

Laboratory	Sophisticated Industrial Materials Analytic Labs Pvt. Ltd., Plot No. 298, IInd Floor, Sharda Nagar, Jwalapur, Haridwar, Uttarakhand		
Accreditation Standard	ISO/IEC 17025: 2005		
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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I.	AIR, GASES & ATMOSPHERE			
1.	Source (Stack Emission)	Particulate Matter (PM)	IS 11255 (Part 1): 1985	5 mg/Nm ³ to 1000 mg/Nm ³
		Sulphur Dioxide (SO ₂)	IS 11255 (Part 2) (RA 2003)	5 mg/Nm ³ to 500 mg/Nm ³
		Carbon Monoxide (CO)	IS 5182 (Part 10): 1999 (RA 2003)	5 mg/Nm ³ to 500 mg/Nm ³
		Nitrogen Oxide (NO _x)	IS 11255 (Part 7): 2005	5 mg/Nm ³ to 500 mg/Nm ³
		Ammonia as NH ₃	APHA (3 rd Edition) 401: 1991/ IS 11255 (Part 6): 1999 (RA 2003)	1 mg/Nm ³ to 100 mg/Nm ³
		Carbondioxide (CO ₂)	IS 13270: 1992 (RA 2003)	0.1 % to 20 % v/v
		Chlorine	APHA (3 rd Edition) 202: 1991/ IS 5182 (Part 19): 1982 (RA 2003)	1 mg/Nm ³ to 200 mg/Nm ³
		Oxygen (O ₂)	IS 13270: 1992 (RA 2003)	0.1 % to 20 % v/v
2.	Source (Ambient Air)	Suspended Particulate Matter (SPM)	IS 5182 (Part 4): 1999 (RA 2005)	5 µg/m ³ to 1000 µg/m ³
		Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001 (RA 2006)	5 µg/m ³ to 100 µg/m ³
		Carbon Monoxide	IS 5182 (Part 10): 1999 (RA 2003)	1 µg/m ³ to 2000 µg/m ³
		Nitrogen Oxide (NO ₂)	IS 5182 (Part 6) (RA 2006)	5 µg/m ³ to 500 µg/m ³

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	Source (Ambient Air)	Formaldehyde (HCHO)	APHA (3 rd Edition) 116: 1991	10 µg/m ³ to 100 µg/m ³
		Chlorine	APHA (3 rd Edition) 202: 1991/ IS 5182 (Part 19): 1982 (RA 2003)	1 µg/m ³ to 200 µg/m ³
		RSPM (PM ₁₀)	IS 5182 (Part 23): 2006	10 µg/m ³ to 2000 µg/m ³
		Ammonia as NH ₃	APHA (3 rd Edition) 401	0.05 µg/m ³ to 500 µg/m ³
		PM _{2.5}	STP No- SIMA/STP/ENV-10 based on CPCB Guideline & Ambient air Quality monitoring	10 µg/m ³ to 200 µg/m ³
3.	Source (Fugitive Emission)	Suspended Particulate Matter (SPM)	IS 5182 (Part 4): 1999 (RA 2005)	0.05 mg/m ³ to 10 mg/m ³
		Suphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001 (RA 2006)	0.01 mg/m ³ to 100 mg/m ³
		Carbon Monoxide (CO)	IS 5182 (Part 10): 1999 (RA 2003)	0.1 mg/m ³ to 100 mg/m ³
		Nitrogen Dioxide (NO ₂)	IS 5182 (Part 6): 1975 (RA 2006)	0.05 mg/m ³ to 500 mg/m ³
		Formaldehyde (HCHO)	APHA (3 rd Edition) 116: 1991	0.01 mg/m ³ to 100 mg/m ³
		Chlorine (as Cl ₂)	APHA (3 rd Edition) 202: 1991/ IS 5182 (Part 19) (RA 2003)	1 mg/m ³ to 200 mg/m ³
		RSPM	IS 5182 (Part 23): 2006	0.01 mg/m ³ to 2.0 mg/m ³
		Ammonia as NH ₃	APHA (3 rd Edition) 401: 1991	0.05 mg/m ³ to 300 mg/m ³

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II. FOOD & AGRICULTURAL PRODUCTS				
1.	Animal Feed	Moisture	IS 7874 (Part 1): 1975 Clause. 4 with Amd. 2	0.5 % to 20 %
		Crude Fat	IS 7874 (Part 1): 1975 Clause. 7 with Amd. 2	0.5 % to 30 %
		Crude Protein	IS 7874 (Part 1): 1975 Clause. 5 with Amd. 2	2 % to 30 %
		Crude Fiber	IS 7874 (Part 1): 1975 Clause. 8 with Amd. 2	0.5 % to 20 %
		Sodium Chloride	IS 7874 (Part 2): 1975 Clause. 4 with Amd. 2	0.05 % to 10 %
		Calcium	IS 7874 (Part 2): 1975 Clause. 5 with Amd. 2	0.2 % to 10 %
		Phosphorus	IS 7874 (Part 2): 1975 Clause. 6 with Amd. 2	0.1 % to 10 %
		Acid Insoluble Ash	IS 7874 (Part 1): 1975 Clause. 10 with Amd. 2	0.1 % to 5 %
2.	Bakery and Confectionary Products			
a.	Biscuits & Cookies & Cakes (Plain, Fruit , Sponger Cakes)	Moisture	IS 1011: 2002 Amd. 1 Appendix. B	1 % to 10 %
		Acid Insoluble Ash	IS 1011: 2002 Amd. 1 Appendix. C	0.04 % to 2 %
		Acidity of the extracted fat as oleic acid	IS 1011: 2002 Amd. 1 Appendix. D	0.25 % to 2.5 %

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b.	Sugar Boiled Confectionery	Ash Sulphated	IS 6287: 1985 Amd. 1 Clause. 6	0.5 % to 2.5 %
		Acid Insoluble Ash	IS 6287: 1985 Amd. 1 Clause. 7	0.1 % to 2.0 %
		Sulphur dioxide	IS 6287: 1985 Amd. 1 Clause. 12	20 mg/kg to 1000 mg/kg
c.	Bread	pH	IS 1483: 1988 Appendix C	5.0 to 6.0
		Total Solid Content % by mass, Min	IS 1483: 1988 Appendix B	60 % to 85 %
		Acid insoluble ash (on dry basis)	IS 1483: 1988 Appendix D	0.001 to 0.1
		Crude fibre (on dry basis) % by mass, Max	IS 1483: 1988 Appendix E	0.02 to 5.0
3.	Cereal , Pulses & By Products			
a.	Food Grain & Pulses (Whole & Split) like Wheat, Rice, Maize, Moong Dal, Urad Dal, Chana Dal, Lobia Dal, Rajmah, Masur Dal, Arhar Dal), Bajra (Perl-Millet), Jwar (Sorghum)	Loss on drying	IS 4333 (Part 2): 2002 (RA 2002)	5.0 % to 20 %
		Foreign matter	IS 4333 (Part 1): 1996 (RA 2001)	0.1 % to 10 %
		Other edible grains	IS 4333 (Part 1): 1996	0.1 % to 10 %
		Damaged grains	IS 4333 (Part 1): 1996	0.1 % to 10 %
		Weewilled grains by count	IS 4333 (Part 1): 1996	0.1 % to 10 %

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b.	Maida	Loss on drying	IS 1009: 1979 (RA 2010) Amd. 2 Appendix A,	2 % to 30 %
		Total ash	IS 1009: 1979 (RA 2010) Amd. 2 Appendix B	0.2 % to 10 %
		Acid insoluble ash	IS 1009: 1979 (RA 2010) Amd. 2 Appendix C,	0.02 % to 2.0 %
		Alcoholic acidity (as 90% H ₂ SO ₄)	IS 1009: 1979 (RA 2010) Amd. 2 Appendix E	0.05 % to 2.0 %
		Gluten	IS 1009: 1979 (RA 2010) Amd. 2 Appendix D,	2 % to 20 %
		Granularity	IS 1009: 1979 (RA 2010) Amd. 2 Appendix F	Qualitative (Visual)
		Insect infestation	IS 1010: 1968 (RA 2005)	Qualitative (Visual)
c.	Wheat Atta	Acid insoluble ash	IS 1155: 1968 Amd. 3 Appendix C	0.01 % to 5.0 %
		Alcoholic acidity	IS 1155: 1968 Amd. 3 Appendix F	0.05 % to 2.0 %
		Gluten	IS 1155: 1968 Amd. 3 Appendix D	2 % to 20 %
		Granularity	IS 1155: 1968 Amd. 3 Appendix G	Qualitative (Visual)
		Moisture	IS 1155: 1968 Amd. 3 Appendix A	0.5 % to 30 %

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	Wheat Atta	Total Ash	IS 1155: 1968 Amd. 3 Appendix B	0.1 % to 5.0 %
		Insect infestation	IS 1010: 1968 (RA 2005) Appendix B	Qualitative (Visual)
d.	Suji (Samolina)	Loss on drying	IS 1010: 1968 Amd. 3 Appendix B	0.5 % to 30 %
		Total ash	IS 1010: 1968 Amd. 3 Appendix C	0.2 % to 5 %
		Acid insoluble ash	IS 1010: 1968 Amd. 3 Appendix D	0.02 % to 2.0 %
		Alcoholic acidity (as H ₂ SO ₄ with 90% alcohol)	IS 1010: 1968 Amd. 3 Appendix F	0.02 % to 20 %
		Gluten	IS 1010: 1968 Amd. 3 Appendix E	2 % to 20 %
		Insect infestation	IS 1010: 1968 (RA 2005)	Qualitative (Visual)
4.	Stimulant Food			
a.	Tea	Total ash	IS 13854: 1994 (RA 1999)	2 % to 10 %
		Acid insoluble ash	IS 13857: 1993 (RA 1998)	0.05 % to 2.0 %
		Alkalinity of water soluble Acid insoluble ash	IS 13856: 1993 (RA 1998)	0.5 % to 10 %
		Water extract	IS 13862: 1999	10 % to 40 %
b.	Coffee Powder	Moisture	IS 2791: 1992 (RA 1998) Amd. 1 Annexure B	0.5 % to 20 %

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	Coffee Powder	Total ash	IS 2791: 1992 (RA 1998) Amd. 1 Annexure C	0.2 % to 2.0 %
		Solubility in boiling water	IS 2791: 1992 (RA 1998) Annexure E	Qualitative (Solubility)
		Solubility in cold water @16 ±2°C	IS 2791: 1992 (RA 1998) Annexure E	Qualitative (Solubility)
		Caffeine	IS 2791: 1992 (RA 1998) Annexure D (Volumetric Method)	0.5 % to 10 %
c.	Chocolate	Acid insoluble ash	IS 1163: 1992 (RA 1998) Amd. 2 Annexure E	0.05 % to 2.0 %
		Fat	IS 1163: 1992 (RA 1998) Amd. 2 Annexure A & B	2 % to 50 %
		Total sugars	IS 1163: 1992 (RA 1998) Amd. 2 Annexure D	1 % to 70 %
5.	Milk & Dairy Products			
a.	Chhena / Paneer	Moisture	IS 2785: 1979 (RA 2000) Appendix. A	20 % to 75 %
		Milk fat	IS 2785: 1979 (RA 2000) Appendix. B	1 % to 40 %
		Protein	IS 7219: 1973 (RA 2005) Appendix. A	0.5 % to 50 %
b.	Curd / Yogurt (Veg.)	Total solids	IS 4079: 1967 (RA 2000) Amd. 1 Appendix. A	2 % to 15 %

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	Curd / Yogurt (Veg.)	Fat	IS 4079: 1967 (RA 2000) Amd. 1 Appendix. C	0.5 % to 6.0 %
		Protein	IS 7219: 1973 (RA 2005) Appendix. A	0.5 % to 50 %
		Acidity	IS 1479 (Part 1): 1960 (RA 2003) Amd. 4 Clause 14	0.1 % to 5.0 %
c.	Skim Milk Powder	Moisture	IS 16072: 2012	0.5 % to 10 %
		Total solids	IS 11623: 2008	5 % to 98 %
		Titrateable Acidity	IS 11766: 1986 (RA 2003) Amd. 1	0.1 % to 2.5 %
		Milk fat	IS 11721: 2013	15 % to 25.0 %
		Total ash	IS 14433: 2007 (RA 2005) Amd. 3 Annexure B	4.0 % to 10.0 %
		Insolubility index	IS 12759: 1989 (RA 2005)	0.1 ml to 2.5 ml
d.	Condensed Milk	Total milk solids	IS 1166: 1986 (RA 2003) Amd. 3 Appendix B	20 % to 40 %
		Fat	IS 11762: 2013	1 % to 10 %
		Sucrose	IS 1166: 1986 (RA 2003) Amd. 3 Appendix C	35 % to 45 %
		Titrateable acidity	IS 1166: 1986 (RA 2003) Amd. 3 Appendix D	0.1 % to 0.5 %

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6.	Starch and Starchy Products			
a.	Corn Flakes	Moisture	IS 1158: 1973 (RA 2005) Amd. 3 Appendix A	0.1 % to 15 %
		Total ash	IS 1158: 1973 (RA 2005) Amd. 3 Appendix B	0.2 % to 10 %
		Acid insoluble ash	IS 1158: 1973 (RA 2005) Amd. 3 Appendix C	0.02 % to 2.0 %
		Crude fibre	IS 1158: 1973 (RA 2005) Amd. 3 Appendix D	0.5 % to 10.0 %
		Alcoholic acidity (as H ₂ SO ₄)	IS 1158: 1973 (RA 2005) Amd. 3 Appendix E	0.05 % to 2.0 %
b.	Custard Powder	Moisture	IS 4706 (Part 2): 1978 (RA 2005) Clause. 4	0.5 % to 15 %
		Total ash	IS 4706 (Part 2): 1978 (RA 2005) Clause. 6	0.2 % to 10 %
		Acid insoluble ash	IS 4706 (Part 2): 1978 (RA 2005) Clause. 8	0.02 % to 2.0 %
		Gelling power	IS 1007: 1984 (RA 2001) Appendix A	Qualitative (Visual)
c.	Corn Flour	Moisture	IS 4706 (Part 2): 1978 (RA 2005) Clause. 4	0.5 % to 15 %
		Total ash on dry basis	IS 4706 (Part 2): 1978 (RA 2005) Clause. 6	0.2 % to 10 %

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	Corn Flour	Acid insoluble ash	IS 4706 (Part 2): 1978 (RA 2005) Clause. 8	0.02 % to 2.0 %
		Starch	IS 4706 (Part 2): 1978 (RA 2005) Clause. 9	50 % to 90 %
		Protein	IS 4706 (Part 2): 1978 (RA 2005)	0.2 % to 10 %
		Alcoholic acidity	IS 4706 (Part 2): 1978 (RA 2005)	0.02 % to 2.0 %
d.	Macroni / Vermicelli	Moisture	IS 1485: 1993 (RA 2005) Amd. 1 Annexure C	0.5 % to 20 %
		Total ash	IS 1485: 1993 (RA 2005) Amd. 1 Annexure D	0.2 % to 2.0 %
		Acid insoluble ash	IS 1485: 1993 (RA 2005) Amd. 1 Annexure E	0.02 % to 2.0 %
		Total protein (N x 5.7)	IS 1485: 1993 (RA 2005) Amd. 1 Annexure F	0.5 % to 20 %
		Total Solids in Gruel	IS 1485: 1993 (RA 2005) Amd. 1 Annexure G	0.5 % to 20 %
		Free acidity	IS 1485: 1993 (RA 2005) Annexure H	0.2 % to 2.0 %
7.	Spices and Condiments			
a.	Chilli Powder	Ash	IS 2322: 1998 (RA 2003) IS 1797: 1985 Clause 6 Amd. 2	1 % to 20 %
		Acid insoluble ash	IS 1797: 1985 (RA 2001) Amd. 2 Clause 8	0.1 % to 10 %

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	Chilli Powder	Non-volatile ether extract	IS 1797: 1985 (RA 2001) Amd. 2 Clause 14	1 % to 25 %
		Crude fibre	IS 1797: 1985 (RA 2001) Amd. 2 Clause 13	5 % to 35 %
b.	Turmeric Powder	Moisture	IS 1797: 1985 (RA 2001) Amd. 2 Clause 9	0.5 % to 20 %
		Ash	IS 1797: 1985 (RA 2001) Amd. 2 Clause 6	1 % to 10 %
		Acid insoluble ash	IS 1797: 1985 (RA 2001) Amd. 2 Clause 8	0.1 % to 2.0 %
		Lead chromate	IS 3576: 2010 (RA 2003) Appendix A	Qualitative
		Starch	IS 4706 (Part 2): 1978 (RA 2005) Clause 9	5 % to 75 %
		Curcumin	IS 10925: 1984 (RA 2003) Amd. 1 Appendix. B	0.5 % to 5 %
c.	Black Peeper Powder	Moisture	IS 1797: 1985 (RA 2001) Amd. 2 Clause 9	0.5 % to 30 %
		Ash	IS 1797: 1985 (RA 2001) Amd. 2 Clause 6	1 % to 10 %
		Acid insoluble ash	IS 1797: 1985 (RA 2001) Amd. 2 Clause 8	0.1 % to 2 %
		Non-volatile ether extract	IS 1797: 1985 (RA 2001) Amd. 2 Clause 14	0.1 % to 20 %

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	Black Peeper Powder	Crude fibre	IS 1797: 1985 (RA 2001) Amd. 2 Clause 13	2 % to 30 %
d.	Garam Masala	Moisture	IS 1797: 1985 (RA 2001) Amd. 2 Clause 9	1 % to 15 %
		Ash	IS 1797: 1985 (RA 2001) Amd. 2 Clause 6	1 % to 30 %
		Acid insoluble ash	IS 1797: 1985 (RA 2001) Amd. 2 Clause 8	0.2 % to 2.0 %
		Non-volatile ether extract	IS 1797: 1985 (RA 2001) Amd. 2 Clause 14	1 % to 20 %
		Crude fibre	IS 1797: 1985 (RA 2001) Amd. 2 Clause 13	0.5 % to 5.0 %
		Volatile oil	IS 1797: 1985 (RA 2001) Amd. 2 Clause 15	0.25 % to 5.0 %
		Salt	IS 1797: 1985 (RA 2001) Amd. 2 Clause 16	2 % to 20 %
8.	Tobacco Products			
a.	Chewing Tobacco	Moisture (Loss on Heating)	IS 5643: 1999 (RA 2005) Amd. 1 Clause. 6	0.5 % to 20 %
		Total ash	IS 5643: 1999 (RA 2005) Amd. 1 Clause. 10	0.5 % to 10 %
		Acid insoluble ash	IS 5643: 1999 (RA 2005) Amd. 1 Clause. 11	0.5 % to 10 %
		Nicotine content	IS 5643: 1999 (RA 2005) Amd. 1 Clause. 18	0.5 % to 4.5 %

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	Chewing Tobacco	Purity of separated silver	IS 2344: 1994 (RA 2005) Amd. 1 Clause. 3.3	1 % to 100 %
9.	Chewing Gum Bubble Gum	Loss on drying	IS 6287: 1985 (RA 2005) Amd. 1 Clause. 5	0.5 % to 20 %
		Gum base content	IS 6747: 1981 (RA 2005) Amd. 4 Appendix. B	0.5 % to 20 %
		Sulphated ash	IS 6287: 1985 (RA 2005) Clause. 6	0.5 % to 5.0 %
		Acid insoluble ash	IS 6287: 1985 (RA 2005) Amd. 1 Clause. 7	0.5 % to 2.0 %
		Sucrose	IS 6287: 1985 (RA 2005) Amd. 1 Clause. 9	10 % to 70 %
		Reducing sugars	IS 6287: 1985 (RA 2005) Amd. 1 Clause. 8	4 % to 20 %
10.	Food Additives			
a.	Iodized Salt	Moisture	IS 7224: 2006 Annexure K IS 7224: 2006	0.1 % to 10 %
		Iron as Fe	IS 7224: 2006 Annexure M IS 7224: 2006 (Visual Compression)	0.5 mg/kg to 100 mg/kg
b.	All Namkeens Products Like, Alu Bhujia, Mixture Namkeen, Moong Dal, Khata-Mitha	Moisture	IS 15271: 2003 Amd. 2 Appendix. B	0.5 % to 10 %
		Acid insoluble ash	IS 15271: 2003 Amd. 2 Appendix. C	0.02 % to 2.0 %
		Fat / Oil	IS 15271: 2003 Amd. 2 Appendix. D	5.0 % to 60 %

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	All Namkeens products Like, Alu Bhujia, Mixture Namkeen, Moong Dal, Khata-Mitha	Peroxide value	IS 15271: 2003 Amd. 2 Appendix. F	0.5 mq/kg to 10 mq/kg
		Acidity of the extracted fat	IS 15271: 2003 Amd. 2 Appendix. E	0.04 % to 1.0 %
c.	Synthetic Syrup/ Sharbats	Moisture	IS 4684: 1975 (RA 2000)	(1 g to 10 g)/100 g
d.	Honey Extracted	Freedom from foreign matter	IS 4941: 1994 (RA 2002) Annexure B	Qualitative
		Moisture	IS 4941: 1994 (RA 2002) Annexure B	15 % to 30 %
e.	Ready to Eat (All Processed & Extruded Foods like Energy Food, India Mix, Baby Mix, Rajasthan Mix, Extruded Fortified Blended Sukhadi Premix, Upma Premix, Sheera Premix, Sattu, Panjiri	Total ash	IS 1155: 1968 (RA 2005) IS 4684: 1975 (RA 2000)	(1 g to 5 g)/100 g
		Protein	IS 7219: 1973 (RA 2005) IS 4684: 1975 (RA 2000)	(1 g to 25 g)/100 g
		Fat	IS15271: 2003 IS 4684: 1975 (RA 2000)	(1 g to 20 g)/100 g
		Carbohydrates	AOAC (18 th Edition) 986.25 Official Method	5 % to 90 %
		Energy	IS 14433: 2007	(10 kcal to 1000 kcal)/100 gm
		Vitamin C	IS 5838: 1970 (RA 2005)	(1 mg to 25 mg)/100 g
f.	Honey	Moisture	IS 4941: 1994 (RA 2008)	12.0 % to 25.0 %

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	Honey	Acidity	IS 4941: 1994 (RA 2008)	0.05 % to 0.2 %
		Total reducing sugars		1 % to 90 %
		Sucrose		1.0 % to 10 %
		Fructose-glucose ratio		0.5 % Min
		Specific gravity		1.0 % Min
		Fiehe's test		Qualitative (Positive/Negative)
		Hydroxymethyl furfural		1 mg to 100 mg
		Ash		0.1 % to 10 %
		Color		Light brown to dark brown
		Optical Density		0.1 to 0.3
g.	Rice	Average precooked length	IS 4333 (Part 1): 1996	1 mm to 8 mm
		Broken fragments	IS 4333 (Part 1): 1996	0.01 % to 10 %
		Chalky grain/Black kernals	IS 4333 (Part 1): 1996	0.01 % to 10 %
		Damaged discolored grain	IS 4333 (Part 1): 1996	0.1 % to 10 %
		Elongation ratio	SIMA/STP/F/01 Issue. 1 Issue dated. 13/01/2014	0.8 mm to 1.5 mm
		Foreign matter	IS 4333 (Part 1): 1996	0 to 10 %

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	Rice	Green grain	IS 4333 (Part 1): 1996	0.1 % to 10 %
		L/B ratio	SIMA/STP/F/05 Issue. 1 Issue Dated-13/01/2014	0.1 mm to 4 mm
		Mass of 1000 grains	IS 4333 (Part 4): 2002	(5 gm to 50 gm)/ 1000 grain
		Moisture content	IS 4333 (Part 2): 2002	5 % to 20 %
		Other edible grains	IS 4333 (Part 1): 1996	0 to 10 %
		Other grains	IS 4333 (Part 1): 1996	0.1 % to 10 %
		Other rice variety	IS 4333 (Part 1): 1996	0.1 % to 10 %
		Paddy grain	IS 4333 (Part 1): 1996	0.1 % to 10 %
		Weevilled grains	IS 4333 (Part 1): 1996	0.1 % to 10 %
		Amylose Content	ISO 6674: 2007	1 % to 40 %
		Uric acid	IS 4333 (Part 5): 1970	0.1 % to 10 %
		Undermilled & Red Striped	IS 4333 (Part 1): 1996	0.1 % to 10 %
		Aroma test	SIMA/F/STP-04, Issue No.01 Issue Dated 13/01/2014	Qualitative
		Alkali spread value	SIMA/F/STP-02, Issue.01 Dated 13/01/2014	1 mm to 7 mm
		Gel length	SIMA/F/STP-03, Issue. 01 Dated 13/01/2014	26 mm to 100 mm

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III.	WATER			
1.	Borewell Water Tubewell Water Drinking Water, Soft Water Potable & Domestic Water	Colour	IS 3025 (Part 4): 1983 (RA 2002)	5 Hazen to 200 Hazen
		Odour	IS 3025 (Part 5): 1983 (RA 2002)	Qualitative
		Turbidity	IS 3025 (Part 10): 1984 (RA 2002)	2 NTU to 500 NTU
		T.D.S.	IS 3025 (Part 16): 1984 Amd. 1	5 mg/l to 5000 mg/l
		pH	IS 025 (Part 11): 1983 (RA 2002)	1 to 12.0
		Iron	IS 3025 (Part 53): 1964 (RA 2002)	0.05 mg/l to 50 mg/l
		Nitrite Nitrogen	IS 3025 (Part 34): 1988 (RA 2003)	0.1 mg/l to 50 mg/l
		Nitrate Nitrogen	IS 3025 (Part 34): 1988	0.1 mg/l to 50 mg/l
		Fluoride	APHA (22 nd Edition) 4500 F-D: 2012	0.1 mg/l to 100 mg/l
		Chloride	IS 3025 (Part 32): 1988 (RA 2003)	2 mg/l to 2000 mg/l
		Sulphate	IS 3025 (Part 24): 1986 (RA 2003)	1 mg/l to 2000 mg/l
		Alkalinity	IS 3025 (Part 23): 1986 (RA 2003)	1 mg/l to 1000 mg/l

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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Borewell Water Tubewell Water Drinking Water, Soft Water Potable & Domestic Water	Calcium	IS 3025 (Part 40): 1991 (RA 2003)	2 mg/l to 1000 mg/l
		Magnesium	IS 3025 (Part 46): 1994 (RA 2003)	1 mg/l to 1000 mg/l
		Residual Chlorine	IS 3025 (Part 26): 1986 (RA 2003)	0.1 mg/l to 10 mg/l
		Phenolic Compound	IS 3025 (Part 43): 1992 (RA 2003)	0.01 mg/l to 10 mg/l
		Cyanide	IS 3025 (Part 27): 1986 (RA 2009) APHA (22 nd Edition) CN- E: 2012	0.5 mg/l to 20 mg/l
		Total Chromium	IS 3025 (Part 52): 2003	0.05 mg/l to 50 mg/l
		Nickel as Ni	IS 3025 (Part 54): 2003	0.05 mg/l to 50 mg/l
		Chrome as Cr ⁺⁶	IS 3025 (Part 52): 2003	0.05 mg/l to 50 mg/l
		Total Hardness	IS 3025 (Part 21): 2009 (RA 2002)	1 mg/l to 1000 mg/l
		Conductivity	IS 3025 (Part 14): 1984 (RA 2002)	(5 µmho to 7000 µmho)/cm
	Total Acidity	IS 3025 (Part 22): 1986 (RA 2002)	0.5 mg/l to 1000 mg/l	

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2.	Water for Construction	PH	IS 3025 (Part 11): 1983 (RA 2002)	1 to 14
		TDS (Organic & Inorganic)	IS 3025 (Part 16): 1984 (RA 2003)	5 mg/l to 35000 mg/l
		Chloride	IS 3025 (Part 32): 1988 (RA 2003)	3 mg/l to 20000 mg/l
		Sulphate	IS 3025 (Part 24): 1986 (RA 2003)	5 mg/l to 20000 mg/l
		Alkalinity	IS 3025 (Part 23): 1986 (RA 2003)	0.1 mg/l to 5000 mg/l
		Total Suspended solids	IS 3025 (Part 17): 1984 (RA 2002) Amd. 1	5 mg/l to 500 mg/l
		Acidity	IS 3025 (Part 22): 1986 (RA 2002)	0.1 mg/l to 5000 mg/l
3.	Waste Water Including (Industrial Effluent & Domestic Effluent)	Colour	IS 3025 (Part 4): 1983 (RA 2002) APHA (22 nd Edition) 2120B: 2012 Amd. 1	Qualitative
		Odour	IS 3025 (Part 5): 1983 (RA 2002) APHA (22 nd Edition) 2150 B: 2012	NA
		Turbidity	IS 3025 (Part 10): 1984 (RA 2002) APHA (22 nd Edition) 2130 B: 2012	5 NTU to 500 NTU

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	Waste Water Including (Industrial Effluent & Domestic Effluent)	T.D.S	IS 3025 (Part 16: 1984 (RA 2003) APHA (22 nd Edition) 2540C: 2012 Amd. 1	5 mg/l to 50000 mg/l
		pH	IS 3025 (Part 11): 1983 (RA 2002) APHA (22 nd Edition) 4500-H ⁺ B: 2012	1 to 14.0
		Iron	IS 3025 (Part 53): 2003	0.05 mg/l to 500 mg/l
		Nitrite Nitrogen	IS 3025 (Part 34): 1988 (RA 2003)/APHA (22 nd Edition) 4500-NO ₂ B: 2012	0.1 mg/l to 500 mg/l
		Nitrate Nitrogen	IS3025 (Part 34) (RA 2003)	0.1 mg/l to 500 mg/l
		Fluoride	APHA (22 nd Edition) 4500-F D: 2012	0.1 mg/l to 100 mg/l
		Chloride	IS 3025 (Part 32): 1988/ APHA (22 nd Edition) 4500: 2012 Clause B	3 mg/l to 20000 mg/l
		Sulphate	IS 3025 (Part 24): 1986 (RA 2003)	5 mg/l to 20000 mg/l
		Alkalinity	IS 3025 (Part 23): 1986 (RA 2003) / APHA (22 nd Edition) 2320B: 2012 Amd. 2	0.5 mg/l to 5000 mg/l
		Calcium	IS 3025 (Part 40): 1991 (RA 2003) Amd. 2/ APHA (22 nd Edition) 3500-Ca B: 2012	2 mg/l to 5000 mg/l

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	Waste Water Including (Industrial Effluent & Domestic Effluent)	Magnesium	IS 3025 (Part 46): 1994 (RA 2003) Amd. 2/ APHA (22 nd Edition) 3500-Mg B: 2012	1 mg/l to 5000 mg/l
		Residual Chlorine	IS 3025 (Part 26): 1986 (RA 2003) Amd. 1 APHA (22 nd Edition) 4500: 2012 Clause. B	0.1 mg/l to 100 mg/l
		Phenolic Compound	IS 3025 (Part 43): 1964 (RA 2003) Amd. 2/ APHA (22 nd Edition) 5530 C: 2012	0.01 mg/l to 100 mg/l
		Cyanide	IS 3025 (Part 27): 1986 (RA 2003) / APHA (22 nd Edition) 4500-CN E: 2012 Amd. 1	0.5 mg/l to 200 mg/l
		Total Chromium	IS 3025 (Part 52): 2003	0.05 mg/l to 500 mg/l
		Total Suspended Solids	IS 3025 (Part 17): 1984 (RA 2002)/ APHA (22 nd Edition) 2540D: 2012 Amd. 1	5 mg/l to 5000 mg/l
		Chemical Oxygen Demand	IS 3025 (Part 58) (RA 2006)	5 mg/l to 100000mg/l
		Kjeldal Nitrogen	IS 3025 (Part 34): 1988 (RA 2003)/ APHA (22 nd Edition) 4500-N B: 2012	1 mg/l to 500 mg/l

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	Waste Water Including (Industrial Effluent & Domestic Effluent)	Ammonical Nitrogen	APHA (22 nd Edition) 4500-NH ₃ : 2012 IS 3025 (Part 34): 1988 (RA 2003)	0.1 mg/l to 200 mg/l
		Biochemical Oxygen Demand	IS 3025 (Part 44): 1993 (RA 2003) Amd. 1	5 mg/l to 50000 mg/l
		Nickel as Ni	IS 3025 (Part 54): 2003	0.05 mg/l to 500 mg/l
		Chrome as Cr ⁺⁶	IS 3025 (Part 52): 2003	0.01 mg/l to 500 mg/l
		Total Hardness	IS 3025 (Part 21): 2009 (RA 2002) APHA (22 nd Edition) 2340 C: 2012	1 mg/l to 10000 mg/l
		Oil & Grease	IS 3025 (Part 39): 1991 (RA 2003) APHA (22 nd Edition) 5520D,5520- B: 2012	3 mg/l to 7000 mg/l
		Conductivity	IS 3025 (Part 14): 1984 (RA 2002) APHA 2005 2510B: 2012	(5 µmho to 70000 µmho)/cm
		Total Acidity	IS 3025 (Part 22): 1986 (RA 2002) APHA (22 nd Edition) 2310B: 2012	0.5 mg/l to 1000 mg/l
		Carbon Dioxide	APHA (22 nd Edition) 4500-CO ₂ C: 2012	0.5 mg/l to 500 mg/l

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	Waste Water Including (Industrial Effluent & Domestic Effluent)	Chlorine Demand	IS 3025 (Part 25): 1964 (RA 2003) APHA (22 nd Edition) 2350 B: 2012	0.1 mg/l to 100 mg/l
		Dissolved Oxygen	IS 3025 (Part 38): 1986 (RA 2003) APHA (22 nd Edition) 4500-O C: 2012	1 mg/l to 10 mg/l
		Sulphide	IS 3025 (Part 29): 1989 (RA 2003) APHA (22 nd Edition) 4500-S ² F: 2012	1 mg/l to 200 mg/l
		Temperature	IS 3025 (Part 9): 1986 (RA 2002)/ APHA (22 nd Edition) 2550B: 2012	0 to 100 °C
		Phosphorus	APHA (22 nd Edition) 4500 P-D 2012/ IS 3025 (Part 31) (RA 2003)	(0.05 mg to 500 mg)
		Silica	IS 3025 (Part 35): 1988 (RA 2003)/ APHA (22 nd Edition) 4500-SiO ₂ C: 2012	1 mg/l to 100 mg/l
		Bromide	APHA (22 nd Edition): 2012 IS 3025 (Part 30) (RA 2003)	1 mg/l to 500 mg/l

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