

<b>Laboratory</b>	<b>Alpha Test House, M-577, Guru Harkrishan Nagar, Paschim Vihar, New Delhi</b>		
	<b>Location 1: M-577, Guru Harkrishan Nagar, Paschim Vihar, New Delhi</b>		
	<b>Location 2: National Market Peeragarhi, New Delhi</b>		
	<b>Location 3: 487/25, Peeragarhi, New Delhi</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>19.12.2014</b>
<b>Certificate Number</b>	<b>T-1870</b>	<b>Valid Until</b>	<b>07.12.2016</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>Location 2</b>				
<b>I. BUILDING MATERIALS</b>				
<b>1.</b>	<b>Hydraulic Cement</b>	Aluminum Oxide	IS 4032: 1985 (RA 2009) Clause 4.6.1	0.1 % to 20 %
		Calcium Oxide	IS 4032: 1985 (RA 2009) Clause 4.7.2	30 % to 70 %
		Chloride	IS 4032: 1985 (RA 2009)	0.01 % to 1 %
		Insoluble Residue	IS 4032: 1985 (RA 2009)	0.1 % to 40 %
		Iron Oxide	IS 4032: 1985 (RA 2009) Clause 4.5.2	0.1 % to 10 %
		Loss On Ignition	IS 4032: 1985 (RA 2009)	0.1 % to 10 %
		Magnesium Oxide	IS 4032: 1985 (RA 2009) Clause 4.8.2	0.5 % to 15 %
		Potassium Oxide	IS 4032: 1985 (RA 2009)	0.1 % to 5 %
		Silica	IS 4032: 1985 (RA 2009)	15 % to 50 %
		Sodium Oxide	IS 4032: 1985 (RA 2009)	0.1 % to 5 %
		Total Sulphur As SO <sub>3</sub>	IS 4032: 1985 (RA 2009)	0.5 % to 5 %
<b>2.</b>	<b>Fly Ash</b>	Aluminum Oxide	IS 1727: 1967 (RA 2008)	0.1 % to 20 %
		Calcium Oxide	IS 1727: 1967 (RA 2008)	0.1 % to 70 %

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	<b>Fly Ash</b>	Iron Oxide	IS 1727: 1967 (RA 2008)	0.1 % to 10 %
		Loss On Ignition	IS 1727: 1967 (RA 2008)	0.1 % to 10 %
		Magnesium Oxide	IS 1727: 1967 (RA 2008)	0.5 % to 15 %
		Potassium Oxide	IS 3812 (Part 1): 2013	0.1 % to 4 %
		Silica	IS 1727: 1967 (RA 2008)	0.1 % to 65 %
		Sodium Oxide	IS 3812 (Part 1): 2013	0.1 % to 4 %
		Total Sulphur As SO <sub>3</sub>	IS 1727: 1967 (RA 2008)	0.5 % to 5 %
<b>3.</b>	<b>Plaster Of Paris</b>	Calcium Oxide	IS 1288: 1982 (RA 1999)	0.1 % to 70 %
		Loss On Ignition	IS 2547 (Part 1): 1976 (RA 2002)	0.1 % to 10 %
		Magnesium Oxide	IS 1288: 1982 (RA 1999)	0.5 % to 15 %
		Sodium Oxide	IS 4032: 1985 (RA 1990)	0.1 % to 4.0 %
		Sulphur As SO <sub>3</sub>	IS 1288: 1982 (RA 1999)	0.5 % to 50.0 %
<b>4.</b>	<b>Soil</b>	Ammonical Nitrogen	IS 10158: 1982 (RA 2003)	0.1 % to 50 %
		Calcium Carbonate	IS 2720 (Part 23): 1976 (RA 2005)	1.0 mg/kg to 1000 mg/kg
		Cation Exchange Capacity	IS 2720 (Part 24): 1976 (RA 2005)	(0.1 meq to 50 meq)/100g



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<b>II. METALS &amp; ALLOYS</b>				
<b>1.</b>	<b>Plain Carbon &amp; Low Alloy Steel</b>	Carbon	IS 228 (Part 1): 1987 (RA 2007)	0.05 % to 1.00 %
		Chromium	IS 228 (Part 6): 1987 (RA 2008)	0.1 % to 20 %
		Manganese	IS 228 (Part 2): 1987 (RA 1997)	0.1 % to 1.5 %
		Nickel	IS 228 (Part 5): 1987 (RA 2002)	0.1 % to 10 %
		Phosphorous	IS 228 (Part 3): 1987 (RA 2008)	0.01 % to 0.5 %
		Silicon	IS 228 (Part 8): 1989 (RA 2004)	0.05 % to 0.5 %
		Sulphur	IS 228 (Part 9): 1989 (RA 2004)	0.010 % to 0.25 %
<b>2.</b>	<b>Metals</b>	Coating Thickness	IS 3203: 1982 (RA 2006)	0.1 $\mu$ to 1000 $\mu$
		Mass Of Zinc Coating	IS 6745: 1972 (RA 2006)	0.1 g/ m <sup>2</sup> to 2000 g/ m <sup>2</sup>
		Uniformity Of Coating	IS 2633: 1986	Qualitative
<b>III. METALLIC COATINGS &amp; TREATMENT SOLUTIONS</b>				
<b>1.</b>	<b>Armouring Wire &amp; Strip</b>	Uniformity Of Zinc Coating	IS 1554 (Part 1): 1998 IS 3975: 1999 IS 10810 (Part 41): 1984	Qualitative
		Mass Of Zinc Coating	IS 1554 (Part 1): 1998 IS 3975: 1999 IS 10810 (Part 41): 1984	0 to 500 g

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<b>IV.</b>	<b>WATER</b>			
<b>1.</b>	<b>Potable &amp; Domestic (Drinking) Water; Mineral Water; Construction Water; Agriculture Water; Boiling Water; Cooling Water</b>	Acidity	IS 3025 (Part 22): 1986 (RA 2003)	0.5 mg/l to 500 mg/l
		Aluminum	IS 3025 (Part 55): 2003	0.02 mg/l to 5 mg/l
		Ammonical Nitrogen	IS 3025 (Part 34): 1986	0.1 mg/l to 100 mg/l
		Calcium	IS 3025 (Part 40): 1991	0 to 1500 mg/l
		Chloride	IS 3025 (Part 32): 1988	1 mg/l to 5000mg/l
		Chromium	IS 3025 (Part 52): 2003	0.1 mg/l to 15 mg/l
		Color	IS 3025 (Part 4): 1983	1 to 10 Hazen Unit
		Copper	IS 3025 (Part 42): 1992	0.1 mg/l to 5.0 mg/l
		Fixed Residue / Organic Solids	IS 3025 (Part 18): 2004	2.5 mg/l to 1000 mg/l
		Fluoride	IS 3025 (Part 60): 2008	0.1 mg/l to 10 mg/l
		Free Residual Chlorine	IS 3025 (Part 26): 1986	0.5 mg/l to 5.0 mg/l
		Inorganic Solids	IS 3025 (Part 16): 1984 (RA 2006)	2.5 mg/l to 1000 mg/l
		Magnesium	IS 3025 (Part 46): 1994	Upto 10500 mg/l
	Manganese	IS 3025 (Part 59): 2006	0.1 mg/l to 5 mg/l	
	Nickel	IS 3025 (Part 54): 2003	0.1 mg/l to 100 mg/l	

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	<b>Potable &amp; Domestic (Drinking) Water; Mineral Water; Construction Water; Agriculture Water; Boiling Water; Cooling Water</b>	Nitrate	IS 3025 (Part 34): 1988	0.5 mg/l to 100 mg/l
		Odour	IS 3025 (Part 5): 1983	Qualitative
		pH	IS 3025 (Part 11): 1983	1 to 14
		Phenol	IS 3025 (Part 43): 1992	1 mg/l to 5 mg/l
		Phosphate	IS 3025 (Part 31): 1988	1 mg/l to 100 mg/l
		Silica	IS 3025 (Part 35): 1988	0.2 mg/l to 10 mg/l
		Sodium	IS 3025 (Part 45): 1993	5 mg/l to 10000 mg/l
		Specific Conductivity	IS 3025 (Part 14): 1984	Upto 20000 $\mu$ S/cm
		Sulphate	IS 3025 (Part 24): 1986	1 mg/l to 500 mg/l
		Temperature	IS 3025 (Part 9): 1984	10 °C to 60 °C
		Total Alkalinity	IS 3025 (Part 23): 1986	0.5 mg/l to 500 mg/l
		Total Dissolved Solids	IS 3025 (Part 16): 1984	5 mg/l to 2000 mg/l
		Total Hardness	IS 3025 (Part 21): 1983	2 mg/l to 10500 mg/l
		Total Iron	IS 3025 (Part 53): 2003	0.01 mg/l to 15 mg/l
		Total Suspended Solids	IS 3025 (Part 17): 1984	2.5 mg/l to 1000 mg/l
		Turbidity	IS 3025 (Part 10): 1984	Upto 40 NTU

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<b>V.</b>	<b>AIR, GASES &amp; ATMOSPHERE</b>			
<b>1.</b>	<b>Air Ambient</b>	No <sub>x</sub>	IS 5182 (Part 7): 1975 (RA 1998)	20 µg/m <sup>3</sup> to 740 µg/m <sup>3</sup>
		SPM	IS 5182 (Part 4 ): 1999 (RA 2005)	10 µg/m <sup>3</sup> to 2000 µg/m <sup>3</sup>
		So <sub>x</sub>	IS 5182 (Part 2): 2001	25 µg/m <sup>3</sup> to 1050 µg/m <sup>3</sup>
		RSPM	IS 5182 (Part 23): 2006	5 µg/m <sup>3</sup> to 1000 µg/m <sup>3</sup>
		CO	IS 5182 (Part 10): 1999 (RA 2003)	100 µg/m <sup>3</sup> to 5000 µg/m <sup>3</sup>
		NH <sub>3</sub>	APHA (Air-3 <sup>rd</sup> Edition) Indophenols Method	1 µg/m <sup>3</sup> to 700 µg/m <sup>3</sup>
		Particulate Matter, Less Than 2.5 Microns(Ug/M <sup>2</sup> ) (PM <sub>2.5</sub> )	SOP	20 µg/m <sup>3</sup> to 100 µg/m <sup>3</sup>
		Particulate Matter, Less Than 10 Microns (PM <sub>10</sub> )	IS 5182 (Part 23): 2006	5 µg/m <sup>3</sup> to 1000 µg/m <sup>3</sup>
		Heavy Metals (Pb, Ni)		
		Pb (µg/M <sup>3</sup> )	IS 5182 (Part 22): 2004	0.010 µg/m <sup>3</sup> to 10.0 µg/m <sup>3</sup>
		Ni(µg/M <sup>3</sup> )	APHA (Air-3 <sup>rd</sup> Edition)	4.0 µg/m <sup>3</sup> to 20 µg/m <sup>3</sup>
<b>2.</b>	<b>Noise Level Monitoring</b>	Sound Level Noise	SOP	Resolution ±0.1dB 35 dB to 180 dB

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<b>VI. FOODS &amp; AGRICULTURAL PRODUCTS</b>				
<b>1.</b>	<b>Milk Powder</b>	Moisture	IS 16072: 2012	1.0 % to 20%
		Total Ash	IS 1165: 2002 (RA 2009)	0.1 % to 8.0%
		Protein	IS 7219: 1973 (RA 2005)	6 % to 40 %
		Fat	IS 11721: 2005 (RA 2010)	0.5 % to 30 %
		Carbohydrate	IS 1656: 2007 (RA 2012)	20 % to 70 %
		Energy	IS 14433: 2007 SOP	(250 kcal to 450 kcal)/ 100g
<b>2.</b>	<b>Ghee</b>	Butyro Refractometer Reading	IS 3508: 1967 (RA 2009)	27 to 91.6
		Reichert Meissl Value	IS 3508: 1966 (RA 2009)	1.0 to 40.0
		Free Fatty Acid	IS 3508: 1966 (RA 2009)	0.01 % to 6.0 %
		Baudouin Test	IS 3508: 1966 (RA 2009)	Qualitative (Positive/Negative)
<b>3.</b>	<b>Food Grain , Pulses &amp; Its Products: (Whole Grains, Flour &amp; Soya Flour, Processed Cereal Based Weaning Food</b>	Moisture	IS 4684: 1975 (RA 2010)	1.0 % to 20.0 %
		Total Ash	IS 4684: 1975 (RA 2010)	0.1 % to 5.0 %
		Acid Insoluble Ash	IS 4684: 1975 (RA 2010)	0.02 % to 2.0 %
		Protein	IS 7219: 1973 (RA 2005)	5.0 % to 50 %



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	<b>Food Grain , Pulses &amp; Its Products: (Whole Grains, Flour &amp; Soya Flour, Processed Cereal Based Weaning Food</b>	Fat	IS 4684: 1975 (RA 2010)	0.5 % to 40 %
		Carbohydrate	IS 1656: 2007 (RA 2012)	20 % to 80 %
		Energy	IS 14433: 2007	(300 kcal to 550 kcal) / 100g
		Sugar As Sucrose	In house Method: ATH/SOP/FC/05 Issue No.01 & Issue Date: 29/10/2012	1.0 % to 35%
4.	<b>Spices &amp; Condiments: Haldi Powder, Curry Powder, Dhaniya Powder, Chilly Powder, Garam Mashala Powder, Chole Masala Powder,</b>	Moisture	IS 1797: 1985 (RA 2009)	1.0 % to 20 %
		Total Ash	IS 1797: 1985 (RA 2009)	0.5 % to 25.0 %
		Crude Fat	ATH/SOP/FC/12 IS 1797: 1985 (RA 2009)	0.5 % to 20 %
		Protein	IS 7219: 1973 (RA 2005)	5.0 % to 35 %
		Carbohydrate	IS 1656: 2007	30 % to 80 %
		Energy	IS 14433: 2007	(250 kcal to 450 kcal)/ 100g
		Acid Insoluble Ash	IS 1797: 1985(RA 2009)	0.02 % to 5.0 %
5.		<b>Bakery Products: Biscuits &amp; Cookies</b>	Moisture	IS 12711: 1989 (RA 2010)
	Total Ash		IS 12711: 1989 (RA 2010)	0.1 % to 5.0 %

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	<b>Bakery Products: Biscuits &amp; Cookies</b>	Acid Insoluble Ash	IS 12711: 1989 (RA 2010)	0.01 % to 1.0 %
		Protein	IS 7219: 1973 (RA 2005)	5.0 % to 20 %
		Fat	IS 12711: 1989 (RA 2010)	0.5 % to 40 %
		Acidity Of Extracted Fat	IS 12711: 1989 (RA 2010)	0.1 % to 3.0 %
		Carbohydrate	IS 1656: 2007(RA 2012)	25 % to 80 %
		Energy	IS 14433: 2007 Nutritional Value of India Foods (MIN) Page no	(300 kcal to 550 kcal)/100g
		Sugar As Sucrose	ATH/SOP/FC/05	1.0 % to 40 %

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