

<b>Laboratory</b>	<b>Pune Municipal Corporation's Quality Assurance Laboratory, Salunke Vihar Road, Kemella Area, Kondwa, Pune, Maharashtra</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>07.08.2015</b>
<b>Certificate Number</b>	<b>T-3544</b>	<b>Valid Until</b>	<b>06.08.2017</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>WATER</b>			
<b>1.</b>	<b>Potable &amp; Domestic Water</b>	pH	IS 3025 (Part 11): 1983 (RA 2012) Electrometric Method	2.0 to 12.0
		Total Dissolved Solids	IS 3025 (Part 16): 1984 (RA 2006) Gravimetric Method	10 to 2000 mg/l
		Turbidity	IS 3025 (Part 10): 1984 (RA 2012) Nephelometric Method	0.1 NTU to 200 NTU
		Specific Conductivity	APHA (22 <sup>nd</sup> Edition) 2510-B 2012 Laboratory Method	0.1 µS/cm to 2000 µS/cm
		Total hardness (as CaCO <sub>3</sub> )	IS 3025 (Part 21): 2009 EDTA Method	2 mg/l to 1000 mg/l
		Calcium(as Ca)	APHA (22 <sup>nd</sup> Edition) 3500-Ca B EDTA Method	2 mg/l to 200 mg/l
		Magnesium (as Mg)	APHA (22 <sup>nd</sup> Edition) 3500-Mg B Calculation Method	1.0 mg/l to 200 mg/l
		Alkalinity (as (CaCO <sub>3</sub> ))	IS 3025 (Part 23): 1986 (RA 2003) APHA (22 <sup>nd</sup> Edition) 2320-B Titration Method	2 mg/l to 600mg/l
		Chlorides	IS 3025 (Part 32): 1988 (RA 2009) Argentometric Method	2 mg/l to 500 mg/l

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	<b>Potable &amp; Domestic Water</b>	Sulphate (as SO <sub>4</sub> )	APHA (22 <sup>nd</sup> Edition) 4500-SO <sub>4</sub> <sup>2-</sup> E: 2012 Turbidimetric Method	1 mg/l to 40 mg/l
		Nitrate (as NO <sub>3</sub> )	APHA (22 <sup>nd</sup> Edition) 4500-NO <sub>3</sub> B: 2012 UV SpectroPhotometric Method	0.1 mg/l to 100 mg/l
		Fluorides (as F)	APHA (22 <sup>nd</sup> Edition) 4500-F'D SPADNS Method	0.1 mg/l to 5.0 mg/l
		Nitrite	IS 3025 (Part 34): 1988 (RA 2009) NED dye spectrophotometric	0.01 mg/l to 50 mg/l
		Phosphorous	APHA (22 <sup>nd</sup> Edition) 4500-PC Vanadomolybdo-phosphoric acid Method	0.5 mg/l to 5.0 mg/l
		Iron	APHA (22 <sup>nd</sup> Edition) 3500-Fe B: 2012 1,10,phenanthroline IS 3025 (Part 53): 2003 (RA 2009 )	0.03 mg/l to 100 mg/l
			APHA (22 <sup>nd</sup> Edition) 3111-B: 2012 AAS Flame Absorption	0.1 mg/l to 2.0 mg/l
		Copper	APHA (22 <sup>nd</sup> Edition) 3111-B: 2012 AAS Method	0.05 mg/l to 50 mg/l
		Zinc	APHA (22 <sup>nd</sup> Edition) (3111 B) AAS	0.05 mg/l to 50 mg/l
		Nickel	APHA (22 <sup>nd</sup> Edition) 3111-B	0.05 mg/l to 50 mg/l

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	<b>Potable &amp; Domestic Water</b>	Total Chromium	APHA (22 <sup>nd</sup> Edition) 3111-B	0.1 mg/l to 50 mg/l
		Cadmium (as Cd)	APHA (22 <sup>nd</sup> Edition) 3111-B IS 3025 (Part 41): 1992 (RA 2009)	0.1 mg/l to 50 mg/l
		Manganese	APHA (22 <sup>nd</sup> Edition) 3111-B: 2012 Method	0.05 mg/l to 100 mg/l
		Potassium	APHA (22 <sup>nd</sup> Edition) 3500-K B Flame emission AAS	0.1 mg/l to 100 mg/l
		Lead (as Pb)	APHA (22 <sup>nd</sup> Edition) 3111 B : 2012 Method	0.5 mg/l to 50 mg/l
		Sodium	APHA (22 <sup>nd</sup> Edition) 3500-NaB Flame emission AAS	0.1 mg/l to 100 mg/l
<b>II. FOOD &amp; AGRICULTURAL PRODUCT</b>				
<b>1.</b>	<b>Animal Feed</b>	Moisture	IS 7874 (Part1): 1975 (RA 2009) Clause 4.0	0.5 % to 20.0 %
		Total Ash	IS 7874 (Part 1): 1975 (RA 2009) Clause 9.0	0.5 % to 20.0 %
		Crude Protein	IS 7874 (Part 1): 1975 (RA 2009) Clause 5.0	1.0 % to 40.0 %
		Crude Fat	IS 7874 (Part 1): 1975 (RA 2009) Clause 7.0	0.5 % to 20.0 %
		Crude Fiber	IS 7874 (Part 1): 1975 (RA 2009) Clause 8.0	0.5 % to 20.0 %

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2.	<b>Meat &amp; Meat Products</b>	Moisture	IS 5960 (Part 5): 2001 (RA 2009)	30 % to 85 %
		Total Ash	IS 5960 (Part 2): 2000 (RA 2009)	0.2 % to 5.0 %
		Total Fat	IS 5960 (Part 3): 1970 (RA 2010)	0.1 % to 20 %
		Nitrogen Total	IS 5960(Part 1): 1996 (RA 2009)	0.5.% to 6 %
3.	<b>Cereal, Pulses &amp; By-products</b>			
a.	<b>Food Grain</b>	Moisture	DGHS Manual 3: 2005 2.0	1 % to 20 %
		Protein (N x6.25)	IS 7219: 1973 (RA 2010)	1 % to 35 %
		Crude fiber	DGHS Manual 3 2005 Method 8.9	1 % to 10 %
		Determination of Foreign matter	IS 4333 (Part 1): 1996 (RA 2012) 6.2	0 to 10 %
		Insect Damage Grains	IS 4333 (Part 1): 1996 (RA 2012) 6.3.2	0 to 10 %
b.	<b>Atta (Wheat), Maida, Fortified Maida, Protein Rich Maida, Suji (Semolina)</b>	Moisture	DGHS Manual 3 2005 Method 2.0	0.5 % to 20 %
		Ash	DGHS Manual 3 2005	0.1 % to 5 %

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	<b>Atta (Wheat), Maida, Fortified Maida, Protein Rich Maida, Suji (Semolina)</b>	Fat	IS 7874 (Part 1): 1975 (RA 2009)	0.1 % to 1 %
		Protein (N x6.25)	IS 7219: 1973 (RA 2010)	1 % to 30 %
		Crude fiber	IS 1155: 1968 (RA 2010)	0.5 % to 2 %
<b>4.</b>	<b>Milk &amp; Dairy Products</b>			
<b>a.</b>	<b>Channa or Paneer/ Cheese</b>	Moisture	DGHS Manual 1: 2005 Method 4.1.1	1 % to 50 %
		Fat	DGHS Manual 1: 2005 Method 4.2	0.5 % to 30 %
<b>b.</b>	<b>Milk Powder (Whole, Skimmed, Partial Skimmed)</b>	Moisture	DGHS Manual 1: 2005 Method 9.1.1	0.1 % to 5 %
		Ash	DGHS Manual 1: 2005 Method 9.6.0	0.1 % to 5%
		Fat	DGHS Manual 1: 2005 Method 9.2.0	0.5 % to 10 %
		Protein	DGHS Manual 1: 2005 Method 9.5.0	1 % to 10 %
		Total Carbohydrate	DGHS Manual 1: 2005 Method 9.4.0	(10 g to 70 g)/100g
	Calories	Nutritive Value of Indian Foods (NIN)	(50 kcal to 500.0 kcal) /100g	
<b>c.</b>	<b>Liquid Milk</b>	Fat	DGHS Manual 1: 2005 Method 4.2	0.5 % to 15 %

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	Liquid Milk	Protein	IS 7219: 1973 (RA 2010)	0.5 % to 15%
		Solid Not Fat	DGHS Manual 1: 2005 Method 2.1.3	2 % to 15 %
		<b>Adulteration:</b>		
		Detection of Cane Sugar	DGHS Manual 1 Method 1.2.1.0	Qualitative
		Detection of added Urea	DGHS Manual 1 Method 1.2.4.0	Qualitative
		Detection of Sodium Chloride	DGHS Manual 1 Method 1.2.7	Qualitative
		Detection of Skimmed milk powder	DGHS Manual 1 Method 1.2.15	Qualitative
		Test for presence of Saccharin	DGHS Manual 1 Method 1.2.8	Qualitative
		<b>Preservative:</b>		
		Test for presence of Formalin	DGHS Manual 1 Method 1.3(a)	Qualitative

-X-X-X-X-X-X-X-X-X-X-X-X-X-