

<b>Laboratory</b>	<b>Arihant Analytical Laboratory Pvt. Ltd., Plot No. 272, Sector-57, Phase-IV, HSIIDC, Kundli, Sonapat, Haryana</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.06.2015</b>
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<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>I.</b>	<b>AIR, GASES &amp; ATMOSPHERE</b>			
<b>1.</b>	<b>Ambient Air</b>	PM <sub>2.5</sub>	SOP-(AAL/SOP/ENV/002) Based on CPCB Guideline	5.0 µg/m <sup>3</sup> to 200 µg/m <sup>3</sup>
		Respirable Suspended Particulate Matter (RSPM- PM <sub>10</sub> )	IS 5182 (Part 23): 2006	10 µg/m <sup>3</sup> to 1000 µg/m <sup>3</sup>
		Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 (Part 2): 2001	5 µg/m <sup>3</sup> to 100 µg/m <sup>3</sup>
		Oxides of Nitrogen (No <sub>x</sub> )	IS 5182 (Part 6): 2006	3 µg/m <sup>3</sup> to 100 µg/m <sup>3</sup>
		Ozone (O <sub>3</sub> )	IS 5182 (Part 9): 1974	10 µg/m <sup>3</sup> to 100µg/m <sup>3</sup>
		Ammonia	SOP-(AAL/SOP/ENV/007)/ CPCB Guideline	10 µg/m <sup>3</sup> to 500 µg/m <sup>3</sup>
		Lead (as Pb)	IS 5182 (Part 22): 2004	0.1 µg/m <sup>3</sup> to 100 µg/m <sup>3</sup>
		Carbon Monoxide (CO)	IS 5182 (Part 10): 1999 (RA 2003)	5 µg/m <sup>3</sup> to 6000 µg/m <sup>3</sup>
		Benzene	Air APHA/ NIOSH 6015: 2005/ AAL/SOP/ENV/019 oxidative method	1.0 µg/m <sup>3</sup> to 500 µg/m <sup>3</sup>
		Nickel	Air APHA/ CPCB guidelines/ AAL/SOP/ENV/008	1 mg/m <sup>3</sup> to 100 mg/m <sup>3</sup>
<b>2.</b>	<b>Stack Emission Monitoring</b>	Particulate Matter (PM)	IS 11255 (Part 1): 1985	20 mg/m <sup>3</sup> to 500 mg/m <sup>3</sup>
		Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (Part 2): 1985	5 mg/m <sup>3</sup> to 250 mg/m <sup>3</sup>
		Oxides of Nitrogen (No <sub>x</sub> )	USEPA Method-7 IS 11255 (Part 7): 2005	4.0 mg/m <sup>3</sup> to 400 mg/m <sup>3</sup>

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	<b>Stack Emission Monitoring</b>	Carbon Monoxide (CO)	IS 13270: 1992	1 % to 5 %
		CO <sub>2</sub>	IS 13270: 1992	1 % to 20 %
<b>3.</b>	<b>Noise (Ambient &amp; Source)</b>	Noise Levels (Ambient)	IS 9876: 1981	34 dB to 134 dB
		Noise Levels Source	IS 4758: 1968	34 dB to 134 dB
<b>II. BUILDING MATERIALS</b>				
<b>1.</b>	<b>Fly ash</b>	Loss on Ignition SO <sub>3</sub>	IS 1727: 1967 (RA 2008)	0.1 % to 6 %
		Silica (as SiO <sub>2</sub> )	IS 1727: 1967 (RA 2008) Clause 5.4	20 % to 75 %
		Alumina (Al <sub>2</sub> O <sub>3</sub> )	IS 1727: 1967 (RA 2008) Clause 5.7	1 % to 30 %
		Calcium Oxide (CaO)	IS 1727: 1967 (RA 2008) Clause 5.8	0.1 % to 5 %
		Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )	IS 1727: 1967 (RA 2008) Clause 5.6	0.1 % to 5 %
		Magnesium Oxide (MgO)	IS 1727: 1967 (RA 2008)	0.1 % to 5 %
		Chlorides (as Cl)	IS 1727: 1967 (RA 2008)	0.01 % to 2 %
		Sulphuric Anhydride (as SO <sub>3</sub> )	IS 1727: 1967 (RA 2008)	0.1 % to 1 %
<b>2.</b>	<b>Hydraulic Cement OPC-33 OPC-43 OPC-53 PPC PSC</b>	Silicon Dioxide	IS 4032: 1985 (RA 2009)	10 % to 30.0 %
		Combined Oxides as R <sub>2</sub> O <sub>3</sub> , (Al <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> , Fe <sub>2</sub> O <sub>3</sub> )	IS 4032: 1985 (RA 2009)	1.0 % to 25 %
		Al <sub>2</sub> O <sub>3</sub>	IS 4032: 1985 (RA 2009)	0.1 % to 15 %

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	<b>Hydraulic Cement</b>	Fe <sub>2</sub> O <sub>3</sub>	IS 4032: 1985 (RA 2009)	0.1 % to 10 %
	<b>OPC-33</b>	Calcium Oxide (as CaO)	IS 4032: 1985 (RA 2009)	20 % to 75 %
	<b>OPC-43</b>	Magnesium Oxide (as MgO)	IS 4032: 1985 (RA 2009)	0.1 % to 10 %
	<b>OPC-53</b>	Total Alkali Oxides (as Na <sub>2</sub> O)	IS 4032: 1985 (RA 2009)	0.03 % to 5 %
	<b>PPC</b>	Sulfuric Anhydride	IS 4032: 1985 (RA 2009)	0.1 % to 5 %
	<b>PSC</b>	Loss on Ignition	IS 4032: 1985 (RA 2009)	10.0 % to 35 %
		Insoluble Residue	IS 4032: 1985 (RA 2009)	0.3 % to 40 %
		Manganese Oxide	IS 4032: 1985 (RA 2009)	0.03 % to 5 %
		Chloride	IS 4032: 1985 (RA 2009)	0.005 % to 1 %
<b>3.</b>	<b>Clays &amp; Soils</b>	pH	IS 2720 (Part 26): 1987 (RA 2007)	1.5 to 13
		Chloride	Method No. 9253, 9077 of SW-846	0.01 % to 5 %
		Sulphate	IS 2720 (Part 27): 1997 (RA 2005)	0.05 % to 1 %
		Silica	IS 2720 (Part 25): 1982 (RA 2005)	1 % to 25 %
		Cation Exchange Capacity	IS 2720 (Part 24): 1976 (RA 2005)	(1 meq to 40 meq)/100g
		Organic Matter	IS 2720 (Part 22): 1972 (RA 2005)	0.1 % to 2 %

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	<b>Clays &amp; Soils</b>	Conductivity (1: 2) at 25 °C	IS 2720 (Part 21): 1977 (RA 2006)	1 micro mho/cm to 1000 micro mho/cm
		Total Nitrogen	AAL/SOP/ENV/010-C	0.2 mg/kg to 300 mg/kg
		Sodium (as Na)	AAL/SOP/ENV/010-D	1 mg/kg to 10000 mg/kg
		Potassium (as K)	AAL/SOP/ENV/010-D	1 mg/kg to 10000 mg/kg
		Calcium (as Ca)	AAL/SOP/ENV/010-B	1 mg/kg to 10000 mg/kg
		Magnesium (as Mg)	AAL/SOP/ENV/010-B	1 mg/kg to 10000 mg/kg
		Acidity	AAL/SOP/ENV/010-E	1 mg/kg to 10000 mg/kg
		Phosphorous	AAL/SOP/ENV/010-G	1 mg/kg to 10000 mg/kg
		Sodium Absorption Ratio	AAL/SOP/ENV/010-K	0.12 to 12
<b>4.</b>	<b>Integral Waterproofing Compounds</b>	Chloride Content	IS 6925: 1973 (RA 2008)	0.005 % to 5 %
<b>5.</b>	<b>Concrete Admixture</b>	Dry Material Content	IS 9103: 1999 (RA 2004)	1 % to 30 %
		Ash Content	IS 9103: 1999 (RA 2004)	1 % to 25 %
		Relative Density	IS 9103: 1999 (RA 2004)	0.5 to 1.5
		Chloride Content	IS 6925 : 1973 (RA 2008) Clause 5.3.2	0.005 % to 2.0 %
		pH	IS 9103: 1999 (RA 2004)	2 to 13

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<b>6.</b>	<b>Bitumen</b>	Solubility in Trichloroethylene	IS 1216: 1978 (RA 2004)	10.0 % to 100 %
		Flash Point	IS 1209: 1978 (RA 2004)	(200 °C to 350 °C)/1°C
<b>7.</b>	<b>Silica Fume/ Micro Silica</b>	Silica (SiO <sub>2</sub> )	IS 1727: 1967 (RA 2008)	80 % to 95 %
		Moisture Content	IS 15388: 2003	1 % to 5 %
		Loss on Ignition	IS 1727: 1967 (RA 2008)	0.5 % to 6 %
		Alkali (as Na <sub>2</sub> O)	IS 4032: 1985 (RA 2009)	0.05 % to 2 %
<b>8.</b>	<b>Bentonite</b>	Moisture Content	IS 6186: 1986 (RA 2003) Clause A-2	1 % to 15 %
		pH	IS 6186: 1986 Clause A-3	8 to 12
		Loss on Ignition	IS 6186: 1986 Clause. A-10	1 % to 10 %
<b>9.</b>	<b>Aggregate (Fine &amp; Coarse)</b>	Chloride	BS 812 (Part 117): 1988	0.005 % to 1 %
		Sulphate	BS 812 (Part 118): 1988	0.01 % to 5 %
		Organic Impurities	IS 2386 (Part 2): 1963 (RA 2007)	Qualitative
<b>10.</b>	<b>Concrete</b>	Chloride	BS 812 (Part 117): 1988	0.005 % to 1 %
		Sulphate	BS 812 (Part 118): 1988	0.01 % to 1 %
<b>III.</b>	<b>WATER</b>			
<b>1.</b>	<b>Water for Construction</b>	Alkalinity	IS 456: 2000 (RA 2005)	1 ml to 150 ml
		Acidity	IS 456: 2000 (RA 2005)	1 ml to 300 ml

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	<b>Water for Construction</b>	Chloride	IS 3025 (Part 32): 1988 (RA 1999)	5 mg/l to 100 mg/l
		Sulphate	IS 3025 (Part 24): 1986 (RA 2003)	10 mg/l to 500 mg/l
		Inorganic Solids	IS 3025 (Part 18): 1984 (RA 2002)	10 mg/l to 2000 mg/l
		Organic Solids	IS 3025 (Part 18): 1984 (RA 2002)	10 mg/l to 2000 mg/l
		Suspended Solids	IS 3025 (Part 17): 1984 (RA 1996)	10 mg/l to 1000 mg/l
		pH	IS 3025 (Part 11): 1983 (RA 2002)	2 to 13
<b>2.</b>	<b>Water Used for Swimming Pool Purpose</b>	Colour	IS 3025 (Part 4): 2003	3 Hazen Unit to 70 Hazen Unit
		pH	IS 3025 (Part 11): 1983	1 to 14
		Turbidity	IS 3025 (Part 10): 1984	5 NTU to 100 NTU
		Total Dissolved Solids (Residue on Evaporation)	IS 3025 (Part 16): 1984 (RA 2006)	20 mg/l to 1000 mg/l
		Total Alkalinity	IS 3025 (Part 23): 1986 (RA 2009)	5 mg/l to 1000 mg/l
		Total Residual Chlorine	IS 3025 (Part 26): 1986 (RA 2003)	0.05 mg/l to 100 mg/l
	Oxygen Absorbed in 4 hrs	IS 3025 (Part 63): 2007	0.2 mg/l to 10 mg/l	

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	<b>Water Used for Swimming Pool Purpose</b>	Chlorides	IS 3025 (Part 32): 1988	5 mg/l to 1000 mg/l
		Iron	IS 3025 (Part 53): 2003 By AAS	0.01 mg/l to 10 mg/l
		Lead	IS 3025 (Part 47): 1994 (RA 2009) By AAS	1 mg/l to 10 mg/l
		Aluminum	IS 3025 (Part 55): 2003 By AAS	1 mg/l to 100 mg/l
<b>3.</b>	<b>Drinking Water</b>	Colour	IS 3025 (Part 4): 2003 (RA 2002)	2 Hazen Unit to 20 Hazen Unit
		Turbidity	IS 3025 (Part 10): 1984 (RA 2002)	5 NTU to 100 NTU
		pH	IS 3025 (Part 11): 1983 (RA 2002)	1 to 14
		Total Hardness	IS 3025 (Part 21): 2009	1.0 mg/l to 1000 mg/l
		Iron	IS 3025 (Part 53): 2003 By AAS	0.01 mg/l to 10 mg/l
		Chlorides	IS 3025 (Part 32): 1988	5 mg/l to 1000 mg/l
		Total Dissolved Solids	IS 3025 (Part 16): 1984 (RA 2006)	5 mg/l to 1000 mg/l
		Calcium (EDTA Method)	IS 3025 (Part 40): 1991 (RA 2009)	1 mg/l to 1000 mg/l
	Magnesium	IS 3025 (Part 46): 1994 (RA 2009)	1 mg/l to 100 mg/l	

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	<b>Drinking Water</b>	Copper	IS 3025 (Part 42): 1992 (RA 2009) By AAS	0.02 mg/l to 5 mg/l
		Manganese	APHA (22 <sup>nd</sup> Edition)	0.01 mg/l to 20 mg/l
		Sulphates	IS 3025 (Part 24): 1986	1 mg/l to 500 mg/l
		Fluoride	IS 3025 (Part 60): 2008	0.1 mg/l to 100 mg/l
		Cadmium	IS 3025 (Part 41): 1992 (RA 2003) By AAS	0.05 mg/l to 50 mg/l
		Lead	IS 3025 (Part 47): 1994 (RA 2009) By AAS	1 mg/l to 10 mg/l
		Zinc	IS 3025 (Part 49): 1994 (RA 2009) By AAS	0.1 mg/l to 50 mg/l
		Chromium	IS 3025 (Part 52): 2003 By AAS	0.2 mg/l to 10 mg/l
		Total Alkalinity	IS 3025 (Part 23): 1986 (RA 2009)	5 mg/l to 1000 mg/l
		Residual Free Chlorine	IS 3025 (Part 26): 1986 (RA 2003)	0.05 mg/l to 10 mg/l
<b>4.</b>	<b>Water for Ice Manufacturing &amp; for Processed Food Industry</b>	Turbidity	IS 3025 (Part 10): 1984	5 NTU to 100 NTU
		Colour	IS 3025 (Part 4): 1983	2 HU to 70 HU
		Dissolved Solids	IS 3025 (Part 16): 1984 (RA 2006)	5 mg/l to 1000 mg/l
		Total Hardness	IS 3025 (Part 21): 2009	1.0 mg/l to 1000 mg/l
		Total Alkalinity	IS 3025 (Part 23): 1986 (RA 2009)	5 mg/l to 1000 mg/l



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	<b>Water for Ice Manufacturing &amp; for Processed Food Industry</b>	Chlorides	IS 3025 (Part 32): 1988	5 mg/l to 1000 mg/l
		Sulphates	IS 3025 (Part 24): 1986	5 mg/l to 500 mg/l
		Iron	IS 3025 (Part 53): 2003 By AAS	0.01 mg/l to 10 mg/l
		Manganese	APHA (22 <sup>nd</sup> Edition)	0.01 mg/l to 50 mg/l
		Copper	IS 3025 (Part 42): 1992 (RA 2009) By AAS	0.02 mg/l to 5 mg/l
		Zinc	IS 3025 (Part 49): 1994 (RA 2009) By AAS	0.1 mg/l to 50 mg/l
		Magnesium (EDTA Method)	IS 3025 (Part 46): 1994 (RA 2009)	1 mg/l to 1000 mg/l
		pH	IS 3025 (Part 11): 1983 (RA 2002)	1 to 14
		Fluorides	IS 3025 (Part 60): 2008	0.1 mg/l to 100 mg/l
		Chromium	IS 3025 (Part 52): 2003 By AAS	0.2 mg/l to 10 mg/l
		Lead	IS 3025 (Part 47): 1994 (RA 2009) By AAS	1 mg/l to 10 mg/l
		Cadmium	IS 3025 (Part 41): 1992 (RA 2003) By AAS	0.05 mg/l to 50 mg/l
<b>5.</b>		<b>Effluent/Waste Water</b>	Turbidity	IS 3025 (Part 10): 1984
	Conductivity		IS 3025 (Part 14): 2013	200 µmhos to 1000 µmhos

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	<b>Effluent/Waste Water</b>	Total Suspended Solids	IS 3025 (Part 17): 1984 (RA 2012)	5 mg/l to 1000 mg/l
		pH Value	IS 3025 (Part 11): 1983 (RA 2002)	1 to 14
		Oil & Grease (Gravimetric Method)	IS 3025 (Part 39): 1991 (RA 2003)	2 mg/l to 1000 mg/l
		Total Residual Chlorine (Iodometric Method)	IS 3025 (Part 26): 1986 (RA 2003)	0.1 mg/l to 5 mg/l
		Ammoniacal Nitrogen (as N) (Phenate Method)	IS 3025 (Part 34): 1988 (RA 2009)	0.5 mg/l to 100 mg/l
		Total Nitrogen (as N) (Kjeldahl Method)	IS 3025 (Part 34): 1988 (RA 2009)	0.5 mg/l to 100 mg/l
		Dissolved Oxygen (Titrimetric Method)	IS 3025 (Part 38): 1989 (RA 2003)	1 mg/l to 200 mg/l
		BOD (3 Days at 27 °C)	IS 3025 (Part 38): 1989 (RA 2003)	5 mg/l to 200 mg/l
		Chemical Oxygen Demand (COD)	IS 3025 (Part 58): 2006	4 mg/l to 400 mg/l
		Lead	IS 3025 (Part 47): 1994 (RA 2009) By AAS	1 mg/l to 10 mg/l
		Cadmium	IS 3025 (Part 41): 1992 (RA 1998) By AAS	0.5 mg/l to 10 mg/l
		Chromium	IS 3025 (Part 52): 2003 By AAS	0.2 mg/l to 10 mg/l

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	<b>Effluent/Waste Water</b>	Copper	IS 3025 (Part 42): 1992 (RA 2009) By AAS	0.01 mg/l to 50 mg/l
		Zinc	IS 3025 (Part 49): 1994 (RA 2009) By AAS	0.1 mg/l to 50 mg/l
		Nickel	IS 3025 (Part 54): 2003 By AAS	0.1 mg/l to 10 mg/l
		Iron	IS 3025 (Part 53): 2003 By AAS	0.1 mg/l to 10 mg/l
		Sulphide (Methylene Blue Method)	IS 3025 (Part 29): 1986	0.1 mg/l to 10 mg/l
		Nitrate (as NO <sub>3</sub> /N) (Chromotropic Acid Method)	IS 3025 (Part 34): 1988	0.2 mg/l to 200 mg/l
		Phosphates (as P/PO <sub>4</sub> )	IS 3025 (Part 31): 1988	1 mg/l to 100 mg/l
		Sulphates (as SO <sub>4</sub> )	IS 3025 (Part 24): 1986	5 mg/l to 2000 mg/l
		Chlorides (as Cl)	IS 3025 (Part 32): 1988 (RA 2003)	5 mg/l to 1000 mg/l

#### **IV. METALS & ALLOYS**

<b>1. Plain Carbon, Low Alloy, Steels &amp; Tor Steel</b>	Carbon	IS 228 (Part 1): 1987 (RA 2002)	0.05 % to 1.5 %
	Manganese	IS 228 (Part 2): 1987 (RA 2002) /AAS	0.05 % to 2.0 %
	Sulphur	IS 228 (Part 9): 1989 (RA 2004)	0.01 % to 0.1 %

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	<b>Plain Carbon, Low Alloy, Steels &amp; Tor Steel</b>	Phosphorus	IS 228 (Part 3): 1987 (RA 2002)	0.01 % to 0.25 %
		Silicon	IS 228 (Part 8): 1989 (RA 2004)	0.1 % to 0.5 %
<b>V. FOODS AND AGRICULTURAL PRODUCTS</b>				
<b>1.</b>	<b>Animal Feeds/Cattle Feeds</b>	Moisture	IS 7874 (Part 1): 1975 (RA 2009)	(1.0 g to 25.0 g)/100g
		Crude Protein (N X 6.25) (on Dry Basis)	IS 7874 (Part 1): 1975 (RA 2009)	(1.0 g to 55.00 g)/100g
		Crude Fat (on Dry Basis)	IS 7874 (Part 1): 1975 (RA 2009)	(1.0 g to 25.00 g)/100 g
		Acid Insoluble ash (on Dry Basis)	IS 7874 (Part 1): 1975 (RA 2009)	(1.00 g to 3.00 g)/100 g
		Sodium Chloride (as Naci),( on Dry Basis)	IS 7874 (Part 2): 1975 (RA 2009)	(0.50 g to 5.00 g)/100 g
		Calcium (as Ca) (on Dry Basis)	IS 13433 (Part 2): 1992 (RA 2009)	(0.200 g to 5.00 g)/100 g
		Phosphorus (as P) (on Dry Basis)	IS 7874 (Part 2): 1975 (RA 2009)	(0.20 g to 5.00 g)/100 g
<b>2.</b>	<b>Biscuits</b>	Moisture	IS 1011: 2002 (RA 2009)	(1.00 g to 5.00 g)/100 g
		Acid Insoluble ash (on Dry Basis)	IS 1011: 2002 (RA 2009)	(0.03 g to 1.50 g)/100 g
		Acidity of The Extracted Fat (as Oleic Acid)	IS 1011: 2002 (RA 2009)	(0.10 g to 2.0 g)/100 g

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<b>3.</b>	<b>Cereal Products</b>			
<b>a.</b>	<b>Wheat Atta</b>	Moisture	IS 1155: 1968 (RA 2010)	(5.00 g to 15.00 g)/100 g
		Total ash (on Dry Basis)	IS 1155: 1968 (RA 2010)	(0.50 g to 3.00 g)/100g
		Acid Insoluble ash (on Dry Basis)	IS 1155: 1968 (RA 2010)	(0.050 g to 0.200 g)/100g
		Gluten (on Dry Basis)	IS 1155: 1968 (RA 2010)	(5.00 g to 12.0 g)/100g
		Alcoholic Acidity (as H <sub>2</sub> SO <sub>4</sub> ) (on Dry Basis)	IS 1155: 1968 (RA 2010)	(0.05 g to 0.50 g)/100g
<b>b.</b>	<b>Maida</b>	Moisture	IS 1009: 1979 (RA 2010)	(5.00 g to 15.00 g)/100 g
		Total ash (on Dry Basis)	IS 1009: 1979 (RA 2010)	(0.10 g to 3.00 g)/100 g
		Acid Insoluble ash (on Dry Basis)	IS 1009: 1979 (RA 2010)	(0.0100 g to 0.2000 g)/100 g
		Gluten (on Dry Basis)	IS 1009: 1979 (RA 2010)	(5.00 g to 15.00 g)/100 g
		Alcoholic Acidity (as H <sub>2</sub> SO <sub>4</sub> ) (on Dry Basis)	IS 1009: 1979 (RA 2010)	(0.01 g to 0.15 g)/100 g
<b>c.</b>	<b>Semolina (Suji)</b>	Moisture	IS 1010: 1968 (RA 2010)	5.00 % to 15.00 %
		Total ash (on Dry Basis)	IS 1010: 1968 (RA 2010)	0.50 % to 3.00 %
		Acid Insoluble ash (on Dry Basis)	IS 1010: 1968 (RA 2010)	0.01 % to 0.20 %
		Gluten (on Dry Basis)	IS 1010: 1968 (RA 2010)	5.00 % to 12.00 %
		Alcoholic Acidity (as H <sub>2</sub> SO <sub>4</sub> ) (on Dry Basis)	IS 1010: 1968 (RA 2010)	0.050 % to 0.50 %

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<b>4.</b>	<b>Milk &amp; Dairy Products</b>			
<b>a.</b>	<b>Fresh Milk</b>	Milk Solids	IS 1479 (Part 2): 1961 (RA 2009)	(12.00 g to 18.00 g)/100g
		Fat	IS 1479 (Part 2): 1961 (RA 2009) Method 5.3.1	(0.50 g to 7.00 g)/100g
		Solids Not Fat	IS 1479 (Part 2): 1961 (RA 2009)	(5.0 g to 17.50 g)/100g
<b>b.</b>	<b>Chhana Paneer</b>	Moisture	IS 2785: 1979 (RA 2011)	(10.00 g to 65.00 g)/100g
		Milk Fat (on Dry Basis)	IS 2785: 1979 (RA 2011)	(10.00 g to 45.00 g)/100g
		Protein (on Dry Basis)	IS 7219: 1973 (RA 2005)	(5.00 g to 25.00 g)/100g
		Ash (on Dry Basis)	IS 5162: 1980 (RA 2010)	(1.00 g to 10.00 g)/100g
<b>c.</b>	<b>Curd / Yoghurt (Vegetable)</b>	Total Solids	IS 4079: 1967 (RA 2000)	(12.00 g to 18.00 g)/100g
		Fat	IS 1479 (Part 2): 1961 (RA 2009) Method: 5.3.1	(0.50 g to 5.00 g)/100g
		Protein (Nx6.25)	IS 7219: 1973 (RA 2005)	(0.50 g to 20.00 g)/100g
		Acidity (as Lactic Acid)	IS 1479 (Part 1): 1960 (RA 2003)	(0.100 g to 2.00 g)/100g
<b>5.</b>	<b>Spices</b>			
<b>a.</b>	<b>Garam Masala</b>	Moisture	IS 1797: 1985 (RA 2009)	(2.00 g to 15.00 g)/100g
		Total ash (on Dry Basis)	IS 1797: 1985 (RA 2009)	(1.00 g to 15.00 g)/100g
		Acid Insoluble ash (on Dry Basis)	IS 1797: 1985 (RA 2009)	(0.20 g to 2.00 g)/100g

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	<b>Garam Masala</b>	Non-Volatile Ether Extract	IS 1797: 1985 (RA 2009)	(5.00 g to 25.00 g)/100g
		Volatile Oil Per 100 G	IS 1797: 1985 (RA 2009)	(0.20 ml to 4.00 ml)/100g
		Salt (as NaCl)	IS 1797: 1985 (RA 2009)	(0.50 g to 2.00 g)/100g
<b>b.</b>	<b>Chilli Powder</b>	Total ash (on Dry Basis)	IS 1797: 1985 (RA 2009)	(1.00 g to 8.00 g)/100g
		Acid Insoluble ash (on Dry Basis)	IS 1797: 1985 (RA 2009)	(0.20 g to 2.00 g)/100g
		Non-Volatile Ether Extract	IS 1797: 1985 (RA 2009)	(5.00 g to 15.00 g)/100g
<b>c.</b>	<b>Black Pepper Powder</b>	Moisture	IS 1797: 1985 (RA 2009)	(2.00 g to 12.00 g)/100g
		Total ash (on Dry Basis)	IS 1797: 1985 (RA 2009)	(0.50 g to 10.00 g)/100g
		Acid Insoluble ash (on Dry Basis)	IS 1797: 1985 (RA 2009)	(0.50 g to 2.00 g)/100g
		Non Volatile Ether Ext. (on Dry Basis)	IS 1797: 1985 (RA 2009)	(1.00 g to 10.00 g)/100g
<b>d.</b>	<b>Turmeric Powder</b>	Moisture	IS 1797: 1985 (RA 2009)	(2.00 g to 12.00 g)/100g
		Total ash (on Dry Basis)	IS 1797: 1985 (RA 2009)	(1.00 g to 15.00 g)/100g
		Acid Insoluble ash (on Dry Basis)	IS 1797: 1985 (RA 2009)	(0.50 g to 2.00 g)/100g
		Presence of Chromates	IS 3576: 2010	Qualitative
<b>6.</b>	<b>Stimulant Foods</b>			
<b>a.</b>	<b>Tea</b>	Moisture	IS 13853: 1994 (RA 1999)	(2.00 g to 7.00 g)/100g
		Total ash (on Dry Basis)	IS 13854: 1994(RA 1999)	(0.50 g to 10.00 g)/100g

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	<b>Tea</b>	Water – Soluble ash of Total ash (on Dry Basis)	IS 13855: 1993 (RA 2009)	(10.00 g to 70.00 g)/100g
		Alkalinity of Water Soluble ash (as K <sub>2</sub> O)	IS 13856: 1993 (RA 1998)	(0.50 meq to 2.50 meq)/100g
		Acid Insoluble ash (on Dry Basis)	IS 13857: 1993	(0.50 g to 2.50 g)/100 g
		Water Extract (on Dry Basis)	IS 13862: 1999	(5.00 g to 40.00 g)/100 g
<b>b.</b>	<b>Chocolate</b>	Acid Insoluble ash (on Dry Basis)	IS 1163: 1992 (RA 2009)	(0.05 g to 1.00 g)/100 g
<b>7.</b>	<b>Starch Foods</b>			
<b>a.</b>	<b>Corn Flakes</b>	Moisture	IS 1158: 1973 (RA 2010)	(2.00 g to 10.00 g)/100 g
		Total ash (Excluding Sodium Chloride) (on Dry Basis)	IS 1158: 1973 (RA 2010)	(0.20 g to 2.50 g)/100 g
		Acid Insoluble ash (on Dry Basis)	IS 1158: 1973 (RA 2010)	(0.001 g to 0.50 g)/100 g
		Alcoholic Acidity (as H <sub>2</sub> SO <sub>4</sub> )	IS 1158: 1973 (RA 2010)	(0.05 g to 0.50 g)/100 g
		Sieve Analysis	IS 1158: 1973 (RA 2010) Method 2.2.1	(0.50 g to 8.00 g)/100 g
<b>b.</b>	<b>Custard Powder</b>	Moisture	IS 4706 (Part 2): 1978 (RA 2010)	(2.00 g to 12.00 g)/100 g
		Total ash (on Dry Basis)	IS 4706 (Part 2): 1978 (RA 2010)	(0.20 g to 2.00 g)/100 g
		Acid Insoluble ash (on Dry Basis)	IS 4706 (Part 2): 1978 (RA 2010)	(0.05 g to 2.50 g)/100 g



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c.	Macaroni / Vermicelli	Moisture	IS 1485: 1993 (RA 2010)	(2.00 g to 15.00 g)/100 g
		Total ash (on Dry Basis)	IS 1485: 1993 (RA 2010)	(0.20 g to 2.00 g)/100g
		Acid Insoluble ash (on Dry Basis)	IS 1485: 1993 (RA 2010)	(0.001 g to 0.50 g)/100g
		Total Protein (Nx5.7) (on Dry Basis)	IS 1485: 1993 (RA 2010)	(2.00 g to 20.00 g)/100g
8.	Namkeens/ Bhujia	Moisture	IS 15271: 2003 (RA 2009)	(1.00 g to 10.00 g)/100g
		Acid Insoluble ash (on Dry Basis)	IS 15271: 2003 (RA 2009)	(0.02 g to 2.00 g)/100g
		Fat (on Dry Basis)	IS 15271: 2003 (RA 2009)	(5.00 g to 60.00 g)/100g
		Acid Value of the Extracted Oil	IS 15271: 2003 (RA 2009)	0.20 to 2.00
		Peroxide Value of the Extracted Oil (as Oleic Acid)	IS 15271: 2003 (RA 2009)	1.00 meq to 25.00 meq oxygen/kg Fat

**-X-X-X-X-X-X-X-X-X-X-X-X-**