0.5 to 2.0
		Specific gravity	IS 4941	1.0 to 1.5
		Fiehe's test	IS 4941	positive/negative
		Ash	IS 4941	0.1 to 10 %
		Optical density	IS 4941	0.1 to 0.3
	Rice	Average precooked length	IS 4333 (Part-1)	1 mm to 8 mm
		Broken fragments	IS 4333 (Part-1)	0.01% to 10%
		Chalky grain / Black kernals	IS 4333 (Part-1)	0.01% to 10%
		Damage discoloured grain	IS 4333 (Part-1)	0.01% to 10%
		Foreign matter	IS 4333 (Part-1)	0% to 10%
		Green grain	IS 4333 (Part-1)	0.1% to 10%
		Mass of 1000 grains	IS 4333 (Part-4)	5 g to 50 g /1000 grain
		Moisture content	IS 4333 (Part-2)	5% to 20%
		Other edible grains	IS 4333 (Part-1)	0.1 to 10%
Other grains	IS 4333 (Part-1)	0.1 to 10%		
III.	<b>PHARMACEUTICAL PRODUCTS</b>			
A	<b>Pharmaceuticals Raw Materials</b>			
1.	Albedazole	Heavy Metal	IP2018	Qualitative
		Assay(By titration)	IP2018	50 to 110 %
		Loss on drying	IP2018	0.1 to 20%
		Sulphated Ash	IP2018	0.01 to 1%
2.	Amoxycillin Trihydrate	Heavy Metals	IP2018	Qualitative
		Water	IP2018	0.5% to 20%
		Assay(By HPLC)	IP2018	70 to 110 %
		Specific optical rotation	IP2018	±0 to 360 deg
		Sulphated Ash	IP2018	0.01 to 1%
3.	Ascorbic Acid	Light absorption	IP2018	0.56 to 20 %
		Specific optical rotation	IP2018	± 0 to 360°
		Assay (By Titration)	IP2018	50 to 110%

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4.	<b>Caffeine</b>	Sulphated Ash	IP2018	0.01 to 1%
		Loss on drying	IP2018	0.5 to 20%
		Arsenic	IP2018	Qualitative
		Heavy Metals	IP2018	Qualitative
<b>B.</b>	<b>Finish Formulation</b>			
1.	<b>Albendazole Tablet</b>	Assay(by UV)	IP2018	50 to 110 %
2.	<b>Amoxicillin Capsule</b>	Dissolution(by UV) Assay(BY HPLC)	IP2018 IP2018	50 to 120 % 70 to 110%
3.	<b>Amoxicillin Oral Suspension</b>	Assay(BY HPLC)	IP2018	70 to 110%
4.	<b>Amoxicilline Dispersible tablet</b>	Assay(BY HPLC)	IP2018	70 to 110 %
5.	<b>Ascorbic Acid Tablet</b>	Assay(BY Titration)	IP2018	50 to 110 %
6.	<b>Aspirin Tablet</b>	Salicylic Acid	IP2018	Qualitative
		Assay(BY Titration)	IP2018	50 to 110 %
7.	<b>Soluble Aspirin Tablet (Dispersible)</b>	Salicylic Acid	IP2018	Qualitative
		Assay(BY Titration)	IP2018	50 to 110%
8.	<b>Calcium Lactate Tablet</b>	Assay(BY Titration)	IP 2018	50 to 110%
9	<b>Sterile water for Injection</b>	Acidity/ alkalinity	IP2018	Qualitative
		Ammonium	IP2018	Qualitative
		Calcium & Magnesium	IP2018	Qualitative
		Sulphates	IP2018	Qualitative
		Oxidisable substance	IP2018	Qualitative
		Residue on evaporation	IP2018	0.001 to 50 %
		Heavy Metals	IP2018	Qualitative
		Chlorides	IP2018	Qualitative
		Nitrate	IP2018	Qualitative
10.	<b>Ibuprofen Tablet</b>	Assay(BY Titration)	IP 2018	50 to 110 %
11.	<b>Metformin Tablet</b>	Dissolution(By UV)	IP 2018	50 to 120 %
		Assay(BY UV)	IP 2018	50 to 110%

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12.	Paracetamol Tablet	Assay(BY UV)	IP 2018	50 to 110 %
13.	Povidone Iodine Solution	pH Assay(BY Titration)	IP2018 IP2018	1 to 14 50 to 120%
14.	Povidone Iodine Ointment -	pH Assay(by Titration)	IP2014 USP 36	1 to 14 50 to 120%
C.	General Test	pH Weight per ml & Specific Gravity (25°C) Specific Optical Rotation Uniformity of weight of Single dose Preparation Acid Value Iodine Value Peroxide Value Limit Tests of Heavy Metal	IP 2018 IP 2018 IP 2018 IP 2018 IP 2018 IP 2018 IP2018 IP 2018	1 to 14 0.70 to 1.4 0 to 360 degree 50 to 120 % 0.01 to 300 5 to 100 1 to 20 Qualitative
IV.	WATER			
1.	Borewell Water Tubewell Water, Process water Drinking Water, Soft Water Potable & Domestic Water	Colour Odour Turbidity T.D.S pH Iron Nitrite Nitrogen Nitrate Nitrogen Fluoride Chloride Sulphate Alkalinity Calcium Magnesium	IS-3025/(Part-4) IS-3025/(Part-5) IS-3025/(Part-10) IS-3025/(Part -16) IS-3025/(Part-11) IS-3025/(Part-53) IS-3025/(Part-34) IS3025 (Part-34) IS 3025 (Part -69) IS-3025/(Part-32) IS-3025/(Part-24) IS-3025/(Part-23) IS-3025/(Part-40) IS-3025/(Part-46)	0 to 200 Hazen Qualitative 0.1 to 500 NTU 5 to 5000 mg/l 4 to 10.0 0.05 to 50 mg/l 2 to 50 mg/l 2 to 50 mg/l 0.1 to 15 mg/l 1 to 100 mg/l 10 to 2000 mg/ 5 to 1000 mg/l 5 to 1000 mg/l 5 to 1000 mg/l



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		Residual Chlorine	IS-3025/(Part-26)	0.1 to 15 mg/l
		Phenolic Compound	IS-3025/(Part -43)	0.01 to 10 mg/l
		Total Hardness	IS-3025/ (Part-21)	10 to 1000 mg/l
		Conductivity	IS-3025/ (Part-14)	5 to 7000 $\mu$ s/cm
		Total Acidity	IS-3025/ (Part-23)	0.5 to 1000 mg/l
		Cyanide	IS-3025/ (Part-27)	0.05 to 20 mg/l
	<b>Water for Construction</b>	PH	IS 3025 (Part-11)	2 to 12
		TDS	IS 3025/ (Part 16)	5 to 35000 mg/l
		Chloride	IS 3025/ (Part 32)	10 to 2000 mg/l
		Sulphate	IS 3025/ (Part 24)	10 to 2000 mg/l
		Alkalinity	IS 3025/ (Part 23)	1 to 5000 mg/l
		TSS	IS 3025/ (Part 17)	5 to 500 mg/l
<b>V.</b>	<b>POLLUTION &amp; ENVIRONMENT</b>			
<b>1.</b>	<b>Waste water &amp; Industrial Effluent &amp; Domestic Effluent)</b>	Colour	IS-3025/ (Part-4)/ APHA	Qualitative
		Odour	IS-3025/ (Part5)/ APHA	Qualitative
		Turbidity	IS-3025/ (Part10)/	5 to 500 NTU
		T.D.S	IS-3025/ (Part 16)/ APHA	5 to 50000 mg/l
		pH	IS-3025/ (Part11) / APHA	2 to 12.0
		Iron	IS-3025/ (Part53) APHA	0.05 to 500 mg/l
		Nitrite Nitrogen	IS-3025/ (Part-34)/ APHA	0.01 to 50 mg/l
		Fluoride	APHA	0.1 to 25 mg/l/0.034 at 15 mg/l
		Chloride	IS-3025/ (Part32)/ APHA	5 to 2000 mg/l
		Sulphate	IS-3025/ (Part24)	5 to 2000 mg/l
Alkalinity	IS-3025/ (Part23)/ APHA	2 to 5000 mg/l		

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		Calcium	IS-3025/ (Part40) / APHA	2 to 5000 mg/l
		Magnesium	IS-3025/ (Part46) / APHA	1 to 5000 mg/l
		Residual Chlorine	IS-3025/ (Part26) / APHA	0.1 to 100 mg/l
		Phenolic Compound	IS-3025/ (Part 43)/ APHA	0.01 to 25 mg/l
		Cyanide	IS-3025/ (Part27) APHA	0.05 to 20 mg/l
		Total Chromium	APHA / IS -3025 (Part-47)	0.5 to 20 mg/l
		Total Suspended Solids	IS-3025/ (Part17)	5 to 500 mg/l
		Chemical Oxygen Demand	IS-3025/ (Part58)	5 to 50000 mg/l
		Kjeldhal Nitrogen	IS-3025/ (Part34)/APHA	1 to 500 mg/l
		Ammonical Nitrogen	APHA/ (Part 3025 Part 34)	1 to 200 mg/l
		Biochemical Oxygen Demand	IS-3025/ (Part44)/ APHA	5 to 30000 mg/l
		Nickel as Ni	APHA/ IS 3025 (Part-54) /3120B	0.02 to 500 mg/l
		Chrome as Cr <sup>+6</sup>	IS-3025/ (Part-52)/ APHA	0.01 to 500 mg/l
		Total Hardness	IS-3025/ (Part-21)/ APHA	10 to 10000 mg/l
		Oil & Grease	IS-3025/ (Part-39)/ APHA	3 to 7000 mg/l
		Conductivity	IS-3025/ (Part-14)/ APHA	5 to 70000µ s/cm
		Total Acidity	IS-3025/(Part-)/ APHA	0.5 to 1000 mg/l
		Carbon Dioxide	APHA	0.5 to 500 mg/l
		Dissolved Oxygen	IS-3025/(Part-38)/ APHA	1 to 10 mg/l

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		Sulphide	IS-3025/(Part-29)/ APHA	0.5 to 200 mg/L
		Temperature	IS-3025/(Part-9)/ APHA	4 <sup>0</sup> to 60 <sup>0</sup>
		Phosphorus	APHA/ IS 3025 (Part 31)	0.05 to 500 mg/
		Total Alkalinity	IS-3025/(Part-23)/ APHA	0.1 to 100 mg/l
		Silica	APHA/ IS 3025 (Part 31)	0.1 to 100 mg/l
		Cadmium	IS 3025 (Part- 41)/ IS 3025 (Part- 2)	0.1 to 10 mg/l
		Lead	IS 3025 (Part- 47)/ IS 3025 (Part-2)	0.1 to 10 mg/l
		Aluminum	IS 3025(P - 55)/ IS 3025 (Part- 2)	0.02 to 10 mg/l
		Silver	IS 3025 (Part- 2) / IS 3025 (Part-57)	0.02 to 10 mg/l
		Selenium	IS 3025(P - 56) IS 3025 (Part- 2)	0.2 to 10 mg/l
		Borates	IS 3025 (Part- 2)	0.1 to 10 mg/l
		Mercury	IS 3025 (Part- 48) IS 3025 (Part- 2)	0.1 to 10 mg/l
		Manganese	IS 3025 (P-59) IS 3025 (Part- 2)	0.5 to 10 mg/l
		Arsenic	IS 3025 (Part-37)/ IS 3025 (Part- 2)	0.1 to 10 mg/l
<b>VI.</b>	<b>RESIDUE IN WATER</b>			
<b>1.</b>	<b>Water</b>	Cadmium	IS 3025 (Part- 41) /IS 3025 (Part- 2)	0.001 to 10 mg/l
		Lead	IS 3025 (Part- 47) /IS 3025 (Part-2)	0.007 to 10mg/l
		Aluminum	IS 3025(P - 55)/ IS 3025 (Part- 2)	0.02 to 10 mg/l

Laboratory Sophisticated Industrial Materials Analytic Labs Pvt. Ltd., Plot No. 37,  
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Accreditation Standard ISO/IEC 17025: 2005

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Silver	IS 3025 (Part- 2) IS 3025 (Part-57)	0.007 to 10 mg/l
		Selenium	IS 3025(Part- 56) IS 3025 (Part- 2)	0.01 to 10 mg/l
		Borates	IS 3025 (Part- 2)	0.1 to 10 mg/l
		Mercury	IS 3025 (Part- 48) IS 3025 (Part- 2)	0.001 to 10 mg/l
		Manganese	IS 3025 (Part-59) IS 3025 (Part- 2)	0.05 to 10 mg/l
		Arsenic	IS 3025 (Part-37)/ IS 3025 (Part- 2)	0.007 to 10 mg/l
		Total Chromium	IS –3025 (Part-52)/3120B	0.05 to 50 mg/l
		Nickel as Ni	IS 3025 (Part-54)	0.05 to 50 mg/l
		Chrome as Cr <sup>6</sup>	IS-3025/ (Part-52)	0.01 to 50 mg/l