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| Laboratory | Omega Test House, J - 889, IIIrd Phase, Sitapura Industrial Area, Jaipur, Rajasthan | | |
| Accreditation Standard | ISO/IEC 17025: 2005 | | |
| Discipline | Chemical Testing | Issue Date | 15.09.2014 |
| Certificate Number | T-2241 | Valid Until | 14.09.2016 |
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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. FOOD & AGRICULTURE PRODUCTS | | | | |
| 1. | Pulses and Food Grains (Maize, Rice, Wheat, Soyabean, Dal, Chana, Peas) | Damaged & Weevilled Seed | IS 4333 (P - 1) : 1996 (RA 2012) | 0.1 - 10g/100g |
| | | Slightly Damaged Seed | IS 4333 (P - 1) : 1996 (RA 2012) | 0.1 - 10g/100g |
| | | Shrivelled or Immature Seeds of Kernels | IS 4333 (P - 1) : 1996 (RA 2012) | 0.1 - 10g/100g |
| | | Moisture Content | IS 4333 (P - 1) : 1996 (RA 2012) | 0.1 - 15 g/100g |
| | | Total Ash (Dry basis) | IS 4333 (P - 1) : 1996 (RA 2012) | 0.1 - 3.0 g/100g |
| | | Acid Insoluble Ash (Dry basis) | IS 4333 (P - 1) : 1996 (RA 2012) | 0.05 - 1.0 g/100g |
| 2. | Cereal Products (Wheat, Beasn Flour, Maida, Rice) | Dry Gluten (Dry basis) | IS 1155 : 1968 (RA 2010) | 4.0 - 12.0 g/100g |
| | | Alcoholic Acidity As H ₂ SO ₄ (Dry basis) | IS 12711 : 1989 (RA 1994) | 0.01 - 2.0 g/100g |
| | | Protein (N x 6.25) | IS 7219 : 1973 (RA 2005) | 1.0 - 20 g/100g |
| 3. | Bread & Bakery Products | Alcoholic Acidity as H ₂ SO ₄ | IS 12711 : 1989 (RA 1994) | 0.01 - 2.0 g/100g |
| | | pH | IS 12711 : 1989 (RA 1994) | 1 - 14 |
| | | Protein (N x 6.25) | IS 7219 : 1973 (RA 2005) | 1.0 - 20 g/100g |
| | | Carbohydrate | 1656 : 2007 (RA 2009) SOP/OTH-74 | By Calculation |

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|--------------|---|--|--|---|
| | Bread & Bakery Products | Fat Content | IS 12711 : 1989 (RA 1994) | 0.1 - 40.0 g/100g |
| | | Calorific Value, kcal/100g | IS 14433 : 2007 SOP/OTH-75 | By Calculation |
| 4. | Spices & Condiments (Pepper, Turmeric, Chilies, Ginger, Coriander, Cumin, Cardamom, Fenugreek) | Moisture | IS 1797 : 1985 (RA 2009) | 0.5 - 20 g/100g |
| | | Extraneous Matter | IS 1797 : 1985 (RA 2009) | 0.1 - 20.0 g/100g |
| | | Total Ash (Dry basis) | IS 1797 : 1985 (RA 2009) | 0.5 - 10.0 g/100g |
| | | Acid Insoluble Ash (Dry basis) | IS 1797 : 1985 (RA 2009) | 0.02 - 2.0 g/100g |
| | | Non Volatile Ether Extract (Dry basis) | IS 1797 : 1985 (RA 2009) | 0.5 - 10.0 g/100g |
| | | Cold Water Soluble Extract (Dry basis) | IS 1797 : 1985 (RA 2009) | 0.1 - 20.0 g/100g |
| | | Alcohol Soluble Extract (Dry basis) | IS 1797 : 1985 (RA 2009) | 0.1 - 20.0 g/100g |
| | | Volatile Oil Content (Dry basis) | IS 1797 : 1985 (RA 2009) | 0.1 - 5.0 ml/100g |
| | | Chromate Test in Turmeric Powder | IS 3576 : 2010 | Present/Absent |
| 5. | Nuts & Oil seeds | Oil Content (Dry basis) | IS 3579 : 1966 (RA 2000) | 0.1 - 50.0 g/100g |

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| 6. | Oil & Fats | Moisture | IS 548 (P-1) : 1964 (RA 2010) | 0.05 - 1.0 g/100g |
| | | Saponification Value | IS 548 (P-1) : 1964 (RA 2010) | 100 - 200 |
| | | Acid Value | IS 548 (P-1) : 1964 (RA 2010) | 0.1 - 4.0 |
| | | Specific Gravity At 30/30°C | IS 548 (P-1) : 1964 (RA 2010) | 0.6 - 1.1 |
| | | Free Fatty Acid as oleic acid | IS 548 (P-1) : 1964 (RA 2010) | 0.01 - 2.0 g/100g |
| | | Peroxide Value | IS 548 (P-1) : 1964 (RA 2010) | 0.2 - 20 meq/kg |
| II. | WATER | | | |
| 1. | Potable & Domestic Water | Turbidity | IS 3025 (P-10) : 1984 (RA 2002) | 0.1 - 1000 NTU |
| | | Odour | IS 3025 (P-5) 1983 : (RA 2002) | Qualitative |
| | | pH | IS 3025 (P-11) 1983 : (RA 2002) | 1 - 14 |
| | | Total Dissolved Solids | IS 3025 (P-16) 1984 : (RA 2006) | 5 - 3000 mg/l |
| | | Total Hardness as CaCO ₃ | IS 3025 (P-21) 2009 | 1 - 1000 mg/l |
| | | Calcium as Ca | IS 3025 (P-40) : 1991 (RA 2003) | 1 - 300 mg/l |
| | | Magnesium as Mg | IS 3025 (P-46) : 1994 (RA 2003) | 1 - 200 mg/l |
| | | Sulphate as SO ₄ | IS 3025 (P-24) : 1986 (RA 2003) | 1 - 600 mg/l |

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|--------------|-------------------------------------|--|--|---|
| | Potable & Domestic Water | Chloride as Cl | IS 3025 (P-32) : 1988 (RA 2003) | 1 - 1500 mg/l |
| | | Volatile Residue (Total Filterable and Non Filterable) | IS 3025 (P-18) : 1984 | 0.1 - 1000 mg/l |
| | | Fixed Residue (Total Filterable and Non Filterable) | IS 3025 (P-18): 1984 (RA 2002) | 0.1 - 3000 mg/l |
| | | Acidity | IS 3025 (P-22) : 1986 (RA 2003) | 1 - 1000 mg/l |
| | | Alkalinity | IS 3025 (P-23) : 1986 (RA 2003) | 1 - 1000 mg/l |
| | | Total Suspended Solids | IS 3025 (P-17) : 1984 (RA 1996) | 1 - 500 mg/l |
| | | Specific Conductance | IS 3025 (P-14) 1986 | 0.2µs/cm - 3ms/cm |
| | | Iron | IS 3025 (P-53) 2003 | 0.01 - 5 mg/l |
| | | Nitrate as NO ₃ | APHA-22 nd Edition 4500 NO ₃ ⁻ | 1 - 200 mg/l |
| | | Fluoride as F | IS 3025 (P-60) 2008 | 0.05 - 5 mg/l |
| | | Sodium as Na | IS 3025 (P-45) : 1993 (RA 2003) | 1 - 500 mg/l |
| | | Potassium as K | IS 3025 (P-45) : 1993 (RA 2003) | 1 - 100 mg/l |
| | | Residual/Free Chlorine | IS 3025 (P-26) : 1986 (RA 2003) | 0.1 - 10 mg/l |

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| 2. | Swimming Pool Water | pH | IS 3025 (P-11) : 1983 (RA 2002) | 1 - 14 |
| | | Total Dissolved Solids | IS 3025 (P-16) : 1984 (RA 2006) | 5 - 3000mg/l |
| | | Total Hardness as CaCO ₃ | IS 3025 (P-21) 2009 | 1 - 1000mg/l |
| | | Chloride as Cl | IS 3025 (P-32) : 1988 (RA 2003) | 1 - 5000mg/l |
| | | Total Alkalinity as CaCO ₃ | IS 3025 (P-23) : 1986 (RA 2003) | 1 - 1000mg/l |
| | | Iron as Fe | IS 3025 (P-53) 2003 | 0.01 - 5mg/l |
| | | Residual /Free Chlorine | IS 3025 (P-26) : 1986 (RA 2003) | 0.1 - 10mg/l |
| 3. | Construction Water | Acidity | IS 3025 (P-22) : 1986 (RA 2003) | 10 - 1000 mg/l |
| | | Alkalinity | IS 3025 (P-23) : 1986 (RA 2003) | 10 - 1000 mg/l |
| | | Organic Matter | IS 3025 (P-18) 1984 | 1 - 3000 mg/l |
| | | Inorganic Matter | IS 3025 (P-18) 1984 | 1 - 3000 mg/l |
| | | Sulphate as SO ₄ | IS 3025 (P-24) : 1986 (RA 2003) | 1 - 2000 mg/l |
| | | Chloride as Cl | IS 3025 (P-32) : 1988 (RA 2003) | 1 - 2000 mg/l |
| | | Suspended Matter | IS 3025 (P-17) : 1984 (RA 2002) | 1 - 2000 mg/l |
| 4. | Waste Water | pH | IS 3025 (P-11) : 1983 (RA 2002) | 1 - 14 |
| | | Total Dissolved Solids | IS 3025 (P-16) : 1984 (RA 2006) | 5 - 30000 mg/l |

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| | Waste Water | Total Suspended Solids | IS 3025 (P-17) : 1984 (RA 1996) | 1 - 10000 mg/l |
| | | Phosphate as P | IS 3025 (P-31) : 1988 (RA 1999) | 0.05 - 5 mg/l |
| | | Chemical Oxygen Demand | IS 3025 (P-58) 2006 | 1 - 30000 mg/l |
| | | Biochemical Oxygen Demand | IS 3025 (P-44) : 1993 (RA 2003) | 1 - 20000 mg/l |
| | | Oil & Grease | IS 3025 (P-39) : 1991 (RA 2003) | 5 - 2000 mg/l |
| III. AIR, GASES AND ATMOSPHERE | | | | |
| 1. | Ambient Monitoring | Suspended Particulate Matter | IS 5182 (P-4) 1999 | 10 - 1000 µg/m ³ |
| | | Sulphur Dioxide as SO ₂ | IS 5182 (P-2) : 2001 (RA 2006) | 2 - 750 µg/m ³ |
| | | Nitrogen Dioxide as NO ₂ | IS 5182 (P-6) : 2006 (RA 2006) | 6 - 750 µg/m ³ |
| | | PM 10 | IS 5182 (P-23) : 2006 | 3.5 - 1000 µg/m ³ |
| | | PM 2.5 | SOP No. QCO 1015 Issue No. 02, Issue Date Jan 2013 | 2.0 - 1000 µg/m ³ |
| | | Carbon Mono Oxide as CO | IS 5182 (P-10) : 1999 | 0 - 1000 µg/m ³ |
| 2. | Stack Monitoring | Particulate Matter | IS 11255 (Part-1) : 1985 (RA 2001) | 5 - 500 mg/m ³ |
| | | Sulphur Dioxide as SO ₂ | IS 11255 (Part-2) : 1985 (RA 2003) | 2.6 - 100 mg/m ³ |
| | | Nitrogen Dioxide as NO ₂ | IS 11255 (Part-7) : 2005 | 1 - 1000 mg/m ³ |

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| | Stack Monitoring | CO ₂ | IS 13270/1992 : RA 2003 (ORSAT Analysis) | 0.2 - 20 % |
| | | CO | IS 13270/1992 : RA 2003 (ORSAT Analysis) | 0.2 - 10 % |
| | | O ₂ | IS 13270/1992 : RA 2003 (ORSAT Analysis) | 0.2 - 20 % |
| IV. NOISE MONITORING | | | | |
| | | Noise Level Measurement | IS 9989 : 1981 (RA 2001) | 30 - 130 Leq dB |

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