# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** NATIONAL AGRO FOUNDATION - LABORATORY SERVICES DIVISION, RESEARCH & DEVELOPMENT CENTRE, ANNA UNIVERSITY TARMANI CAMPUS, CSIR ROAD, TARAMANI, CHENNAI, TAMIL NADU, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** TC-8349 **Page No** 1 of 29

**Validity** 15/02/2022 to 14/02/2024 **Last Amended on** 10/05/2022

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| Permanent Facility | | | | |
| 1 | CHEMICAL- FERTILIZERS | Organic Fertiliser, City Compost, Vermicompost, Phosphate Rich Organic Manure, Organic Manure, Non Edible Deoiled cake Fertiliser, Castor Oil Cake Fertiliser, Cow Dung Manure, Vermiwash, Panchakavya | C:N Ratio | Biofertilizers and Organic Fertilizers in Fertilizer (Control) Order, Schedule IV-Part D |
| 2 | CHEMICAL- FERTILIZERS | Organic Fertiliser, City Compost, Vermicompost, Phosphate Rich Organic Manure, Organic Manure, Non Edible Deoiled cake Fertiliser, Castor Oil Cake Fertiliser, Cow Dung Manure, Vermiwash, Panchakavya | Odour | Biofertilizers and Organic Fertilizers in Fertilizer (Control) Order, Schedule IV-Part D |
| 3 | CHEMICAL- FERTILIZERS | Organic Fertiliser, City Compost, Vermicompost, Phosphate Rich Organic Manure, Organic Manure, Non Edible Deoiled cake Fertiliser, Castor Oiled Cake Fertiliser, Cow dung manure, Vermiwash, Panchakavya | Total Organic Carbon | Biofertilizers and Organic Fertilizers in Fertilizer (Control) Order, Schedule IV-Part D |
| 4 | CHEMICAL- FERTILIZERS | Organic Fertiliser, City Compost, Vermicompost, Phosphate Rich Organic Manure, Organic Manure, Non Edible Deoiled cake Fertiliser, Castor Oiled Cake Cake Fertiliser, | Bulk Density | Biofertilizers and Organic Fertilizers in Fertilizer (Control) Order, Schedule IV-Part D |
| 5 | CHEMICAL- FERTILIZERS | Organic Fertiliser, City Compost, Vermicompost, Phosphate Rich Organic Manure, Organic Manure, Non Edible Deoiled cake Fertiliser, Castor Oiled Cake Fertiliser | Particle Size | Biofertilizers and Organic Fertilizers in Fertilizer (Control) Order, Schedule IV-Part D |
| 6 | CHEMICAL- FERTILIZERS | Organic Fertiliser, City Compost, Vermicompost, Phosphate Rich Organic Manure, Organic Manure, Non Edible Deoiled cake Fertiliser, Castor Oiled Cake Fertiliser, Cow dung manure, Vermiwash, Panchakavya | pH | Biofertilizers and Organic Fertilizers in Fertilizer (Control) Order, Schedule IV-Part D |
| 7 | CHEMICAL- FERTILIZERS | Organic Fertiliser, City Compost, Vermicompost, Phosphate Rich Organic Manure, Organic Manure, Non Edible Deoiled cake Fertiliser, Castor Oiled Cake Fertiliser, Cow dung manure,Panchakavya, Vermiwash | Cadmium (as Cd) | Biofertilizers and Organic Fertilizers in Fertilizer (Control) Order, Schedule IV-Part D |
| 8 | CHEMICAL- FERTILIZERS | Organic Fertiliser, City Compost, Vermicompost, Phosphate Rich Organic Manure, Organic Manure, Non Edible Deoiled cake Fertiliser, Castor Oiled Cake Fertiliser, Cow Dung Manure, Panchakavya, Vermiwash | Chromium (as Cr) | Biofertilizers and Organic Fertilizers in Fertilizer (Control) Order, Schedule IV-Part D |
| 9 | CHEMICAL- FERTILIZERS | Organic Fertiliser, City Compost, Vermicompost, Phosphate Rich Organic Manure, Organic Manure, Non Edible Deoiled cake Fertiliser, Castor Oiled Cake Fertiliser, Cow Dung Manure, Panchakavya, Vermiwash | Copper (as Cu) | Biofertilizers and Organic Fertilizers in Fertilizer (Control) Order, Schedule IV-Part D |
| 10 | CHEMICAL- FERTILIZERS | Organic Fertiliser, City Compost, Vermicompost, Phosphate Rich Organic Manure, Organic Manure, Non Edible Deoiled cake Fertiliser, Castor Oiled Cake Fertiliser, Cow Dung Manure, Panchakavya, Vermiwash | Lead (as Pb) | Biofertilizers and Organic Fertilizers in Fertilizer (Control) Order, Schedule IV-Part D |
| 11 | CHEMICAL- FERTILIZERS | Organic Fertiliser, City Compost, Vermicompost, Phosphate Rich Organic Manure, Organic Manure, Non Edible Deoiled cake Fertiliser, Castor Oiled Cake Fertiliser, Cow Dung Manure, Panchakavya, Vermiwash | Nickel (as Ni) | Biofertilizers and Organic Fertilizers in Fertilizer (Control) Order, Schedule IV-Part D |

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**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** TC-8349 **Page No** 2 of 29

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| 12 | CHEMICAL- FERTILIZERS | Organic Fertiliser, City Compost, Vermicompost, Phosphate Rich Organic Manure, Organic Manure, Non Edible Deoiled cake Fertiliser, Castor Oiled Cake Fertiliser, Cow Dung Manure, Panchakavya, Vermiwash | Zinc (as Zn) | Biofertilizers and Organic Fertilizers in Fertilizer (Control) Order, Schedule IV-Part D |
| 13 | CHEMICAL- FERTILIZERS | Organic Fertiliser, City Compost, Vermicompost, Phosphate Rich Organic Manure, Organic Manure, Non Edible Deoiled cake Fertiliser, Castor Oiled Cake Fertiliser, Cow dung manure, Vermiwash, Panchakavya | Electrical Conductivity | Biofertilizers and Organic Fertilizers in Fertilizer (Control) Order, Schedule IV-Part D |
| 14 | CHEMICAL- FERTILIZERS | Organic Fertiliser, City Compost, Vermicompost, Phosphate Rich Organic Manure, Organic Manure, Non Edible Deoiled cake Fertiliser, Castor Oiled Cake Fertiliser, Cow dung manure, Vermiwash, Panchakavya | Total Potash as K2O | Biofertilizers and Organic Fertilizers in Fertilizer (Control) Order, Schedule IV-Part D |
| 15 | CHEMICAL- FERTILIZERS | Organic Fertiliser, City Compost, Vermicompost, Phosphate Rich Organic Manure, Organic Manure, Non Edible Deoiled cake Fertiliser, Castor Oiled Cake Fertiliser, Cow dung manure,Vermiwash, Panchakavya | Total Phosphates (as P2O5) | Biofertilizers and Organic Fertilizers in Fertilizer (Control) Order, Schedule IV-Part D |
| 16 | CHEMICAL- FERTILIZERS | Organic Fertiliser, City Compost, Vermicompost, Phosphate Rich Organic Manure, Organic Manure, Non Edible Deoiled cake Fertiliser, Castor Oiled Cake Fertiliser, Organic Manure, Panchakavya | Colour | Biofertilizers and Organic Fertilizers in Fertilizer (Control) Order, Schedule IV-Part D |
| 17 | CHEMICAL- FERTILIZERS | Organic Fertiliser, City Compost, Vermicompost, Phosphate Rich Organic Manure, Organic Manure, Non Edible Deoiled cake Fertiliser, Castor Oiled Cake Fertiliser, Panchakavya, Vermiwash | Moisture | Biofertilizers and Organic Fertilizers in Fertilizer (Control) Order, Schedule IV-Part D |
| 18 | CHEMICAL- FERTILIZERS | Organic Fertiliser, City Compost, Vermicompost, Phosphate Rich Organic Manure, Organic Manure, Non Edible Deoiled cake Fertiliser, Castor Oiled Cake Fertiliser, Panchakavya, Vermiwash | Total Nitrogen | Biofertilizers and Organic Fertilizers in Fertilizer (Control) Order, Schedule IV-Part D |
| 19 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | All baked food products, fried food products, breakfast cereals, soup mixes and dairy products | Mono Unsaturated Fat | FSSAI Manual of Methods of Analysis of Foods - Oils and Fats |
| 20 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | All baked food products, fried food products, breakfast cereals, soup mixes and dairy products | Poly Unsaturated Fat | FSSAI Manual of Methods of Analysis of Foods - Oils and Fats |
| 21 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | All baked food products, fried food products, breakfast cereals, soup mixes and dairy products | Saturated Fat | FSSAI Manual of Methods of Analysis of Foods - Oils and Fats |
| 22 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | all whole spices and condiments | Insect damaged matter | IS 1797 |
| 23 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Atta, Maida, Suji, Rawa, corn flour, custard powder | Energy Value | NAF-3 Lab Manual – SOP009, Issue No:02, dt. 05.01.2022 |

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| 24 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Atta, Maida, Suji, Rawa, corn flour, custard powder | Acid Insoluble Ash | IS:1009 |
| 25 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Atta, Maida, Suji, Rawa, corn flour, custard powder | Alcoholic Acidity | IS: 1009 |
| 26 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Atta, Maida, Suji, Rawa, corn flour, custard powder | Carbohydrate | NAF-3 Lab Manual – SOP001, Issue No:02, dt. 05.01.2022 |
| 27 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Atta, Maida, Suji, Rawa, corn flour, custard powder | Crude Fibre | IS: 1155 |
| 28 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Atta, Maida, Suji, Rawa, corn flour, custard powder | Damaged Grains | FSSAI Manual of Methods Sec 1.1-Cereal and Cereal Products |
| 29 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Atta, Maida, Suji, Rawa, corn flour, custard powder | Fat | IS 1155 |
| 30 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Atta, Maida, Suji, Rawa, corn flour, custard powder | Insect Damaged Matter | FSSAI Manual of Methods Sec 1.1-Cereal and Cereal Products |
| 31 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Atta, Maida, Suji, Rawa, corn flour, custard powder | Moisture | IS: 1009 |
| 32 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Atta, Maida, Suji, Rawa, corn flour, custard powder | Other Edible Grains | FSSAI Manual of Methods Sec 1.1-Cereal and Cereal Products |
| 33 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Atta, Maida, Suji, Rawa, corn flour, custard powder | Protein | FSSAI Manual of Methods of Analysis of Foods - S.No.8.7 Cereal and Cereal Products 2016 / IS 4684 |
| 34 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Atta, Maida, Suji, Rawa, corn flour, custard powder | Total Ash | IS: 1009 |
| 35 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Atta, Maida, Suji, Rawa, corn flour, custard powder | Weevilled Grains | FSSAI Manual of Methods Sec 1.1-Cereal and Cereal Products |
| 36 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Baby Foods, Infant Milk food, Infant formula, Milk-cereal based complementary food, Processed cereal based complementary food/Weaning food/Supplementary food | Calcium | AOAC Official Methods of Analysis 19th Edition 999.11 |

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| 37 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Baby Foods, Infant Milk food, Infant formula, Milk-cereal based complementary food, Processed cereal based complementary food/Weaning food/Supplementary food | Copper | AOAC Official Methods of Analysis 19th Edition 999.11 |
| 38 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Baby Foods, Infant Milk food, Infant formula, Milk-cereal based complementary food, Processed cereal based complementary food/Weaning food/Supplementary food | Iron | AOAC Official Methods of Analysis 19th Edition 999.11 |
| 39 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Baby Foods, Infant Milk food, Infant formula, Milk-cereal based complementary food, Processed cereal based complementary food/Weaning food/Supplementary food | Magnesium | AOAC Official Methods of Analysis 19th Edition 999.11 |
| 40 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Baby Foods, Infant Milk food, Infant formula, Milk-cereal based complementary food, Processed cereal based complementary food/Weaning food/Supplementary food | Manganese | AOAC Official Methods of Analysis 19th Edition 999.11 |
| 41 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Baby Foods, Infant Milk food, Infant formula, Milk-cereal based complementary food, Processed cereal based complementary food/Weaning food/Supplementary food | Phosphorus | AOAC Official Methods of Analysis 18th Edition 995.11 |
| 42 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Baby Foods, Infant Milk food, Infant formula, Milk-cereal based complementary food, Processed cereal based complementary food/Weaning food/Supplementary food | Potassium | AOAC Official Methods of Analysis 19th Edition 999.11 |
| 43 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Baby Foods, Infant Milk food, Infant formula, Milk-cereal based complementary food, Processed cereal based complementary food/Weaning food/Supplementary food | Sodium | AOAC Official Methods of Analysis 19th Edition 999.11 |
| 44 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Baby Foods, Infant Milk food, Infant formula, Milk-cereal based complementary food, Processed cereal based complementary food/Weaning food/Supplementary food | Zinc | AOAC Official MEthods of Analysis 19th Edition |
| 45 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bakery Products | Acid Insoluble ash | IS: 12711 Sr.No:7.0 |
| 46 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bakery Products | Alcoholic Acidity | Sr.No:14.0 ; IS: 12711 |
| 47 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bakery Products | Carbohydrate | NAF-3 Lab Manual – SOP001, Issue No:02, dt. 05.01.2022 |
| 48 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bakery Products | Crude Fibre | Sr.No:13.0 ; IS: 12711 |
| 49 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bakery Products | Energy Value | NAF-3 Lab Manual – SOP009, Issue No:02, dt. 05.01.2022 |
| 50 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bakery Products | Extracted Fat | Sr.No:10.0 ; IS: 12711 |

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| 51 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bakery Products | Moisture | Sr.No:5.0 ; IS: 12711 |
| 52 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bakery Products | Protein | FSSAI Manual of Methods of Analysis of Foods – S.No.8.7 Cereal and Cereal Products, 2016 /IS 4684 |
| 53 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bakery Products | Total Ash | Sr.No:6.0 ; IS: 12711 |
| 54 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bakery Products | Total Solids | Sr.No:8.0 ; IS: 12711 |
| 55 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Biscuits, cakes, chips, wafers, pastry, brownie, muffin | Calcium | AOAC Official Methods of Analysis 19th Edition 999.11 |
| 56 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Biscuits, cakes, chips, wafers, pastry, brownie, muffin | Copper | AOAC Official Methods of Analysis 19th Edition 999.11 |
| 57 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Biscuits, cakes, chips, wafers, pastry, brownie, muffin | Iron | AOAC Official Methods of Analysis 19th Edition 999.11 |
| 58 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Biscuits, cakes, chips, wafers, pastry, brownie, muffin | Magnesium | AOAC Official Methods of Analysis 19th Edition 999.11 |
| 59 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Biscuits, cakes, chips, wafers, pastry, brownie, muffin | Manganese | AOAC Official Methods of Analysis 19th Edition 999.11 |
| 60 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Biscuits, cakes, chips, wafers, pastry, brownie, muffin | Phosphorus | AOAC Official Methods of Analysis 18th Edition 995.11 |
| 61 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Biscuits, cakes, chips, wafers, pastry, brownie, muffin | Potassium | AOAC Official Methods of Analysis 19th Edition 999.11 |
| 62 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Biscuits, cakes, chips, wafers, pastry, brownie, muffin | Sodium | AOAC Official Methods of Analysis 19th Edition 999.11 |
| 63 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Biscuits, cakes, chips, wafers, pastry, brownie, muffin | Synthetic Colour | FSSAI Manual of Methods of Analysis of Foods: S.No 18.3 Ceral and Ceral Products |

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| 64 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Biscuits, cakes, chips, wafers, pastry, brownie, muffin | Zinc | AOAC Official Methods of Analysis 19th Edition 999.11 |
| 65 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bread, bun, khari, toast, cookies, rusk | Synthetic Colour | FSSAI Manual of Methods of Analysis of Foods: S.No 18.3 Ceral and Ceral Products |
| 66 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Candy, lolly, chewing gum, logenze, chocolate | Synthetic Colour | FSSAI Manual of Methods of Analysis of Foods: S.No 18.3 Ceral and Ceral Products |
| 67 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Cereal and Millet Mixes, Sweets and Savories, Spice based Products and Mixes | Carbohydrate | NAF-3 Lab Manual – SOP001, Issue No:02, dt. 05.01.2022 |
| 68 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Cereal and Millet Mixes, Sweets and Savories, Spice based Products and Mixes | Extracted Fat | IS: 4684 |
| 69 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Cereal and Millet Mixes, Sweets and Savories, Spice based Products and Mixes | Protein | FSSAI Manual of Methods of Analysis of Foods – S.No.8.7 Cereal and Cereal Products |
| 70 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Cereal and Millet Mixes, Sweets and Savories, Spice based Products and Mixes | Total Ash | IS:1155 |
| 71 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Cereal and Millet Mixes, Sweets and Savories, Spice based Products and Mixes | Total Fat | AOAC, Ch-32, 922-06,19th Edition |
| 72 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Cereal and Millet Mixes, Sweets and Savouries, Spice based Products and Mixes | Energy Value | NAF-3 Lab Manual – SOP009, Issue No:02, dt. 05.01.2022 |
| 73 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Cereal and Millet Mixes, Sweets and Savouries, Spice based Products and Mixes | Moisture | FSSAI Manual of Methods of analysis of Foods - S.No 2.0 ;S.No 14.3 Cereal and cereal products 2016 / S.No 3.0 Spices and Condiments 2016 / S.No A.2 Sugar and Sugar Products |
| 74 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Chillies, Capsicum(Lal Mirchi) – powder and whole | Capsaicin | AOAC 19th Edition Method 995.03 |
| 75 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Chilly powder | Capsaicin | AOAC 19th Edition Method 995.03 |

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| 76 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Chocolate | Carbohydrate | NAF-3 Lab Manual – SOP001, Issue No:02, dt. 05.01.2022 |
| 77 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Chocolate | Cocoa Solids | FSSAI Manual of Methods of Analysis of Foods - Beverages, Sugar and Sugar Products & Confectionary Products |
| 78 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Chocolate | Energy | NAF-3 Lab Manual – SOP009, Issue No:02, dt. 05.01.2022 |
| 79 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Chocolate | Moisture | FSSAI Manual of Methods of analysis of Foods - Beverages, Sugar and Sugar Products & Confectionary Products |
| 80 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Chocolate | Protein | FSSAI Manual of Methods of Analysis of Foods - Beverages, Sugar and Sugar Products & Confectionary Products |
| 81 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Chocolate | Total Ash | FSSAI Manual of Methods of Analysis of Foods - Beverages, Sugar and Sugar Products & Confectionary Products |
| 82 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Chocolate | Total Fat | FSSAI Manual of Methods of Analysis of Foods - Beverages, Sugar and Sugar Products & Confectionary Products |
| 83 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Cocoa Drink Powder, Beverages | Water Soluble Ash | Analysis of Beverages, DGHS Manual |
| 84 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Cocoa Powder | Caffeine | In house Validated Method NAF-3 Lab Manual – SOP007, Issue No:02, dt. 05.01.2022 |
| 85 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Coffee (roasted, ground, Instant & Soluble Coffee Powder) | Acid insoluble ash | Analysis of Beverages, DGHS Manual |
| 86 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Coffee (roasted, ground, Instant & Soluble Coffee Powder) | Alkalinity of soluble ash | Analysis of Beverages, DGHS Manual |
| 87 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Coffee (roasted, ground, Instant & Soluble Coffee Powder) | Aqueous Extract | Analysis of Beverages, DGHS Manual |

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| 88 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Coffee (roasted, ground, Instant & Soluble Coffee Powder) | Caffeine | In house Validated Method NAF-3 Lab Manual – SOP007, Issue No:02, dt. 05.01.2022 |
| 89 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Coffee (roasted, ground, Instant & Soluble Coffee Powder) | Total Ash | Analysis of Beverages, DGHS Manual |
| 90 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Coffee (roasted, ground, Instant & Soluble Coffee Powder) | Water Soluble ash | Analysis of Beverages, DGHS Manual |
| 91 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Coffee Drink Powder, Beverages | Caffeine | In house Validated Method NAF-3 Lab Manual – SOP007, Issue No:02, dt. 05.01.2022 |
| 92 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Coffee Drink Powder, Beverages | Moisture | Analysis of Beverages, DGHS Manual |
| 93 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Edible oils | Acid Value | FSSAI Manual of Methods of analysis of Foods S.No. 12.0 Oil and Fats |
| 94 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Edible oils | Iodine Value | FSSAI Manual of Methods of analysis of Foods S.No. 13.0 Oil and Fats |
| 95 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Edible oils | Moisture | FSSAI Manual of Methods of analysis of Foods S.No. 4.0 Oil and Fats |
| 96 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Edible oils | Saponification Value | FSSAI Manual of Methods of analysis of Foods S.No. 10.0 Oil and Fats |
| 97 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Edible Oils | Unsaponifiable Matter | FSSAI Manual of Methods of analysis of Foods S.No. 11.0 Oil and Fats |
| 98 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Edible oils and fat | Poly Unsaturated Fat | FSSAI Manual of Methods of Analysis of Foods |
| 99 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Edible oils and fats | Mono Unsaturated Fat | FSSAI Manual of Methods of Analysis of Foods |
| 100 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Edible oils and fats | Saturated Fat | FSSAI Manual of Methods of Analysis of Foods - Oils and Fats |
| 101 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Edible oils and fats | Specific Gravity | FSSAI Manual of Methods of analysis of Foods - Oils and Fats |

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|---|---|---|---|---|
| 102 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Food Grains, Cereals, Pulses and (Whole and ground) | Acid Insoluble Ash | FSSAI Manual of Methods of Analysis of Foods - S.No:8.3 Cereal & Cereal Products |
| 103 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Food Grains, Cereals, Pulses and (Whole and ground) | Carbohydrate | NAF-3 Lab Manual – SOP001, Issue No:02, dt. 05.01.2022 |
| 104 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Food Grains, Cereals, Pulses and (Whole and ground) | Crude Fibre | FSSAI Manual of Methods of analysis of Foods - Cereal and cereal products |
| 105 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Food Grains, Cereals, Pulses and (Whole and ground) | Energy | NAF-3 Lab Manual – SOP009, Issue No:02, dt. 05.01.2022 |
| 106 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Food Grains, Cereals, Pulses and (Whole and ground) | Fat | FSSAI Manual of Methods of analysis of Foods - Cereal and cereal products |
| 107 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Food Grains, Cereals, Pulses and (Whole and ground) | Moisture | FSSAI Manual of Methods of Analysis of Foods - S.No:2.0 Cereal & Cereal Products |
| 108 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Food Grains, Cereals, Pulses and (Whole and ground) | Protein | FSSAI Manual of Methods of Analysis of Foods - S.No:8.7 Cereal & Cereal Products. 2016 IS 4684 |
| 109 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Food Grains, Cereals, Pulses and (Whole and ground) | Total Ash | FSSAI Manual of Methods of Analysis of Foods - S.No:8.2 Cereal & Cereal Products |
| 110 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Honey | 5-Hydroxymethylfurfural (HMF) | FSSAI Manual of methods of analysis of foods- Beverages sugar and sugar products and confectionary. |
| 111 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Honey | Acidity as Formic Acid | FSSAI Manual of Methods of analysis of Foods S.No. 6.8 Beverages Sugar and Sugar Products and Confectionary Products |
| 112 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Honey | Aldose | FSSAI Manual of Methods of analysis of Foods S.No. 6.4 Beverages Sugar and Sugar Products and Confectionary Products |
| 113 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Honey | Appearance | FSSAI Manual of Method s of analysis of Foods Beverages Sugar and Sugar Product and Confectionary Product |

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|---|---|---|---|---|
| 114 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Honey | F/G Ratio | FSSAI Manual of Methods of analysis of Foods S.No. 6.6.1 Beverages Sugar and Sugar Products and Confectionary Products |
| 115 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Honey | Fiehe's Test | FSSAI Manual of Methods of analysis of Foods S.No. 6.6.1 Beverages Sugar and Sugar Products and Confectionary Products |
| 116 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Honey | Moisture | FSSAI Manual of Methods of analysis of Foods S.No. 6.2.2 Beverages Sugar and Sugar Products and Confectionary Products |
| 117 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Honey | Reducing Sugars | FSSAI Manual of Methods of analysis of Foods S.No. 6.4 Beverages Sugar and Sugar Products and Confectionary Products |
| 118 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Honey | Specific Gravity | FSSAI Manual of Method s of analysis of Foods Beverages Sugar and Sugar Product and Confectionary Product |
| 119 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Honey | Sucrose | FSSAI Manual of Methods of analysis of Foods S.No. 6.4 Beverages Sugar and Sugar Products and Confectionary Products |
| 120 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Honey | Total Ash | FSSAI Manual of Methods of analysis of Foods S.No. 6.7Beverages Sugar and Sugar Products and Confectionary Products |
| 121 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Honey | Total Reducing Sugars | FSSAI Manual of Methods of analysis of Foods S.No. 6.4 Beverages Sugar and Sugar Products and Confectionary Products |
| 122 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Jaggery | Acid Insoluble Ash | FSSAI Manual of Methods of analysis of Foods S.No. 9.4 Beverages Sugar and Sugar Products and Confectionary Products |

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|---|---|---|---|---|
| 123 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Jaggery | Extraneous matter and water insoluble matter | FSSAI Manual of Methods of analysis of Foods S.No. 9.2 Beverages Sugar and Sugar Products and Confectionary Products |
| 124 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Jaggery | Moisture | FSSAI Manual of Methods of analysis of Foods S.No. 9.1 Beverages Sugar and Sugar Products and Confectionary Products |
| 125 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Jaggery | Reducing Sugar | FSSAI Manual of Methods of analysis of Foods S.No. 6.4 Beverages Sugar and Sugar Products and Confectionary Products |
| 126 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Jaggery | Sucrose | FSSAI Manual of Methods of analysis of Foods S.No. 6.4 Beverages Sugar and Sugar Products and Confectionary Products |
| 127 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Jaggery | Sulphated Ash | FSSAI Manual of Methods of analysis of Foods S.No. 10.0 Beverages Sugar and Sugar Products and Confectionary Products |
| 128 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Jaggery | Total Sugars | FSSAI Manual of Methods of analysis of Foods S.No. 6.4 Beverages Sugar and Sugar Products and Confectionary Products |
| 129 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Juice | Acesulfame K | FSSAI Manual of Methods of analysis of Foods - Food Additives |
| 130 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Juice | Aspartame | FSSAI Manual of Methods of Analysis of Foods - Food Additives |
| 131 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Juice | Benzoic Acid | FSSAI Manual of Methods of analysis of foods Food Additives |
| 132 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Juice | Sodium Saccharin | FSSAI Manual of Methods of Analysis of Foods - Food Additives |

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|---|---|---|---|---|
| 133 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Juice | Sorbic Acid | FSSAI Manual of Methods of analysis of Foods - Food Additives |
| 134 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Ketchup | Acesulfame K | Inhouse Validated Method NAF-3 Lab Manual – SOP003, Issue No:02, dt. 05.01.2022 |
| 135 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Ketchup | Aspartame | Inhouse Validated Method NAF-3 Lab Manual – SOP003, Issue No:02, dt. 05.01.2022 |
| 136 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Ketchup | Benzoic Acid | Inhouse Validated Method NAF-3 Lab Manual – SOP002, Issue No:02, dt. 05.01.2022 |
| 137 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Ketchup | Sodium Saccharin | Inhouse Validated Method NAF-3 Lab Manual – SOP003, Issue No:02, dt. 05.01.2022 |
| 138 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Ketchup | Sorbic Acid | Inhouse Validated Method NAF-3 Lab Manual – SOP002, Issue No:02, dt. 05.01.2022 |
| 139 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed | Carbohydrate | NAF-3 Lab Manual – SOP001, Issue No:02, dt. 05.01.2022 |
| 140 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed | Energy | NAF-3 Lab Manual – SOP009, Issue No:02, dt. 05.01.2022 |
| 141 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed | Protein | FSSAI Manual of Methods of Analysis of Foods Milk and Milk Products |
| 142 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed | Total Ash | FSSAI Manual of Methods of Analysis of Foods Milk and Milk Products |
| 143 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Liquid Milk: Raw/Sterilized/Pasteurized/Flavored/Toned/Double Toned/Standardized/ Recombined/Condensed/Sweetened/Full cream/Skimmed/Evaporated/Sweetened Condensed | Total Fat | FSSAI Manual of Methods of Analysis of Foods Milk and Milk Products |

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|---|---|---|---|---|
| 144 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Milk | Fat | FSSAI Manual of Methods of Analysis of Foods - S.No.1.3.4.2 Milk and Milk Products |
| 145 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Milk | Solid Not Fat | FSSAI Manual of Methods of Analysis of Foods - S.No.1.3.3 Milk and Milk Products |
| 146 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Milk | Total Solids | FSSAI Manual of Methods of Analysis of Foods – S.No.1.3.3 Milk and Milk Products |
| 147 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Non-alcoholic (carbonated water and drinks) | Acesulfame K | Inhouse Validated Method NAF-3 Lab Manual – SOP003, Issue No:02, dt. 05.01.2022 |
| 148 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Non-alcoholic (carbonated water and drinks) | Aspartame | Inhouse Validated Method NAF-3 Lab Manual – SOP003, Issue No:02, dt. 05.01.2022 |
| 149 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Non-alcoholic (carbonated water and drinks) | Benzoic Acid | Inhouse Validated Method NAF-3 Lab Manual – SOP002, Issue No:02, dt. 05.01.2022 |
| 150 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Non-alcoholic (carbonated water and drinks) | Caffeine | In house Validated Method NAF-3 Lab Manual – SOP007, Issue No:02, dt. 05.01.2022 |
| 151 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Non-alcoholic (carbonated water and drinks) | Caffeine | Inhouse Validated Method NAF-3 Lab Manual – SOP007, Issue No:02, dt. 05.01.2022 |
| 152 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Non-alcoholic (carbonated water and drinks) | Sodium Saccharin | Inhouse Validated M0ethod NAF-3 Lab Manual – SOP003, Issue No:02, dt. 05.01.2022 |
| 153 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Non-alcoholic (carbonated water and drinks) | Sorbic Acid | Inhouse Validated Method NAF-3 Lab Manual – SOP002, Issue No:02, dt. 05.01.2022 |
| 154 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Paddy, Rice, Rice Powder | Calcium | AOAC Official Methods of Analysis 19th Edition 999.11 |
| 155 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Paddy, Rice, Rice Powder | Copper | AOAC Official Methods of Analysis 19th Edition 999.11 |
| 156 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Paddy, Rice, Rice Powder | Damaged Grains | FSSAI Manual of Methods Sec 1.1-Cereal and Cereal Products |
| 157 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Paddy, Rice, Rice Powder | Insect Damaged Matter | FSSAI Manual of Methods Sec 1.1-Cereal and Cereal Products |

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|---|---|---|---|---|
| 158 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Paddy, Rice, Rice Powder | Iron | AOAC Official Methods of Analysis 19th Edition 999.11 |
| 159 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Paddy, Rice, Rice Powder | Magnesium | AOAC Official Methods of Analysis 19th Edition 999.11 |
| 160 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Paddy, Rice, Rice Powder | Manganese | AOAC Official Methods of Analysis 19th Edition 999.11 |
| 161 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Paddy, Rice, Rice Powder | Other Edible Grains | FSSAI Manual of Methods Sec 1.1-Cereal and Cereal Products |
| 162 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Paddy, Rice, Rice Powder | Phosphorus | AOAC Official Methods of Analysis 18th Edition 995.11 |
| 163 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Paddy, Rice, Rice Powder | Potassium | AOAC Official Methods of Analysis 19th Edition 999.11 |
| 164 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Paddy, Rice, Rice Powder | Sodium | AOAC Official Methods of Analysis 19th Edition 999.11 |
| 165 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Paddy, Rice, Rice Powder | Weevilled Grains | FSSAI Manual of Methods Sec 1.1-Cereal and Cereal Products |
| 166 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Paddy, Rice, Rice Powder | Zinc | AOAC Official Methods of Analysis 19th Edition 999.11 |
| 167 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Pepper Black & White – Powder and Whole | Papaya Seeds | FSSAI Manual of Methods of Analysis of Foods: S.No 24.0 Spices and Condiments |
| 168 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Pepper Black & White – Powder and Whole | Piperine | IS 15695 |
| 169 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Pickles | Benzoic Acid | In house Validated Method NAF-3 Lab Manual – SOP002, Issue No:02, dt. 05.01.2022 |
| 170 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Pickles | Sorbic Acid | Inhouse Validated Method NAF-3 Lab Manual – SOP002, Issue No:02, dt. 05.01.2022 |
| 171 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Processed Fruit and products | Acesulfame K | In house Validated Method NAF-3 Lab Manual – SOP003, Issue No:02, dt. 05.01.2022 |

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|---|---|---|---|---|
| 172 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Processed Fruit and products | Aspartame | In house Validated Method NAF-3 Lab Manual – SOP003, Issue No:02, dt. 05.01.2022 |
| 173 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Processed Fruit and products | Benzoic Acid | In house Validated Method NAF-3 Lab Manual – SOP002, Issue No:02, dt. 05.01.2022 |
| 174 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Processed Fruit and products | Sodium Saccharin | In house Validated Method NAF-3 Lab Manual – SOP003, Issue No:02, dt. 05.01.2022 |
| 175 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Processed Fruit and products | Sorbic Acid | In house Validated Method NAF-3 Lab Manual – SOP002, Issue No:02, dt. 05.01.2022 |
| 176 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Processed Fruit products | Acesulfame K | Inhouse Validated Method NAF-3 Lab Manual – SOP003, Issue No:02, dt. 05.01.2022 |
| 177 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Processed Fruit products | Aspartame | Inhouse Validated Method NAF-3 Lab Manual – SOP003, Issue No:02, dt. 05.01.2022 |
| 178 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Processed Fruit products | Benzoic Acid | Inhouse Validated Method NAF-3 Lab Manual – SOP002, Issue No:02, dt. 05.01.2022 |
| 179 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Processed Fruit products | Sodium Saccharin | Inhouse Validated Method NAF-3 Lab Manual – SOP003, Issue No:02, dt. 05.01.2022 |
| 180 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Processed Fruit products | Sorbic Acid | Inhouse Validated Method NAF-3 Lab Manual – SOP002, Issue No:02, dt. 05.01.2022 |
| 181 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Ready to cook | Energy Value | NAF-3 Lab Manual – SOP009, Issue No:02, dt. 05.01.2022 |
| 182 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Ready to cook food products | Benzoic Acid | Inhouse Validated Method NAF-3 Lab Manual – SOP002, Issue No:02, dt. 05.01.2022 |
| 183 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Ready to cook food products | Sorbic Acid | Inhouse Validated Method NAF-3 Lab Manual – SOP002, Issue No:02, dt. 05.01.2022 |
| 184 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Ready to cook Foods | Carbohydrate | NAF-3 Lab Manual – SOP001, Issue No:02, dt. 05.01.2022 |
| 185 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Ready to Cook Foods | Crude Fibre | FSSAI Manual of Methods of analysis of Foods - Cereal and cereal products |

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|---|---|---|---|---|
| 186 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Ready to cook Foods | Moisture | FSSAI Manual of Methods of Analysis of Foods-S.No:2.0 Cereal and Cereal Products 2016 / S.No:14.3 Cereal and Cereal Products 2016 / S.No:3.0 Spices and Condiments 2016 S.No:A.2 Sugar and sugar Products |
| 187 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Ready to cook Foods | Protein | FSSAI Manual of Methods of Analysis of Foods - S.No:8.7 Cereal and cereal Products 2016 / IS 4684 |
| 188 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Ready to cook Foods | Total Ash | FSSAI Manual of Methods of analysis of Foods - Cereal and cereal products |
| 189 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Ready to cook Foods | Total Fat | AOAC, Ch-32, 922-06, 19th Edition 2012 / IS 4684 |
| 190 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Ready to eat food products | Acesulfame K | Inhouse Validated Method NAF-3 Lab Manual – SOP003, Issue No:02, dt. 05.01.2022 |
| 191 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Ready to eat food products | Acid Insoluble Ash | Sr.No:7.0 ; IS: 12711 |
| 192 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Ready to eat food products | Alcoholic Acidity | Sr.No:14.0 ; IS: 12711 |
| 193 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Ready to eat food products | Aspartame | Inhouse Validated Method NAF-3 Lab Manual – SOP003, Issue No:02, dt. 05.01.2022 |
| 194 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Ready to eat food products | Benzoic Acid | Inhouse Validated Method NAF-3 Lab Manual – SOP002, Issue No:02, dt. 05.01.2022 |
| 195 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Ready to eat food products | Carbohydrate | NAF-3 Lab Manual – SOP001, Issue No:02, dt. 05.01.2022 |
| 196 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Ready to eat food products | Crude Fibre | Sr.No:13.0 ; IS: 12711 |
| 197 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Ready to eat food products | Energy value | NAF-3 Lab Manual – SOP009, Issue No:02, dt. 05.01.2022 |

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|---|---|---|---|---|
| 198 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Ready to eat food products | Extracted Fat | Sr.No:10.0 ; IS: 12711 |
| 199 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Ready to eat food products | Moisture | Sr.No:5.0 ; IS: 12711 |
| 200 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Ready to eat food products | Mono Unsaturated Fat | FSSAI Manual of Methods of Analysis of Foods - Oils and Fats |
| 201 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Ready to eat food products | Poly Unsaturated Fat | FSSAI Manual of Methods of Analysis of Foods - Oils and Fats |
| 202 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Ready to eat food products | Protein | FSSAI Manual of Methods of Analysis of Foods – S.No.8.7 Cereal and Cereal Products, 2016 /IS 4684 |
| 203 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Ready to eat food products | Saturated Fat | FSSAI Manual of Methods of Analysis of Foods - Oils and Fats |
| 204 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Ready to eat food products | Sodium Saccharin | Inhouse Validated Method NAF-3 Lab Manual – SOP003, Issue No:02, dt. 05.01.2022 |
| 205 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Ready to eat food products | Sorbic Acid | Inhouse Validated Method NAF-3 Lab Manual – SOP002, Issue No:02, dt. 05.01.2022 |
| 206 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Ready to eat food products | Total Ash | Sr.No:6.0 ; IS: 12711 |
| 207 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Rye, sorghum, Barley, Oats, Corn, Maize, Jawar, Bajra, Millet | Crude Fibre | IS:10226 Part 1 |
| 208 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Salt | Calcium | AOAC Official Methods of Analysis 19th Edition 999.11 |
| 209 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Salt | Chloride as NaCl | IS 7224 |
| 210 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Salt | Iodine | IS 7224 |

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| **Accreditation Standard** | ISO/IEC 17025:2017 |
| **Certificate Number** | TC-8349 |
| **Validity** | 15/02/2022 to 14/02/2024 |



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| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 211 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Salt | Iron | AOAC Official Methods of Analysis 19th Edition 999.11 |
| 212 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Salt | Magnesium | AOAC Official Methods of Analysis 19th Edition 999.11 |
| 213 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Salt | Manganese | AOAC Official Methods of Analysis 19th Edition 999.11 |
| 214 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Salt | Matter Soluble in Water Other than NaCl | IS 7224 |
| 215 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Salt | Potassium | AOAC Official Methods of Analysis 19th Edition 999.11 |
| 216 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Salt | Sodium | AOAC Official Methods of Analysis 19th Edition 999.11 |
| 217 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Salt | Water Insoluble Matter | IS 7224 |
| 218 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Salt | Zinc | AOAC Official Methods of Analysis 19th Edition 999.11 |
| 219 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Sauce | Benzoic Acid | Inhouse Validated Method NAF-3 Lab Manual – SOP002, Issue No:02, dt. 05.01.2022 |
| 220 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Sauce | Sorbic Acid | Inhouse Validated Method NAF-3 Lab Manual – SOP002, Issue No:02, dt. 05.01.2022 |
| 221 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Spices & condiments | Total Ash | Sr.No:6.0 ; IS: 1797 |
| 222 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Spices and condiments | Acid Insoluble Ash | Sr.No:8.0 ; IS: 1797 |
| 223 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Spices and condiments | Crude Fiber | Sr.No:13.0 ; IS: 1797 |
| 224 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Spices and Condiments | Moisture | Sr.No:9.0 IS: 1797 |

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|---|---|---|---|---|
| 225 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | spices and condiments | Non volatile ether extract | IS1797 |
| 226 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | spices and condiments | Volatile oil | IS 1797 |
| 227 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Tea (raw, processed, instant) | Acid Insoluble Ash | Analysis of beverages, DGHS Manual |
| 228 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Tea (raw, processed, instant) | Alkalinity of Water Soluble Ash | FSSAI ; Manual of methods of analysis of Foods - S.No 5.7 Beverages, Sugar and sugar Products & Confectionery Products |
| 229 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Tea (raw, processed, instant) | Aqueous Extract | Analysis of beverages, DGHS Manual |
| 230 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Tea (raw, processed, instant) | Caffeine | Inhouse Validated Method NAF-3 Lab Manual – SOP007, Issue No:02, dt. 05.01.2022 |
| 231 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Tea (raw, processed, instant) | Crude Fiber | FSSAI ; Manual of methods of analysis of Foods - S.No 5.8 Beverages, Sugar and sugar Products & Confectionery Products |
| 232 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Tea (raw, processed, instant) | Moisture | Analysis of Beverages, DGHS Manual |
| 233 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Tea (raw, processed, instant) | Total Ash | FSSAI Manual of methods of analysis of Foods -S.No 1.3 Beverages, Sugar and sugar Products & Confectionery Products |
| 234 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Tea (raw, processed, instant) | Water Soluble Ash of total ash | FSSAI;Manual of methods of analysis of Foods – S.No 1.4 Beverages, Sugar and sugar Products & Confectionery Products |
| 235 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Turmeric (Powdered and finger) | Chromate | FSSAI Manual of Methods of Analysis of Foods: S.No 33.0 Spices and Condiments |

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|---|---|---|---|---|
| 236 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Turmeric (Powdered and finger) | Curcumin | FSSAI Manual of Methods of analysis of foods - S.no 30.0 Spices and Condiments |
| 237 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Wheat Atta | Acid Insoluble Ash | IS 1155 |
| 238 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Wheat Atta | Alcoholic Acidity | IS: 1155 |
| 239 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Wheat Atta | Carbohydrate | NAF-3 Lab Manual – SOP001, Issue No:02, dt. 05.01.2022 |
| 240 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Wheat Atta | Crude Fibre | IS: 1155 |
| 241 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Wheat Atta | Energy value | NAF-3 Lab Manual – SOP009, Issue No:02, dt. 05.01.2022 |
| 242 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Wheat Atta | Fat | IS 1155 |
| 243 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Wheat Atta | Moisture | IS: 1155 |
| 244 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Wheat Atta | Protein | FSSAI Manual of Methods of Analysis of Foods - S.No.8.7 Cereal and Cereal Products 2016 / IS 4684 |
| 245 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Wheat Atta | Total Ash | IS: 1155 |
| 246 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | whole spices and condiments | Damaged/discolored fruits | IS 1797 |
| 247 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | whole spices and condiments | Extraneous matter | IS 1797 |
| 248 | CHEMICAL- POLLUTION & ENVIRONMENT | Soil (Agriculture /Polluted / Non Polluted) | Magnesium Saturation | The Ohio State University, Agriculture and Natural Resources Fact Sheet ANR -81 dated 22.08.2019 |

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|---|---|---|---|---|
| 249 | CHEMICAL- POLLUTION & ENVIRONMENT | Soil (Agriculture /Polluted / Non Polluted) | Calcium Carbonate | FAO. 2020. Standard operating procedure for soil calcium carbonate equivalent. Titrimetric method. Rome |
| 250 | CHEMICAL- POLLUTION & ENVIRONMENT | Soil (Agriculture /Polluted / Non Polluted) | Calcium Saturation | The Ohio State University, Agriculture and Natural Resources Fact Sheet ANR -81 dated 22.08.2019 |
| 251 | CHEMICAL- POLLUTION & ENVIRONMENT | Soil (Agriculture /Polluted / Non Polluted) | Cation Exchange Capacity (CEC) | The Ohio State University, Agriculture and Natural Resources Fact Sheet ANR -81 dated 22.08.2019 |
| 252 | CHEMICAL- POLLUTION & ENVIRONMENT | Soil (Agriculture /Polluted / Non Polluted) | Chromium as Cr | ICARDA - Methods of Soil, Plant, and Water Analysis |
| 253 | CHEMICAL- POLLUTION & ENVIRONMENT | Soil (Agriculture /Polluted / Non Polluted) | Copper as Cu | ICARDA - Methods of Soil, Plant, and Water Analysis |
| 254 | CHEMICAL- POLLUTION & ENVIRONMENT | Soil (Agriculture /Polluted / Non Polluted) | Exchangeable Sodium | FDCO Methods of Analysis |
| 255 | CHEMICAL- POLLUTION & ENVIRONMENT | Soil (Agriculture /Polluted / Non Polluted) | Iron as Fe | ICARDA - Methods of Soil, Plant, and Water Analysis |
| 256 | CHEMICAL- POLLUTION & ENVIRONMENT | Soil (Agriculture /Polluted / Non Polluted) | Lead as Pb | ICARDA - Methods of Soil, Plant, and Water Analysis |
| 257 | CHEMICAL- POLLUTION & ENVIRONMENT | Soil (Agriculture /Polluted / Non Polluted) | Manganese as Cu | ICARDA - Methods of Soil, Plant, and Water Analysis |
| 258 | CHEMICAL- POLLUTION & ENVIRONMENT | Soil (Agriculture /Polluted / Non Polluted) | Nickel as Ni | ICARDA - Methods of Soil, Plant, and Water Analysis |
| 259 | CHEMICAL- POLLUTION & ENVIRONMENT | Soil (Agriculture /Polluted / Non Polluted) | Potassium Saturation | The Ohio State University, Agriculture and Natural Resources Fact Sheet ANR -81 dated 22.08.2019 |
| 260 | CHEMICAL- POLLUTION & ENVIRONMENT | Soil (Agriculture /Polluted / Non Polluted) | Sodium Saturation | The Ohio State University, Agriculture and Natural Resources Fact Sheet ANR -81 dated 22.08.2019 |
| 261 | CHEMICAL- POLLUTION & ENVIRONMENT | Soil (Agriculture /Polluted / Non Polluted) | Total Nitrogen | FAO Guide to laboratory establishment for plant nutrient analysis |
| 262 | CHEMICAL- POLLUTION & ENVIRONMENT | Soil (Agriculture /Polluted / Non Polluted) | Zinc as Zn | ICARDA - Methods of Soil, Plant, and Water Analysis |

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|---|---|---|---|---|
| 263 | CHEMICAL- POLLUTION & ENVIRONMENT | Soil (Agriculture/ polluted/ Non polluted) | Available Boron | FDCO Methods of Analysis (2009) / FAO UN Guide to laboratory establishment for plant nutrient analysis |
| 264 | CHEMICAL- POLLUTION & ENVIRONMENT | Soil (Agriculture/ polluted/ Non polluted) | Available Copper | FAO Guide to laboratory establishment for plant nutrient analysis |
| 265 | CHEMICAL- POLLUTION & ENVIRONMENT | Soil (Agriculture/ polluted/ Non polluted) | Available Iron | FAO Guide to laboratory establishment for plant nutrient analysis |
| 266 | CHEMICAL- POLLUTION & ENVIRONMENT | Soil (Agriculture/ polluted/ Non polluted) | Available Manganese | FAO Guide to laboratory establishment for plant nutrient analysis |
| 267 | CHEMICAL- POLLUTION & ENVIRONMENT | Soil (Agriculture/ polluted/ Non polluted) | Available Phosphorous | FAO Guide to laboratory establishment for plant nutrient analysis - Olsen's Method |
| 268 | CHEMICAL- POLLUTION & ENVIRONMENT | Soil (Agriculture/ polluted/ Non polluted) | Available Phosphorus | FAO UN Guide to laboratory establishment for plant nutrient analysis - Bray's Method |
| 269 | CHEMICAL- POLLUTION & ENVIRONMENT | Soil (Agriculture/ polluted/ Non polluted) | Available Sulphur as Sulphate | NAF/LM/STL/TP/001 ;Issue no :02 ;Issued on : 10.01 |
| 270 | CHEMICAL- POLLUTION & ENVIRONMENT | Soil (Agriculture/ polluted/ Non polluted) | Available Zinc | FAO Guide to laboratory establishment for plant nutrient analysis |
| 271 | CHEMICAL- POLLUTION & ENVIRONMENT | Soil (Agriculture/ polluted/ Non polluted) | Electrical Conductivity | IS:2720 (Part 26) :1982 Reaffirmed 2002 |
| 272 | CHEMICAL- POLLUTION & ENVIRONMENT | Soil (Agriculture/ polluted/ Non polluted) | Exchangeable Calcium | FDCO |
| 273 | CHEMICAL- POLLUTION & ENVIRONMENT | Soil (Agriculture/ polluted/ Non polluted) | Exchangeable Magnesium | FDCO |
| 274 | CHEMICAL- POLLUTION & ENVIRONMENT | Soil (Agriculture/ polluted/ Non polluted) | Exchangeable Potassium | FDCO |
| 275 | CHEMICAL- POLLUTION & ENVIRONMENT | Soil (Agriculture/ polluted/ Non polluted) | Nitrate Nitrogen | FAO UN Guide to laboratory establishment for plant nutrient analysis |
| 276 | CHEMICAL- POLLUTION & ENVIRONMENT | Soil (Agriculture/ polluted/ Non polluted) | Organic Carbon | IS:2720 (Part 22):1972 Reaffirmed 2001 |
| 277 | CHEMICAL- POLLUTION & ENVIRONMENT | Soil (Agriculture/ polluted/ Non polluted) | Organic Matter | IS:2720 (Part 22):1972 Reaffirmed 2001 |

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|---|---|---|---|---|
| 278 | CHEMICAL- POLLUTION & ENVIRONMENT | Soil (Agriculture/ polluted/ Non polluted) | pH | FDCO Methods of Analysis |
| 279 | CHEMICAL- POLLUTION & ENVIRONMENT | Soil (Agriculture/Polluted/Non Polluted) | Cadmium as Cd | ICARDA - Methods of Soil, Plant, and Water Analysis |
| 280 | CHEMICAL- WATER | Bore well water/ Raw water | Copper as Cu | APHA 23rd Edition; 3111 B |
| 281 | CHEMICAL- WATER | Bore well water/ Raw Water | Nickel as Ni | APHA 23rd Edition; 3111 B |
| 282 | CHEMICAL- WATER | Bore well water/ Raw water | Nitrate as NO3 | 4500-NO3 B, APHA 23rd Edition |
| 283 | CHEMICAL- WATER | Borewell water / Raw Water | Cadmium as Cd | APHA 23rd Edition; 3111 B |
| 284 | CHEMICAL- WATER | Borewell water / Raw Water | Calcium Hardness | IS 3025 (Part 21): Method of Sampling and Test (Physical and Chemical) for Water and Wastewater, Part 21: Hardness (Second Revision) |
| 285 | CHEMICAL- WATER | Borewell water / Raw Water | Magnesium Hardness | IS 3025 (Part 21): Method of Sampling and Test (Physical and Chemical) for Water and Wastewater, Part 21 |
| 286 | CHEMICAL- WATER | Borewell water / Raw Water | Total Hardness as CaCO3 | IS 3025 (Part 21): Method of Sampling and Test (Physical and Chemical) for Water and Wastewater, Part 21: Hardness (Second Revision) |
| 287 | CHEMICAL- WATER | Drinking Water | Calcium Hardness | IS 3025 (Part 21): Method of Sampling and Test (Physical and Chemical) for Water and Wastewater, Part 21: Hardness (Second Revision) |
| 288 | CHEMICAL- WATER | Drinking Water | Magnesium Hardness | IS 3025 (Part 21): Method of Sampling and Test (Physical and Chemical) for Water and Wastewater, Part 21: Hardness (Second Revision) : |
| 289 | CHEMICAL- WATER | Drinking Water | Total Hardness as CaCO3 | IS 3025 (Part 21): Method of Sampling and Test (Physical and Chemical) for Water and Wastewater, Part 21: Hardness (Second Revision) |
| 290 | CHEMICAL- WATER | Drinking Water / Potable Water/ Water for Food Processing Industry | Bicarbonate as CaCO3 | IS 3025 (Part 51) / IS 3025 (Part-23) |
| 291 | CHEMICAL- WATER | Drinking Water / Potable Water/ Water for Food Processing Industry | Calcium as Ca | IS 3025 (Part-40 / Sec 6) / APHA 23rd Edition ; 3111 B |

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|---|---|---|---|---|
| 292 | CHEMICAL- WATER | Drinking Water / Potable Water/ Water for Food Processing Industry | Carbonate as CaCO3 | IS 3025 (Part 51) / IS:3025 (Part-23) |
| 293 | CHEMICAL- WATER | Drinking Water / Potable Water/ Water for Food Processing Industry | Chloride as Cl | IS 3025 (Part-32 / Sec 2) / APHA 23rd Edition;4500-Cl- B |
| 294 | CHEMICAL- WATER | Drinking Water / Potable Water/ Water for Food Processing Industry | Copper as Cu | APHA 23rd Edition; 3111 B |
| 295 | CHEMICAL- WATER | Drinking Water / Potable Water/ Water for Food Processing Industry | Magnesium as Mg | IS 3025 (Part-46/ Sec 7) / APHA 23rd Edition; 3111 B |
| 296 | CHEMICAL- WATER | Drinking Water / Potable Water/ Water for Food Processing Industry | Manganese as Mn | APHA 23rd Edition; 3111 B |
| 297 | CHEMICAL- WATER | Drinking Water / Potable Water/ Water for Food Processing Industry | Nickel as Ni | APHA 23rd Edition; 3111 B |
| 298 | CHEMICAL- WATER | Drinking Water / Potable Water/ Water for Food Processing Industry | Nitrate as NO3 | APHA 23rd Edition;4500-NO3 B |
| 299 | CHEMICAL- WATER | Drinking Water / Potable Water/ Water for Food Processing Industry | P-Alkalinity as CaCO3 | IS 3025 (Part 23) /APHA 23rd Edition; 2320 B |
| 300 | CHEMICAL- WATER | Drinking Water / Potable Water/ Water for Food Processing Industry | pH | IS 3025 (Part-11 ) / APHA 23rd Edition;4500-H+ B |
| 301 | CHEMICAL- WATER | Drinking Water / Potable Water/ Water for Food Processing Industry | Potassium as K | APHA 23rd Edition; 3111 B |
| 302 | CHEMICAL- WATER | Drinking Water / Potable Water/ Water for Food Processing Industry | Sodium as Na | APHA 23rd Edition; 3111 B |
| 303 | CHEMICAL- WATER | Drinking Water / Potable Water/ Water for Food Processing Industry | Sulphate as SO4 | IS 3025 (Part-24 / Sec 4) / APHA 23rd Edition; 4500-SO4 |
| 304 | CHEMICAL- WATER | Drinking Water / Potable Water/ Water for Food Processing Industry | Total Alkalinity as CaCO3 | IS 3025 (Part-23):1986 / APHA 23rd Edition; 2320 B |
| 305 | CHEMICAL- WATER | Drinking Water / Potable Water/ Water for Food Processing Industry | Total Dissolved Solids at 105 degree C | IS 3025 (Part-16 ) |
| 306 | CHEMICAL- WATER | Drinking Water / Potable Water/ Water for Food Processing Industry | Zinc as Zn | APHA 23rd Edition; 3111 B |
| 307 | CHEMICAL- WATER | Drinking Water/ Potable Water/ Water for Food Processing Industry | Electrical Conductivity at 25 degree C | IS 3025 (Part-14) / APHA 23rd Edition; 2510 B |
| 308 | CHEMICAL- WATER | Drinking Water/Potable Water/Raw Water/ Borewell Water | Iron as Fe | APHA 23rd Edition;3111 B |
| 309 | CHEMICAL- WATER | Drinking Water/Potable Water/Raw Water/ Borewell Water | Lead | APHA 23rd Edition ; 3111 B |
| 310 | CHEMICAL- WATER | Industrial Water | Bicarbonate as CaCO3 | IS 3025 (Part 51) / IS 3025 (Part-23) |
| 311 | CHEMICAL- WATER | Industrial Water | Cadmium as Cd | APHA 23rd Edition; 3111 B |

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|---|---|---|---|---|
| 312 | CHEMICAL- WATER | Industrial Water | Calcium as Ca | IS 3025 (Part-40 / Sec 6) / APHA 23rd Edition ; 3111 B |
| 313 | CHEMICAL- WATER | Industrial Water | Calcium Hardness | IS 3025 (Part 21): Method of Sampling and Test (Physical and Chemical) for Water and Wastewater, Part 21: Hardness (Second Revision) |
| 314 | CHEMICAL- WATER | Industrial Water | Carbonate as CaCO3 | IS 3025 (Part 51) / IS:3025 (Part-23) |
| 315 | CHEMICAL- WATER | Industrial Water | Chloride as Cl | S 3025 (Part-32 / Sec 2) / APHA 23rd Edition;4500-Cl- B |
| 316 | CHEMICAL- WATER | Industrial Water | Copper as Cu | APHA 23rd Edition; 3111 B: |
| 317 | CHEMICAL- WATER | Industrial Water | Electrical Conductivity | IS 3025 (Part-14) / APHA 23rd Edition ; 2510B |
| 318 | CHEMICAL- WATER | Industrial Water | Iron as Fe | APHA 23rd Edition ; 3111 B |
| 319 | CHEMICAL- WATER | Industrial Water | Lead as Pb | APHA 23rd Edition; 3111 B |
| 320 | CHEMICAL- WATER | Industrial Water | Magnesium as Mg | IS 3025 (Part-46/ Sec 7) / APHA 23rd Edition; 3111 B |
| 321 | CHEMICAL- WATER | Industrial Water | Magnesium Hardness | IS 3025 (Part 21): Method of Sampling and Test (Physical and Chemical) for Water and Wastewater, Part 21: Hardness (Second Revision) |
| 322 | CHEMICAL- WATER | Industrial Water | Manganese as Mn | APHA 23rd Edition; 3111 B |
| 323 | CHEMICAL- WATER | Industrial Water | Nickel as N | APHA 23rd Edition; 3111 B |
| 324 | CHEMICAL- WATER | Industrial Water | Nitrate as NO3 | APHA 23rd Edition;4500-NO3 B |
| 325 | CHEMICAL- WATER | Industrial Water | P-Alkalinity as CaCO3 | IS 3025 (Part 23) /APHA 23rd Edition; 2320 B |
| 326 | CHEMICAL- WATER | Industrial Water | pH | IS 3025 (Part-11) / APHA 23rd Edition ; 4500 H+B1 B |
| 327 | CHEMICAL- WATER | Industrial Water | Potassium as K | APHA 23rd Edition; 3111 B |
| 328 | CHEMICAL- WATER | Industrial Water | Sodium as Na | APHA 23rd Edition; 3111 B |
| 329 | CHEMICAL- WATER | Industrial Water | Sulphate as SO4 | IS 3025 (Part-24 / Sec 4) / APHA 23rd Edition; 4500-SO4 |
| 330 | CHEMICAL- WATER | Industrial Water | Total Alkalinity as CaCO3 | IS 3025 (Part-23) / APHA 23rd Edition; 2320 B |
| 331 | CHEMICAL- WATER | Industrial Water | Total Dissolved Solids at 105 degree | IS 3025 (Part-16 ) |

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|---|---|---|---|---|
| 332 | CHEMICAL- WATER | Industrial Water | Total Hardness as CaCO3 | IS 3025 (Part 21): Method of Sampling and Test (Physical and Chemical) for Water and Wastewater, Part 21: Hardness (Second Revision): |
| 333 | CHEMICAL- WATER | Industrial Water | Zinc as Zn | APHA 23rd Edition; 3111 B |
| 334 | CHEMICAL- WATER | Irrigation Water | Bicarbonate as CaCO3 | IS 3025 (Part 51) / IS 3025 (Part-23) |
| 335 | CHEMICAL- WATER | Irrigation water | Cadmium as Cd | APHA 23rd Edition; 3111 B |
| 336 | CHEMICAL- WATER | Irrigation Water | Calcium as Ca | IS 3025 (Part-40 / Sec 6) / APHA 23rd Edition; 3111 B |
| 337 | CHEMICAL- WATER | Irrigation Water | Carbonate as CaCO3 | IS 3025 (Part 51) / IS 3025 (Part-23) |
| 338 | CHEMICAL- WATER | Irrigation Water | Chloride as Cl | IS 3025 (Part-32 / Sec 2) / APHA 23rd Edition;4500-Cl- B |
| 339 | CHEMICAL- WATER | Irrigation Water | Copper as Cu | IS 3025 (Part-42 / Sec 6) / APHA 23rd Edition; 3111 B |
| 340 | CHEMICAL- WATER | Irrigation Water | Electrical Conductivity at 25 degree C | IS 3025 (Part-14) / APHA 23rd Edition; 2510 B |
| 341 | CHEMICAL- WATER | Irrigation Water | Iron as Fe | APHA 23rd Edition;3111 B |
| 342 | CHEMICAL- WATER | Irrigation water | Lead | APHA 23rd Edition; 3111 B |
| 343 | CHEMICAL- WATER | Irrigation Water | Magnesium as Mg | IS 3025 (Part-46/ Sec 7) / APHA 23rd Edition; 3111 B |
| 344 | CHEMICAL- WATER | Irrigation water | Manganese as Mn | APHA 23rd Edition; 3111 B |
| 345 | CHEMICAL- WATER | Irrigation water | Nickel as Ni | APHA 23rd Edition; 3111 B |
| 346 | CHEMICAL- WATER | Irrigation water | Nitrate as NO3 | APHA 23rd Edition; 4500-NO3 B |
| 347 | CHEMICAL- WATER | Irrigation Water | P-Alkalinity as CaCO3 | IS 3025 (Part 23) / APHA 23rd Edition; 2320 B |
| 348 | CHEMICAL- WATER | Irrigation Water | pH at 25 degree C | IS 3025 (Part-11 ) /APHA 23rd Edition;4500-H+ B |
| 349 | CHEMICAL- WATER | Irrigation Water | Potassium as K | APHA 23rd Edition; 3111 B |
| 350 | CHEMICAL- WATER | Irrigation Water | Residual Sodium Carbonate | IS 11624 |
| 351 | CHEMICAL- WATER | Irrigation Water | Sodium Adsorption Ratio | IS 11624 |
| 352 | CHEMICAL- WATER | Irrigation water | Sodium as Na | APHA 23rd Edition; 3111 B |
| 353 | CHEMICAL- WATER | Irrigation Water | Sulphate as SO4 | IS 3025 (Part-24 / Sec 4) / APHA 23rd Edition;4500-SO4 |

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**Laboratory Name :** NATIONAL AGRO FOUNDATION - LABORATORY SERVICES DIVISION, RESEARCH & DEVELOPMENT CENTRE, ANNA UNIVERSITY TARMANI CAMPUS, CSIR ROAD, TARAMANI, CHENNAI, TAMIL NADU, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** TC-8349 **Page No** 27 of 29

**Validity** 15/02/2022 to 14/02/2024 **Last Amended on** 10/05/2022

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 354 | CHEMICAL- WATER | Irrigation Water | Total Alkalinity as CaCO3 | IS 3025 (Part-23) / APHA 23rd Edition; 2320 B |
| 355 | CHEMICAL- WATER | Irrigation Water | Total Dissolved Solids at 105 degree C | IS 3025 (Part-16 ) , APHA 2540 C 23rd Edition |
| 356 | CHEMICAL- WATER | Irrigation Water | Zinc as Zn | APHA 23rd Edition;3111 B |
| 357 | CHEMICAL- WATER | Packaged Drinking Water | Calcium as Ca | IS 3025 (Part-40 / Sec 6): 1991 / APHA 23rd Edition; 3111 B: |
| 358 | CHEMICAL- WATER | Packaged Drinking Water | Magnesium as Mg | IS 3025 (Part-46/ Sec 7) / APHA 23rd Edition; 3111 B |
| 359 | CHEMICAL- WATER | Potable Water | Calcium Hardness | IS 3025 (Part 21): Method of Sampling and Test (Physical and Chemical) for Water and Wastewater, Part 21: Hardness (Second Revision) |
| 360 | CHEMICAL- WATER | Potable Water | Magnesium Hardness | IS 3025 (Part 21): Method of Sampling and Test (Physical and Chemical) for Water and Wastewater, Part 21: Hardness (Second Revision) |
| 361 | CHEMICAL- WATER | Potable Water | Total Hardness as CaCO3 | IS 3025 (Part 21): Method of Sampling and Test (Physical and Chemical) for Water and Wastewater, Part 21: Hardness (Second Revision) |
| 362 | CHEMICAL- WATER | Raw water / Bore well water | Zinc as Zn | APHA 23rd Edition; 3111 B |
| 363 | CHEMICAL- WATER | Raw water / Borewell water | pH at 25 degree C | IS 3025 (Part-11) / APHA 23rd Edition; 4500-H+ B |
| 364 | CHEMICAL- WATER | Raw water /Bore well Water | Cadmium as Cd | APHA 23rd Edition; 3111 B |
| 365 | CHEMICAL- WATER | Raw Water/ Bore well Water | Bicarbonate as CaCO3 | IS 3025 (Part 51) / IS 3025 (Part-23) |
| 366 | CHEMICAL- WATER | Raw water/ Bore well water | Calcium as Ca | IS 3025 (Part-40 / Sec 6) / APHA 23rd Edition; 3111 B |
| 367 | CHEMICAL- WATER | Raw Water/ Bore well water | Carbonate as CaCO3 | IS 3025 (Part 51) / IS 3025 (Part-23) |
| 368 | CHEMICAL- WATER | Raw water/ Bore well water | Chloride as Cl | IS 3025 (Part-32 / Sec 2): 1988 / APHA 23rd Edition ;4500-Cl- B |
| 369 | CHEMICAL- WATER | Raw water/ Bore well water | Copper as Cu | APHA 23rd Edition; 3111 B |
| 370 | CHEMICAL- WATER | Raw Water/ Bore well water | Electrical Conductivity at 25 degree C | IS 3025 (Part-14) / APHA 23rd Edition; 2510 B |

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**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** TC-8349 **Page No** 28 of 29

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| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 371 | CHEMICAL- WATER | Raw water/ Bore well water | Iron as Fe | APHA 23rd Edition; 3111 B |
| 372 | CHEMICAL- WATER | Raw Water/ Bore Well Water | Lead | APHA 23rd Edition; 3111 B |
| 373 | CHEMICAL- WATER | Raw water/ Bore well water | Magnesium as Mg | IS 3025 (Part-46/ Sec 7) / APHA 23rd Edition; 3111 B |
| 374 | CHEMICAL- WATER | Raw water/ Bore well water | Manganese as Mn | APHA 23rd Edition; 3111 B |
| 375 | CHEMICAL- WATER | Raw water/ Bore well water | P-Alkalinity as CaCO3 | IS 3025 (Part 23) / APHA 23rd Edition; 2320 B |
| 376 | CHEMICAL- WATER | Raw water/ Bore well water | Potassium as K | APHA 23rd Edition; 3111 B |
| 377 | CHEMICAL- WATER | Raw Water/ Bore well Water | Sodium as Na | APHA 23rd Edition; 3111 B |
| 378 | CHEMICAL- WATER | Raw water/ Bore well water | Total Alkalinity as CaCO3 | IS 3025 (Part-23) 1986 / APHA 23rd Edition; 2320 B |
| 379 | CHEMICAL- WATER | Raw water/ Bore well Water | Total Dissolved Solids | IS 3025 (Part-16 ) / APHA 23rd Edition; 2540 C |
| 380 | CHEMICAL- WATER | Raw water/ Borewell water | Sulphate as SO4 | IS 3025 (Part-24 / Sec 4): 1986 / APHA 23rd Edition; 4500-SO4 |
| 381 | CHEMICAL- WATER | Swimming Pool Water | Nitrate as NO3 | APHA 23rd Edition;4500-NO3 B |
| 382 | CHEMICAL- WATER | Swimming Pool Water | Bicarbonate as CaCO3 | IS 3025 (Part 51) / IS 3025 (Part-23) |
| 383 | CHEMICAL- WATER | Swimming Pool Water | Cadmium as Cd | APHA 23rd Edition; 3111 B |
| 384 | CHEMICAL- WATER | Swimming Pool Water | Calcium as Ca | IS 3025 (Part-40 / Sec 6) / APHA 23rd Edition; 3111 B |
| 385 | CHEMICAL- WATER | Swimming Pool Water | Carbonate as CaCO3 | IS 3025 (Part 51) / IS 3025 (Part-23) |
| 386 | CHEMICAL- WATER | Swimming Pool Water | Chloride as Cl | IS 3025 (Part-32 / Sec 2) / APHA 23rd Edition;4500-Cl- B |
| 387 | CHEMICAL- WATER | Swimming Pool Water | Copper as Cu | 3111B, APHA 22nd Edition |
| 388 | CHEMICAL- WATER | Swimming Pool Water | Electrical Conductivity at 25 degree C | IS 3025 (Part-14) / APHA 23rd Edition; 2510 B |
| 389 | CHEMICAL- WATER | Swimming Pool Water | Iron as Fe | 3111 B APHA 22nd Edition |
| 390 | CHEMICAL- WATER | Swimming Pool Water | Lead | APHA 23rd Edition; 3111 B |
| 391 | CHEMICAL- WATER | Swimming Pool Water | Manganese as Mn | APHA 23rd Edition; 3111 B |
| 392 | CHEMICAL- WATER | Swimming Pool Water | Nickel as Ni | APHA 23rd Edition; 3111 B |
| 393 | CHEMICAL- WATER | Swimming Pool Water | Nitrate as NO3 | APHA 23rd Edition ;4500-NO3 B |
| 394 | CHEMICAL- WATER | Swimming Pool Water | P-Alkalinity as CaCO3 | IS 3025 (Part 23) / APHA 23rd Edition; 2320 B |

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| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-8349 | **Page No** | 29 of 29 |
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|---|---|---|---|---|
| 395 | CHEMICAL- WATER | Swimming Pool water | pH at 25 degree C | IS 3025 (Part-11 ) /APHA 23rd Edition; 4500-H+ B |
| 396 | CHEMICAL- WATER | Swimming Pool Water | Potassium as K | APHA 23rd Edition; 3111 B |
| 397 | CHEMICAL- WATER | Swimming Pool Water | Sodium as Na | APHA 23rd Edition; 3111 B |
| 398 | CHEMICAL- WATER | Swimming Pool Water | Sulphate as SO4 | IS 3025 (Part-24 / Sec 4) / APHA 23rd Edition; 4500-SO4 |
| 399 | CHEMICAL- WATER | Swimming Pool Water | Total Alkalinity as CaCO3 | IS 3025 (Part 23) / APHA 23rd Edition; 2320 B |
| 400 | CHEMICAL- WATER | Swimming Pool Water | Total Dissolved Solids at 105 degree C | IS 3025 (Part-16 ) / 2540 C, APHA 23rd Edition |
| 401 | CHEMICAL- WATER | Swimming Pool Water | Zinc as Zn | APHA 23rd Edition; 3111 B |
| 402 | CHEMICAL- WATER | Water for Swimming Pool | Magnesium as Mg | IS 3025 (Part-46/ Sec 7) / APHA 23rd Edition; 3111 B |
| 403 | CHEMICAL- WATER | Water from Water Purifiers | Calcium as Ca | IS 3025 (Part-40 / Sec 6) / APHA 23rd Edition ; 3111 B |
| 404 | CHEMICAL- WATER | Water from Water Purifiers | Calcium Hardness | IS 3025 (Part 21): Method of Sampling and Test (Physical and Chemical) for Water and Wastewater, Part 21: Hardness (Second Revision) |
| 405 | CHEMICAL- WATER | Water from Water Purifiers | Iron as Fe | APHA 23rd Edition;3111 B |
| 406 | CHEMICAL- WATER | Water from Water Purifiers | Magnesium Hardness | IS 3025 (Part 21): Method of Sampling and Test (Physical and Chemical) for Water and Wastewater, Part 21: Hardness (Second Revision) |
| 407 | CHEMICAL- WATER | Water from Water Purifiers | Manganese as Mn | APHA 23rd Edition; 3111 B |
| 408 | CHEMICAL- WATER | Water from Water Purifiers | Total Hardness | IS 3025 (Part 21): Method of Sampling and Test (Physical and Chemical) for Water and Wastewater, Part 21: Hardness (Second Revision) |

NOTE- The Laboratory has demonstrated competence for the stated scope for WATER. This however does not fully cover the specification requirements of BIS for the Packaged Drinking Water as per IS 14543 and the Packaged Natural Mineral Water IS 13428.