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| Laboratory | C.E.P.C. Laboratory & Technical Division (The Cashew Export Promotion Council of India), Cashew Bhavan, Mundakkal, Kollam, Kerala | | |
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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 & AGRICULTURAL PRODUCT | | | | |
| 1. | Nut and Nut Products | Aflatoxin | A.O.A.C. International 19 th Edition, 2012, 970.45 & 968.22F | Qualitative (≥ 20 µg/kg) |
| | | Acidity or Free Fatty Acid | IS 1011: 1992 | 0.1 % to 5 % |
| | | Moisture | A.O.A.C. 19 th Edition, 2012 986.21 Inhouse validated method MOAC/AP/CK5 | 0.4 % to 10 % |
| | | Peroxide value (Rancidity) | A.O.A.C. 19 th Edition, 2012 965.33 | 0.2 to 5 meq of O ₂ /Kg |
| | | Quality Analysis Superficial damage | AFI – Revision 2012 | 0.2 % to 10 % |
| | | Immature or Shrivelled | | Qualitative |
| | | Coloured kernels (next lower grade) | | Qualitative |
| | | Speckled or spotted | | Qualitative |
| | | Presence of testa | | 0.2 % to 10 % |
| | | Insect damage | | Qualitative |
| | | Visible mold | | Qualitative |
| | | Rancid or rotten | | 0.02 % to 10 % |
| | | Foreign matter | | 1 to 600 nos. |

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|--------------|-----------------------------------|-----------------------------------|--|---|
| | Nut and Nut Products | Count per pound | | 0.5 % to 10 % |
| | | Broken kernels | | 0.5 % to 10 % |
| | | Scorched kernels Decay | | 0.2 % to 10 % |
| | | Next lower size grade | | 0.5 % to 10 % |
| | | Quality Analysis | | |
| | | Next lower grade | MOAC/AP/CK8 dated 02-01-2012 | 0.5 % to 10 % |
| | | Adhering testa | | Qualitative |
| | | Infestation | | Qualitative |
| | | Mold | | Qualitative |
| | | Rancidity | | Qualitative |
| | | Count / pound | | 1 to 500 nos. |
| | | Moisture | | 0.4 % to 10 % |
| | | Broken | | 0.5 % to 10 % |
| | | Next lower size grade | | 0.5 % to 10 % |
| | | Objectionable / extraneous matter | | Qualitative |
| | Scrapes | | Qualitative | |
| | Shrivelled | | Qualitative | |

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|--------------|---|---|--|--|---|---------------|
| | Nut and Nut Products | Roast Test | AFI, 1999 | 0.2 % to 10 % | | |
| | | Spotted | | | | |
| | | Scorched Tip / Colour variation | | | | |
| | | Deeply scorched tip | | | | |
| | | Dark Roast | | | | |
| | | Deep Roast | | | | |
| | | Scrapes | | | | |
| | | Total Protein (Crude) | | | A.O.A.C. 19 th Edition, 2012 (40.1.06) | 0.5 % to 30 % |
| | | Total Fat (Crude) | | | A.O.A.C. 19 th Edition, 2012 (40.1.05) | 5 % to 60 % |
| | Total Ash | A.O.A.C. 19 th Edition, 2012 (40.1.08) | 0.1 % to 10 % | | | |
| | Carbohydrates | A.O.A.C. 19 th Edition, 2012 | 1 % to 50 % | | | |
| 2. | Fats, Oils and Fat Emulsions (Coconut Oil, Palm Oil) | Iodine value | DGHS 2005 (Lab Manual 2) | 20 to 150 | | |
| | | Acid value | | 0.1 % to 10 % | | |
| | | Mineral oil | | Qualitative (Present /Absent) (Present if ≥ 1 %) | | |
| 3. | Cereal & Cereal Products/Food Grains (Rice Powder, Wheat Powder) | Moisture | IS 1155: 1968 DGHS 2005 (Lab Manual 3) | 0.1 % to 20 % | | |
| | | Total ash | | 0.1 % to 10 % | | |
| | | Acid insoluble ash | | 0.01 % to 5 % | | |
| | | Alcoholic acidity | | 1 % to 20 % | | |
| | | Protein | | 0.1 % to 20 % | | |
| | | Crude fiber | | 0.05 % to 5 % | | |

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|------------------|---|---------------------------------|---|--|
| 4. | Spices, Condiments & related products (Pepper, Chilly) | Moisture | DGHS 2005 | 0.1 % to 20 % |
| | | Total ash | (Lab Manual 10) | 0.1 % to 10 % |
| 5. | Milk & Milk products (Milk, Ice cream) | Moisture | DGHS 2005 | 0.1 % to 90 % |
| | | Total fat | (Lab Manual-1) | 1 % to 70 % |
| | | Protein | AOAC 19 th Edn. 2012 (33.2.11) | 1 % to 50 % |
| | | Carbohydrate | | 1 % to 50 % |
| 6. | Beverages Tea, coffee (Tea) | Moisture | DGHS 2005 | 0.1 to 90 % |
| | | Total ash | (Lab Manual-4) | 0.1 % to 10 % |
| | | Water soluble ash | | 0.1 % to 50 % |
| | | Water extract | | 0.1 % to 50 % |
| | | Alkalinity of water soluble ash | | 0.1 % to 5 % |
| 7. | Bakery products (Biscuits, Chippis) | Moisture | IS1011: 1992 | 0.1 % to 10 % |
| | | Total ash | AOAC 19 th Edition 2012 (40.1.08) | 0.1 % to 10 % |
| | | Fat content | AOAC 19 th Edition 2012 (40.1.05) | 0.1 % to 20 % |
| | | Protein | AOAC 19 th Edition 2012 (40.1.06) | 0.1 % to 20 % |
| | | Carbohydrates | AOAC 19 th Edition 2012 | 10 % to 90 % |
| | | Energy | AOAC 19 th Edition 2012 | 100 Kcal to 1000 Kcal |
| 8. | Sugar & Sugar Products | Moisture | DGHS 2005 | 0.1 % to 10 % |
| | | Total ash | (Lab Manual 4) | 0.05 % to 10 % |
| II. WATER | | | | |
| 1. | Water for Processed Food Industry | Colour | IS 3025: 2002 (Part 4) | 1 to 50 Hazen |
| | | Turbidity | IS 3025: 2002 (Part 10) | 0.2 NTU to 100 NTU |
| | | Odour | IS 3025: 2002 (Part 5) | Qualitative |
| | | pH Value | IS 3025: 2002 (Part 11) | 1 to 14 |

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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 |
|--------------|--|--------------------------------|--|---|
| | Water for Processed Food Industry | Total Dissolved Solids | IS 3025: 2002 (Part 16) | 10 mg/l to 1000 mg/l |
| | | Total hardness | IS 3025: 1998 (Part 21) | 1 mg/l to 1000 mg /l |
| | | Sulphate | IS 3025: 1994 (Part 24) | 10 mg/l to 500 mg/l |
| | | Fluoride | IS 3025: 2008 (Part 60) | 0.1 mg/l to 10 mg/l |
| | | Chloride | IS 3025: 1992 (Part 32) | 2 mg/l to 500 mg /l |
| | | Cyanide | IS 3025: 1992 (Part 27) | 0.01 mg/l to 10 mg/l |
| | | Selenium | IS 3025: 1999 UV Method | 0.01 mg/l to 10 mg/l |
| | | Iron | IS 3025: 2003 (Part 53) AAS | 0.1 mg/l to 10 mg/l |
| | | Magnesium | IS 3025: 1994 (Part 46) | 0.1 mg/l to 1000 mg/l |
| | | Manganese | IS 3025: 2006 (Part 59) | 0.01 mg/l to 10 mg/l |
| | | Copper | IS 3025: 1992 (Part 42) | 0.02 mg/l to 10 mg/l |
| | | Lead | IS 3025: 1994 (Part 47) | 0.01 mg/l to 10 mg/l |
| | | Chromium | Annex J of IS 13428: 1998 | 0.01 mg/l to 10 mg/l |
| | | Zinc | IS 3025: 1994 (Part 49) | 0.1 mg/l to 20 mg /l |
| | | Arsenic | IS 3025: 1992 (Part 37) | 0.01 mg/l to 10 mg/l |
| | | Nitrate | IS 3025 (Part 34) | 0.1 to 500 mg/l |
| | Phenolic Compounds | IS 3025: 1999 (Part 43): 2004 | 0.001 mg/l to 10 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 |
|--------------|--|--------------------------------|--|---|
| | Water for Processed Food Industry | Cadmium | IS 3025: 1998 (Part 41) | 0.01 mg/l to 10 mg/l |
| | | Mercury | IS 3025: 1994 (Part 48) | 0.2 µg/l to 100 µg/l |
| 2. | Packaged Drinking Water | Colour | IS 3025: 2002 (Part 4) | 1 to 10 Hazen |
| | | Odour | IS 3025: 2002 (Part 5) | Qualitative |
| | | Turbidity | IS 3025: 2002 (Part 10) | 0.2 NTU to 100 NTU |
| | | Total dissolved solids | IS 3025: 2002 (Part 16) | 10 mg/l to 1000 mg /l |
| | | pH value | IS 3025: 2002 (Part 11) | 1 to14 |
| | | Barium | IS 13428: 2005 | 0.1 mg/l to10 mg /l |
| | | Copper | IS 3025: 1992 (Part 42) | 0.02 mg/l to 10 mg /l |
| | | Iron | IS 3025: 2003 (Part 53) | 0.1 mg/l to 10 mg /l |
| | | Manganese | IS 3025: 2006 (Part 59) | 0.01 mg/l to 10 mg /l |
| | | Nitrate | IS 3025: 1992 (Part 34) | 0.1 mg/l to 5 mg/l |
| | | Nitrite | IS 3025: 1992 (Part 34) | 0.01 mg/l to 10 mg /l |
| | | Fluoride | IS 3025: 2008 (Part 60) | 0.1 mg/l to 10 mg /l |
| | | Zinc | IS 3025: 1994 (Part 49) | 0.1 mg/l to 10 mg /l |
| | Silver | IS 13428: 2005 | 0.005 mg/l to 100 mg/l | |

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|--------------|-----------------------------------|--------------------------------|--|---|
| | Packaged Drinking Water | Aluminium | IS 3025: 2003 (Part 55) | 0.02 mg/l to 0.3 mg /l |
| | | Chloride | IS 3025: 1992 (Part 32) | 2 mg/l to 500 mg/l |
| | | Selenium | IS 3025: 2003 (Part 56) | 0.01 mg/l to 2 mg /l |
| | | Sulphate | IS 3025: 1994 (Part 24) | 10 mg/l to 500 mg/l |
| | | Alkalinity | IS 3025: 1993 (Part 23) | 0.5 mg/l to 500 mg/l |
| | | Calcium | IS 3025: 1991 (Part 40) | 0.1 mg/l to 100 mg/l |
| | | Magnesium | IS 3025: 1994 (Part 46) | 0.1 mg/l to 100 mg/l |
| | | Sodium | IS 3025: 1993 (Part 45) | 0.1 mg/l to 500 mg/l |
| | | Residual free chlorine | IS 3025: 2001 (Part 26) | 0.1 mg/l to 10 mg/l |
| | | Phenolic Compounds | IS 3025: 2003 (Part 43): 2004 | 0.001 mg/l to 10 mg/l |
| | | Mineral Oil | IS 3025: 1996 (Part 39) | 0.3 mg/l to 10 mg/l |
| | | Anionic surface active agents | IS 13428: 2005 | 0.2 mg/l to 10 mg/l |
| | | Sulfide | IS 3025: 1993 (Part 29) | 0.01 mg/l to 10 mg/l |
| | | Antimony | IS 13428: 1998 | 0.005 mg/l to 10 mg/l |
| | | Borate | IS 13428: 1998 | 0.1 mg/l to 10 mg/l |
| | | Mercury | IS 3025: 1994 (Part 48) | 0.2 µg/l to 100 µg/l |
| | Cadmium | IS 3025: 1998 (Part 41) | 0.01 mg/l to 10 mg/l | |

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|--------------|-----------------------------------|-----------------------------------|--|---|
| | | Arsenic | IS 3025: 1992 (Part 37) | 0.01 mg/l to 10 mg/l |
| | Packaged Drinking Water | Cyanide | IS 3025: 1992 (Part 27) | 0.01 mg/l to 10 mg/l |
| | | Lead | IS 3025: 1994 (Part 47) | 0.01 mg/l to 10 mg/l |
| | | Chromium | Annex J of IS 13428: 1998 | 0.01 mg/l to 10 mg/l |
| | | Nickel | IS 3025 (Part 54): 2003 | 0.01 mg/l to 10 mg/l |
| | | Polychlorinated biphenyl | Annex J of IS 13428: 2005 | 0.5 µg/l to 100 µg/l |
| | | Polynuclear aromatic Hydrocarbons | APHA 21 st Edn. 2005 (6440 B) 1998 | 0.05 µg/l to 100 µg/l |
| | | Pesticide Residues | | |
| | | OP DDT | A.O.A.C. 19 th Edition, 2012 (990.06) | 0.05 µg/l to 100 µg/l |
| | | PP DDT | | 0.05 µg/l to 100 µg/l |
| | | OP DDE | | 0.05 µg/l to 100 µg/l |
| | | PP DDE | | 0.05 µg/l to 100 µg/l |
| | | OP DDD | | 0.05 µg/l to 100 µg/l |
| | | PP DDD | | 0.05 µg/l to 100 µg/l |
| | | Lindane | EPA 525.2 using PFPD | 0.05 µg/l to 100 µg/l |
| | Alpha BHC | | 0.05 µg/l to 100 µg/l | |
| | Beta BHC | | 0.05 µg/l to 100 µg/l | |

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|--------------|-----------------------------------|--------------------------------|--|---|
| | Packaged Drinking Water | Delta BHC | | 0.05 µg/l to 100 µg/l |
| | | Alpha Endosulfan | | 0.05 µg/l to 100 µg/l |
| | | Beta Endosulfan | | 0.05 µg/l to 100 µg/l |
| | | Endosulfan sulphate | | 0.05 µg/l to 100 µg/l |
| | | Aldrin | | 0.05 µg/l to 100 µg/l |
| | | Dieldrin | | 0.05 µg/l to 100 µg/l |
| | | Chlorpyrifos | | 0.05 µg/l to 100 µg/l |
| | | Butachlor | | 0.05 µg/l to 100 µg/l |
| | | Alachlor | | 0.05 µg/l to 100 µg/l |
| | | Atrazine | | 0.05 µg/l to 100 µg/l |
| | | Methyl Parathion | | 0.05 µg/l to 100 µg/l |
| | | Methyl Paraoxon | | 0.05 µg/l to 100 µg/l |
| | | Monocrotophos | | 0.05 µg/l to 100 µg/l |
| | | Phorate | | 0.05 µg/l to 100 µg/l |
| | | Phorate Sulphone | | 0.05 µg/l to 100 µg/l |
| | Phorate Sulphoxide | | 0.05 µg/l to 100 µg/l | |
| | Ethion | | 0.05 µg/l to 100 µg/l | |

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|--------------|-----------------------------------|--------------------------------|--|---|
| | | Malathion | | 0.05 µg/l to 100 µg/l |
| | | Malaoson | | 0.05 µg/l to 100 µg/l |
| | Packaged Drinking Water | | | |
| | Packaged Drinking Water | 2,4,D | A.O.A.C. 19 th Edition, 2012 (992.32) | 0.05 µg/l to 100 µg/l |
| | | Isoproturon | EPA - 532 | 0.05 µg/l to 100 µg/l |
| 3. | Drinking Water | Colour | IS 3025: 2002 (Part 4) | 1 to 10 Hazen |
| | | Odour | IS 3025: 2002 (Part 5) | Qualitative |
| | | Turbidity | IS 3025: 2002 (Part 10) | 0.2 NTU to 100 NTU |
| | | Total dissolved solids | IS 3025: 2002 (Part 16) | 10 mg /l to 1000 mg /l |
| | | pH value | IS 3025: 2002 (Part 11) | 1 to 14 |
| | | Total Hardness | IS 3025 (Part 21): 1996 | 1.00 mg/l to 1000 mg /l |
| | | Copper | IS 3025: 1992 (Part 42) | 0.02 mg/l to 10 mg /l |
| | | Iron | IS 3025: 2003 (Part 53) | 0.1 mg/l to 10 mg /l |
| | | Manganese | IS 3025: 2006 (Part 59) | 0.01 mg/l to 10 mg /l |
| | | Nitrate | IS 3025: 1992 (Part 34) | 0.1 mg/l to 5 mg/l |
| | | Boron | IS 3025 (Part 57): 2003 | 0.2 mg/l to 2.0 mg /l |
| | | Fluoride | IS 3025 (Part 60): 2008 | 0.1 mg/l to 10 mg /l |

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|--------------|-----------------------------------|--------------------------------|--|---|
| | | Zinc | IS 3025 (Part 49): 1994 | 0.1 mg/l to 10 mg /l |
| | Drinking Water | Aluminium Chloride | IS 3025 (Part 55): 2003 IS 3025 (Part 32): 1992 | 0.02 mg/l to 0.3 mg /l 2 mg/l to 500 mg/l |
| | | Selenium | IS 3025 (Part 56): 2003 | 0.01 mg/l to 2 mg /l |
| | | Sulphate | IS 3025 (Part 24): 1994 | 10 mg/l to 500 mg/l |
| | | Alkalinity | IS 3025 (Part 23): 1993 | 0.5 mg/l to 500 mg/l |
| | | Calcium | IS 3025 (Part 40): 1991 | 0.1 mg/l to 100 mg/l |
| | | Magnesium | IS 3025 (Part 46): 1994 | 0.1 mg/l to 100 mg/l |
| | | Residual free chlorine | IS 3025 (Part 26): 2001 | 0.1 mg/l to 10 mg/l |
| | | Phenolic Compounds | IS 3025 (Part 43): 2003 | 0.001 mg/l to 10 mg/l |
| | | Mineral Oil | IS 3025 (Part 39): 1996 | 0.01 mg/l to 10 mg/l |
| | | Anionic surface active agents | IS 13428: 2005 | 0.2 mg/l to 10 mg/l |
| | | Mercury | IS 3025 (Part 48): 1994 | 0.2 µg/l to 100 µg/l |
| | | Cadmium | IS 3025 (Part 41): 1998 | 0.01 mg/l to 10 mg/l |
| | | Arsenic | IS 3025 (Part 37): 1992 | 0.01 mg/l to 10 mg/l |
| | | Cyanide | IS 3025 (Part 27): 1992 | 0.01 mg/l to 10 mg/l |
| | | Lead | IS 3025 (Part 47): 1994 | 0.01 mg/l to 10 mg/l |
| | | Chromium | IS 3025 (Part 52): 2003 | 0.01 mg/l to 10 mg/l |

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|--------------|-----------------------------------|--|--|---|
| | Drinking Water | Polynuclear aromatic Hydrocarbons Pesticide Residues | APHA 21 st Edn. 2005 (6440 B), 1998 A.O.A.C. International 19 th Edition, 2012 (990.06) | 0.5 µg/l to 100 µg/l |
| | | OP DDT | | 0.05 µg/l to 100 µg/l |
| | | PP DDT | | 0.05 µg/l to 100 µg/l |
| | | OP DDE | | 0.05 µg/l to 100 µg/l |
| | | PP DDE | | 0.05 µg/l to 100 µg/l |
| | | OP DDD | | 0.05 µg/l to 100 µg/l |
| | | PP DDD | | 0.05 µg/l to 100 µg/l |
| | | Lindane | | 0.05 µg/l to 100 µg/l |
| | | Alpha BHC | | 0.05 µg/l to 100 µg/l |
| | | Beta BHC | | 0.05 µg/l to 100 µg/l |
| | | Delta BHC | | 0.05 µg/l to 100 µg/l |
| | | Alpha Endosulfan | | 0.05 µg/l to 100 µg/l |
| | | Beta Endosulfan | | 0.05 µg/l to 100 µg/l |
| | | Endosulfan sulphate | | 0.05 µg/l to 100 µg/l |
| | | Aldrin | | 0.05 µg/l to 100 µg/l |
| | | Dieldrin | | 0.05 µg/l to 100 µg/l |

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|--------------|-----------------------------------|--------------------------------|--|---|
| | Drinking Water | Chlorpyrifos | EPA 525.2 using PFPD | 0.05 µg/l to 100 µg/l |
| | | Butachlor | | 0.05 µg/l to 100 µg/l |
| | | Alachlor | | 0.05 µg/l to 100 µg/l |
| | | Atrazine | | 0.05 µg/l to 100 µg/l |
| | | Methyl Parathion | | 0.05 µg/l to 100 µg/l |
| | | Methyl Paraoxon | | 0.05 µg/l to 100 µg/l |
| | | Monocrotophos | | 0.05 µg/l to 100 µg/l |
| | | Phorate | | 0.05 µg/l to 100 µg/l |
| | | Phorate Sulphone | | 0.05 µg/l to 100 µg/l |
| | | Phorate Sulphoxide | | 0.05 µg/l to 100 µg/l |
| | | Ethion | | 0.05 µg/l to 100 µg/l |
| | | Malathion | | 0.05 µg/l to 100 µg/l |
| | | Malaaxon | | 0.05 µg/l to 100 µg/l |
| | | 2,4,D | A.O.A.C. 19 th Edition, 2012 (992.32) | 0.05 µg/l to 100 µg/l |
| | | Isoproturon | EPA - 532 | 0.05 µg/l to 100 µg/l |
| | Barium | IS 13428: 2005 | 0.1 mg/l to 10 mg/l | |
| | Sulfide | IS 3025 (Part 29): 1993 | 0.01 mg/l to 10 mg/l | |

Laboratory C.E.P.C. Laboratory & Technical Division (The Cashew Export Promotion Council of India), Cashew Bhavan, Mundakkal, Kollam, Kerala

Accreditation Standard ISO/IEC 17025: 2005

Discipline Chemical Testing **Issue Date** 02.01.2015

Certificate Number T-0325 **Valid Until** 01.01.2017

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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 |
|-------|----------------------------|----------------------------|---|--|
| | | Silver | IS 13428: 2005 | 0.005 mg/l to 100 mg/l |
| | Drinking Water | Nickel | IS 13428: 1998 | 0.01 mg/l to 10 mg/l |
| | | Poly chlorinated biphenyls | Annex – J of IS 13428 | 0.5 µg/l to 100 µg/l |
| | | Ammonia | IS3025 (Part 34): 1984 | 0.1 mg/l to 2 mg/l |
| | | Chloramines | IS 3025 (Part 26): 1984 | 0.1 mg/l to 10 mg/l |

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