



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name AGRO TEST CENTRE, RIICO INDUSTRIAL AREA, AGRO FOOD PARK, PHASE-1, RANPUR, KOTA, RAJASTHAN, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5968 Page No. : 1 / 26

Validity 11/07/2019 to 10/07/2021 Last Amended on 26/07/2019

| S.No | Discipline / Group | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed | Range of Testing/ Limits of Detection |
|---------------------------|-------------------------------|----------------------------|-----------------------------|---|---------------------------------------|
| Permanent Facility | | | | | |
| 1 | CHEMICAL- ANIMAL FOOD & FEEDS | Animal Feeds | Acid insoluble Ash | IS 7874 (Part 1): 1975 (RA 2014): 1975 | 0.02 % to 1 % |
| 2 | CHEMICAL- ANIMAL FOOD & FEEDS | Animal Feeds | Crude Fiber | AOAC 21st edition, 4.6.01 (962.09) : 2019 | 0.1 % to 35 % |
| 3 | CHEMICAL- ANIMAL FOOD & FEEDS | Animal Feeds | Crude Fibre | IS 7874 (Part 1): 1975 (RA-2014): 1975 | 0.1 % to 35 % |
| 4 | CHEMICAL- ANIMAL FOOD & FEEDS | Animal Feeds | Crude Fibre | IS 10226 (Part 1) 1982(RA-2015): 1982 | 0.1 % to 35 % |
| 5 | CHEMICAL- ANIMAL FOOD & FEEDS | Animal Feeds | Oil Content / Crude fat | IS 3579:1966: 2015 | 2 % to 10 % |
| 6 | CHEMICAL- ANIMAL FOOD & FEEDS | Animal Feeds | Oil Content / Crude fat | IS 7874 (Part 1), (RA 2014): 1975 | 2 % to 10 % |
| 7 | CHEMICAL- ANIMAL FOOD & FEEDS | Animal Feeds | pH of aqueous extract (10%) | AOAC 21st edition, (940.20): 2019 | 1 to 14 |
| 8 | CHEMICAL- ANIMAL FOOD & FEEDS | Animal Feeds | Protein (N x 6.25) | IS 7219:1973 (RA 2015): 1973 | 0.1 % to 80 % |
| 9 | CHEMICAL- ANIMAL FOOD & FEEDS | Animal Feeds | Total Ash | AOAC 942.05 21st Edition : 2019 | 0.1 % to 10 % |
| 10 | CHEMICAL- ANIMAL FOOD & FEEDS | Animal Feeds | Total Ash | IS 7874 (Part 1): 1975 (RA 2014): 1975 | 0.1 % to 10 % |
| 11 | CHEMICAL- ANIMAL FOOD & FEEDS | Oil Seed Meal/ Cake | Crude fibre | IS 7874 (Part 1): 1975 (RA 2014): 1975 | 5 % to 35 % |
| 12 | CHEMICAL- ANIMAL FOOD & FEEDS | Oil Seed Meal/ Cake | Moisture | IS 7874 (Part 1): 1975 (RA 2014): 1975 | 5 % to 15 % |
| 13 | CHEMICAL- ANIMAL FOOD & FEEDS | Oil Seed Meal/ Cake | Oil Content | IS 7874 (Part 1): 1975 (RA 2014): 1975 | 0.05 % to 10 % |



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| 14 | CHEMICAL- ANIMAL FOOD & FEEDS | Oil Seed Meal/ Cake | Protein (N x 6.25) | IS 7874 (Part 1): 1975 (RA 2014): 1975 | 15 % to 50 % |
| 15 | CHEMICAL- ANIMAL FOOD & FEEDS | Oil Seed Meal/ Cake | Sand and Silica or Acid insoluble ash | IS 7874 (Part 1): 1975 (RA 2014): 1975 | 0.02 % to 4 % |
| 16 | CHEMICAL- ANIMAL FOOD & FEEDS | Oil Seed Meal/ Cake | Total Ash | IS 7874 (Part 1): 1975 (RA 2014): 1975 | 0.5 % to 10 % |
| 17 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Atta | Acid insoluble ash | IS: 1155 : 1968 Reaff-2015: 1968 | 0.02 % to 2 % |
| 18 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Atta | Alcoholic Acidity | IS: 1155 : 1968 Reaff-2015: 1968 | 0.01 % to 5 % |
| 19 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Atta | Carbohydrates | IS: 1656 : 2007 Reaff-2018: 2007 | 30 % to 90 % |
| 20 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Atta | Crude fibre | IS: 1155 : 1968 Reaff-2015: 1968 | 0.1 % to 10 % |
| 21 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Atta | Crude fibre | IS: 10226- (Part 1) : 1982(RA-2015): 1982 | 0.1 % to 10 % |
| 22 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Atta | Dry Gluten | IS: 1155 : 1968 Reaff-2015: 1968 | 4 % to 14 % |
| 23 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Atta | Energy | NA: NA | By calculation |
| 24 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Atta | Fat | AOAC 922.06, 21st Edition: 2019 | 0.1 % to 5 % |



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| 25 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Atta | Moisture | IS: 1155 : 1968 Reaff-2015: 1968 | 5 % to 15 % |
| 26 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Atta | Protein (N X 5.70) | IS: 7219 : 1973 Reaff-2015: 1973 | 5 % to 16 % |
| 27 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Atta | Total Ash | IS: 1155 : 1968 Reaff-2015: 1968 | 0.1 % to 2.5 % |
| 28 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Barley | weight of thousand grains | IS: 4333 (Part 4) : 2017: 2017 | 30 g to 60 g |
| 29 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Besan | Kesari Dal Powder | FSSAI Manual for Cereals and cereal products-11.1: 2016 | Qualitative(Present / Absent) |
| 30 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Biscuits/ Cookies/ Rusks | Acetic acid, Propionic acids and its salt | IS: 12711- 1989(RA-2015): 1989 | Qualitative(Absent/ Present) |
| 31 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Biscuits/ Cookies/ Rusks | Acid insoluble ash | IS: 1011- 2002 Reaff-2013: 2002 | 0.02 % to 5 % |
| 32 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Biscuits/ Cookies/ Rusks | Acid insoluble ash | IS: 12711- 1989 Reaff-2015: 1989 | 0.02 % to 5 % |
| 33 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Biscuits/ Cookies/ Rusks | Acidity of extracted fat | IS: 12711- 1989 Reaff-2015: 1989 | 0.01 % to 5 % |
| 34 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Biscuits/ Cookies/ Rusks | Alcoholic acidity | IS: 12711- 1989(RA-2015): 1989 | 0.05 % to 10 % |



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| 35 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Biscuits/ Cookies/ Rusks | Appearance/ Dimensions | STP No. Commgrade/L3-KOTA-FOO-018: 2019 | Qualitative(-) |
| 36 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Biscuits/ Cookies/ Rusks | Ash Content | IS: 12711- 1989 Reaff-2015: 1989 | 0.01 % to 10 % |
| 37 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Biscuits/ Cookies/ Rusks | Carbohydrates | IS: 1656- 2007 Reaff-2018: 2007 | 1 % to 90 % |
| 38 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Biscuits/ Cookies/ Rusks | Crude fibre | IS: 12711- 1989 Reaff-2015: 1989 | 0.1 % to 30 % |
| 39 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Biscuits/ Cookies/ Rusks | Energy | NA: na | By Calculation |
| 40 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Biscuits/ Cookies/ Rusks | Moisture | IS: 1011- 2002 Reaff-2013: 2002 | 0.1 % to 50 % |
| 41 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Biscuits/ Cookies/ Rusks | Moisture | IS: 12711 -1989 Reaff-2015: 1989 | 0.1 % to 50 % |
| 42 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Biscuits/ Cookies/ Rusks | Peroxide Value | IS: 12711- 1989(RA-2015): 1989 | 0.1 Meq/kg to 20 Meq/kg |
| 43 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Biscuits/ Cookies/ Rusks | pH | IS: 12711- 1989 Reaff-2015: 1989 | 1 to 14 |
| 44 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Biscuits/ Cookies/ Rusks | Total Fat | IS: 12711- 1989 Reaff-2015: 1989 | 0.1 % to 30 % |



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| 45 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Biscuits/ Cookies/ Rusks | Total Protein | IS: 7219- 1973 Reaff- 2015: 1973 | 0.1 % to 50 % |
| 46 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Biscuits/ Cookies/ Rusks | Total solid | IS: 12711- 1989 Reaff- 2015: 1980 | 10 % to 98 % |
| 47 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bombay Rawa/ Suji | Acid insoluble ash | IS: 1010- 1968 Reaff- 2015: 1968 | 0.02 % to 0.5 % |
| 48 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bombay Rawa/ Suji | Alcoholic Acidity | IS: 1010- 1968 Reaff- 2015: 1968 | 0.05 % to 5 % |
| 49 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bombay Rawa/ Suji | Carbohydrates | IS: 1656- 2007 Reaff- 2018: 2007 | By Calculation |
| 50 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bombay Rawa/ Suji | Crude fibre | IS: 10226- (Part 1) 1982 Reaff- 2015: 1982 | 0.1 % to 10 % |
| 51 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bombay Rawa/ Suji | Dry Gluten (On Dry Basis) | IS: 1010- 1968 Reaff- 2015: 1968 | 3 % to 12 % |
| 52 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bombay Rawa/ Suji | Energy | NA: NA | 1 Kcal/100 gm to 1000 Kcal/100 gm |
| 53 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bombay Rawa/ Suji | Fat | AOAC 21st edition 922.06 : 2019 | 0.1 % to 5 % |
| 54 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bombay Rawa/ Suji | Moisture | IS: 1010-1968 Reaff- 2015: 1968 | 5 % to 15 % |



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| 55 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bombay Rawa/ Suji | Protein | IS: 7219- 1973 Reaff-2015: 1973 | 4 % to 13 % |
| 56 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bombay Rawa/ Suji | Total Ash | IS: 1010- 1968 Reaff-2015: 1968 | 0.5 % to 2.5 % |
| 57 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bread/ Fruit cake | Acid insoluble ash | IS: 1485- 1993 Reaff-2015: 1993 | 0.01 % to 3 % |
| 58 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bread/ Fruit cake | Alcoholic acidity | FSSAI Manual for cereals and cereal products- 2016: 2016 | 0.05 % to 10 % |
| 59 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bread/ Fruit cake | Alcoholic acidity | IS: 12711- 1989(RA-2015): 1989 | 0.05 % to 10 % |
| 60 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bread/ Fruit cake | Alkalinity of ash | IS: 2639 - 1999 Reaff-2015: 1999 | 0.01 % to 5 % |
| 61 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bread/ Fruit cake | Ash content | IS: 1155- 1968 Reaff-2015: 1968 | 0.1 % to 15 % |
| 62 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bread/ Fruit cake | Carbohydrates | IS: 1656 : 2007 Reaff-2018: 2007 | By calculation |
| 63 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bread/ Fruit cake | Crude fibre | IS: 1155- 1968(RA-2015): 1968 | 0.1 % to 20 % |
| 64 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bread/ Fruit cake | Energy | NA: NA | By Calculation |



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| 65 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bread/ Fruit cake | Fat | IS: 12711- 1989(RA-2015): 1989 | 0.1 % to 50 % |
| 66 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bread/ Fruit cake | Free Acidity | IS: 4706- (Part 2) 1978(RA-2015): 1978 | 1 % to 70 % |
| 67 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bread/ Fruit cake | Fruit Content | IS: 12711- 1989(RA-2015): 1989 | 0.01 % to 20 % |
| 68 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bread/ Fruit cake | Moisture | IS 4333- (Part 2) : 2017: 2017 | 1 % to 50 % |
| 69 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bread/ Fruit cake | Moisture | IS: 1155 - 1968 Reaff-2015: 1968 | 1 % to 50 % |
| 70 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bread/ Fruit cake | Total Protein | IS: 3163- 1965(RA-2014): 1965 | 1 % to 50 % |
| 71 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bread/ Fruit cake | Total Protein | IS: 7219- 1973 (RA-2015): 1973 | 1 % to 50 % |
| 72 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Bread/ Fruit cake | Total solids | IS: 11231 : 1985 Reaff-2015: 1985 | 0.1 % to 99 % |
| 73 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Castor Seed | Fotri (Husk) and damaged seeds | IS: 3579- 1966 Reaff-2015: 1966 | 0.1 % to 10 % |
| 74 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Castor Seed | Moisture | IS: 3579- 1966 Reaff-2015: 1966 | 1 % to 10 % |



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| 75 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Castor Seed | Oil Content | IS: 3579- 1966 Reaff- 2015: 1966 | 30 % to 60 % |
| 76 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Castor Seed | Sand, Silica and Stones | IS: 3579- 1966 Reaff- 2015: 1966 | 0.1 % to 10 % |
| 77 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Chana (Bengal Garam)/ Maize/ Bajra/ Wheat/ Moong/ Moth/ Black Gram/ Barley | Moisture | IS: 4333 (Part-2): 2017 | 5 % to 20 % |
| 78 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Chana (Bengal Gram) | Green, Immature, Shrunken, Shrivelled seeds | IS: 4333- (Part 1):2018: 2018 | 0.1 % to 15 % |
| 79 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Chana (Bengal Gram) | Green, Immature, Shrunken, Shrivelled seeds | FSSAI Manual for cereals and cereal products-2016: 2016 | 0.1 % to 15 % |
| 80 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Chana (Bengal Gram) | Refraction other than foreign matter and insect damaged grains(Varietal admixture) | IS: 4333- (Part 1) :2018: 2018 | 0.1 % to 15 % |
| 81 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Chana (Bengal Gram) | Refraction other than foreign matter and insect damaged grains(Broken, Splits) | IS: 4333- (Part-1) :2018: 2018 | 0.1 % to 15 % |
| 82 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Chana (Bengal Gram) | Weevilled Seeds/ Insect damaged | IS: 4333- (Part 1) :2018: 2018 | 0.1 % to 15 % |



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| 83 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Chana (Bengal Gram)/ Maize/ Bajra/ Wheat/ Moong/ Moth/ Black Gram/ Barley | Damaged Seeds | FSSAI Manual for cereals and cereal products-2016: 2016 | 0.1 % to 15 % |
| 84 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Chana (Bengal Gram)/ Maize/ Bajra/ Wheat/ Moong/ Moth/ Black Gram/ Barley | Damaged Seeds | IS: 4333- (Part-1) :2018: 2018 | 0.1 % to 15 % |
| 85 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Chana (Bengal Gram)/ Maize/ Bajra/ Wheat/ Moong/ Moth/ Black Gram/ Barley | Foreign Matter | IS: 4333- (Part 1) : 2018: 2018 | 0.1 % to 20 % |
| 86 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Chana (Bengal Gram)/ Maize/ Bajra/ Wheat/ Moong/ Moth/ Black Gram/ Barley | Immature/ Shrivelled | IS : 4333- (Part 1) :2018: 2018 | 0.1 % to 15 % |
| 87 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Chana (Bengal Gram)/ Maize/ Bajra/ Wheat/ Moong/ Moth/ Black Gram/ Barley | Insect damaged/ Weevilled | IS: 4333- (Part 1) :2018: 2018 | 0.1 % to 20 % |
| 88 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Chilli and chilli products | Acid insoluble ash | IS: 1797- 2017: 2017 | 0.02 % to 2 % |
| 89 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Chilli and chilli products | Crude fibre | IS: 1797- 2017: 2017 | 20 % to 40 % |
| 90 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Chilli and chilli products | Total Ash | FSSAI Manual for Spices and Condiments - 2016: 2016 | 1 % to 10 % |



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| 91 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Chilli and chilli products | Total Ash | IS: 1797- 2017: 2017 | 1 % to 10 % |
| 92 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Chilli Whole | Colour (Visual) | IS: 2322- 2010(RA-2015): 2010 | Qualitative((Visual)) |
| 93 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Chilli Whole | Colour (Visual) | FSSAI Manual for Spices and Condiments - 2016: 2016 | Qualitative((Visual)) |
| 94 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Chilli Whole | Extraneous matter | IS: 2322- 2010(RA-2015): 2010 | 0.1 % to 10 % |
| 95 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Chilli Whole | Extraneous matter | FSSAI Manual for Spices and Condiments - 2016: 2016 | 0.1 % to 10 % |
| 96 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Chilli Whole | Free from Moulds, insects, etc | IS: 2322- 2010(RA-2015): 2010 | Qualitative((Visual)) |
| 97 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Chilli Whole | Unripe and marked and Brown fruits | FSSAI Manual for Spices and Condiments - 2016: 2016 | 1 % to 50 % |
| 98 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Chilli Whole | Unripe and marked and brown fruits | IS: 2322- 2010(RA-2015): 2010 | 1 % to 50 % |
| 99 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Coriander Whole & Powder | Crude fibre | IS: 1797- 2017: 2017 | 20 % to 40 % |



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| 100 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Coriander Whole & Powder | Damaged, Discolored & Weevilled seeds | FSSAI Manual for Spices and Condiments- 2016: 2016 | 0.1 % to 10 % |
| 101 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Coriander Whole & Powder | Damaged, Discolored & Weevilled seeds | IS: 2443- 2008(RA-2013): 2008 | 0.1 % to 10 % |
| 102 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Coriander Whole & Powder | Extraneous matter | FSSAI Manual for Spices and Condiments- 2016: 2016 | 0.1 % to 10 % |
| 103 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Coriander Whole & Powder | Extraneous matter | IS: 2443- 2008(RA-2013): 2008 | 0.1 % to 10 % |
| 104 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Coriander Whole & Powder | Shrivelled and immature seeds | IS: 2443- 2008(RA-2013): 2008 | 0.1 % to 50 % |
| 105 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Coriander Whole & Powder | Shrivelled and immature seeds | FSSAI Manual for Spices and Condiments- 2016: 2016 | 0.1 % to 50 % |
| 106 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Coriander Whole & Powder | Total Ash | IS: 2443- 2008(RA-2013): 2008 | 2 % to 8 % |
| 107 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Coriander Whole and Powder | Acid insoluble ash | FSSAI Manual for Spices and Condiments - 2016: 2016 | 0.02 % to 2 % |
| 108 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Coriander Whole and Powder | Acid insoluble ash | IS: 2443- 2008(RA-2013): 2008 | 0.02 % to 2 % |



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| 109 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Coriander Whole and Powder | Total Ash | FSSAI Manual for Spices and Condiments - 2016: 2016 | 2 % to 8 % |
| 110 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Cumin Seeds | Damaged, Discoloured, Shrivelled and Immature seeds | FSSAI Manual for Spices and Condiments- 2016: 2016 | 0.5 % to 10 % |
| 111 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Cumin Seeds | Damaged, Discoloured, Shrivelled and Immature seeds | IS: 2447- 2010(RA-2015): 2010 | 0.5 % to 10 % |
| 112 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Cumin Seeds | Foreign matter | IS: 2447- 2010(RA-2015): 2010 | 0.1 % to 10 % |
| 113 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Cumin Seeds | Foreign matter | FSSAI Manual for Spices and Condiments- 2016: 2016 | 0.1 % to 10 % |
| 114 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Cumin Seeds | Insect damaged matter | IS: 2447- 2010(RA-2015): 2010 | 0.1 % to 20 % |
| 115 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Cumin Seeds | Insect damaged matter | FSSAI Manual for Spices and Condiments- 2016: 2016 | 0.1 % to 20 % |
| 116 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Guar gum | Black, dark red and brown coloured splits | IS: 2813- 1995 Reaff-2015: 1995 | 0.1 % to 3 % |
| 117 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Guar gum | Foreign Particles (All non gum particles) | IS: 2813- 1995 Reaff-2015: 1995 | 0.1 % to 5 % |



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|------|--|----------------------------|--------------------------------------|---|---------------------------------------|
| 118 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Guar gum | Gum Content | IS: 7437- 1974 Reaff-2015: 1974 | 40 % to 95 % |
| 119 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Guar gum | Moisture | IS: 7437- 1974 Reaff-2015: 1974 | 2 % to 15 % |
| 120 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Guar gum | Particle Size (pass through 14 mesh) | IS: 2813- 1995 Reaff-2015: 1995 | 0.01 % to 10 % |
| 121 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Guar Gum | Particle size(pass through 20 mesh) | IS 2813:1995(RA-2015): 1995 | 0.01 % to 10 % |
| 122 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Guar gum | pH | IS: 7437- 1974 Reaff-2015: 1974 | 1 to 14 |
| 123 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Guar gum | Protein (N X 6.25) | IS: 7437- 1974 Reaff-2015: 1974 | 1 % to 15 % |
| 124 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Guar gum | Residue Insoluble in acid | IS: 3988- 1981 Reaff-2016: 1981 | 0.1 % to 7 % |
| 125 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Guar gum | Total ash | IS: 10502- 2018: 2018 | 0.1 % to 2.5 % |
| 126 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Guar gum | Undehusked Splits | IS: 2813- 1995 Reaff-2015: 1995 | 0.1 % to 20 % |
| 127 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Guar Seed | Damaged seeds | IS: 2813- 1995 Reaff-2015: 1995 | 0.1 % to 10 % |



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|------|--|----------------------------|---------------------------|---|---------------------------------------|
| 128 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Guar Seed | Foreign matter | IS: 2813- 1995 Reaff- 2015: 1995 | 0.1 % to 10 % |
| 129 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Guar Seed | Gum Content | IS: 7437- 1974 Reaff- 2015: 1974 | Calculation Basis |
| 130 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Guar Seed | Protein | IS: 7437- 1974 Reaff- 2015: 1974 | 1 % to 65 % |
| 131 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Guar Seed | Residue Insoluble in acid | IS: 3988- 1981 Reaff- 2016: 1981 | 0.5 % to 50 % |
| 132 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Guar Seed | Total ash | IS: 10502- 2018: 2018 | 0.1 % to 10 % |
| 133 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Guar Seed | Volatile matter/ Moisture | IS: 7437- 1974 Reaff- 2015: 1974 | 2 % to 15 % |
| 134 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Guar Seed | Whitish seeds | IS: 2813- 1995 Reaff- 2015: 1995 | 20 % to 100 % |
| 135 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Maida/ Besan | Acid insoluble ash | IS: 1009 : 1979 Reaff- 2015: 1979 | 0.02 % to 2 % |
| 136 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Maida/ Besan | Alcoholic Acidity | IS: 1009 :1979 Reaff- 2015: 1979 | 0.05 % to 0.5 % |
| 137 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Maida/ Besan | Carbohydrates | IS: 1656 : 2007 Reaff- 2018: 2007 | 30 % to 75 % |



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|------|--|-----------------------------|-------------------------|---|---------------------------------------|
| 138 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Maida/ Besan | Crude fibre | IS: 10226- (Part 1) : 1982(RA-2015): 1982 | 0.1 % to 10 % |
| 139 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Maida/ Besan | Dry Gluten | IS: 1009 : 1979 Reaff-2015: 1979 | 3 % to 17 % |
| 140 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Maida/ Besan | Fat | AOAC 922.06, 21st Edition: 2019 | 0.1 % to 5 % |
| 141 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Maida/ Besan | Moisture | IS: 1009 : 1979 Reaff-2015: 1979 | 5 % to 15 % |
| 142 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Maida/ Besan | Protein (N X 5.70) | IS: 7219 : 1973 Reaff-2015: 1973 | 5 % to 30 % |
| 143 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Maida/ Besan | Total Ash | IS: 1009 : 1979 Reaff-2015: 1979 | 0.1 % to 2 % |
| 144 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Maida/ Besan | Total Ash | FSSAI Manual for cereals and cereal products- 2016: 2016 | 0.1 % to 2 % |
| 145 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Maize | Grains Count Per 100g | IS: 4333- (Part 4) :2017: 2017 | 325 to 460 |
| 146 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Maize/ Bajra/ Wheat/ Barley | Other edible grains | IS: 4333- (Part 1) : 2018: 2018 | 0.1 % to 15 % |
| 147 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Maize/ Bajra/ Wheat/ Barley | Other food grains | IS: 4333- (Part 1) :2018: 2018 | 0.1 % to 20 % |



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|------|--|-----------------------------|---|---|---------------------------------------|
| 148 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Maize/ Bajra/ Wheat/ Barley | Shrunken, Shrivelled, Broken grains (not damaged) | IS: 4333- (Part 1) :2018: 2018 | 0.1 % to 20 % |
| 149 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Maize/ Bajra/ Wheat/ Barley | Weevilled Grains | IS:4333- (Part 1) : 2018: 2018 | 0.1 % to 15 % |
| 150 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Maize/ Bajra/ Wheat/ Barley | Weevilled grains | FSSAI Manual for cereals and cereal products-2016: 2016 | 0.1 % to 15 % |
| 151 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Milk | Cane Sugar | IS:1479: 2016 | Qualitative(Present / Absent) |
| 152 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Milk | Cane Sugar | FSSAI Manual for Milk and Milk Products- 1.2.1: 2016 | Qualitative(Present / Absent) |
| 153 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Mustard Seeds | Damaged and shrivelled | IS: 3579- 1966 Reaff- 2015: 1966 | 0.1 % to 20 % |
| 154 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Mustard Seeds | Free fatty acid (as oleic acid) | IS: 548 (Part- 1) 1964 Reaff- 2015: 1964 | 0.1 % to 3 % |
| 155 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Mustard Seeds | Impurities (Foreign matter) | IS: 3579- 1966 Reaff- 2015: 1966 | 0.1 % to 10 % |
| 156 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Mustard Seeds | Insect damaged matter | IS: 3579- 1966 Reaff- 2015: 1966 | 0.1 % to 20 % |
| 157 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Mustard Seeds | Moisture | IS: 3579- 1966 Reaff- 2015: 1966 | 1 % to 10 % |



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|------|--|----------------------------|-------------------------|---|---------------------------------------|
| 158 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Mustard Seeds | Oil Content | IS: 3579- 1966 Reaff- 2015: 1966 | 30 % to 50 % |
| 159 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Oil & Fats | Acid value | IS: 548 (Part 1) 1964 Reaff- 2015: 1964 | 0.1 to 10 |
| 160 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Oil & Fats | Baudouin Test | IS: 548 (Part 2) 1976 Reaff- 2015: 1976 | Qualitative(Absent/Present) |
| 161 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Oil & Fats | Carbohydrate | IS: 1656- 2007 Reaff- 2018: 2007 | By Calculation |
| 162 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Oil & Fats | Energy (Total Calories) | NA: NA | By Calculation |
| 163 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Oil & Fats | Free Fatty Acid | IS: 548 (Part 1) 1964 Reaff- 2015: 1964 | 0.1 % to 5 % |
| 164 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Oil & Fats | Insoluble Impurities | IS: 548 (Part 1) 1964 Reaff- 2015: 1964 | 0.05 % to 5 % |
| 165 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Oil & Fats | Iodine value | IS: 548 (Part 1) 1964 Reaff- 2015: 1964 | 5 to 200 |
| 166 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Oil & Fats | Kusum oil | IS: 548 (Part 2) 1976 Reaff- 2015: 1976 | Qualitative(Absent/Present) |
| 167 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Oil & Fats | Melting Point | IS: 548 (Part 1) 1964 Reaff- 2015: 1964 | 18 °C to 53 °C |



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|------|--|----------------------------|--|---|---------------------------------------|
| 168 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Oil & Fats | Mineral Oil Test | IS: 548 (Part 2) 1976 Reaff- 2015: 1976 | Qualitative(Absent/Present) |
| 169 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Oil & Fats | Moisture | IS: 548 (Part 1)- 1964 Reaff- 2015: 1964 | 0.01 % to 2 % |
| 170 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Oil & Fats | Peroxide value (meq/1000g) | IS: 548 (Part 1) 1964 Reaff- 2015: 1964 | 0.1 meq/1000g to 20 meq/1000g |
| 171 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Oil & Fats | Polenske value | FSSAI Manual for Oils and Fats- 2016: 2016 | 0.1 to 20.0 |
| 172 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Oil & Fats | Polenske value | IS: 548 (Part 1) 1964 Reaff- 2015: 1964 | 0.1 to 20.0 |
| 173 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Oil & Fats | Presence of cotton seed oil (Halphen test) | IS: 548 (Part 2) 1976 Reaff- 2015: 1976 | Qualitative(Absent/Present) |
| 174 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Oil & Fats | Presence of Hydrocyanic acid | IS: 548 (Part 2) 1976 Reaff- 2015: 1976 | Qualitative(Absent/Present) |
| 175 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Oil & Fats | Refractive Index at 40°C | IS: 548 (Part 1) 1964 Reaff- 2015: 1964 | 1.3250 to 1.7000 |
| 176 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Oil & Fats | Refractive Index at 40°C | FSSAI Manual for Oils and Fats- 2016: 2016 | 1.3250 to 1.7000 |
| 177 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Oil & Fats | Saponification value | IS: 548 (Part 1)- 1964 Reaff- 2015: 1964 | 100 to 250 |



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|------|--|----------------------------|-------------------------|---|---------------------------------------|
| 178 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Oil & Fats | Specific gravity | IS: 548 (Part 1) 1964 Reaff- 2015: 1964 | 0.6 to 1.4 |
| 179 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Oil & Fats | Specific gravity | FSSAI Manual for Oils and Fats- 2016: 2016 | 0.6 to 1.4 |
| 180 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Oil & Fats | Unsaponifiable matter | IS: 548 (Part 1) 1964 Reaff- 2015: 1964 | 0.1 % to 10 % |
| 181 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Pepper | Foreign Matter | IS:1797-2017: 2017 | 0.05 % to 10 % |
| 182 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Pepper | Foreign Matter | FSSAI Manual for Spices and Condiments-2016: 2016 | 0.05 % to 10 % |
| 183 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Pepper | Light berries | IS: 1798- 2010(RA-2015): 2010 | 0.1 % to 5 % |
| 184 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Pepper | Light berries | FSSAI Manual for Spices and Condiments- 2016: 2016 | 0.1 % to 5 % |
| 185 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Pepper | Papaya Seeds | FSSAI Manual for Spices and Condiments - 21.0: 2016 | Qualitative(Present / Absent) |
| 186 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Raw Milk | Acidity of Milk | FSSAI Manual for Milk and milk products: 2016 | 0.1 % to 5 % |



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|------|--|----------------------------|----------------------------|---|---------------------------------------|
| 187 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Raw Milk | Nitrates | FSSAI Manual for Milk and Milk Products- 1.2.10: 2016 | Qualitative(Presnt / Absent) |
| 188 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Raw Milk | Sodium Chloride | FSSAI Manual for Milk and Milk Products- 1.2.8: 2016 | Qualitative(Present / Absent) |
| 189 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Raw Milk | Starch | FSSAI Manual for milk and milk products: 2016 | Qualitative(Present /Absent) |
| 190 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Raw Milk | Starch | FSSAI Manual fo Milk and Milk Products- 1.2.2: 2016 | Qualitative(Present/ Absent) |
| 191 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Raw Milk | Sulphates | FSSAI Manual for Milk and Milk Products- 1.2.6: 2016 | Qualitative(Present / Absent) |
| 192 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Raw Milk | Total Solids | FSSAI Manual for Milk and Milk Products- 1.3.3: 2016 | 1 % to 98 % |
| 193 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Raw Milk | Urea | FSSAI Manual for Milk and Milk Products- 1.2.4: 2016 | Qualitative(Present / Absent) |
| 194 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | RawMilk | Milk Protein | FSSAI Manual for milk and milk products: 2016 | 1 % to 40 % |
| 195 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Soyabean | Damaged Seeds | IS: 3579- 1966 Reaff- 2015: 1966 | 0.1 % to 20 % |
| 196 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Soyabean | Foreign matter/ Impurities | IS: 3579- 1966 Reaff- 2015: 1966 | 0.1 % to 10 % |



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| 197 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Soyabean | Green seeds in Soyabean | NCML-ATC/ STP/001: 2017 | 0.1 % to 20 % |
| 198 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Soyabean | Moisture | IS: 3579- 1966 Reaff- 2015: 1966 | 1 % to 20 % |
| 199 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Soyabean | Protein (N X 6.25) | IS: 7219- 1973 Reaff- 2015: 1973 | 5 % to 50 % |
| 200 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Turmeric Fingers | Extraneous Matter | FSSAI Manual for Spices and Condiments- 2016: 2016 | 0.01 % to 10 % |
| 201 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Turmeric Fingers | Extraneous Matter | IS: 3576- 2010(RA- 2015): 2010 | 0.01 % to 10 % |
| 202 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Turmeric Fingers | Freedom from moulds and insect infestation | IS: 3576- 2010(RA- 2015): 2010 | Qualitative(-) |
| 203 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Turmeric Powder | Acid Insoluble Ash | IS: 1797- 2017: 2017 | 0.02 % to 2.5 % |
| 204 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Turmeric Powder | Chromate Test | FSSAI Manual for Spices and Condiments- 2016: 2016 | Qualitative(Absent/ Present) |
| 205 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Turmeric Powder | Chromate Test | IS: 3576- 2010(RA- 2015): 2010 | Qualitative(Absent/ Present) |



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|------|--|----------------------------|--|---|---------------------------------------|
| 206 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Turmeric Powder | Total Ash | IS: 1797- 2017: 2017 | 1 % to 10 % |
| 207 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Turmeric Powder | Total Ash | FSSAI Manual for Spices and Condiments- 2016: 2016 | 1 % to 10 % |
| 208 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Wheat | Broken, damaged, slightly damaged and Immature kernels | FSSAI Manual for cereals and cereal products-2016: 2016 | 0.5 % to 15 % |
| 209 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Wheat | Broken, Damaged, slightly damaged and immature Kernels | IS: 4333- (Part 1) :2018: 2018 | 0.5 % to 15 % |
| 210 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Wheat | Damaged including Discolored (black tipped/ black cornered only) | IS: 4333- (Part 1) :2018: 2018 | 0.1 % to 20 % |
| 211 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Wheat | Hectolitre Weight | IS: 4333- (Part 3) : 2018: 2018 | 60 g/100 ml to 90 g/100 ml |
| 212 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Wheat | Total defects sum of foreign matter, other edible grains, damaged kernel (other than infestation damaged), shrivelled/ broken grains | IS: 4333- (Part 1) :2018: 2018 | 0.1 % to 50 % |
| 213 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Wheat/ Barley | Damaged Kernel (Other than insect damaged) | IS: 4333- (Part 1) :2018: 2018 | 0.1 % to 20 % |



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| 214 | CHEMICAL- FOOD & AGRICULTURAL PRODUCTS | Wheat/ Barley | Insect damaged kernel | IS: 4333- (Part 1) :2018: 2018 | 0.1 % to 20 % |
| 215 | CHEMICAL- WATER | Drinking Water, Borewell Water and RO Water | Alkalinity | IS 3025 (Part 23): 1986: (RA 2019) | 2 mg/l to 1000 mg/l |
| 216 | CHEMICAL- WATER | Drinking Water, Borewell Water and RO Water | Alkalinity | FSSAI MANUAL, Section A II-9 (Titration Method):: 2016 | 2 mg/l to 1000 mg/l |
| 217 | CHEMICAL- WATER | Drinking Water, Borewell Water and RO Water | Alkalinity | APHA, 23rd Edition - 2330 - B (Titration Method): :2017 | 2 mg/l to 1000 mg/l |
| 218 | CHEMICAL- WATER | Drinking Water, Borewell Water and RO Water | Calcium | APHA 23rd Edition, 2017- 3500-Ca - B(EDTA Titration Method): 2017 | 5 mg/l to 500 mg/l |
| 219 | CHEMICAL- WATER | Drinking Water, Borewell Water and RO Water | Calcium | IS 3025 (Part 40): EDTA Titration Method) 1991: (RA 2019) | 5 mg/l to 500 mg/l |
| 220 | CHEMICAL- WATER | Drinking Water, Borewell Water and RO Water | Calcium | FSSAI MANUAL - Section A-II-14 (EDTA Titration method): 2016 | 5 mg/l to 500 mg/l |
| 221 | CHEMICAL- WATER | Drinking Water, Borewell Water and RO Water | Chloride | IS 3025 (Part 32): Argentometric Method: 1988: (RA 2019) | 2 mg/l to 500 mg/l |
| 222 | CHEMICAL- WATER | Drinking Water, Borewell Water and RO Water | Chloride | FSSAI MANUAL - Section A II-5 (Argentometric method): :2016 | 2 mg/l to 500 mg/l |



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SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5968 Page No. : 24 / 26

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| S.No | Discipline / Group | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed | Range of Testing/ Limits of Detection |
|------|--------------------|---|-------------------------|---|---------------------------------------|
| 223 | CHEMICAL- WATER | Drinking Water, Borewell Water and RO Water | Chloride | APHA - 23rd Edition, 4500-Cl - B- (Argentometric Method): 2017 | 2 mg/l to 500 mg/l |
| 224 | CHEMICAL- WATER | Drinking Water, Borewell Water and RO Water | Conductivity | IS 3025 (Part 14): 1984: (RA 2019) | 5 µS/cm to 10000 µS/cm |
| 225 | CHEMICAL- WATER | Drinking Water, Borewell Water and RO Water | Fluoride | FSSAI MANUAL : 2016 : Section A-II-7: 2016 | 0.1 mg/l to 5 mg/l |
| 226 | CHEMICAL- WATER | Drinking Water, Borewell Water and RO Water | Fluoride | APHA 23rd Edition - 4500-F(SPADNS Method): 2017 | 0.1 mg/l to 5 mg/l |
| 227 | CHEMICAL- WATER | Drinking Water, Borewell Water and RO Water | Fluoride | IS 3025 (Part 60): Zirconium Alizarin method, 2008: (RA 2019) | 0.1 mg/l to 2.0 mg/l |
| 228 | CHEMICAL- WATER | Drinking Water, Borewell Water and RO Water | Magnesium | FSSAI MANUAL for Water - 2016 Section A II-6:: 2016 | 5 mg/l to 500 mg/l |
| 229 | CHEMICAL- WATER | Drinking Water, Borewell Water and RO Water | Magnesium | APHA 23rd Edition, - 3500 Mg-B (By Calculation Method): 2017 | 5 mg/l to 500 mg/l |
| 230 | CHEMICAL- WATER | Drinking Water, Borewell Water and RO Water | Magnesium | IS 3025 (Part 46): Volumetric Method using EDTA , 1994: (RA 2019) | 5 mg/l to 500 mg/l |



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| S.No | Discipline / Group | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed | Range of Testing/ Limits of Detection |
|------|--------------------|---|-------------------------|--|---------------------------------------|
| 231 | CHEMICAL- WATER | Drinking Water, Borewell Water and RO Water | Nitrate | APHA, 23rd Edition - 4500-NO3- B (Ultraviolet Spectrophotometric Screening method): 2017 | 1.0 mg/l to 50.0 mg/l |
| 232 | CHEMICAL- WATER | Drinking Water, Borewell Water and RO Water | Nitrate | IS 3025 (Part 34): 1988 (RA 2019) : 1988 | 0.5 mg/l to 100 mg/l |
| 233 | CHEMICAL- WATER | Drinking Water, Borewell Water and RO Water | Nitrate | FSSAI MANUAL for Water- Section A. II. 4. Cadmium Reduction method: 2016 | 0.5 mg/l to 100 mg/l |
| 234 | CHEMICAL- WATER | Drinking Water, Borewell Water and RO Water | Nitrite | FSSAI MANUAL for Water-Section A. II. Nitrite:: 2016 | 0.01 mg/l to 10 mg/l |
| 235 | CHEMICAL- WATER | Drinking Water, Borewell Water and RO Water | Nitrite | APHA-4500-NO2, 23rd Edition: 2017 | 0.01 mg/l to 10 mg/l |
| 236 | CHEMICAL- WATER | Drinking Water, Borewell Water and RO Water | Nitrite | IS 3025 (Part 34): 1988 (RA 2019) : 1988 | 0.01 mg/l to 10 mg/l |
| 237 | CHEMICAL- WATER | Drinking Water, Borewell Water and RO Water | pH | FSSAI MANUAL (2016) Section A I - 3:: 2016 | 1 to 13 |
| 238 | CHEMICAL- WATER | Drinking Water, Borewell Water and RO Water | pH | IS 3025 (Part 11): Electrometric method : 1983: (RA 2017) | 2 to 12 |
| 239 | CHEMICAL- WATER | Drinking Water, Borewell Water and RO Water | Sulphate | APHA, 23rd Edition, 4500, SO4 E (Turbidity method): 2017 | 5 mg/l to 500 mg/l |



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| S.No | Discipline / Group | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed | Range of Testing/ Limits of Detection |
|------|--------------------|---|-------------------------|--|---------------------------------------|
| 240 | CHEMICAL- WATER | Drinking Water, Borewell Water and RO Water | Sulphate | FSSAI MANUAL for Water Section A I -6: Turbidity method:: 2016 | 5 mg/l to 500 mg/l |
| 241 | CHEMICAL- WATER | Drinking Water, Borewell Water and RO Water | Sulphate | IS 3025 (Part 24): Turbidity method 1986: (RA 2019) | 5 mg/l to 500 mg/l |
| 242 | CHEMICAL- WATER | Drinking Water, Borewell Water and RO Water | Total Dissolved Solids | IS 3025 (Part 16): 1984: (2017) | 10 mg/l to 2500 mg/l |
| 243 | CHEMICAL- WATER | Drinking Water, Borewell Water and RO Water | Total Dissolved Solids | FSSAI MANUAL for Water: Section A I-6:: 2016 | 10 mg/l to 2500 mg/l |
| 244 | CHEMICAL- WATER | Drinking Water, Borewell Water and RO Water | Total hardness | IS 3025 (Part 21) EDTA Titrimetric method: 2009: (RA 2019) | 10 mg/l to 1000 mg/l |
| 245 | CHEMICAL- WATER | Drinking Water, Borewell Water and RO Water | Total hardness | FSSAI MANUAL for Water - Section A II -8:: 2016 | 10 mg/l to 1000 mg/l |
| 246 | CHEMICAL- WATER | Drinking Water, Borewell Water and RO Water | Total hardness | APHA, 23rd Edition - 2340 C (EDTA Titrimetric Method): 2017 | 10 mg/l to 1000 mg/l |