



**National Accreditation Board for  
Testing and Calibration Laboratories**

**CERTIFICATE OF ACCREDITATION**

**SUN TECH**

has been assessed and accredited in accordance with the standard

**ISO/IEC 17025:2017**

**"General Requirements for the Competence of Testing &  
Calibration Laboratories"**

and fulfills the requirements of FSSAI & APEDA

for its facilities at

40-P, Tupudana Industrial Area, Hatia, Ranchi, Jharkhand

in the field of

**TESTING**

Certificate Number

TC-5432 (Integrated) • INDIA •

Issue Date

31/03/2024

Valid Until

30/03/2026

FSSAI: 31/03/2024, APEDA: 04/06/2024

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.  
(To see the scope of accreditation of this laboratory, you may also visit NABL website [www.nabl-india.org](http://www.nabl-india.org))

Name of Legal Entity : SUN TECH

Signed for and on behalf of NABL



89076970100030002563

**N. Venkateswaran**  
Chief Executive Officer



**National Accreditation Board for  
Testing and Calibration Laboratories  
&**



**Food Safety and Standards Authority of India**  
(Ministry of Health and Family Welfare, Govt. of India)

**SCOPE OF ACCREDITATION**

**Laboratory Name** Sun Tech, 40-P, Tupudana Industrial Area, Hatia, Ranchi, Jharkhand

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

**Certificate No.** TC-5432 (Integrated)

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**Validity** 31.03.2024 to 30.03.2026

**Last Amended on** 21.08.2024

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Permanent Facility

|    |   |                            |                        |                                  |             |
|----|---|----------------------------|------------------------|----------------------------------|-------------|
| 1. | BIOLOGICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Packaged<br>Drinking Water | Coliform bacteria      | IS : 15185 : 2016                | Qualitative |
| 2. | BIOLOGICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Packaged<br>Drinking Water | Coliform bacteria      | ISO : 9308 - 1 : 2014            | Qualitative |
| 3. | BIOLOGICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Packaged<br>Drinking Water | Escherichia Coli       | IS : 9308 - 1 : 2014             | Qualitative |
| 4. | BIOLOGICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Packaged<br>Drinking Water | Escherichia Coli       | IS : 15185 : 2016                | Qualitative |
| 5. | BIOLOGICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Packaged<br>Drinking Water | Faecal Streptococci    | IS : 15185 : 2002                | Qualitative |
| 6. | BIOLOGICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Packaged<br>Drinking Water | Pseudomonas Aeruginosa | IS : 13428 (Annex - D)<br>: 2005 | Qualitative |
| 7. | BIOLOGICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Packaged<br>Drinking Water | Salmonella             | IS : 15187 : 2016                | Qualitative |
| 8. | BIOLOGICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Packaged<br>Drinking Water | Salmonella             | ISO : 19250 : 2010               | Qualitative |

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| 9.     | BIOLOGICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Packaged<br>Drinking Water   | Shigella   | IS : 5887 (Part- 7) :<br>1999  | Qualitative                            |
| 10.    | BIOLOGICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Packaged<br>Drinking Water   | Staphylococcus Aureus  | IS : 5887 (Part- 2) :<br>1976  | Qualitative                            |
| 11.    | BIOLOGICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Packaged<br>Drinking Water   | Sulphite Reducing<br>Anaerobes   | IS : 13428 (Annex - C)<br>: 2005   | Qualitative                            |
| 12.    | BIOLOGICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Packaged<br>Drinking Water   | Total Plate Count at 22°C  | IS : 5402 : 2012   | Greater than or<br>equal to 1 cfu/ml   |
| 13.    | BIOLOGICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Packaged<br>Drinking Water   | Total Plate Count at 22°C  | ISO : 4833 - 1 : 2013  | Greater than or<br>equal to 1 cfu/ml   |
| 14.    | BIOLOGICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Packaged<br>Drinking Water   | Total Plate Count at 37°C  | ISO : 4833 - 1 : 2013  | Greater than or<br>equal to 1 cfu/ml   |
| 15.    | BIOLOGICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Packaged<br>Drinking Water   | Total Plate Count at 37°C  | IS : 5402 : 2012   | Greater than or<br>equal to 1 cfu/ml   |
| 16.    | BIOLOGICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Packaged<br>Drinking Water   | Vibrio Cholerae  | IS : 5887 (Part -5) :<br>1976  | Qualitative                            |
| 17.    | BIOLOGICAL/<br>FOOD &                             | Packaged<br>Drinking Water   | Vibrio Parahaemolyticus  | IS : 5887 (Part -5) :<br>1976  | Qualitative                            |

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|        | AGRICULTURAL PRODUCTS                    |  |  |  |  |
| 18.    | BIOLOGICAL/ FOOD & AGRICULTURAL PRODUCTS | Packaged Drinking Water  | Yeast and Moulds   | IS : 5403 : 1999   | Qualitative                            |
| 19.    | BIOLOGICAL/ FOOD & AGRICULTURAL PRODUCTS | Coriander, chillies, Turmeric Caraway, Cardamom, Cinnamon, Cassia, Cumin, Fennel, Fenugreek, Ginger, Mac, Mustard, Nutmeg, Poppy, Aniseed & Ajowan | Salmonella Detection   | IS : 5887 (Part - 3)   | Qualitative                            |
| 20.    | BIOLOGICAL/ FOOD & AGRICULTURAL PRODUCTS | Ready to Eat food  | Yeast and Moulds   | IS: 5403 : 1999  | Qualitative                            |
| 21.    | BIOLOGICAL/ FOOD & AGRICULTURAL PRODUCTS | Fortified Rice Kernels (FRK)   | Mesophilic Aerobic Bacteria Count  | IS: 5402 : 2018  | Qualitative                            |
| 22.    | BIOLOGICAL/ FOOD & AGRICULTURAL PRODUCTS | Fortified Rice Kernels (FRK)   | Yeast and Moulds   | IS: 5403 : 1999  | Qualitative                            |
| 23.    | CHEMICAL/ FOOD & AGRICULTURAL            | Ready to eat food products   | Calcium as Ca  | IS : 5949: 2003  | 10.0 mg/100g to 500.0 mg/100g          |

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|        | PRODUCTS  |                               |  |  |  |
| 24.    | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Ready to eat<br>food products | Carbohydrate (By<br>Difference)  | IS : 1656: 2007  | 10 % to 80 %                           |
| 25.    | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Ready to eat<br>food products | Crude Fibre  | IS : 10226 (Part - 1):<br>1982   | 0.01 mg/100g to<br>10.0 mg/100g        |
| 26.    | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Ready to eat<br>food products | Energy (on Calculation<br>basis)   | Codex Guidelines:<br>1985  | 100 Kcal/100g to<br>800 Kcal/100g      |
| 27.    | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Ready to eat<br>food products | Fat  | IS : 4684 (Appendix -<br>F): 1975  | 1 % to 50 %                            |
| 28.    | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Ready to eat<br>food products | Flour Characteristics -<br>Passing through 600<br>micron sieve   | ST/STP/PHYSICAL<br>TEST/RTF/FLOUR<br>CHARACTERISTICS/<br>2022  | 0.01 % to 100 %                        |
| 29.    | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Ready to eat<br>food products | Flour Characteristics :<br>Passing through 1000<br>micron sieve  | ST/STP/PHYSICAL<br>TEST/RTF/FLOUR<br>CHARACTERISTICS/<br>2022  | 0.01 % to 100 %                        |
| 30.    | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Ready to eat<br>food products | Iron as Fe   | IS : 11536: 2007   | 0.1 mg/100g to 500<br>mg/100g          |
| 31.    | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Ready to eat<br>food products | Iron as Fe   | IS : 1656: 1969  | 0.01 mg/100g to<br>20.0 mg/100g        |
| 32.    | CHEMICAL/                                       | Ready to eat                  | Moisture   | IS :1011: 2002   | 0.1 % to 20 %                          |

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|        | FOOD & AGRICULTURAL PRODUCTS           | food products                |  |  |  |
| 33.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Ready to eat food products   | Protein  | IS : 7219: 1973  | 1 % to 30 %  |
| 34.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Ready to eat food products   | Shape  | ST/STP/PHYSICAL TEST/SHAPE: 2022   | Qualitative :Powder/ Granular/ Ladoo like Ba Is/ Burfi like Rectangular/ Flakes/ Sheet |
| 35.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Ready to eat food products   | Taste  | ST/STP/PHYSICAL TEST/TASTE: 2022   | Qualitative :Sweet/ Salty/ Sweet & Salty mixed/ Tasteless                              |
| 36.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Ready to eat food products   | Texture  | ST/STP/PHYSICAL TEST/TEXTURE: 2022   | Qualitative :Granular/ Lumps/ Powder/ Semi-liquid/ Semi - solid                        |
| 37.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Ready to eat food products   | Total Ash  | IS : 1009 (Appendix B): 1979   | 0.1 % to 10 %  |
| 38.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Ready to eat food products   | Vitamin A as Retinol   | ST/STP/VITAMIN/A: 2022   | 1.0 mg/Kg to 100.0 mg/Kg   |
| 39.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Ready to eat food products   | Vitamin B1 as Thiamine   | ST/STP/VITAMIN/B1 2022   | 1.0 mg/Kg to 100.0 mg/kg   |

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| 40.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Ready to eat food products   | Vitamin B2 as Riboflavin   | ST/STP/VITAMIN/B2 2022   | 1.0 mg/Kg to 100.0 mg/kg               |
| 41.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Ready to eat food products   | Vitamin B3 as Niacin   | ST/STP/VITAMIN/B3 2022   | 1.0 mg/Kg to 100.0 mg/kg               |
| 42.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Ready to eat food products   | Vitamin B9 as Folic Acid   | ST/STP/VITAMIN/B9 2022   | 1.0 mg/Kg to 100.0 mg/kg               |
| 43.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Ready to eat food products   | Vitamin C as Ascorbic Acid   | ST/STP/VITAMIN/C: 2022   | 1.0 mg/Kg to 100.0 mg/Kg               |
| 44.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Coconut Oil                  | Fatty Acid - C 12:0  | AOAC - 969.33(41.1.28)-20th Edition - Volume II: 2016  | 0.1 % to 70.0 %                        |
| 45.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Coconut Oil                  | Fatty Acid - C 14:0  | AOAC - 969.33(41.1.28)-20th Edition - Volume II: 2016  | 0.1 % to 30.0 %                        |
| 46.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Coconut Oil                  | Fatty Acid - C 16:0  | AOAC - 969.33(41.1.28)-20th Edition - Volume II: 2016  | 0.1 % to 15.0 %                        |
| 47.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Coconut Oil                  | Fatty Acid - C 18:0  | AOAC - 969.33(41.1.28)-20th Edition - Volume II: 2016  | 0.1 % to 20.0 %                        |
| 48.    | CHEMICAL/ FOOD &                       | Coconut Oil                  | Fatty Acid - C 18:1  | AOAC - 969.33(41.1.28)-20th  | 0.1 % to 20.0 %                        |

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|        | AGRICULTURAL PRODUCTS                  |                              |  | Edition - Volume II: 2016  |  |
| 49.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Coconut Oil                  | Fatty Acid - C 18:2  | AOAC - 969.33(41.1.28)-20th Edition - Volume II: 2016  | 0.1 % to 5.0 %                         |
| 50.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Coconut Oil                  | Fatty Acid - C 18:3  | AOAC - 969.33(41.1.28)-20th Edition - Volume II: 2016  | 0.0 % to 0.5 %                         |
| 51.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Coconut Oil                  | Fatty Acid - C 20:0  | AOAC - 969.33(41.1.28)-20th Edition - Volume II: 2016  | 0.00 % to 0.5 %                        |
| 52.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Coconut Oil                  | Fatty Acid - C 20:1  | AOAC - 969.33(41.1.28)-20th Edition - Volume II: 2016  | 0.00 % to 0.5 %                        |
| 53.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Coconut Oil                  | Fatty Acid - C 6:0   | AOAC - 969.33(41.1.28)-20th Edition - Volume II: 2016  | 0.00 % to 2.0 %                        |
| 54.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Coconut Oil                  | Fatty Acid - C 8 : 0   | AOAC - 969.33(41.1.28)-20th Edition - Volume II: 2016  | 0.1 % to 15.0 %                        |
| 55.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Coconut Oil                  | Fatty Acid - C10:0   | AOAC - 969.33(41.1.28)-20th Edition - Volume II: 2016  | 0.1 % to 20.0 %                        |
| 56.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Edible Oil                   | Acid Value   | IS : 548 (Part - 1):1964   | 0.01 to 50                             |

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| 57.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Edible oil                   | Colour   | FSSAI MANUAL - 2: 2015   | Qualitative :Visual Determination      |
| 58.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Edible oil                   | Fatty Acid Composition By GC   | AOAC - 969.33(41.1.28)-20 <sup>th</sup> Edition - Volume II: 2016                                    | 0.00 % to 100.0 %                      |
| 59.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Edible oil                   | Free Fatty Acid as Oleic Acid  | FSSAI MANUAL - 2: 2015   | 0.01 % to 10 %                         |
| 60.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Edible Oil                   | Iodine Value (Wijs)  | IS : 548 (Part - 1):1964   | 90to 120                               |
| 61.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Edible oil                   | Mineral Oil  | FSSAI MANUAL - 2: 2015   | Qualitative :Present / Absent          |
| 62.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Edible Oil                   | Moisture Content   | IS : 548 (Part - 1): 1964  | 0.01 % to 20 %                         |
| 63.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Edible Oil                   | Refractive Index at 40 deg C   | IS : 548 (Part - 1): 1964  | 1.4640 to 1.4680                       |
| 64.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Edible Oil                   | Saponification value   | IS : 548 (Part - 1): 1964  | 160 to 190                             |
| 65.    | CHEMICAL/ FOOD &                       | Edible oil                   | Specific Gravity   | FSSAI MANUAL -2: 2015  | 0.02 to 2                              |

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|        | AGRICULTURAL PRODUCTS                  |                              |  |  |  |
| 66.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Edible oil                   | Test for Cloud Point   | FSSAI MANUAL - 2: 2015   | Qualitative :Present / Absent              |
| 67.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Edible oil                   | Test for Presence of Animal body Fat   | FSSAI MANUAL - 2: 2015   | Qualitative Microscopic Visual Examination |
| 68.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Edible oil                   | Test for presence of Linseed oil   | FSSAI MANUAL - 2: 2015   | Qualitative :Present / Absent              |
| 69.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Edible oil                   | Test for Rice – Bran Oil   | FSSAI MANUAL - 2: 2015   | Qualitative :Present / Absent              |
| 70.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Edible Oil                   | Unsaponifiable Matter  | IS : 548 (Part - 1): 1964  | 0.1 % to 5 %                               |
| 71.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Mustard Oil                  | Acid Value   | IS : 548 (Part - 1): 1964  | 0.1 to 80                                  |
| 72.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Mustard Oil                  | Allyl Isothiocyanate   | IS : 548(Part - 1): 1964   | 0..01 % to 5 %                             |
| 73.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Mustard Oil                  | Be lier turbidity temperature  | IS : 548 (Part - 1): 1964  | 20 degree C to 30 degree C                 |

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| 74.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Mustard Oil                  | Colour   | IS : 548 (Part - 1): 1964  | 10 to 100                              |
| 75.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Mustard Oil                  | Fatty Acid - C 14:0  | AOAC - 969.33(41.1.28)-20 <sup>th</sup> Edition - Volume II: 2016                                    | 0.00 % to 2.0 %                        |
| 76.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Mustard Oil                  | Fatty Acid - C 16:0  | AOAC - 969.33(41.1.28)-20 <sup>th</sup> Edition - Volume II: 2016                                    | 0.1 % to 10.0 %                        |
| 77.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Mustard Oil                  | Fatty Acid - C 16:1  | AOAC - 969.33(41.1.28)-20 <sup>th</sup> Edition - Volume II: 2016                                    | 0.00 % to 5.0 %                        |
| 78.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Mustard Oil                  | Fatty Acid - C 18:0  | AOAC - 969.33(41.1.28)-20 <sup>th</sup> Edition - Volume II: 2016                                    | 0.1 % to 5.0 %                         |
| 79.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Mustard Oil                  | Fatty Acid - C 18:1  | AOAC - 969.33(41.1.28)-20 <sup>th</sup> Edition - Volume II: 2016                                    | 0.1 % to 30.0 %                        |
| 80.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Mustard Oil                  | Fatty Acid - C 18:2  | AOAC - 969.33(41.1.28)-20 <sup>th</sup> Edition - Volume II: 2016                                    | 0.1 % to 30.0 %                        |
| 81.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Mustard Oil                  | Fatty Acid - C 18:3  | AOAC - 969.33(41.1.28)-20 <sup>th</sup> Edition - Volume II: 2016                                    | 0.1 % to 25.0 %                        |
| 82.    | CHEMICAL/ FOOD &                       | Mustard Oil                  | Fatty Acid - C 20:0  | AOAC - 969.33(41.1.28)-20 <sup>th</sup>  | 0.00 % to 2.0 %                        |

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**Food Safety and Standards Authority of India**  
(Ministry of Health and Family Welfare, Govt. of India)

**SCOPE OF ACCREDITATION**

**Laboratory Name** Sun Tech, 40-P, Tupudana Industrial Area, Hatia, Ranchi, Jharkhand

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

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|        | AGRICULTURAL PRODUCTS                  |                              |  | Edition - Volume II: 2016  |  |
| 83.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Mustard Oil                  | Fatty Acid - C 20:1  | AOAC - 969.33(41.1.28)-20 <sup>th</sup> Edition - Volume II: 2016                                    | 0.1 % to 20.0 %                        |
| 84.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Mustard Oil                  | Fatty Acid - C 20:2  | AOAC - 969.33(41.1.28)-20 <sup>th</sup> Edition - Volume II: 2016                                    | 0.00 % to 2.0 %                        |
| 85.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Mustard Oil                  | Fatty Acid - C 22:0  | AOAC - 969.33(41.1.28)-20 <sup>th</sup> Edition - Volume II: 2016                                    | 0.1 % to 5.0 %                         |
| 86.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Mustard Oil                  | Fatty Acid - C 22:1  | AOAC - 969.33(41.1.28)-20 <sup>th</sup> Edition - Volume II: 2016                                    | 0.1 % to 70.0 %                        |
| 87.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Mustard Oil                  | Flash Point  | IS : 1448 (Part - 21):1970   | 90 Degree C to 300 Degree C            |
| 88.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Mustard Oil                  | Iodine value (Wijs)  | IS : 548 (Part - 1):1964   | 90 to 120                              |
| 89.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Mustard Oil                  | Moisture & Insoluble impurities  | IS : 548 (Part - 1):1964   | 0.1 % to 10 %                          |
| 90.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Mustard Oil                  | Refractive Index at 40 degree C  | IS : 548 (Part - 1): 1964  | 1.4639 to 1.4670                       |

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| 91.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Mustard Oil                  | Saponification Value   | IS : 548 (Part - 1): 1964  | 160 to 180                             |
| 92.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Mustard Oil                  | Test for Argemone Oil  | FSSAI MANUAL - 2: 2015   | Qualitative :Present / Absent          |
| 93.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Mustard Oil                  | Test for Hydrocyanic Acid  | FSSAI MANUAL -2: 2015  | Qualitative :Present / Absent          |
| 94.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Mustard Oil                  | Test for Oryzanol  | FSSAI MANUAL -2: 2015  | Qualitative :Present / Absent          |
| 95.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Mustard Oil                  | Test for Poly Bromide  | FSSAI MANUAL -2: 2015  | Qualitative :Present/ Absent           |
| 96.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Mustard Oil                  | Test for Rancidity   | FSSAI MANUAL -2: 2015  | Qualitative :Its Quantitative test     |
| 97.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Mustard Oil                  | Unsaponifiable Matter  | IS : 548 (Part - 1): 1964  | 0.1 % to 5 %                           |
| 98.    | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Olive Oil                    | Acid Value   | IS : 548 (Part - 1): 1964  | 0.1 to 10                              |
| 99.    | CHEMICAL/ FOOD &                       | Olive Oil                    | B R Reading at 40 degree C   | IS : 548 (Part - 1):1964   | 40 to 60                               |

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|        | AGRICULTURAL PRODUCTS                  |                              |  |  |  |
| 100.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Olive Oil                    | Be lier Test   | IS : 548 (Part - 1):1964   | 15 degree C to 20 degree C             |
| 101.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Olive Oil                    | Cotton Seed oil test   | IS : 548 (Part - 1):1964   | Qualitative                            |
| 102.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Olive Oil                    | Fatty Acid - C 14:0  | AOAC - 969.33(41.1.28)-20 <sup>th</sup> Edition - Volume II: 2016                                    | 0.00 % to 0.5 %                        |
| 103.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Olive Oil                    | Fatty Acid - C 16:0  | AOAC - 969.33(41.1.28)-20 <sup>th</sup> Edition - Volume II: 2016                                    | 0.1 % to 25.0 %                        |
| 104.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Olive Oil                    | Fatty Acid - C 16:1  | AOAC - 969.33(41.1.28)-20 <sup>th</sup> Edition - Volume II: 2016                                    | 0.1 % to 5.0 %                         |
| 105.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Olive Oil                    | Fatty Acid - C 17:0  | AOAC - 969.33(41.1.28)-20 <sup>th</sup> Edition - Volume II: 2016                                    | 0.00 % to 1.0 %                        |
| 106.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Olive Oil                    | Fatty Acid - C 17:1  | AOAC - 969.33(41.1.28)-20 <sup>th</sup> Edition - Volume II: 2016                                    | 0.00 % to 1.0 %                        |
| 107.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Olive Oil                    | Fatty Acid - C 18:0  | AOAC - 969.33(41.1.28)-20 <sup>th</sup> Edition - Volume II: 2016                                    | 0.1 % to 10.0 %                        |

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| 108.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Olive Oil                    | Fatty Acid - C 18:1  | AOAC - 969.33(41.1.28)-20 <sup>th</sup> Edition - Volume II: 2016                                    | 0.1 % to 70.0 %                        |
| 109.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Olive Oil                    | Fatty Acid - C 18:2  | AOAC - 969.33(41.1.28)-20 <sup>th</sup> Edition - Volume II: 2016                                    | 0.1 % to 30.0 %                        |
| 110.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Olive Oil                    | Fatty Acid - C 20:0  | AOAC - 969.33(41.1.28)-20 <sup>th</sup> Edition - Volume II: 2016                                    | 0.00 % to 1.0 %                        |
| 111.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Olive Oil                    | Fatty Acid - C 20:1  | AOAC - 969.33(41.1.28)-20 <sup>th</sup> Edition - Volume II: 2016                                    | 0.00 % to 1.0 %                        |
| 112.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Olive Oil                    | Fatty Acid - C 22:0  | AOAC - 969.33(41.1.28)-20 <sup>th</sup> Edition - Volume II: 2016                                    | 0.00 % to 1.0 %                        |
| 113.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Olive Oil                    | Iodine Value (Wijs)  | IS : 548 (Part - 1): 1964  | 70 to 99                               |
| 114.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Olive Oil                    | Refractive Index at 20 degree C  | IS : 548 (Part - 1): 1964  | 1.4600to 1.4650                        |
| 115.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Olive Oil                    | Saponification Value   | IS : 548 (Part - 1): 1964  | 1 mg KOH/g Oil to 199 mg KOH/g Oil     |
| 116.   | CHEMICAL/ FOOD &                       | Olive Oil                    | Test for Olive Pomace Oil  | FSSAI MANUAL - 2: 2015   | Qualitative :Present / Absent          |

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|        | AGRICULTURAL PRODUCTS                  |                              |  |  |  |
| 117.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Olive Oil                    | Test for Oryzanol  | FSSAI MANUAL - 2: 2015   | Qualitative :Present / Absent          |
| 118.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Olive Oil                    | Test for presence of Argemone Oil  | FSSAI MANUAL - 2: 2015   | Qualitative :Present / Absent          |
| 119.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Olive Oil                    | Test for Presence of Olive Residue   | FSSAI MANUAL -2: 2015  | Qualitative :Present / Absent          |
| 120.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Olive Oil                    | Test for Rancidity   | FSSAI MANUAL -2: 2015  | Qualitative :Its quantitative test     |
| 121.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Olive Oil                    | Test for Semi - SiccativeOil   | FSSAI MANUAL -2: 2015  | Qualitative :Present / Absent          |
| 122.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Olive Oil                    | Test for Teaseed Oil   | FSSAI MANUAL -2: 2015  | Qualitative :Present / Absent          |
| 123.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Olive Oil                    | Unsaponifiable Matter  | IS : 548 (Part - 1): 1964  | 0.1 % to 5 %                           |
| 124.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Vegetable Oils               | Acid Value   | IS : 548 (Part - 1): 1964  | 0.01 to 50                             |

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| 125.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Vegetable Oils               | Iodine Value (Wijs)  | IS : 548 (Part - 1): 1964  | 80 to 150                              |
| 126.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Vegetable Oils               | Moisture Content   | IS : 548 (Part - 1): 1964  | 0.01 % to 10 %                         |
| 127.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Vegetable Oils               | n - Hexane   | FSSAI MANUAL - 2: 2015   | 0.0 % to 5 %                           |
| 128.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Vegetable Oils               | Phosphorus as P  | FSSAI MANUAL - 2: 2015   | 0.001 % to 5 %                         |
| 129.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Vegetable Oils               | Refractive Index at 40 Degree C  | IS : 548 (Part - 1): 1964  | 1.4640 to 1.4680                       |
| 130.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Vegetable Oils               | Saponification Value   | IS : 548 (Part - 1): 1964  | 160 to 190                             |
| 131.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Vegetable Oils               | Test for Argemone Oil  | FSSAI MANUAL - 2: 2015   | Qualitative :Present / Absent          |
| 132.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Vegetable Oils               | Test for Oryzanol  | FSSAI MANUAL - 2: 2015   | Qualitative :Present / Absent          |
| 133.   | CHEMICAL/ FOOD &                       | Vegetable Oils               | Test for Rancidity   | FSSAI MANUAL - 2: 2015   | Qualitative :Its quantitative test     |

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|        | AGRICULTURAL PRODUCTS                  |   |  |  |  |
| 134.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Vegetable Oils  | Unsaponifiable Matter  | IS : 548 (Part - 1): 1964  | 0.1 % to 5 %                           |
| 135.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Caraway, Cardamom, Cinnamon, Cassia, Cumin, Fennel, Fenugreek, Ginger, Mace, Mustard, Nutmeg, Poppy, Aniseed & Ajowan | Argemone Seeds   | FSSAI MANUAL - 10: 2015  | Qualitative :Present / Absent          |
| 136.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Caraway, Cardamom, Cinnamon, Cassia, Cumin, Fennel, Fenugreek, Ginger, Mace, Mustard, Nutmeg, Poppy, Aniseed & Ajowan | Ash Insoluble in dilute HCL - on Dry Basis   | FSSAI MANUAL - 10: 2015  | 0.01 % to 5 %                          |
| 137.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Caraway, Cardamom, Cinnamon, Cassia, Cumin, Fennel, Fenugreek,  | Defective seeds  | FSSAI MANUAL - 10: 2015  | 0.01 % to 10 %                         |

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|        |  | Ginger, Mace, Mustard, Nutmeg, Poppy, Aniseed & Ajowan  |  |  |  |
| 138.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Caraway, Cardamom, Cinnamon, Cassia, Cumin, Fennel, Fenugreek, Ginger, Mace, Mustard, Nutmeg, Poppy, Aniseed & Ajowan | Edible seed other than main seed   | FSSAI MANUAL - 10: 2015  | Qualitative :Present / Absent          |
| 139.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Caraway, Cardamom, Cinnamon, Cassia, Cumin, Fennel, Fenugreek, Ginger, Mace, Mustard, Nutmeg, Poppy, Aniseed & Ajowan | Extraneous Matter  | FSSAI MANUAL - 10: 2015  | 0.01 % to 5 %                          |
| 140.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Caraway, Cardamom, Cinnamon, Cassia, Cumin, Fennel, Fenugreek, Ginger, Mace,  | Insect Damaged Seeds   | FSSAI MANUAL - 10: 2015  | 0.001 % to 5 %                         |

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|--------|--|---|--|--|--|
| 141.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Mustard, Nutmeg, Poppy, Aniseed & Ajowan<br>Caraway, Cardamom, Cinnamon, Cassia, Cumin, Fennel, Fenugreek, Ginger, Mace, Mustard, Nutmeg, Poppy, Aniseed & Ajowan | Moisture   | FSSAI MANUAL - 10: 2015  | 0.1 % to 25 %                          |
| 142.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Caraway, Cardamom, Cinnamon, Cassia, Cumin, Fennel, Fenugreek, Ginger, Mace, Mustard, Nutmeg, Poppy, Aniseed & Ajowan   | Non Volatile Ether Extract on Dry Basis  | FSSAI MANUAL - 10: 2015  | 1 % to 60 %                            |
| 143.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Caraway, Cardamom, Cinnamon, Cassia, Cumin, Fennel, Fenugreek, Ginger, Mace, Mustard,   | Total Ash on Dry Basis   | FSSAI MANUAL - 10: 2015  | 0.1 % to 30 %                          |

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| 144.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Nutmeg, Poppy, Aniseed & Ajowan<br>Caraway, Cardamom, Cinnamon, Cassia, Cumin, Fennel, Fenugreek, Ginger, Mace, Mustard, Nutmeg, Poppy, Aniseed & Ajowan | Volatile Oil Content on Dry Basis (v/w)  | FSSAI MANUAL - 10 : 2015   | 0.01 % to 10 %                         |
| 145.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Chilies, Capsicum(Lal Mirchi) â€” powder and whole   | Acid Insoluble Ash   | IS : 1797 - Clause 8: 1985   | 0.01 % to 5 %                          |
| 146.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Chilies, Capsicum(Lal Mirchi) â€” powder and whole   | Crude Fibre  | IS : 1797 - Clause 13: 1985  | 0.01 % to 50 %                         |
| 147.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Chilies, Capsicum(Lal Mirchi) â€” powder and whole   | Moisture   | IS : 1797 - Clause 9: 1985   | 0.01 % to 20 %                         |
| 148.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Chilies, Capsicum(Lal Mirchi) â€” powder and whole   | Non Volatile Ether Extract (on Dry Basis)  | IS : 1797 Clause 14: 1985  | 0.1 % to 50 %                          |

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|--------|--|--|--|--|--|
| 149.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Chilies, Capsicum(Lal Mirchi) â€” powder and whole | Total Ash (on Dry Basis)   | IS : 1797 - Clause 6: 1985   | 0.01 % to 10 %                         |
| 150.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Coriander (Whole & Powder)                         | Acid Insoluble Ash   | IS : 1797: 1985  | 0.01 % to 2 %                          |
| 151.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Coriander (Whole & Powder)                         | Moisture on dry basis  | IS : 1797: 1985  | 0.1 % to 12 %                          |
| 152.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Coriander (Whole & Powder)                         | Total Ash on dry basis   | IS : 1797: 1985  | 0.01 % to 10 %                         |
| 153.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Coriander (Whole & Powder)                         | Volatile oil   | IS : 1797: 1985  | 0.05 % to 10 %                         |
| 154.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Indian Curry Powder                                | Acid Insoluble Ash   | IS : 1909: 1992  | 0.01 % to 2 %                          |
| 155.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Indian Curry Powder                                | Crude Fibre  | IS : 1909: 1992  | 0.1 % to 20 %                          |
| 156.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Indian Curry Powder                                | Moisture   | IS :1909: 1992   | 0.1 % to 20 %                          |

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|--------|---|---|--|--|--|
| 157.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Indian Curry Powder   | Non Volatile Ether Extract   | IS : 1909: 1992  | 1 % to 20 %                            |
| 158.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Indian Curry Powder   | Total Ash (on dry basis)   | IS : 1909: 1992  | 0.1 % to 15 %                          |
| 159.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Indian Curry Powder   | Volatile Oil   | IS : 1909: 1992  | 0.01 ml/100g to 5 ml/100g              |
| 160.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Iodized Salt, Vacuum Evaporated Iodized Salt and Refined Iodized Salt | Alkalinity as Na <sub>2</sub> CO <sub>3</sub>  | IS : 7224 - Annex J: 2006  | 0.01 % to 2.0 %                        |
| 161.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Iodized Salt, Vacuum Evaporated Iodized Salt and Refined Iodized Salt | Calcium as Ca (on Dry Basis)   | IS : 7224 - Annex F: 2006  | 0.001 % to 5.0 %                       |
| 162.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Iodized Salt, Vacuum Evaporated Iodized Salt and Refined Iodized Salt | Chloride Content as NaCl (on Dry Basis)  | IS : 7224 - Annex D: 2006  | 50.0 % to 100.0 %                      |
| 163.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Iodized Salt, Vacuum Evaporated Iodized Salt and                      | Iodine Content as I  | IS : 7224 - Annex H: 2006  | 0.05 ppm to 60.0 ppm                   |

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|        |   | Refined Iodized Salt   |  |  |  |
| 164.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Iodized Salt,<br>Vacuum<br>Evaporated<br>Iodized Salt and<br>Refined Iodized<br>Salt | Iron as Fe   | IS : 7224 - Annex M:<br>2006   | 1.0 ppm to 80.0<br>ppm                 |
| 165.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Iodized Salt,<br>Vacuum<br>Evaporated<br>Iodized Salt and<br>Refined Iodized<br>Salt | Magnesium as Mg (on Dry<br>Basis)  | IS : 7224 - Annex F:<br>2006   | 0.001 % to 10.0 %                      |
| 166.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Iodized Salt,<br>Vacuum<br>Evaporated<br>Iodized Salt and<br>Refined                 | Matter Insoluble in water<br>(on Dry Basis)  | IS : 7224 - Annex E:<br>2006   | 0.001 % to 10.0 %                      |
| 167.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Iodized Salt,<br>Vacuum<br>Evaporated<br>Iodized Salt and<br>Refined Iodized<br>Salt | Moisture   | IS : 7224 - Annex A:<br>2006   | 0.001 % to 10.0 %                      |
| 168.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Iodized Salt,<br>Vacuum<br>Evaporated<br>Iodized Salt and<br>Refined Iodized<br>Salt | Sulphate as SO <sub>4</sub>  | IS : 7224 - Annex G:<br>2006   | 0.001 % to 10.0 %                      |
| 169.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL             | Iodized Salt,<br>Vacuum<br>Evaporated  | Water Insoluble Matter (on<br>Dry Basis)   | IS : 7224 - Annex C:<br>2006   | 0.001 % to 10.0 %                      |

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|        | PRODUCTS                               | Iodized Salt and Refined Iodized Salt |  |  |  |
| 170.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Turmeric (Finger & powder)            | Curcumin Content   | IS : 10925: 1985   | 0.1 % to 20 %                          |
| 171.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Turmeric (Finger & powder)            | Dilute HCl insoluble Ash on dry basis  | IS : 1797: 1985  | 0.01 % to 10 %                         |
| 172.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Turmeric (Finger & powder)            | Moisture Content   | IS :1797: 1985   | 1 % to 30 %                            |
| 173.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Turmeric (Finger & powder)            | Presence of Chromate   | IS : 1797: 1985  | Qualitative                            |
| 174.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Turmeric (Finger & powder)            | Starch   | IS : 1797: 1985  | 1 % to 80 %                            |
| 175.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Turmeric Powder                       | Total Ash  | IS : 1797: 1985  | 0.1 % to 20 %                          |
| 176.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Condensed Milk                        | Acidity  | IS : 1166: 1986  | 0.01 % to 2 %                          |
| 177.   | CHEMICAL/ FOOD & AGRICULTURAL          | Condensed Milk                        | Fat  | IS :1166: 1986   | 0.1 % to 30 %                          |

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|        | PRODUCTS  |                              |  |  |  |
| 178.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Condensed Milk               | Titratable Acidity as Lactic Acid  | IS : 1166: 1986  | 0.01 % to 10 %                         |
| 179.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Condensed Milk               | Total Milk Solid   | IS : 1166: 1986  | 1 % to 80 %                            |
| 180.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Infant Milk                  | acid Insoluble Ash   | IS : 14433: 2006   | 0.001 % to 2 %                         |
| 181.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Infant Milk                  | Fat  | IS : 14433: 2006   | 0.1 % to 30 %                          |
| 182.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Infant Milk                  | Moisture Content   | IS : 14433: 2006   | 0.1 % to 10 %                          |
| 183.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Infant Milk                  | Total Ash  | IS : 14433: 2006   | 0.1 % to 20 %                          |
| 184.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Infant Milk                  | Total Milk Protein   | IS : 14433: 2006   | 0.1 % to 20 %                          |
| 185.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Khoya                        | Fat  | IS :4883: 1980   | 1 % to 80 %                            |

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| 186.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Khoya                        | Titrateable Acidity  | IS : 4883: 1980  | 0.01 % to 10 %                         |
| 187.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Khoya                        | Total Ash  | IS : 4883: 1980  | 0.1 % to 10 %                          |
| 188.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Khoya                        | Total Solid  | IS : 4883: 1980  | 10 % to 99 %                           |
| 189.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Milk Powder                  | Ash Content  | IS : 11721: 2013   | 0.1 % to 10 %                          |
| 190.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Milk Powder                  | Moisture Content   | IS : 11721: 2013   | 0.1 % to 10 %                          |
| 191.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Paneer / Chenna              | Total Ash  | IS : 10484: 1983   | 0.01 % to 10 %                         |
| 192.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Paneer/ Chenna               | Fat  | IS : 10484: 1983   | 1 % to 80 %                            |
| 193.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Paneer/ Chenna               | Moisture   | IS : 10484: 1983   | 10 % to 90 %                           |
| 194.   | CHEMICAL/ FOOD &                       | Paneer/ Chenna               | Titrateable Acidity  | IS : 10484: 1983   | 0.01 % to 5 %                          |

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|        | AGRICULTURAL PRODUCTS                  |                              |  |  |  |
| 195.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Cheese                       | Fat  | FSSAI MANUAL FOR MILK & DAIRY PRODUCTS - FSSAI 01.041: 2022  | 1.0 % to 80.0 %                        |
| 196.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Cheese                       | Fat  | IS : 2785: 1979  | 1.0 % to 50.0 %                        |
| 197.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Cheese                       | Moisture   | FSSAI MANUAL FOR MILK & DAIRY PRODUCTS - FSSAI 01.039: 2022  | 10.0 % to 75.0 %                       |
| 198.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Cheese                       | Moisture   | IS : 2785 : 1979   | 10.0 % to 90.0 %                       |
| 199.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Cheese                       | Salt (Added Sodium Chloride)   | IS : 2785: 1979  | 0.01 % to 5.0 %                        |
| 200.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Chhena / Paneer              | Adulteration (Detection of Starch in Paneer/ Chhena)   | IS : 10484: 1983   | Qualitative :Present / Absent          |
| 201.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Condensed Milk               | Protein  | IS : 1166: 1986  | 1.0 % to 50.0 %                        |
| 202.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Cream                        | Adulteration (Detection of Presence of Thickeners in Cream)  | FSSAI MANUAL FOR MILK & DAIRY PRODUCTS - FSSAI 01.031: 2022  | Qualitative :Present / Absent          |

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| 203.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Cream                        | Fat  | FSSAI MANUAL FOR MILK & DAIRY PRODUCTS - FSSAI 01.030: 2022  | 10.0 % to 60.0 %                       |
| 204.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Cream                        | Moisture   | FSSAI MANUAL FOR MILK & DAIRY PRODUCTS - FSSAI 01.039: 2022  | 0.1 % to 20.0 %                        |
| 205.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Cream& Cream Powder          | Fat  | FSSAI MANUAL FOR MILK & DAIRY PRODUCTS: 2016   | 10.0 % to 60.0 %                       |
| 206.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Cream& Cream Powder          | Moisture   | FSSAI MANUAL FOR MILK & DAIRY PRODUCTS: 2016   | 0.1 % to 20.0 %                        |
| 207.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Cream& Cream Powder          | Protein  | FSSAI MANUAL FOR MILK & DAIRY PRODUCTS: 2016   | 1.0 % to 50.0 %                        |
| 208.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Ice Cream                    | Adulteration (Detection of Added Salt)   | FSSAI MANUAL FOR MILK & DAIRY PRODUCTS: 2016   | Qualitative :Present / Absent          |
| 209.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Ice Cream                    | Fat  | FSSAI MANUAL FOR MILK & DAIRY PRODUCTS: 2016   | 1.0 % to 50.0 %                        |
| 210.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Ice Cream                    | Milk Fat   | FSSAI MANUAL FOR MILK & DAIRY PRODUCTS: 2016   | 1.0 % to 80.0 %                        |
| 211.   | CHEMICAL/ FOOD &                       | Ice Cream                    | Protein  | FSSAI MANUAL FOR MILK & DAIRY  | 10.0 % to 70.0 %                       |

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|        | AGRICULTURAL PRODUCTS                  |  |  | PRODUCTS: 2016   |  |
| 212.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Ice Cream  | Sucrose  | IS : 2802 - Appendix E: 2009   | 1.0 % to 20.0 %                        |
| 213.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Ice Cream  | Titratable Acidity as Lactic Acid  | IS : 2802 – Appendix D: 2009   | 0.001 % to 1.0 %                       |
| 214.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Ice Cream  | Total Solid  | FSSAI MANUAL FOR MILK & DAIRY PRODUCTS - FSSAI 01.046: 2022  | 20.0 % to 80.0 %                       |
| 215.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Ice Cream  | Weight per Unit Volume   | FSSAI MANUAL FOR MILK & DAIRY PRODUCTS - FSSAI 01.047: 2022  | 300.0 g/litre to 990.0 g/litre         |
| 216.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Khoya  | Adulteration (Detection of Starch in Khoya)  | FSSAI MANUAL FOR MILK & DAIRY PRODUCTS - FSSAI 01.074: 2022  | Qualitative :Present / Absent          |
| 217.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Khoya  | Adulteration (Detection of Sucrose in Khoya)   | FSSAI MANUAL FOR MILK & DAIRY PRODUCTS - FSSAI 01.075: 2022  | Qualitative :Present / Absent          |
| 218.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Liquid Milk: Raw/Sterilized/ Pasteurized/ Flavored/Toned/ Double Toned/ Standardized/ Recombined/ Condensed/ | Adulteration (Detection of Alkaline Phosphatase in Milk)   | FSSAI MANUAL FOR MILK & DAIRY PRODUCTS - FSSAI 01.021: 2022  | Qualitative :Present / Absent          |

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|        |  | Sweetened/ Full cream/Skimmed/ Evaporated/Sweetened Condensed  |  |  |  |
| 219.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Liquid Milk: Raw/Sterilized/ Pasteurized Toned/ Standardized/ Recombined/ Condense cream/Skimmed/ Evaporated Condensed | Adulteration (Detection of Alkaline Phosphatase in Milk)   | IS : 1479 (Part - I): 1960   | Qualitative :Present / Absent          |
| 220.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Liquid Milk: Raw/Sterilized/ Pasteurized Toned/Standardized/ Recombined/ Condense cream/Skimmed/ Evaporated Condensed  | Adulteration (Detection of Boric Acid & Borate in Milk)  | FSSAI MANUAL FOR MILK & DAIRY PRODUCTS - FSSAI 01.018: 2022  | Qualitative :Present / Absent          |
| 221.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Liquid Milk: Raw/Sterilized/ Pasteurized Toned/ Standardized/ Recombined/ Condense cream/Skimmed/ Evaporated           | Adulteration (Detection of Boric Acid & Borate in Milk)  | IS : 1479 (Part - I): 1961   | Qualitative :Present / Absent          |

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| 222.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Condensed<br>Liquid Milk:<br>Raw/Sterilized/<br>Pasteurized<br>Toned/<br>Standardized/<br>Recombined/<br>Condense<br>cream/Skimmed/<br>Evaporated<br>Condensed | Adulteration (Detection of<br>Formaldehyde in Milk)  | FSSAI MANUAL FOR<br>MILK & DAIRY<br>PRODUCTS - FSSAI<br>01.016: 2022                                 | Qualitative :Present<br>/ Absent       |
| 223.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Liquid Milk:<br>Raw/Sterilized/<br>Pasteurized<br>Toned/<br>Standardized/<br>Recombined/<br>Condense<br>cream/Skimmed/<br>Evaporated<br>Condensed              | Adulteration (Detection of<br>Formaldehyde in Milk)  | IS : 1479 (Part - I):<br>1961  | Qualitative :Present<br>/ Absent       |
| 224.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Liquid Milk:<br>Raw/Sterilized/<br>Pasteurized<br>Toned/<br>Standardized/<br>Recombined/<br>Condense<br>cream/Skimmed/<br>Evaporated<br>Condensed              | Adulteration (Detection of<br>Glucose in Milk)   | FSSAI MANUAL FOR<br>MILK & DAIRY<br>PRODUCTS - FSSAI<br>01.008: 2022                                 | Qualitative Present/<br>absent         |
| 225.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL             | Liquid Milk:<br>Raw/Sterilized/<br>Pasteurized   | Adulteration (Detection of<br>Glucose in Milk)   | IS : 1479 (Part - I):<br>1961  | Qualitative Present/<br>absent         |

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**National Accreditation Board for  
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**Food Safety and Standards Authority of India**  
(Ministry of Health and Family Welfare, Govt. of India)

**SCOPE OF ACCREDITATION**

**Laboratory Name** Sun Tech, 40-P, Tupudana Industrial Area, Hatia, Ranchi, Jharkhand

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

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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 | Range of Testing / Limits of Detection |
|--------|---|---|--|--|--|
|        | PRODUCTS  | Toned/<br>Standardized/<br>Recombined/<br>Condense<br>cream/<br>Skimmed/<br>Evaporated<br>Condensed   |  |  |  |
| 226.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Liquid Milk:<br>Raw/Sterilized/<br>Pasteurized<br>Toned/Standardi<br>zed/<br>Recombined/<br>Condense<br>cream/Skimmed/<br>Evaporated<br>Condensed | Adulteration (Detection of<br>Hypochlorite &<br>Chloramines in Milk)                                       | FSSAI MANUAL FOR<br>MILK & DAIRY<br>PRODUCTS - FSSAI<br>01.013: 2022                                 | Qualitative Present/<br>absent         |
| 227.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Liquid Milk:<br>Raw/Sterilized/<br>Pasteurized<br>Toned/<br>Standardized/<br>Recombined/<br>Condense<br>cream/Skimmed/<br>Evaporated<br>Condensed | Adulteration (Detection of<br>Hypochlorite &<br>Chloramines in Milk)                                       | IS : 1479 (Part - I):<br>1960  | Qualitative Present/<br>Absent         |
| 228.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Liquid Milk:<br>Raw/Sterilized/<br>Pasteurized<br>Toned/<br>Standardized/<br>Recombined/  | Adulteration (Detection of<br>Maltodextrin in Milk)  | FSSAI MANUAL FOR<br>MILK & DAIRY<br>PRODUCTS - FSSAI<br>01.020: 2022                                 | Qualitative Present/<br>Absent         |

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|--------|--|--|--|--|--|
|        |  | Condense cream/Skimmed/ Evaporated Condensed   |  |  |  |
| 229.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Liquid Milk: Raw/Sterilized/ Pasteurized Toned/ Standardized/ Recombined/ Condense cream/Skimmed/ Evaporated Condensed | Adulteration (Detection of Maltodextrin in Milk)   | IS : 1479 (Part - I): 1960   | Qualitative Present/ Absent            |
| 230.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Liquid Milk: Raw/Sterilized/ Pasteurized Toned/ Standardized/ Recombined/ Condense cream/Skimmed/ Evaporated Condensed | Adulteration (Detection of Salicylic Acid in Milk)   | FSSAI MANUAL FOR MILK & DAIRY PRODUCTS - FSSAI 01.019: 2022  | Qualitative Present/ Absent            |
| 231.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Liquid Milk: Raw/Sterilized/ Pasteurized Toned/ Standardized/ Recombined/ Condense cream/Skimmed/ Evaporated Condensed | Adulteration (Detection of Salicylic Acid in Milk)   | IS : 1479 (Part - I): 1960   | Qualitative Present/ Absent            |

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|--------|---|---|--|--|--|
| 232.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Liquid Milk:<br>Raw/Sterilized/<br>Pasteurized<br>Toned/<br>Standardized/<br>Recombined/<br>Condense<br>cream/Skimmed/<br>Evaporated<br>Condensed | Adulteration (Detection of<br>Skimmed Milk Powder<br>Addition in Species<br>Identified Milk & Mixed Milk   | IS : 1479 (Part - I):<br>1960  | Qualitative Present/<br>Absent         |
| 233.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Liquid Milk:<br>Raw/Sterilized/<br>Pasteurized<br>Toned/<br>Standardized/<br>Recombined/<br>Condense<br>cream/Skimmed/<br>Evaporated<br>Condensed | Adulteration (Detection of<br>Skimmed Milk Powder<br>Addition in Species<br>Identified Milk & Mixed Milk   | FSSAI MANUAL FOR<br>MILK & DAIRY<br>PRODUCTS - FSSAI<br>01.023: 2022                                 | Qualitative Present/<br>Absent         |
| 234.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Liquid Milk:<br>Raw/Sterilized/<br>Pasteurized<br>Toned/<br>Standardized/<br>Recombined/<br>Condense<br>cream/Skimmed/<br>Evaporated<br>Condensed | Adulteration (Presence of<br>Alcohol)  | IS : 1479 (Part - II):<br>1961   | Qualitative Present/<br>Absent         |
| 235.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL             | Liquid Milk:<br>Raw/Sterilized/<br>Pasteurized  | Adulteration (Presence of<br>Ammonia)  | IS : 1479 (Part - II):<br>1961   | Qualitative Present/<br>Absent         |

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|--------|---|---|--|--|--|
|        | PRODUCTS  | Toned/<br>Standardized/<br>Recombined/<br>Condense<br>cream/Skimmed/<br>Evaporated<br>Condensed   |  |  |  |
| 236.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Liquid Milk:<br>Raw/Sterilized/<br>Pasteurized<br>Toned/<br>Standardized/<br>Recombined/<br>Condense<br>cream/Skimmed/<br>Evaporated<br>Condensed | Adulteration (Presence of<br>Cane Sugar)   | IS : 1479 (Part - II):<br>1961   | Qualitative Present/<br>Absent         |
| 237.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Liquid Milk:<br>Raw/Sterilized/<br>Pasteurized<br>Toned/<br>Standardized/<br>Recombined/<br>Condense<br>cream/Skimmed/<br>Evaporated<br>Condensed | Adulteration (Presence of<br>Cellulose)  | IS : 1479 (Part - II):<br>1961   | Qualitative Present/<br>Absent         |
| 238.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Liquid Milk:<br>Raw/Sterilized/<br>Pasteurized<br>Toned/<br>Standardized/<br>Recombined/<br>Condense  | Adulteration (Presence of<br>Detergent)  | IS : 1479 (Part - II):<br>1961   | Qualitative Present/<br>Absent         |

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|--------|---|---|--|--|--|
| 239.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | cream/Skimmed/<br>Evaporated<br>Condensed<br>Liquid Milk:<br>Raw/Sterilized/<br>Pasteurized/<br>Flavored/Toned/<br>Double Toned/<br>Standardized/<br>Recombined/<br>Condensed/<br>Sweetened/<br>Fullcream/<br>Skimmed/<br>Evaporated/<br>Sweetened<br>Condensed | Adulteration (Presence of<br>Hydrogen Peroxide)  | IS : 1479 (Part - II):<br>1961   | Qualitative Present/<br>Absent         |
| 240.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Liquid Milk:<br>Raw/Sterilized/<br>Pasteurized/<br>Flavored/Toned/<br>Double Toned/<br>Standardized/<br>Recombined/<br>Condensed/<br>Sweetened/<br>Full cream/<br>Skimmed/<br>Evaporated/<br>Sweetened<br>Condensed   | Adulteration (Presence of<br>Neutralizer)  | IS : 1479 (Part - II):<br>1961   | Qualitative Present/<br>Absent         |
| 241.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL             | Liquid Milk:<br>Raw/Sterilized/<br>Pasteurized/   | Adulteration (Presence of<br>Nitrates)   | IS : 1479 (Part - II):<br>1961   | Qualitative Present/<br>Absent         |

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|--------|---|---|--|--|--|
|        | PRODUCTS  | Flavored/<br>Toned/Double<br>Toned/<br>Standardized/<br>Recombined/<br>Condensed/<br>Sweetened/<br>Full cream/<br>Skimmed/<br>Evaporated/<br>Sweetened<br>Condensed   |  |  |  |
| 242.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Liquid Milk:<br>Raw/Sterilized/<br>Pasteurized/<br>Flavored/Toned/<br>Double Toned/<br>Standardized/<br>Recombined/<br>Condensed/<br>Sweetened/<br>Full cream/<br>Skimmed/<br>Evaporated/<br>Sweetened<br>Condensed | Adulteration (Presence of<br>Sodium Chloride   | IS : 1479 (Part - II):<br>1961   | Qualitative Present/<br>Absent         |
| 243.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Liquid Milk:<br>Raw/Sterilized/<br>Pasteurized/<br>Flavored/Toned/<br>Double Toned/<br>Standardized/<br>Recombined/<br>Condensed/<br>Sweetened/<br>Full cream/<br>Skimmed/<br>Evaporated/<br>Sweetened<br>Condensed | Adulteration (Presence of<br>Starch)   | IS : 1479 (Part - II):<br>1961   | Qualitative Present/<br>Absent         |

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|--------|---|---|--|--|--|
|        |   | Sweetened/<br>Full cream/<br>Skimmed/<br>Evaporated/<br>Sweetened<br>Condensed  |  |  |  |
| 244.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Liquid Milk:<br>Raw/Sterilized/<br>Pasteurized/<br>Flavored/Toned/<br>Double Toned/<br>Standardized/<br>Recombined/<br>Condensed/<br>Sweetened/<br>Full cream/<br>Skimmed/<br>Evaporated/<br>Sweetened<br>Condensed | Adulteration (Presence of Urea)  | IS : 1479 (Part - II):<br>1961   | Qualitative Present/<br>Absent         |
| 245.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Liquid Milk:<br>Raw/Sterilized/<br>Pasteurized/<br>Flavored/Toned/<br>Double Toned/<br>Standardized/<br>Recombined/<br>Condensed/<br>Sweetened/<br>Full cream/<br>Skimmed/<br>Evaporated/S<br>weetened              | Ash  | IS : 1479 (Part - II):<br>1961   | 0.01 % to 10 %                         |

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|--------|---|--|--|--|--|
| 246.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Condensed<br>Liquid Milk:<br>Raw/Sterilized/<br>Pasteurized/<br>Flavored/Toned/<br>Double Toned/<br>Standardized/<br>Recombined/<br>Condensed/<br>Sweetened/<br>Full cream/<br>Skimmed/<br>Evaporated/<br>Sweetened<br>Condensed | Fat  | IS : 1224 (Part -II):<br>1977  | 0.1 % to 10 %                          |
| 247.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Liquid Milk:<br>Raw/Sterilized/<br>Pasteurized/<br>Flavored/Toned/<br>Double Toned/<br>Standardized/<br>Recombined/<br>Condensed/<br>Sweetened/<br>Full cream/<br>Skimmed/<br>Evaporated/<br>Sweetened<br>Condensed              | Fat  | IS : 1479 (Part - II):<br>1961   | 0.1 % to 10 %                          |
| 248.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Liquid Milk:<br>Raw/Sterilized/<br>Pasteurized/<br>Flavored/Toned/<br>Double Toned/  | Milk Protein   | FSSAI MANUAL FOR<br>MILK & DAIRY<br>PRODUCTS - FSSAI<br>01.054: 2022                                 | 10.0 % to 50.0 %                       |

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|--------|---|---|--|--|--|
|        |   | Standardized/<br>Recombined/<br>Condensed/<br>Sweetened/<br>Full cream/<br>Skimmed/<br>Evaporated/<br>Sweetened<br>Condensed  |  |  |  |
| 249.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Liquid Milk:<br>Raw/Sterilized/<br>Pasteurized/<br>Flavored/Toned/<br>Double Toned/<br>Standardized/<br>Recombined/<br>Condensed/<br>Sweetened/<br>Full cream/<br>Skimmed/<br>Evaporated/<br>Sweetened<br>Condensed | pH   | IS : 1479 (Part - II):<br>1961   | 2 to 12                                |
| 250.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Liquid Milk:<br>Raw/Sterilized/<br>Pasteurized/<br>Flavored/Toned/<br>Double Toned/<br>Standardized/<br>Recombined/<br>Condensed/<br>Sweetened/<br>Full cream/<br>Skimmed/  | SNF (Solid Not Fat)  | IS : 1479 (Part - II):<br>1961   | 0.1 % to 20 %                          |

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|--------|---|--|--|--|--|
| 251.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Evaporated/<br>Sweetened<br>Condensed<br>Liquid Milk:<br>Raw/Sterilized/<br>Pasteurized/<br>Flavored/Toned/<br>Double Toned/<br>Standardized/<br>Recombined/<br>Condensed/<br>Sweetened/<br>Full cream/<br>Skimmed/<br>Evaporated/<br>Sweetened<br>Condensed | Total Solid  | IS : 1479 (Part - II):<br>1961   | 0.1 % to 30 %                          |
| 252.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Liquid Milk:<br>Raw/Sterilized/<br>Pasteurized/<br>Flavored/Toned/<br>Double Toned/<br>Standardized/<br>Recombined/<br>Condensed/<br>Sweetened/<br>Full cream/<br>Skimmed/<br>Evaporated/<br>Sweetened<br>Condensed  | True Protein   |  | 0.1 % to 5 %                           |
| 253.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL             | Skimmed/<br>Evaporated<br>/ Dried Milk   | Acid Insoluble Ash in Dilute<br>HCl  | FSSAI MANUAL FOR<br>MILK & DAIRY<br>PRODUCTS   | 0.001 % to 5.0 %                       |

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|--------|--|--|--|--|--|
|        | PRODUCTS                               | Powder                                   |  | - FSSAI 01.065: 2022   |  |
| 254.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Skimmed/ Evaporated / Dried Milk Powder  | Acid Insoluble Ash in Dilute HCl   | IS : 13334 (Part - I): 1998  | 0.001 % to 5.0 %                       |
| 255.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Skimmed/ Evaporated / Dried Milk Powder  | Carbohydrate (By Difference)   | IS : 13334 (Part - I): 1998  | 10.0 % to 80.0 %                       |
| 256.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Skimmed / Evaporated / Dried Milk Powder | Carbohydrate (By Difference)   | FSSAI MANUAL FOR MILK & DAIRY PRODUCTS - FSSAI 01.067: 2022  | 10.0 % to 80.0 %                       |
| 257.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Skimmed / Evaporated / Dried Milk Powder | Fat  | FSSAI MANUAL FOR MILK & DAIRY PRODUCTS - FSSAI 01.057: 2022  | 0.05 % to 10.0 %                       |
| 258.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Skimmed / Evaporated / Dried Milk Powder | Fat  | IS : 13334 (Part - I): 1998  | 0.05 % to 5.0 %                        |
| 259.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Skimmed / Evaporated / Dried Milk Powder | Insolubility Index   | FSSAI MANUAL FOR MILK & DAIRY PRODUCTS - FSSAI 01.068: 2022  | 0.01 % to 10.0 %                       |
| 260.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Skimmed / Evaporated / Dried Milk Powder | Protein  | FSSAI MANUAL FOR MILK & DAIRY PRODUCTS - FSSAI 01.062: 2022  | 1.0 % to 50.0 %                        |
| 261.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Skimmed / Evaporated / Dried Milk Powder | Protein  | IS : 13334 (Part - I): 1998  | 0.1 % to 50.0 %                        |

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| 262.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Skimmed / Evaporated / Dried Milk Powder | Scorched Particle  | IS : 13334 (Part - I): 1998  | 1.0 % to 20.0 %                        |
| 263.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Skimmed / Evaporated / Dried Milk Powder | Scorched Particle  | FSSAI MANUAL FOR MILK & DAIRY PRODUCTS - FSSAI 01.070: 2022  | 0.1 % to 20.0 %                        |
| 264.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Skimmed / Evaporated / Dried Milk Powder | Solubility Index   | IS : 13334 (Part - I): 1999  | 0.5 ml to 5.0 ml                       |
| 265.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Skimmed / Evaporated / Dried Milk Powder | Titratable Acidity   | IS : 13334 (Part - I): 1999  | 0.01 % to 5.0 %                        |
| 266.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Skimmed / Evaporated / Dried Milk Powder | Titratable Acidity   | FSSAI MANUAL FOR MILK & DAIRY PRODUCTS - FSSAI 01.059: 2022  | 0.01 % to 5.0 %                        |
| 267.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Skimmed / Evaporated / Dried Milk Powder | Total Solid (Milk Solid with Added Salt)   | FSSAI MANUAL FOR MILK & DAIRY PRODUCTS - FSSAI 01.053: 2022  | 80.0 % to 99.99 %                      |
| 268.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Whole Milk Powder                        | Acid Insoluble Ash in Dilute HCl   | FSSAI MANUAL FOR MILK & DAIRY PRODUCTS - FSSAI 01.06565: 2022  | 0.001 % to 5.0 %                       |
| 269.   | CHEMICAL/ FOOD & AGRICULTURAL          | Whole Milk Powder                        | Acid Insoluble Ash in Dilute HCl   | IS : 13334 (Part - I): 1998  | 0.001 % to 5.0 %                       |

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|--------|---|------------------------------|--|--|--|
|        | PRODUCTS  |                              |  |  |  |
| 270.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Whole Milk Powder            | Carbohydrate (By Difference  | IS : 13334 (Part - I): 1998  | 10.0 % to 60.0 %                       |
| 271.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Whole Milk Powder            | Carbohydrate (By Difference  | FSSAI MANUAL FOR MILK & DAIRY PRODUCTS - FSSAI 01.067: 2022  | 10.0 % to 60.0 %                       |
| 272.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Whole Milk Powder            | Fat  | FSSAI MANUAL FOR MILK & DAIRY PRODUCTS - FSSAI 01.057: 2022  | 10.0 % to 80.0 %                       |
| 273.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Whole Milk Powder            | Insolubility Index   | FSSAI MANUAL FOR MILK & DAIRY PRODUCTS - FSSAI 01.068: 2022  | 0.5 % to 5.0 %                         |
| 274.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Whole Milk Powder            | Protein  | FSSAI MANUAL FOR MILK & DAIRY PRODUCTS - FSSAI 01.062: 2022  | 10.0 % to 50.0 %                       |
| 275.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Whole Milk Powder            | Protein  | IS : 13334 (Part - I): 2022  | 10.0 % to 50.0 %                       |
| 276.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Whole Milk Powder            | Solubility Index   | IS : 13334 (Part - I): 1998  | 0.5 ml to 5.0 ml                       |
| 277.   | CHEMICAL/<br>FOOD &<br>AGRICULTURAL<br>PRODUCTS | Whole Milk Powder            | Titratable Acidity   | IS : 13334 (Part - I): 2022  | 0.01 % to 5.0 %                        |

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| 278.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Whole Milk Powder            | Titrateable Acidity  | FSSAI MANUAL FOR MILK & DAIRY PRODUCTS - FSSAI 01.059: 2022  | 0.01 % to 5.0 %                        |
| 279.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Whole Milk Powder            | Total Solid  | FSSAI MANUAL FOR MILK & DAIRY PRODUCTS - FSSAI 01.059: 2022  | 80.0 % to 99.99 %                      |
| 280.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Edible Common Salt           | Acid Insoluble Matter  | IS : 253: 1985   | 0.001 % to 3 %                         |
| 281.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Edible Common Salt           | Alkalinity as Na <sub>2</sub> CO <sub>3</sub>  | IS : 253: 1985   | 0.01 % to 10 %                         |
| 282.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Edible Common Salt           | Chloride Content   | IS : 253: 1985   | 1 % to 98 %                            |
| 283.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Edible Common Salt           | Iodine as I  | IS : 7224: 2006  | 0.01 ppm to 99 ppm                     |
| 284.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Edible Common Salt           | Matter soluble in water other than NaCl  | IS : 253: 1985   | 0.1 % to 70 %                          |
| 285.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Edible Common Salt           | Moisture Content   | IS : 253: 1985   | 0.01 % to 50 %                         |
| 286.   | CHEMICAL/ FOOD &                       | Edible Common Salt           | Sulphate   | IS : 253: 1985   | 0.01 % to 10 %                         |

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|        | AGRICULTURAL PRODUCTS                  |                              |  |  |  |
| 287.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Edible Common Salt           | Water Insoluble Matter   | IS : 253: 1985   | 0.001 % to 10 %                        |
| 288.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Edible Common Salt           | Water Soluble Calcium  | IS : 253: 1985   | 0.001 % to 5 %                         |
| 289.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Edible Common Salt           | Water Soluble Magnesium  | IS : 253: 1985   | 0.001 % to 5 %                         |
| 290.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Sugar                        | Acid Insoluble Ash   | IS : 15279: 2003   | 0.001 % to 25 %                        |
| 291.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Sugar                        | Ash on Drying  | IS : 15279: 2003   | 0.001 % to 60 %                        |
| 292.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Sugar                        | Reducing Sugar   | IS : 15279: 2003   | 0.01 % to 70 %                         |
| 293.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Sugar                        | Sucrose  | IS : 15279: 2003   | 0.01 % to 95 %                         |
| 294.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Sugar                        | Sulphated Ash  | IS : 15279: 2003   | 0.001 % to 25 %                        |

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| 295.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Sugar                        | Total Ash  | IS : 15279: 2003   | 0.01 % to 25 %                                   |
| 296.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | Sugar                        | Total Protein  | IS : 7219: 1973  | 0.01 % to 30 %                                   |
| 297.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | White Sugar                  | % Retained by Sieve  | IS : 15279: 2003   | 50.0 % to 100.0 %                                |
| 298.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | White Sugar                  | Colour   | IS : 15279: 2003   | Qualitative :White/ Pale White/ Cream/ O f White |
| 299.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | White Sugar                  | Colour in ICUMSA Nits  | IS : 15279: 2003   | 30 IU to 200 IU                                  |
| 300.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | White Sugar                  | Extraneous Matter  | IS : 15279: 2003   | 0.001 % to 1.0 %                                 |
| 301.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | White Sugar                  | Granulation  | IS : 15279: 2003   | Qualitative :Fine / Crysta line                  |
| 302.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS | White Sugar                  | Iron Filing  | IS : 15279: 2003   | Qualitative :Present / Absent                    |
| 303.   | CHEMICAL/ FOOD &                       | White Sugar                  | Moisture   | IS : 15279: 2003   | 0.001 % to 5.0 %                                 |

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|        | AGRICULTURAL PRODUCTS                       |                              |  |  |   |
| 304.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS      | White Sugar                  | Reducing Sugar   | IS : 15279: 2003   | 0.001 % to 1.0 %                                      |
| 305.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS      | White Sugar                  | Sediments  | IS : 15279: 2003   | Qualitative :Present / Absent                         |
| 306.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS      | White Sugar                  | Sme I  | IS : 15279: 2003   | Qualitative :Free from any Sme I / Disagreeable Sme I |
| 307.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS      | White Sugar                  | Solubility   | IS : 15279: 2003   | Qualitative :Soluble / Insoluble                      |
| 308.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS      | White Sugar                  | Sucrose  | IS : 15279: 2003   | 80.0 % to 100.0 %                                     |
| 309.   | CHEMICAL/ FOOD & AGRICULTURAL PRODUCTS      | White Sugar                  | Sulphur Dioxide as SO <sub>2</sub>   | IS : 15279: 2003   | 1.0 mg/Kg to 50.0 mg/Kg                               |
| 310.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Fortified Rice               | Iron   | FSSAI MANUAL : Method for Determination of Iron in Fortified Rice - FSSAI.FR.16.001. 2022 (Annexure - I): 2022 | 0.05 mg/Kg to 50.0 mg/Kg                              |

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| 311.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Fortified Rice               | Vitamin B12 as Cyanocobalamin  | FSSAI MANUAL : Method for Determination of Cyanocobalamin (B12) in Fortified Rice FSSAI.FR.16.003. 2022 (Annexure - III): 2022     | 0.5 microg/Kg to 20.0 microg/Kg        |
| 312.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Fortified Rice               | Vitamin B9 as Folic Acid   | FSSAI MANUAL : Method for Determination of Folic Acid (Vitamin B9) in Fortified Rice - FSSAI.FR.16.002. 2022 (Annexure - II): 2022 | 2.0 microg/Kg to 200.0 microg/Kg       |
| 313.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Fortified Rice Kernels (FRK) | Admixture  | IS : 4333 (Part - 1): 2012   | Qualitative :Present / Absent          |
| 314.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Fortified Rice Kernels (FRK) | Average Grain Breadth  | ST/STP/PHYSICAL ANALYSIS/FRK/BRE 2022  | 0.01 mm to 10.0 mm ADTH:               |
| 315.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Fortified Rice Kernels (FRK) | Average Grain Length   | ST/STP/PHYSICAL ANALYSIS/FRK/LEN 2022  | G0T.0H1: mm to 10.0 mm                 |
| 316.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Fortified Rice Kernels (FRK) | Average Grain Length   | ST/STP/PHYSICAL ANALYSIS/FRK/LEN 2022  | 0.01 mm to 10.0 mm GTH:                |
| 317.   | CHEMICAL/ NUTRACEUTICALS                    | Fortified Rice Kernels (FRK) | Average Grain Length   | ST/STP/PHYSICAL ANALYSIS/FRK/LEN   | G0T.0H1: mm to 10.0 mm                 |

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|--------|---|------------------------------|--|--|--|
|        | & FUNCTIONAL FOODS                          |                              |  | 2022   |  |
| 318.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Fortified Rice Kernels (FRK) | Broken Fortified Rice Kernels  | IS : 4333 (Part - 1): 2012   | 0.01 % to 10.0 %   |
| 319.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Fortified Rice Kernels (FRK) | Chalky Grains  | IS : 4333 (Part - 1): 2012   | Qualitative :Present / Absent  |
| 320.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Fortified Rice Kernels (FRK) | Colour   | ST/STP/PHYSICAL ANALYSIS/FRK/CO 2022   | Qualitative :White/ O f LOWU hRite:/ Brown / Black/ Other than White |
| 321.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Fortified Rice Kernels (FRK) | Damaged Grains   | IS : 4333 (Part - 1): 2012   | Qualitative :Present / Absent  |
| 322.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Fortified Rice Kernels (FRK) | Discoloured Grains   | IS : 4333 (Part - 1): 2012   | Qualitative :Present / Absent  |
| 323.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Fortified Rice Kernels (FRK) | Foreign Matter (Organic & Inorganic)   | IS : 17782 - Annex A: 2021   | 0.0001 % to 10.0 %   |
| 324.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Fortified Rice Kernels (FRK) | Iron   | FSSAI MANUAL : Method for Determination of Iron in Fortified Rice - FSSAI.FR.16.004.202 2023         | 50.0 mg/100g to 500.0 mg/100g  |
| 325.   | CHEMICAL/ NUTRACEUTICALS                    | Fortified Rice Kernels (FRK) | Kernel Count   | IS : 4333 (Part - 4): 2017   | 0.1 g to 100.0 g   |

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|--------|---|------------------------------|--|---|---|
|        | & FUNCTIONAL FOODS                          |                              |  |   |   |
| 326.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Fortified Rice Kernels (FRK) | Moisture Content as MC   | IS : 4333 (Part - 2): 2002  | 0.1 % to 25.0 %   |
| 327.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Fortified Rice Kernels (FRK) | Shape  | ST/STP/PHYSICAL ANALYSIS/FRK/SHA 2022   | Qualitative : (Resembling to / Not PE: Resembling to) Normal Milled Rice Drains |
| 328.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Fortified Rice Kernels (FRK) | Vitamin A as Retinol   | ST/STP/VITAMIN/A: 2022  | 1.0 mg/Kg to 100.0 mg/Kg  |
| 329.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Fortified Rice Kernels (FRK) | Vitamin B1 as Thiamine   | ST/STP/VITAMIN/B1 2022  | : 1.0 mg/Kg to 100.0 mg/Kg  |
| 330.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Fortified Rice Kernels (FRK) | Vitamin B12 as Cyanocobalamine   | FSSAI MANUAL : Method for Determination of Cyanocobalamine (B12) in Fortified Rice - FSSAI.FR.16.006.202 2023 | 0.5 microg/Kg to 20.0 microg/Kg   |
| 331.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Fortified Rice Kernels (FRK) | Vitamin B2 as Riboflavin   | ST/STP/VITAMIN/B2 2022  | : 1.0 mg/Kg to 500.0 mg/Kg  |

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| 332.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Fortified Rice Kernels (FRK)                                     | Vitamin B3 as Niacin   | ST/STP/VITAMIN/B3 2022  | : 1.0 mg/Kg to 100.0 mg/Kg             |
| 333.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Fortified Rice Kernels (FRK)                                     | Vitamin B6 as Pyridoxine   | ST/STP/VITAMIN/B6 2022  | : 1.0 mg/Kg to 100.0 mg/Kg             |
| 334.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Fortified Rice Kernels (FRK)                                     | Vitamin B9 as Folic Acid   | FSSAI MANUAL : Method for Determination of Folic Acid (B9) in Fortified Rice - FSSAI.FR.16.005.202 2023: 2023 | 2.0 microg/Kg to 40.0 microg/Kg        |
| 335.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Fortified Rice Kernels (FRK)                                     | Zinc   | AOAC - 984.27 (50.1.15) - 25 th Edition -Volume II: 2016  | 0.1 mg/Kg to 50.0 mg/Kg                |
| 336.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Iron Fortified Iodized Salt (Double Fortified Salt) - Food Grade | Chlorine Content as NaCl (on Dry Basis)  | IS : 253 - A5: 2020   | 10.0 % to 100.0 %                      |
| 337.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Iron Fortified Iodized Salt (Double Fortified Salt) - Food Grade | Iodine Content as I  | IS : 16232 - Annex B: 2020  | 10.0 mg/Kg to 90.0 mg/Kg               |
| 338.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Iron Fortified Iodized Salt (Double Fortified Salt) - Food Grade | Iron Content as Fe   | IS :16232 - Annex A: 2020   | 200.0 mg/Kg to 1500.0 mg/Kg            |

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**Food Safety and Standards Authority of India**  
(Ministry of Health and Family Welfare, Govt. of India)

**SCOPE OF ACCREDITATION**

**Laboratory Name** Sun Tech, 40-P, Tupudana Industrial Area, Hatia, Ranchi, Jharkhand

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

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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 | Range of Testing / Limits of Detection |
|--------|---|--|--|--|--|
| 339.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Iron Fortified Iodized Salt (Double Fortified Salt) - Food Grade | Magnesium (Water Soluble)  | IS : 253- Annex A7: 2020   | 0.001 % to 2.0 %                       |
| 340.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Iron Fortified Iodized Salt (Double Fortified Salt) - Food Grade | Matter Insoluble in Dilute HCl (on Dry Basis)  | IS253 - Annex A6: 2020   | 0.01 % to 5.0 %                        |
| 341.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Iron Fortified Iodized Salt (Double Fortified Salt) - Food Grade | Matter Soluble in Water other than Sodium Chloride (on Dry Basis)  | IS : 253 - Annex A6: 2020  | 0.01 % to 5.0 %                        |
| 342.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Iron Fortified Iodized Salt (Double Fortified Salt) - Food Grade | Moisture   | IS : 7224 - Annex A: 2006  | 0.01 % to 5.0 %                        |
| 343.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Iron Fortified Iodized Salt (Double Fortified Salt) - Food Grade | pH   | IS : 16232 - Annex C: 2020   | 0.01to 14.0                            |
| 344.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Iron Fortified Iodized Salt (Double Fortified Salt) - Food Grade | Phosphorus as P2O5 (on Dry Basis)  | IS : 16232 - Annex D: 2020   | 1000.0 mg/Kg to 5000.0 mg/Kg           |
| 345.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Iron Fortified Iodized Salt (Double Fortified Salt) - Food       | Sodium Hexa meta Phosphate (on Dry Basis)  | IS : 16232 - Annex E: 2020   | 0.001 % to 2.0 %                       |

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|        |  | Grade  |  |  |  |
| 346.   | CHEMICAL/<br>NUTRACEUTICALS<br>& FUNCTIONAL<br>FOODS | Iron Fortified<br>Iodized Salt<br>(Double Fortified<br>Salt) - Food<br>Grade       | Sulphate as SO <sub>4</sub>  | IS : 253 - Annex A8:<br>2020   | 0.001 % to 10.0 %                              |
| 347.   | CHEMICAL/<br>NUTRACEUTICALS<br>& FUNCTIONAL<br>FOODS | Iron Fortified<br>Iodized Salt<br>(Double Fortified<br>Salt) - Food<br>Grade       | Water Insoluble Matter   | IS : 253 Annex A4:<br>2020   | 0.01 % to 5.0 %                                |
| 348.   | CHEMICAL/<br>NUTRACEUTICALS<br>& FUNCTIONAL<br>FOODS | Vitamins &<br>Minerals Premix<br>for<br>Manufacturing<br>Fortified Rice<br>Kernels | Micronized Ferric<br>pyrophosphate as Total<br>Iron  | FSSAI MANUAL :<br>Method for<br>Determination of Iron<br>in Premix -<br>FSSAI.FR.16.008.202<br>2023  | 200.0 mg/100g to<br>5000.0 mg/100g             |
| 349.   | CHEMICAL/<br>NUTRACEUTICALS<br>& FUNCTIONAL<br>FOODS | Vitamins &<br>Minerals Premix<br>for<br>Manufacturing<br>Fortified Rice<br>Kernels | Moisture Content   | IS : 16072 : 2012  | 0.1 % to 25.0 %                                |
| 350.   | CHEMICAL/<br>NUTRACEUTICALS<br>& FUNCTIONAL<br>FOODS | Vitamins &<br>Minerals Premix<br>for<br>Manufacturing<br>Fortified Rice<br>Kernels | Particle Size of Micronized<br>Ferric pyrophosphate (D90<br>particles)                                     | IS : 5282: 1969  | 0.01 micron to 5.0<br>micron                   |
| 351.   | CHEMICAL/<br>NUTRACEUTICALS<br>& FUNCTIONAL<br>FOODS | Vitamins &<br>Minerals Premix<br>for<br>Manufacturing<br>Fortified Rice            | Vitamin A as Retinol   | ST/STP/VITAMIN/A:<br>2022  | 1000.0 microg/100g<br>to 9000.0<br>microg/100g |

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| 352.   | CHEMICAL/<br>NUTRACEUTICALS<br>& FUNCTIONAL<br>FOODS | Kernels<br>Vitamins & Minerals Premix for Manufacturing Fortified Rice Kernels | Vitamin B1 as Thiamine   | ST/STP/VITAMIN/B1 2022   | : 10.0 mg/100gÅ to 1000.0 mg/100gÅ     |
| 353.   | CHEMICAL/<br>NUTRACEUTICALS<br>& FUNCTIONAL<br>FOODS | Vitamins & Minerals Premix for Manufacturing Fortified Rice Kernels            | Vitamin B12 as Cyanocobalamin  | FSSAI MANUAL : Method for Determination of Cyanocobalamin (as Vitamin B12) in Premix -FSSAI.FR.16.010.202 2023 | 10.0 microg/100g to 100.0 microg/100g  |
| 354.   | CHEMICAL/<br>NUTRACEUTICALS<br>& FUNCTIONAL<br>FOODS | Vitamins & Minerals Premix for Manufacturing Fortified Rice Kernels            | Vitamin B2 as Riboflavin   | ST/STP/VITAMIN/B2 2022   | 10.0 mg/100 gÅ to 1000.0 mg/100 gÅ     |
| 355.   | CHEMICAL/<br>NUTRACEUTICALS<br>& FUNCTIONAL<br>FOODS | Vitamins & Minerals Premix for Manufacturing Fortified Rice Kernels            | Vitamin B3 as Niacin   | ST/STP/VITAMIN/B3 2022   | 10.0 mg/100gÅ to 1000.0 mg/100gÅ       |
| 356.   | CHEMICAL/<br>NUTRACEUTICALS<br>& FUNCTIONAL<br>FOODS | Vitamins & Minerals Premix for Manufacturing Fortified Rice Kernels            | Vitamin B6 as Pyridoxine   | ST/STP/VITAMIN/B6 2022   | : 10.0 mg/100gÅ to 1000.0 mg/100gÅ     |
| 357.   | CHEMICAL/<br>NUTRACEUTICALS                          | Vitamins & Minerals Premix   | Vitamin B9 as Folic Acid   | FSSAI MANUAL : Method for  | 100.0 microg/100g to 5000.0            |

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|--------|---|---|--|--|--|
|        | & FUNCTIONAL FOODS                          | for Manufacturing Fortified Rice Kernels  |  | Determination of Folic Acid (as Vitamin B9) in Premix - FSSAI.FR.16.009.202 2023                     | microg/100g                            |
| 358.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Vitamins & Minerals Premix for Manufacturing Fortified Rice Kernels                 | Zinc Oxide as ZnO  | AOAC - 984.27 (50.1.15) - 20 <sup>th</sup> Edition -Volume II: 2016                                  | 1.0 mg/Kg to 1000.0 mg/Kg              |
| 359.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Edible Salt - Iodized Salt, Vacuum Evaporated Iodized Salt and Refined Iodized Salt | Arsenic as As  | AOAC - 2015.01 (9 .2.42)-20th Edition - Volume I: 2016   | 0.001 ppm 10.0 ppm                     |
| 360.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Edible Salt - Iodized Salt, Vacuum Evaporated Iodized Salt and Refined Iodized Salt | Lead as Pb   | AOAC - 2015.01 (9 .2.42)-20th Edition - Volume I: 2016   | 0.001 ppm to 10.0 ppm                  |
| 361.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Indian Curry Powder   | Arsenic as As  | AOAC - 2015.01 (9 .2.42)-20th Edition - Volume I: 2016   | Qualitative :Present / Absent (Nil)    |
| 362.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Indian Curry Powder   | Cadmium as Cd  | AOAC - 2015.01 (9 .2.42)-20th Edition - Volume I: 2016   | Qualitative :Present / Absent (Nil)    |

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| 363.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Indian Curry Powder          | Lead as Pb   | AOAC - 2015.01 (9 .2.42)-20th Edition - Volume I: 2016   | 0.01 ppm to 30.0 ppm                   |
| 364.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Mustard Oil                  | Arsenic as As  | AOAC - 2015.01 (9 .2.42)-20th Edition - Volume I: 2016   | 0.01 mg/Kg to 5.0 mg/Kg                |
| 365.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Mustard Oil                  | Cadmium as Cd  | AOAC - 2015.01 (9 .2.42)-20th Edition - Volume I: 2016   | 0.01 mg/Kg to 5.0 mg/Kg                |
| 366.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Mustard Oil                  | Lead as Pb   | AOAC - 2015.01 (9 .2.42)-20th Edition - Volume I: 2016   | 0.01 mg/Kg to 5.0 mg/Kg                |
| 367.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Mustard Oil                  | Mercury as Hg  | AOAC - 2015.01 (9 .2.42)-20th Edition - Volume I: 2016   | 0.01 mg/Kg to 5.0 mg/Kg                |
| 368.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Olive Oil                    | Arsenic as As  | AOAC - 2015.01 (9 .2.42)-20th Edition - Volume I: 2016   | 0.01 mg/Kg to 5.0 mg/Kg                |
| 369.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Olive Oil                    | Cadmium as Cd  | AOAC - 2015.01 (9 .2.42)-20th Edition - Volume I: 2016   | 0.01 mg/Kg to 5.0 mg/Kg                |
| 370.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Olive Oil                    | Lead as Pb   | AOAC - 2015.01 (9 .2.42)-20th Edition - Volume I: 2016   | 0.01 mg/Kg to 5.0 mg/Kg                |
| 371.   | CHEMICAL/ NUTRACEUTICALS                    | Olive Oil                    | Mercury as Hg  | AOAC - 2015.01 (9 .2.42)-20th Edition -  | 0.01 mg/Kg to 5.0 mg/Kg                |

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|        | & FUNCTIONAL FOODS                          |                              |  | Volume I: 2016   |  |
| 372.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Turmeric (Whole & Powder)    | Arsenic as As  | AOAC - 2015.01 (9 .2.42)-20th Edition - Volume I: 2016   | 0.001 ppmt to 1.0 ppm                  |
| 373.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Turmeric (Whole & Powder)    | Cadmium as Cd  | AOAC - 2015.01 (9 .2.42)-20th Edition - Volume I: 2016   | 0.001 ppmt to 10.0 ppm                 |
| 374.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Turmeric (Whole & Powder)    | Copper as Cu   | AOAC - 2015.01 (9 .2.42)-20th Edition - Volume I: 2016   | 0.01 ppmt to 10.0 ppm                  |
| 375.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Turmeric (Whole & Powder)    | Lead as Pb   | AOAC - 2015.01 (9 .2.42) - 20th Edition - Volume I: 2016   | 0.01 ppmt to 30.0 ppm                  |
| 376.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Turmeric (Whole & Powder)    | Tin as Sn  | AOAC - 2015.01 (9 .2.42)-20th Edition - Volume I: 2016   | Qualitative :Present / Absent (Nil)    |
| 377.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Turmeric (Whole & Powder)    | Zinc as Zn   | AOAC - 2015.01 (9 .2.42)-20th Edition - Volume I: 2016   | 0.1 ppmt to 50.0 ppm                   |
| 378.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Vegetable Oils               | Arsenic ac As  | AOAC - 2015.01 (9 .2.42)-20th Edition - Volume I: 2016   | 0.01 mg/Kg to 5.0 mg/Kg                |
| 379.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS | Vegetable Oils               | Cadmium as Cd  | AOAC - 2015.01 (9 .2.42)-20th Edition - Volume I: 2016   | 0.01 mg/Kg to 5.0 mg/Kg                |

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| 380.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS  | Vegetable Oils   | Lead as Pb   | AOAC - 2015.01 (9.2.42)-20th Edition - Volume I: 2016  | 0.01 mg/Kg to 5.0 mg/Kg                |
| 381.   | CHEMICAL/ NUTRACEUTICALS & FUNCTIONAL FOODS  | Vegetable Oils   | Mercury as Hg  | AOAC - 2015.01 (9.2.42)-20th Edition - Volume I: 2016  | 0.01 mg/Kg to 5.0 mg/Kg                |
| 382.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Bromodichloromethane   | APHA - 6232: 2017  | 0.001 mg/l to 0.1 mg/l                 |
| 383.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Bromoform  | APHA - 6232: 2017  | 0.001 mg/l to 1.0 mg/l                 |
| 384.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Chloroform   | APHA - 6232: 2017  | 0.001 mg/l to 1.0 mg/l                 |
| 385.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Dibromochloromethane   | APHA - 6232: 2017  | 0.001 mg/l to 1.0 mg/l                 |
| 386.   | CHEMICAL/ RESIDUES AND                       | Packaged Drinking Water,   | 2,4 - Dichlorophenol Acetic acid (2,4 - D)   | ST/STP/CHEM/PR/01: 2022  | 0.01 microg/l to 50.0 microg/l         |

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|        | CONTAMINANTS IN WATER                        | Drinking Water, Surface Water & Water from Purifier                          |  |  |  |
| 387.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Alachor  | ST/STP/CHEM/PR/01: 2022  | 0.01 microg/l to 50.0 microg/l         |
| 388.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Aldrin/ Dieldrin   | ST/STP/CHEM/PR/01: 2022  | 0.001 microg/l to 50.0 microg/l        |
| 389.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Alpha HCH  | ST/STP/CHEM/PR/01: 2022  | 0.001 microg/l to 50.0 microg/l        |
| 390.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Atrazine   | ST/STP/CHEM/PR/01: 2022  | 0.01 microg/l to 50.0 microg/l         |
| 391.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Beta HCH   | ST/STP/CHEM/PR/01: 2022  | 0.001 microg/l to 50.0 microg/l        |

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| 392.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Butachlor  | ST/STP/CHEM/PR/01: 2022  | 0.01 microg/l to 200 microg/l          |
| 393.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Chloropyriphos   | ST/STP/CHEM/PR/01: 2022  | 0.01 microg/l to 50.0 microg/l         |
| 394.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | DDT (o, p and p, p isomers of DDT, DDE and DDD)  | ST/STP/CHEM/PR/01: 2022  | 0.001 microg/l to 50.0 microg/l        |
| 395.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Delta HCH  | ST/STP/CHEM/PR/01: 2022  | 0.001 microg/l to 50.0 microg/l        |
| 396.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Endosulfan (alpha, beta & Sulphate)  | ST/STP/CHEM/PR/01: 2022  | 0.001 microg/l to 50.0 microg/l        |
| 397.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water &                     | Ethion   | ST/STP/CHEM/PR/01: 2022  | 0.001 microg/l to 50.0 microg/l        |

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|        |  | Water from Purifier  |  |  |  |
| 398.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Gamma HCH  | ST/STP/CHEM/PR/01: 2022  | 0.001 microg/l to 50.0 microg/l        |
| 399.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Isoproturon  | ST/STP/CHEM/PR/01: 2022  | 0.001 microg/l to 50.0 microg/l        |
| 400.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Malathion  | ST/STP/CHEM/PR/01: 2022  | 0.01 microg/l to 300.0 microg/l        |
| 401.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Methyl Parathion   | ST/STP/CHEM/PR/01: 2022  | 0.01 microg/l to 50.0 microg/l         |
| 402.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Monocrotophos  | ST/STP/CHEM/PR/01: 2022  | 0.01 microg/l to 50.0 microg/l         |
| 403.   | CHEMICAL/ RESIDUES AND                       | Packaged Drinking Water,   | Phorate  | ST/STP/CHEM/PR/01: 2022  | 0.01 microg/l to 100.0 microg/l        |

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|--------|--|--|--|--|--|
|        | CONTAMINANTS IN WATER                        | Drinking Water, Surface Water & Water from Purifiers                         |  |  |  |
| 404.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Industrial Water - Water used in Processed Food Industry                     | Phenolic Compound as C <sub>6</sub> H <sub>5</sub> OH  | IS : 3025 (Part - 43) Clause 6 - 4 Aminoantipyrine Method: 1992                                      | Qualitative :Present / Absent          |
| 405.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Phenolic Compound as C <sub>6</sub> H <sub>5</sub> OH  | IS : 3025 (Part - 43), Clause 6 - 4 Aminoantipyrine Method: 1992                                     | 0.0001 mg/l to 1.0 mg/l                |
| 406.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | 2 - Chlorobiphenyl   | ST/STP/CHEM/PR/01: 2022  | 0.01 microg/l to 100.0 microg/l        |
| 407.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | 2,2,3,3,4,4,5,5 - Octachlorobiphenyl   | ST/STP/CHEM/PR/01: 2022  | 0.01 microg/l to 100.0 microg/l        |
| 408.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | 2,2,3,3,6,6 - Hexachlorobiphenyl   | ST/STP/CHEM/PR/01: 2022  | 0.01 microg/l to 100.0 microg/l        |
| 409.   | CHEMICAL/ RESIDUES AND                       | Packaged Drinking Water,   | 2,2,3,4,5,5,6 - Heptachlorobiphenyl  | ST/STP/CHEM/PR/01: 2022  | 0.01 microg/l to 100.0 microg/l        |

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|        | CONTAMINANTS IN WATER                        | Drinking Water, Surface Water & Water from Purifier                          |  |  |  |
| 410.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | 2,2,3,5,6 - Pentachlorobiphenyl  | ST/STP/CHEM/PR/01: 2022  | 0.01 microg/l to 100.0 microg/l        |
| 411.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | 2,2,4,4 - Tetrachlorobiphenyl  | ST/STP/CHEM/PR/01: 2022  | 0.01 microg/l to 100.0 microg/l        |
| 412.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | 2,4,5 - Trichlorobiphenyl  | ST/STP/CHEM/PR/01: 2022  | 0.01 microg/l to 100.0 microg/l        |
| 413.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | 2,2,3,3,4,4,5,5,6 - Nanochlorobiphenyl   | ST/STP/CHEM/PR/01: 2022  | 0.01 microg/l to 100.0 microg/l        |
| 414.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | 3,3 - Dichlorobiphenyl   | ST/STP/CHEM/PR/01: 2022  | 0.01 microg/l to 100.0 microg/l        |

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| 415.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Decachloribiphenyl   | ST/STP/CHEM/PR/01: 2022  | 0.01 microg/l to 100.0 microg/l        |
| 416.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Acenaphthylene   | ST/STP/CHEM/PR/01: 2022  | 0.01 microg/l to 100.0 microg/l        |
| 417.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Acenaphthene   | ST/STP/CHEM/PR/01: 2022  | 0.01 microg/l to 100.0 microg/l        |
| 418.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Anthracene   | ST/STP/CHEM/PR/01: 2022  | 0.01 microg/l to 100.0 microg/l        |
| 419.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Benzo (B) Fluoranthene   | ST/STP/CHEM/PR/01: 2022  | 0.01 microg/l to 100.0 microg/l        |
| 420.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water &                     | Benzo (B) Fluoranthene   | ST/STP/CHEM/PR/01: 2022  | 0.01 microg/l to 100.0 microg/l        |

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|        |  | Water from Purifier  |  |  |  |
| 421.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Benzo (G,H,I) Perylene   | ST/STP/CHEM/PR/01: 2022  | 0.01 microg/l to 100.0 microg/l        |
| 422.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Benzo (K) Fluoranthene   | ST/STP/CHEM/PR/01: 2022  | 0.01 microg/l to 100.0 microg/l        |
| 423.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Benzo(A) Anthracene  | ST/STP/CHEM/PR/01: 2022  | 0.01 microg/l to 100.0 microg/l        |
| 424.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Benzo(A) Pyrene  | ST/STP/CHEM/PR/01: 2022  | 0.01 microg/l to 100.0 microg/l        |
| 425.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Chrysene   | ST/STP/CHEM/PR/01: 2022  | 0.01 microg/l to 100.0 microg/l        |
| 426.   | CHEMICAL/ RESIDUES AND                       | Packaged Drinking Water,   | Dibenz (A,H) Anthracene  | ST/STP/CHEM/PR/01: 2022  | 0.01 microg/l to 100.0 microg/l        |

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|        | CONTAMINANTS IN WATER                        | Drinking Water, Surface Water & Water from Purifier                          |  |  |  |
| 427.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Fluoranthene   | ST/STP/CHEM/PR/01: 2022  | 0.01 microg/l to 100.0 microg/l        |
| 428.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Fluorene   | ST/STP/CHEM/PR/01: 2022  | 0.01 microg/l to 100.0 microg/l        |
| 429.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Indeno (1,2,3 - CD) Pyrene   | ST/STP/CHEM/PR/01: 2022  | 0.01 microg/l to 100.0 microg/l        |
| 430.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Napthalene   | ST/STP/CHEM/PR/01: 2022  | 0.01 microg/l to 100.0 microg/l        |
| 431.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking water, Drinking Water, Surface Water & Water from Purifier | Phenanthrene   | ST/STP/CHEM/PR/01: 2022  | 0.01 microg/l to 100.0 microg/l        |

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| 432.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Pyrene   | ST/STP/CHEM/PR/01: 2022  | 0.01 microg/l to 100.0 microg/l        |
| 433.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Aluminium as Al  | IS : 3025 (Part - 65): 2022  | 0.0001 mg/l to 1.0 mg/l                |
| 434.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Antimony as Sb   | IS : 3025 (Part -65): 2022   | 0.0001 mg/l to 1.0 mg/l                |
| 435.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Arsenic as As  | IS : 3025 (Part - 65): 2022  | 0.0001 mg/l to 1.0 mg/l                |
| 436.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Barium as Ba   | IS : 3025 (Part - 65): 2022  | 0.0001 mg/l to 1.0 mg/l                |
| 437.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water &                     | Boron as B   | IS : 3025 (Part -65): 2022   | 0.0001 mg/l to 1.0 mg/l                |

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|        |  | Water from Purifier  |  |  |  |
| 438.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Cadmium as Cd  | IS : 3025 (Part - 65): 2022  | 0.0001 mg/l to 1.0 mg/l                |
| 439.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Chromium as Cr   | IS : 3025 (Part -65): 2022   | 0.0001 mg/l to 1.0 mg/l                |
| 440.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Copper as Cu   | IS : 3025 (Part - 65): 2022  | 0.0001 mg/l to 1.0 mg/l                |
| 441.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Cyanide  | ST/STP/WATER/CYA 2022  | NID0.E0:001 mg/l to 1.0                |
| 442.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Iron as Fe   | IS : 3025 (Part - 65): 2022  | 0.0001 mg/l to 1.0 mg/l                |
| 443.   | CHEMICAL/ RESIDUES AND                       | Packaged Drinking Water,   | Lead as Pb   | IS: 3025 (Part - 65): 2022   | 0.0001 mg/l to 1.0 mg/l                |

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|        | CONTAMINANTS IN WATER                        | Drinking Water, Surface Water & Water from Purifier                          |  |  |  |
| 444.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Manganese as Mn  | IS : 3025 (Part - 65): 2022  | 0.0001 mg/l to 1.0 mg/l                |
| 445.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Mercury as Hg  | IS : 3025 (Part - 65): 2022  | 0.0001 mg/l to 1.0 mg/l                |
| 446.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Molybdenum as Mo   | IS : 3025 (Part - 65): 2022  | 0.0001 mg/l to 1.0 mg/l                |
| 447.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Nickel as Ni   | IS : 3025 (Part - 65): 2022  | 0.0001 mg/l to 1.0 mg/l                |
| 448.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Selenium as Se   | IS : 3025 (Part - 65):2022   | 0.0001 mg/l to 1.0 mg/l                |

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| 449.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Silver as Ag   | IS : 3025 (Part - 65): 2022  | 0.0001 mg/l to 1.0 mg/l                |
| 450.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Uranium as U   | IS : 3025 (Part - 65): 2022  | 0.0001 mg/l to 1.0 mg/l                |
| 451.   | CHEMICAL/ RESIDUES AND CONTAMINANTS IN WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Zinc as Zn   | IS : 3025 (Part - II): 2004  | 0.01 mg/l to 20 mg/l                   |
| 452.   | CHEMICAL/ WATER                              | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Ammonical Nitrogen   | IS : 3025 (Part - 34) – Titrimetric Method: 1988   | 0.01 mg/l to 5.0 mg/l                  |
| 453.   | CHEMICAL/ WATER                              | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Anionic Surfactants as MBAS  | IS : 13428 - Annexure-K: 2005  | 0.1 mg/l to 5.0 mg/l                   |
| 454.   | CHEMICAL/ WATER                              | Packaged Drinking Water, Drinking Water, Surface Water &                     | Borate as B  | IS : 3025 Part - II): 2004   | 0.1 mg/l to 10 mg/l                    |

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|        |                    | Water from Purifier  |  |  |  |
| 455.   | CHEMICAL/<br>WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Calcium  | IS : 3025 (Part - 40):1991   | 0.1 mg/l to 500 mg/l                   |
| 456.   | CHEMICAL/<br>WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Chloramines as Cl <sub>2</sub>   | IS : 3025 (Part - 26) – ANNEX - A (Clause - 6.1): 2021   | 0.1 mg/l to 5.0 mg/l                   |
| 457.   | CHEMICAL/<br>WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Fluoride   | IS : 3025 (Part - 60): 2008  | 0.1 mg/l to 10 mg/l                    |
| 458.   | CHEMICAL/<br>WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Free Residual Chlorine   | IS : 3025 (Part - 26) Clause - 3 (Idometric Method): 2021  | 0.1 mg/l to 10.0 mg/l                  |
| 459.   | CHEMICAL/<br>WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Magnesium as Mg  | IS : 3025 (Part - 46): 1994  | 0.1 mg/l to 200 mg/l                   |
| 460.   | CHEMICAL/<br>WATER | Packaged Drinking Water,   | Manganese as Mn  | IS : 3025 (Part - II): 2004  | 0.001 mg/l to 5.0 mg/l                 |

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|        |                    | Drinking Water, Surface Water & Water from Purifier                          |  |  |  |
| 461.   | CHEMICAL/ WATER    | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Mineral Oil  | FSSAI Manual of Methods of Analysis of Foods - Water (Clause - 20): 2016                             | 0.05 mg/l to 100.0 mg/l                |
| 462.   | CHEMICAL/ WATER    | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Mineral Oil  | IS : 3025 (Part - 39) Clause - 6: 1991   | Qualitative :Present / Absent          |
| 463.   | CHEMICAL/ WATER    | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Nitrate  | IS : 3025 (Part - 34) – Deverda Method : 1988  | 1.0 mg/l to 50.0 mg/l                  |
| 464.   | CHEMICAL/ WATER    | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Odour  | IS : 3025 (Part - 5): 1983   | Qualitative                            |
| 465.   | CHEMICAL/ WATER    | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Odour  | IS : 3025 (Part - 5): 1983   | Qualitative :Agreeable/ Not Agreeable  |

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|--------|--------------------|--|--|--|--|
| 466.   | CHEMICAL/<br>WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | pH   | IS : 3025 (Part - 11): 2002  | 1to 14                                 |
| 467.   | CHEMICAL/<br>WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | pH   | IS : 3025 (Part - 11): 2002  | 2to 12                                 |
| 468.   | CHEMICAL/<br>WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Potassium  | IS : 3025 (Part - 45): 1993  | 0.1 mg/l to 90 mg/l                    |
| 469.   | CHEMICAL/<br>WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Silica   | IS : 3025 (Part - 35): 1988  | 0.1 mg/l to 80 mg/l                    |
| 470.   | CHEMICAL/<br>WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Sodium   | IS : 3025 (Part - 45): 1993  | 0.1 mg/l to 500 mg/l                   |
| 471.   | CHEMICAL/<br>WATER | Packaged Drinking Water, Drinking Water, Surface Water &                     | Sodium   | IS : 3025 (Part - 45) Clause 5 - Flame Photometric analysis: 1993                                    | 1.0 mg/l to 800.0 mg/l                 |

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**Laboratory Name** Sun Tech, 40-P, Tupudana Industrial Area, Hatia, Ranchi, Jharkhand

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

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|--------|--------------------|--|--|--|--|
|        |                    | Water from Purifier  |  |  |  |
| 472.   | CHEMICAL/<br>WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Specific Conductance   | IS : 3025 (Part - 14): 1984  | 0.001 micro s/cm to 2000 Å micro s/cm  |
| 473.   | CHEMICAL/<br>WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Taste  | IS : 3025 (Part - 8): 1984   | Qualitative :Agreeable/ Not Agreeable  |
| 474.   | CHEMICAL/<br>WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Taste  | IS : 3025 (Part - 8): 1984   | Qualitative :Agreeable/ Not Agreeable  |
| 475.   | CHEMICAL/<br>WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Total Residue (Total Solids - Dissolved & Suspended)   | IS : 3025 (Part - 15): 1984  | 1 mg/l to 5000 mg/l                    |
| 476.   | CHEMICAL/<br>WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Turbidity  | IS : 3025 (Part - 10): 1984  | 1 NTU to 500 NTU                       |

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| 477.   | CHEMICAL/<br>WATER | Packaged Drinking Water, Drinking Water, Surface Water & Water from Purifier | Turbidity  | IS : 3025 (Part - 10): 1984  | 1 NTU to 500 NTU                       |
| 478.   | CHEMICAL/<br>WATER | Packaged Drinking Water, Ground Water, Surface Water & Water from Purifier   | Acidity  | IS : 3025 (Part - 22): 1986  | 0.5 ml to 50 ml                        |
| 479.   | CHEMICAL/<br>WATER | Packaged Drinking Water, Ground Water, Surface Water & Water from Purifier   | Alkalinity   | IS : 3025 (Part - 23): 1986  | 0.5 mg/l to 800 mg/l                   |
| 480.   | CHEMICAL/<br>WATER | Packaged Drinking Water, Ground Water, Surface Water & Water from Purifier   | Bromide  | IS : 3025 (Part - 30): 1988  | 0.1 mg/l to 100 mg/l                   |
| 481.   | CHEMICAL/<br>WATER | Packaged Drinking Water, Ground Water, Surface Water & Water from Purifier   | Chloride   | IS : 3025 (Part - 32): 1988  | 0.1 mg/l to 1000 mg/l                  |
| 482.   | CHEMICAL/<br>WATER | Packaged Drinking Water, Ground Water, Surface Water &                       | Chlorine Demand  | IS : 3025 (Part - 25): 1986  | 0.2 mg/l to 200 mg/l                   |

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|--------|--------------------|--|--|--|--|
|        |                    | Water from Purifier  |  |  |  |
| 483.   | CHEMICAL/<br>WATER | Packaged Drinking Water, Ground Water, Surface Water & Water from Purifier | Filterable Residue (Total Dissolved Solid)   | IS : 3025 (Part - 16): 1984  | 1 mg/l to 5000 mg/l                    |
| 484.   | CHEMICAL/<br>WATER | Packaged Drinking Water, Ground Water, Surface Water & Water from Purifier | Iodide   | IS : 3025 (Part - 33): 2003  | 0.01 mg/l to 200 mg/l                  |
| 485.   | CHEMICAL/<br>WATER | Packaged Drinking Water, Ground Water, Surface Water & Water from Purifier | Nitrite  | IS : 3025 (Part - 34): 1988  | 0.01 mg/l to 200 mg/l                  |
| 486.   | CHEMICAL/<br>WATER | Packaged Drinking Water, Ground Water, Surface Water & Water from Purifier | Non - Filterable Residue (Total Suspended Solids)  | IS : 3025 (Part - 17): 1984  | 1 mg/l to 5000 mg/l                    |
| 487.   | CHEMICAL/<br>WATER | Packaged Drinking Water, Ground Water, Surface Water & Water from Purifier | Phosphorus as P  | IS : 3025 (Part - 31): 1988  | 0.1 mg/l to 200 mg/l                   |

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| 488.   | CHEMICAL/<br>WATER | Packaged Drinking Water, Ground Water, Surface Water & Water from Purifier | Phosphorus as P  | IS : 3025 (Part - 31): 1988  | 0.1 mg/l to 200 mg/l                   |
| 489.   | CHEMICAL/<br>WATER | Packaged Drinking Water, Ground Water, Surface Water & Water from Purifier | Settleable Matter  | IS : 3025 (Part - 19): 1984  | 0.1 mg/l to 500 mg/l                   |
| 490.   | CHEMICAL/<br>WATER | Packaged Drinking Water, Ground Water, Surface Water & Water from Purifier | Sulphate   | IS : 3025 (Part - 24): 1986  | 0.1 mg/l to 800 mg/l                   |
| 491.   | CHEMICAL/<br>WATER | Packaged Drinking Water, Ground Water, Surface Water & Water from Purifier | Sulphite   | IS : 3025 (Part - 28):1986   | 0.1 mg/l to 100 mg/l                   |
| 492.   | CHEMICAL/<br>WATER | Packaged Drinking Water, Ground Water, Surface Water & Water from Purifier | Total Hardness   | IS : 3025 (Part - 21):1983   | 0.1 mg/l to 1000 mg/l                  |

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|--------|--------------------|--|--|--|--|
| 493.   | CHEMICAL/<br>WATER | Packaged Drinking Water, Ground Water, Surface Water & Water from Purifier | Volatile & Fixed Residue (Total, Filterable & Non - Filterable)  | IS : 3025 (Part - 18):   | 1 mg/l to 5000 mg/l                    |

**\*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.**