# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** MODERN TEST CENTER, NEELANCHALNAGAR, BERHAMPUR, GANJAM, ODISHA, INDIA

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

**Certificate Number** TC-5312 **Page No** 1 of 10

**Validity** 16/11/2021 to 15/11/2023 **Last Amended on** -

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|---|---|---|---|---|
| Permanent Facility | | | | |
| 1 | RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS) | Effluent Water, STP Water, ETP Water, Waste Water | Gross Alpha activity | IS 14194 Part 2 |
| 2 | RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS) | Effluent Water, STP Water, ETP Water, Waste Water | Gross beta activity | IS 14194 Part 1 |
| 3 | RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS) | Minerals | Potassium | BARC/2008/E/023 |
| 4 | RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS) | Minerals | Radium-226 | BARC/2008/E/023 |
| 5 | RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS) | Minerals | Thorium | BARC/2008/E/023 |
| 6 | RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS) | Minerals | Uranium | BARC/2008/E/023 |
| 7 | RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS) | Ores | Potassium | BARC/2008/E/023 |
| 8 | RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS) | Ores | Radium-226 | BARC/2008/E/023 |
| 9 | RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS) | Ores | Thorium | BARC/2008/E/023 |
| 10 | RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS) | Ores | Uranium | BARC/2008/E/023 |

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| 11 | RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS) | Phosphogypsum | Potassium | BARC/2008/E/023 |
| 12 | RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS) | Phosphogypsum | Radium-226 | BARC/2008/E/023 |
| 13 | RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS) | Phosphogypsum | Thorium | BARC/2008/E/023 |
| 14 | RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS) | Phosphogypsum | Thorium | IAEA295 |
| 15 | RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS) | Phosphogypsum | Uranium | BARC/2008/E/023 |
| 16 | RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS) | Phosphogypsum | Uranium | IAEA295 |
| 17 | RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS) | Rock Phosphate | Potassium | BARC/2008/E/023 |
| 18 | RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS) | Rock Phosphate | Radium-226 | BARC/2008/E/023 |
| 19 | RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS) | Rock Phosphate | Thorium | BARC/2008/E/023 |
| 20 | RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS) | Rock Phosphate | Thorium | IAEA295 |
| 21 | RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS) | Rock Phosphate | Uranium | BARC/2008/E/023 |

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| 22 | RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS) | Rock Phosphate | Uranium | IAEA 295 |
| 23 | RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS) | Soil | Gross Beta | IS 14194 Part1:2013 |
| 24 | RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS) | Soil | Potassium | BARC/2008/E/023 |
| 25 | RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS) | Soil | Radium-226 | BARC/2008/E/023 |
| 26 | RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS) | Soil | Thorium | BARC/2008/E/023 |
| 27 | RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS) | Soil | Uranium | BARC/2008/E/023 |
| 28 | RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS) | Vegetation | Cs-134 | BARC/2008/E/023 |
| 29 | RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS) | Vegetation | Cs-137 | BARC/2008/E/023 |
| 30 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Instant Tea Premix | Cs-137 | BARC/2008/E/023 |
| 31 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Beef Chunk (Frozen Buffalo meta) | Cs-137 | BARC/2008/E/023 |
| 32 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Beer Sample | Cs-134 | BARC/2008/E/023 |

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| 33 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Beer Sample | Cs-137 | BARC/2008/E/023 |
| 34 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Cardamom Tea | Cs-134 | BAR/2008/E/023 |
| 35 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Cardamom Tea | Cs-137 | BARC/2008/E/023 |
| 36 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Chicken Corn Soup | Sr-90 | BARC/2008/E/023 |
| 37 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Chicken Meat Powder | Sr-90 | BARC/2008/E/023 |
| 38 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Chocolates & Biscuits | Cs-134 | BARC/2008/E/023 |
| 39 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Chocolates & Biscuits | Cs-137 | BARC/2008/E/023 |
| 40 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Chocolates & Biscuits | I-131 | BARC/2008/E/023 |
| 41 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Chocolates & Biscuits | Sr-90 | BARC/2008/E/023 |
| 42 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Frozen Green Peas | Cs-134 | BARC/2008/E/023 |
| 43 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Frozen Green Peas | Cs-137 | BARC/2008/E/023 |

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| 44 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Frozen Mix Vegetable | Cs-134 | BARC/2008/E/023 |
| 45 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Frozen Mix Vegetable | Cs-137 | BARC/2008/E/023 |
| 46 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Gherkin | Cs-134 | BARC/2008/E/023 |
| 47 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Gherkin | Cs-137 | BARC2008/E/023 |
| 48 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Honey | Cs-134 | BARC/2008/E/023 |
| 49 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Honey | Cs-137 | BARC/2008/E/023 |
| 50 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Instant Tea Premix | Cs-134 | BARC/2008/E/023 |
| 51 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Jelly | Cs-134 | BARC/2008/E/023 |
| 52 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Jelly | Cs-137 | BARC/2008/E/023 |
| 53 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Jelly | I-131 | BARC/2008/E/023 |
| 54 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Lactogen & Cercal | Cs-134 | BARC/2008/E/023 |

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| 55 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Lactogen & Cercal | Cs-137 | BARC/2008/E/023 |
| 56 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Maize Starch Powder | Cs-137 | BARC/2008/E/023 |
| 57 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Maltodextrin gullied, fish feed, ayurvedic drugs for human consumption. | Cs-134 | BARC/2008/E/023 |
| 58 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Maltodextrin gullied, fish feed, ayurvedic drugs for human consumption. | Cs-137 | BARC/2008/E/023 |
| 59 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Masala / Spices | Cs-134 | BARC/2008/E/023 |
| 60 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Masala / Spices | Cs-137 | BARC/2008/E/023 |
| 61 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Masala / Spices | Sr-90 | BARC/2008/E/023 |
| 62 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Mazie Starch Powder | Cs-134 | BARC/2008/E/023 |
| 63 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Milk Powder | Sr-90 | BARC/2008/E/023 |
| 64 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Milk Powder & Milk | Cs-134 | BARC/2008/E/023 |
| 65 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Milk Powder & Milk | Cs-137 | BARC/2008/E/023 |

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| 66 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Milk Powder & Milk | I-131 | BARC/2008/E/023 |
| 67 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Rice | Cs-134 | BARC/2003/E/024 |
| 68 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Rice | Cs-137 | BARC/2008/E/023 |
| 69 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Rice | I-131 | Barc/2008/E/023 |
| 70 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Rice | Sr-90 | BARC/2008/E/023 |
| 71 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Sheep Mutton Bone (Frozen Sheep Meat) | Cs-137 | BARC/2008/E/023 |
| 72 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Shrimps | Cs-137 | BARC/2008/E/023 |
| 73 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Shrimps | Sr-90 | BARC/2008/E/023 |
| 74 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Skimmed Milk Powder | Cs-134 | BARC/2008/E/023 |
| 75 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Skimmed Milk Powder | Cs-137 | BARC/2008/E/023 |
| 76 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Skimmed Milk Powder | I-131 | BARC/2008/E/023 |

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| 77 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Skimmed Milk Powder | Sr-90 | BARC/2008/E/023 |
| 78 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Sugar | Cs-134 | BARC/2008/E/023 |
| 79 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Sugar | Cs-137 | BARC/2008/E/023 |
| 80 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Sugar | I-131 | BARC/2008/E/023 |
| 81 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Sugar | Sr-90 | BARC/2008/E/023 |
| 82 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Taste Maker | Cs-134 | BARC/2008/E/023 |
| 83 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Taste Maker | Cs-137 | ARC/2008/E/023 |
| 84 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Taste Maker | Sr-90 | BARC/2008/E/023 |
| 85 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Thai Soup Chicken | Sr-90 | BARC/2008/E/023 |
| 86 | RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS) | Veg Chicken Soup | Sr-90 | BARC/2008/E/023 |
| 87 | RADIOLOGICAL- WATER (RADIOACTIVE CONTAMINANTS) | Borewell Water, DM Water, Potable Water, Raw Water, RO Water, Source Water, Natural Mineral Water, Decausticizer Water, Process Water, Rinse Water | Beta Emitter | IS 14194 Part 1 |

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| 88 | RADIOLOGICAL- WATER (RADIOACTIVE CONTAMINANTS) | Borewell Water, DM Water, Potable Water, Raw Water, RO Water, Source Water, Natural Mineral Water, Decausticizer Water, Process Water, Rinse Water | Alpha Emitter | IS 14194 Part 2 |
| 89 | RADIOLOGICAL- WATER (RADIOACTIVE CONTAMINANTS) | Borewell Water, DM Water, Potable Water, Raw Water, RO Water, Source Water, Natural Mineral Water, Decausticizer Water, Process Water, Rinse Water | Alpha Emitter with out Radon & Thoron | IS 14194 Part 2 |
| 90 | RADIOLOGICAL- WATER (RADIOACTIVE CONTAMINANTS) | Borewell Water, DM Water, Potable Water, Raw Water, RO Water, Source Water, Natural Mineral Water, Decausticizer Water, Process Water, Rinse Water | Radium 226 | BARC/2008/E/023 |
| 91 | RADIOLOGICAL- WATER (RADIOACTIVE CONTAMINANTS) | Borewell Water, DM Water, Potable Water, Raw Water, RO Water, Source Water, Natural Mineral Water, Decausticizer Water, Process Water, Rinse Water | Radium 228 | BARC /2008/E/023 |
| 92 | RADIOLOGICAL- WATER (RADIOACTIVE CONTAMINANTS) | Borewell Water, DM Water, Potable Water, Raw Water, RO Water, Source Water, Natural Mineral Water, Decausticizer Water, Process Water, Rinse Water | Uranium | BARC/2008/E/023 |
| 93 | RADIOLOGICAL- WATER (RADIOACTIVE CONTAMINANTS) | Dinking Water | Uranium | BARC/2008/E/023 |
| 94 | RADIOLOGICAL- WATER (RADIOACTIVE CONTAMINANTS) | Drinking Water | Alpha Emitter | IS 14194 Part 2 |
| 95 | RADIOLOGICAL- WATER (RADIOACTIVE CONTAMINANTS) | Drinking Water | Beta Emitter | IS 14194 Part 1 |
| 96 | RADIOLOGICAL- WATER (RADIOACTIVE CONTAMINANTS) | Drinking Water | Radium - 226 | BARC/2008/E/023 |
| 97 | RADIOLOGICAL- WATER (RADIOACTIVE CONTAMINANTS) | Drinking Water | Radium-228 | BARC/2008/E/023 |
| 98 | RADIOLOGICAL- WATER (RADIOACTIVE CONTAMINANTS) | Drinking Water | Uranium | IS 14194 Part 3 |
| 99 | RADIOLOGICAL- WATER (RADIOACTIVE CONTAMINANTS) | Packaged Drinking Water | Alpha Emitter | IS 14194 Part 2 |
| 100 | RADIOLOGICAL- WATER (RADIOACTIVE CONTAMINANTS) | Packaged Drinking Water | Beta Emitter | IS 14194 Part |
| 101 | RADIOLOGICAL- WATER (RADIOACTIVE CONTAMINANTS) | Packaged Drinking Water | Uranium | IS 14194 Part 3 |

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| 102 | RADIOLOGICAL- WATER (RADIOACTIVE CONTAMINANTS) | Treated Water | Alpha Emitter | IS 14194 Part 2 |
| 103 | RADIOLOGICAL- WATER (RADIOACTIVE CONTAMINANTS) | Treated Water | Beta Emitter | IS 14194 part 1 |
| 104 | RADIOLOGICAL- WATER (RADIOACTIVE CONTAMINANTS) | Treated Water | Radium-226 | BARC/2008/E/023 |
| 105 | RADIOLOGICAL- WATER (RADIOACTIVE CONTAMINANTS) | Treated Water | Radium-228 | BARC/2008/E/023 |
| 106 | RADIOLOGICAL- WATER (RADIOACTIVE CONTAMINANTS) | Treated Water | Uranium | BARC/2008/E/023 |
| 107 | RADIOLOGICAL- WATER (RADIOACTIVE CONTAMINANTS) | Treated Water | Uranium | IS 14194 Part3 |
| 108 | RADIOLOGICAL- WATER (RADIOACTIVE CONTAMINANTS) | water for Industrial use | Alpha Emitter | IS 14194 Part 2 : 2013 |
| 109 | RADIOLOGICAL- WATER (RADIOACTIVE CONTAMINANTS) | water for Industrial use | Beta Emitter | IS 14194 Part 1 |

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.