# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA

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

**Certificate Number** TC-7253 **Page No** 1 of 132

**Validity** 05/07/2021 to 04/07/2023 **Last Amended on** 05/05/2022

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| Permanent Facility | | | | |
| 1 | ELECTRICAL- CABLES & WIRES | Aerial bunched Cables for voltages up to and including 1100 V | Tensile Test (Phase/street Light Conductor) | IS 14255 |
| 2 | ELECTRICAL- CABLES & WIRES | Aerial bunched Cables for voltages up to and including 1100V | Ageing in air oven XLPE Insulation | IS 14255 |
| 3 | ELECTRICAL- CABLES & WIRES | Aerial bunched Cables for voltages up to and including 1100V | Bend Test | IS 14255 |
| 4 | ELECTRICAL- CABLES & WIRES | Aerial bunched Cables for voltages up to and including 1100V | Breaking load on Messenger Conductor | IS 14255 |
| 5 | ELECTRICAL- CABLES & WIRES | Aerial bunched Cables for voltages up to and including 1100V | Conductor Resistance Test (Phase/street Light Conductor) | IS 14255 |
| 6 | ELECTRICAL- CABLES & WIRES | Aerial bunched Cables for voltages up to and including 1100V | Elongation on Messenger Conductor | IS 14255 |
| 7 | ELECTRICAL- CABLES & WIRES | Aerial bunched Cables for voltages up to and including 1100V | Environmental Stress Cracking Test | IS 14255 |
| 8 | ELECTRICAL- CABLES & WIRES | Aerial bunched Cables for voltages up to and including 1100V | High voltage test | IS 14255 |
| 9 | ELECTRICAL- CABLES & WIRES | Aerial bunched Cables for voltages up to and including 1100V | Hot Set Test XLPE Insulation | IS 14255 |
| 10 | ELECTRICAL- CABLES & WIRES | Aerial bunched Cables for voltages up to and including 1100V | Insulation Resistance (Volume Resistivity) Test | IS 14255 |
| 11 | ELECTRICAL- CABLES & WIRES | Aerial bunched Cables for voltages up to and including 1100V | Resistance Test (Messenger Conductor) | IS 14255 |
| 12 | ELECTRICAL- CABLES & WIRES | Aerial bunched Cables for voltages up to and including 1100V | Shrinkage test XLPE Insulation | IS 14255 |
| 13 | ELECTRICAL- CABLES & WIRES | Aerial bunched Cables for voltages up to and including 1100V | Tensile strength and elongation at break on PE Insulation | IS 14255 |
| 14 | ELECTRICAL- CABLES & WIRES | Aerial bunched Cables for voltages up to and including 1100V | Tensile strength and elongation at break on XLPE Insulation | IS 14255 |
| 15 | ELECTRICAL- CABLES & WIRES | Aerial bunched Cables for voltages up to and including 1100V | Thickness of Insulation | IS 14255 |
| 16 | ELECTRICAL- CABLES & WIRES | Aerial bunched Cables for voltages up to and including 1100V | Water absorption test XLPE Insulation (Gravimetric) | IS 14255 |
| 17 | ELECTRICAL- CABLES & WIRES | Aerial bunched Cables for voltages up to and including 1100V | Wrapping Test (Phase/street Light Conductor) | IS 14255 |

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| 18 | ELECTRICAL- CABLES & WIRES | Cables | Annealing Test (For Copper) | IS 10810 (Part-1) |
| 19 | ELECTRICAL- CABLES & WIRES | Cables | Bleeding and Blooming Test | IS 10810(Part-19) |
| 20 | ELECTRICAL- CABLES & WIRES | Cables | Cold bend test | IS 10810 (Part-20) |
| 21 | ELECTRICAL- CABLES & WIRES | Cables | Cold impact test | IS 10810 (Part-21) |
| 22 | ELECTRICAL- CABLES & WIRES | Cables | Conductor Resistance Test | IS 10810 (Part-5) |
| 23 | ELECTRICAL- CABLES & WIRES | Cables | Dimension of Armor | IS 10810(Part-36) |
| 24 | ELECTRICAL- CABLES & WIRES | Cables | Environmental Stress Cracking Test | IS 10810 (Part-29) |
| 25 | ELECTRICAL- CABLES & WIRES | Cables | Flammability test | IS 10810(Part-53) |
| 26 | ELECTRICAL- CABLES & WIRES | Cables | Heat shock test | IS 10810(Part-14) |
| 27 | ELECTRICAL- CABLES & WIRES | Cables | High voltage test (Room temp.) | IS 10810(Part-45) |
| 28 | ELECTRICAL- CABLES & WIRES | Cables | High voltage test (water immersion) | IS 10810(Part-45) |
| 29 | ELECTRICAL- CABLES & WIRES | Cables | Hot deformation test | IS 10810(Part-15) |
| 30 | ELECTRICAL- CABLES & WIRES | Cables | Hot Set Test | IS 10810 (Part-30) |
| 31 | ELECTRICAL- CABLES & WIRES | Cables | Insulation Resistance | IS 10810(Part-43) |
| 32 | ELECTRICAL- CABLES & WIRES | Cables | Loss of Mass | IS 10810(Part-10) |
| 33 | ELECTRICAL- CABLES & WIRES | Cables | Mass of Zinc Coating | IS 10810(Part-41) |
| 34 | ELECTRICAL- CABLES & WIRES | Cables | Oil Resistance Test | IS 1081(Part-31) |
| 35 | ELECTRICAL- CABLES & WIRES | Cables | Ozone Resistance Test | IS 10810(Part-13) |
| 36 | ELECTRICAL- CABLES & WIRES | Cables | Per Sulphate Test/ Tinning Test | IS 10810 (Part-4) |

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| 37 | ELECTRICAL- CABLES & WIRES | Cables | Resistance, Conductance of Armor | IS 10810(Part-42) |
| 38 | ELECTRICAL- CABLES & WIRES | Cables | Shrinkage test | IS 10810(Part-12) |
| 39 | ELECTRICAL- CABLES & WIRES | Cables | Tensile strength and Elongation at break for armor | IS 10810(Part-37) |
| 40 | ELECTRICAL- CABLES & WIRES | Cables | Tensile strength and elongation at breakage of Insulation and sheath | IS 10810(Part-7) |
| 41 | ELECTRICAL- CABLES & WIRES | Cables | Tensile Test (For Aluminum | IS 10810 (Part-2) |
| 42 | ELECTRICAL- CABLES & WIRES | Cables | Thermal ageing in air | 10810 (Part-11) |
| 43 | ELECTRICAL- CABLES & WIRES | Cables | Thermal stability test | IS 10810 (Part-60) |
| 44 | ELECTRICAL- CABLES & WIRES | Cables | Thickness of Insulation and Sheath | IS 10810(Part-6) |
| 45 | ELECTRICAL- CABLES & WIRES | Cables | Torsion (For Round Wire only) | IS 10810(Part-38) |
| 46 | ELECTRICAL- CABLES & WIRES | Cables | Uniformity of Zinc Coating | IS 10810(Part-40) |
| 47 | ELECTRICAL- CABLES & WIRES | Cables | Water Absorption Test (Electrical) | IS 1081(Part 28) |
| 48 | ELECTRICAL- CABLES & WIRES | Cables | Water absorption test (gravimetric) | IS 10810(Part-33) |
| 49 | ELECTRICAL- CABLES & WIRES | Cables | Winding Test for Galvanized Steel Strips for Armoring | IS 10810(Part-39) |
| 50 | ELECTRICAL- CABLES & WIRES | Cables | Wrapping Test (For Aluminum) | IS 10810 (Part-3) |
| 51 | ELECTRICAL- CABLES & WIRES | Cables for motor vehicles | Ageing in air Oven of Insulation and Sheath | IS 2465 |
| 52 | ELECTRICAL- CABLES & WIRES | Cables for motor vehicles | Annealing Test (For Copper) | IS 2465 |
| 53 | ELECTRICAL- CABLES & WIRES | Cables for motor vehicles | Capacitance test | IS 2465 |
| 54 | ELECTRICAL- CABLES & WIRES | Cables for motor vehicles | Conductor Resistance Test | IS 2465 |

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| 55 | ELECTRICAL- CABLES & WIRES | Cables for motor vehicles | Effect of Cooling on Flexibility | IS2465 |
| 56 | ELECTRICAL- CABLES & WIRES | Cables for motor vehicles | Effect of heat on flexibility | IS 2465 |
| 57 | ELECTRICAL- CABLES & WIRES | Cables for motor vehicles | Effect of lubricating oil, Brake fluid, Diesel and petrol for general wiring cables | IS 2465 |
| 58 | ELECTRICAL- CABLES & WIRES | Cables for motor vehicles | Effect of oil | IS 2465 |
| 59 | ELECTRICAL- CABLES & WIRES | Cables for motor vehicles | Flammability test | IS 2465 |
| 60 | ELECTRICAL- CABLES & WIRES | Cables for motor vehicles | Heat shock test | IS 2465 |
| 61 | ELECTRICAL- CABLES & WIRES | Cables for motor vehicles | High voltage test | IS 2465 |
| 62 | ELECTRICAL- CABLES & WIRES | Cables for motor vehicles | Hot deformation test | IS 2465 |
| 63 | ELECTRICAL- CABLES & WIRES | Cables for motor vehicles | Loss of Mass Test of Insulation and Sheath | IS 2465 |
| 64 | ELECTRICAL- CABLES & WIRES | Cables for motor vehicles | Ozone resistance test | IS2465 |
| 65 | ELECTRICAL- CABLES & WIRES | Cables for motor vehicles | Per sulphate Test/ Tinning Test | IS 2465 |
| 66 | ELECTRICAL- CABLES & WIRES | Cables for motor vehicles | Shrinkage test | IS 2465 |
| 67 | ELECTRICAL- CABLES & WIRES | Cables for motor vehicles | Tensile strength and elongation at break of Insulation and Sheath | IS 2465 |
| 68 | ELECTRICAL- CABLES & WIRES | Cables for motor vehicles | Thickness of Insulation and Sheath | IS 2465 |
| 69 | ELECTRICAL- CABLES & WIRES | Cross-linked Polyethylene Insulated Thermoplastic Sheathed Cables Specification. For Working Voltage from 3.3kV Up to and Including 33kV | Ageing in air oven of Insulation and Sheath | IS 7098(Part 2) |
| 70 | ELECTRICAL- CABLES & WIRES | Cross-linked Polyethylene Insulated Thermoplastic Sheathed Cables Specification. For Working Voltage from 3.3kV Up to and Including 33kV | Annealing Test (For Copper) | IS 7098(Part 2) |
| 71 | ELECTRICAL- CABLES & WIRES | Cross-linked Polyethylene Insulated Thermoplastic Sheathed Cables Specification. For Working Voltage from 3.3kV Up to and Including 33kV | Conductor Resistance Test | IS 7098(Part 2) |

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| 72 | ELECTRICAL- CABLES & WIRES | Cross-linked Polyethylene Insulated Thermoplastic Sheathed Cables Specification. For Working Voltage from 3.3kV Up to and Including 33kV | Dimension of Armor | IS 7098(Part 2) |
| 73 | ELECTRICAL- CABLES & WIRES | Cross-linked Polyethylene Insulated Thermoplastic Sheathed Cables Specification. For Working Voltage from 3.3kV Up to and Including 33kV | Flammability test | IS 7098(Part 2) |
| 74 | ELECTRICAL- CABLES & WIRES | Cross-linked Polyethylene Insulated Thermoplastic Sheathed Cables Specification. For Working Voltage from 3.3kV Up to and Including 33kV | Heat shock test of Sheath | IS 7098(Part 2) |
| 75 | ELECTRICAL- CABLES & WIRES | Cross-linked Polyethylene Insulated Thermoplastic Sheathed Cables Specification. For Working Voltage from 3.3kV Up to and Including 33kV | High voltage test | IS 7098 (Part 2) |
| 76 | ELECTRICAL- CABLES & WIRES | Cross-linked Polyethylene Insulated Thermoplastic Sheathed Cables Specification. For Working Voltage from 3.3kV Up to and Including 33kV | Hot deformation test of Sheath | IS 7098(Part 2) |
| 77 | ELECTRICAL- CABLES & WIRES | Cross-linked Polyethylene Insulated Thermoplastic Sheathed Cables Specification. For Working Voltage from 3.3kV Up to and Including 33kV | Insulation Resistance (Volume Resistivity) | IS 7098(Part 2) |
| 78 | ELECTRICAL- CABLES & WIRES | Cross-linked Polyethylene Insulated Thermoplastic Sheathed Cables Specification. For Working Voltage from 3.3kV Up to and Including 33kV | Loss of Mass test of Sheath | IS 7098(Part 2) |
| 79 | ELECTRICAL- CABLES & WIRES | Cross-linked Polyethylene Insulated Thermoplastic Sheathed Cables Specification. For Working Voltage from 3.3kV Up to and Including 33kV | Mass of Zinc Coating | IS 7098(Part 2) |
| 80 | ELECTRICAL- CABLES & WIRES | Cross-linked Polyethylene Insulated Thermoplastic Sheathed Cables Specification. For Working Voltage from 3.3kV Up to and Including 33kV | Resistance, Conductance of Armor | IS 7098(Part 2) |
| 81 | ELECTRICAL- CABLES & WIRES | Cross-linked Polyethylene Insulated Thermoplastic Sheathed Cables Specification. For Working Voltage from 3.3kV Up to and Including 33kV | Shrinkage test of Insulation and Sheath | IS 7098(Part 2) |
| 82 | ELECTRICAL- CABLES & WIRES | Cross-linked Polyethylene Insulated Thermoplastic Sheathed Cables Specification. For Working Voltage from 3.3kV Up to and Including 33kV | Tensile strength and Elongation at break for armor | IS 7098()Part 2) |
| 83 | ELECTRICAL- CABLES & WIRES | Cross-linked Polyethylene Insulated Thermoplastic Sheathed Cables Specification. For Working Voltage from 3.3kV Up to and Including 33kV | Tensile strength and elongation at break of Insulation and Sheath | IS 7098(Part 2) |
| 84 | ELECTRICAL- CABLES & WIRES | Cross-linked Polyethylene Insulated Thermoplastic Sheathed Cables Specification. For Working Voltage from 3.3kV Up to and Including 33kV | Tensile Test (For Aluminum) | IS 7098(Part 2) |
| 85 | ELECTRICAL- CABLES & WIRES | Cross-linked Polyethylene Insulated Thermoplastic Sheathed Cables Specification. For Working Voltage from 3.3kV Up to and Including 33kV | Test for Strip ability of semiconducting strippable insulation screen | IS 7098(Part 2) |

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| 86 | ELECTRICAL- CABLES & WIRES | Cross-linked Polyethylene Insulated Thermoplastic Sheathed Cables Specification. For Working Voltage from 3.3kV Up to and Including 33kV | Test on extruded semi conducting screens (Volume Resistivity) | IS 7098(Part 2) |
| 87 | ELECTRICAL- CABLES & WIRES | Cross-linked Polyethylene Insulated Thermoplastic Sheathed Cables Specification. For Working Voltage from 3.3kV Up to and Including 33kV | Thermal ageing test for completed cable | IS 7098(Part 2) |
| 88 | ELECTRICAL- CABLES & WIRES | Cross-linked Polyethylene Insulated Thermoplastic Sheathed Cables Specification. For Working Voltage from 3.3kV Up to and Including 33kV | Thermal stability test | IS 7098(Part 2) |
| 89 | ELECTRICAL- CABLES & WIRES | Cross-linked Polyethylene Insulated Thermoplastic Sheathed Cables Specification. For Working Voltage from 3.3kV Up to and Including 33kV | Thickness of Insulation and Sheath | IS 7098(Part 2) |
| 90 | ELECTRICAL- CABLES & WIRES | Cross-linked Polyethylene Insulated Thermoplastic Sheathed Cables Specification. For Working Voltage from 3.3kV Up to and Including 33kV | Torsion (For Round Wire only) | IS 7098(Part 2) |
| 91 | ELECTRICAL- CABLES & WIRES | Cross-linked Polyethylene Insulated Thermoplastic Sheathed Cables Specification. For Working Voltage from 3.3kV Up to and Including 33kV | Uniformity of Zinc Coating | IS 7098(Part 2) |
| 92 | ELECTRICAL- CABLES & WIRES | Cross-linked Polyethylene Insulated Thermoplastic Sheathed Cables Specification. For Working Voltage from 3.3kV Up to and Including 33kV | Water absorption test (gravimetric) | IS 7098(Part 2) |
| 93 | ELECTRICAL- CABLES & WIRES | Cross-linked Polyethylene Insulated Thermoplastic Sheathed Cables Specification. For Working Voltage from 3.3kV Up to and Including 33kV | Winding Test for Galvanized Steel Strips for Armoring | IS 7098(Part 2) |
| 94 | ELECTRICAL- CABLES & WIRES | Cross-linked Polyethylene Insulated Thermoplastic Sheathed Cables Specification. For Working Voltage from 3.3kV Up to and Including 33kV | Wrapping Test (For Aluminum) | IS 7098(Part 2) |
| 95 | ELECTRICAL- CABLES & WIRES | Electric and optical fibre cables Test methods for non-metallic materials | Elongation at low temperature for insulations and sheaths | IEC 60811-505 |
| 96 | ELECTRICAL- CABLES & WIRES | Electric and optical fibre cables Test methods for non-metallic materials | Impact test at low temperature for insulation and sheaths | IEC 60811-506 |
| 97 | ELECTRICAL- CABLES & WIRES | Electric and optical fibre cables Test methods for non-metallic materials | Mineral oil immersion tests for sheaths | IEC 60811-404 |
| 98 | ELECTRICAL- CABLES & WIRES | Electric and optical fibre cables Test methods for non-metallic materials | Ozone Resistance Test | IEC 60811-403 |
| 99 | ELECTRICAL- CABLES & WIRES | Electric and optical fibre cables Test methods for non-metallic materials | Pressure test at high temperature for insulation and sheaths/ Hot deformation test | IEC 60811-508 |
| 100 | ELECTRICAL- CABLES & WIRES | Electric and optical fibre cables Test methods for non-metallic materials | Shrinkage test of Sheath | IEC 60811-503 |

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| 101 | ELECTRICAL- CABLES & WIRES | Electric and optical fibre cables Test methods for non-metallic materials | Thermal stability test for PVC insulation and PVC sheaths | IEC 60811-405 |
| 102 | ELECTRICAL- CABLES & WIRES | Electric and optical fibre cables Test methods for non-metallic materials | Thickness of Insulation | IEC 60811 -201 |
| 103 | ELECTRICAL- CABLES & WIRES | Electric and optical fibre cables – Test methods for non-metallic materials | Shrinkage test of Insulation | IEC 60811-502 |
| 104 | ELECTRICAL- CABLES & WIRES | Electric and optical fibre cables Test methods for non-metallic materials | Bending tests at low temperature for insulation and sheaths | IEC 60811-504 |
| 105 | ELECTRICAL- CABLES & WIRES | Electric and optical fibre cables Test methods for non-metallic materials | Hot set test for cross-linked materials | IEC 60811-507 |
| 106 | ELECTRICAL- CABLES & WIRES | Electric and optical fibre cables Test methods for non-metallic materials | Loss of Mass | IEC 60811-409 |
| 107 | ELECTRICAL- CABLES & WIRES | Electric and optical fibre cables Test methods for non-metallic materials | Overall dimension | IEC 60811-203 |
| 108 | ELECTRICAL- CABLES & WIRES | Electric and optical fibre cables Test methods for non-metallic materials | Test for resistance of insulation and sheaths to cracking (heat shock test) | IEC 60811-509 |
| 109 | ELECTRICAL- CABLES & WIRES | Electric and optical fibre cables Test methods for non-metallic materials | Tests for determining the mechanical properties of insulating and sheathing compounds | IEC 60811-501 |
| 110 | ELECTRICAL- CABLES & WIRES | Electric and optical fibre cables Test methods for non-metallic materials | Thermal ageing in air | IEC 60811-401 |
| 111 | ELECTRICAL- CABLES & WIRES | Electric and optical fibre cables Test methods for non-metallic materials | Thickness of Sheath | IEC 60811-202 |
| 112 | ELECTRICAL- CABLES & WIRES | Electric and optical fibre cables Test methods for non-metallic materials | Water absorption tests | IEC 60811-402 |
| 113 | ELECTRICAL- CABLES & WIRES | Electric cables — Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) Part 1: General requirements | Check on absence of faults on insulation | BS EN 50525(Part-1) |
| 114 | ELECTRICAL- CABLES & WIRES | Electric cables — Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) Part 1: General requirements | Conductor Resistance Test | BS EN 50525(Part-1) |
| 115 | ELECTRICAL- CABLES & WIRES | Electric cables — Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) Part 1: General requirements | Durability & Legibility of Marking | BS EN 50525(Part-1) |
| 116 | ELECTRICAL- CABLES & WIRES | Electric cables — Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) Part 1: General requirements | Long Term Resistance of Insulation to D.C. | BS EN 50525(Part-1) |

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| 117 | ELECTRICAL- CABLES & WIRES | Electric cables — Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) Part 1: General requirements | Surface Resistance of sheath | BS EN 50525(Part-1) |
| 118 | ELECTRICAL- CABLES & WIRES | Electric cables — Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) Part 1: General requirements | Thickness of Insulation and Sheath | BS EN 50525(Part-1) |
| 119 | ELECTRICAL- CABLES & WIRES | Electric cables — Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) Part 1: General requirements | Voltage test on Completed Cables | BS EN 50525(Part-1) |
| 120 | ELECTRICAL- CABLES & WIRES | Electric cables — Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) Part 1: General requirements | Voltage test on Cores | BS EN 50525(Part-1) |
| 121 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5 KV DC | Surface Resistance of Sheath | IEC 62930 |
| 122 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Ageing in Air Oven | BS EN 50618 |
| 123 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Ageing in Air Oven | IEC 62930 |
| 124 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Bending Test at Low Temperature | IEC 62930 |
| 125 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Cold Bending Test | BS EN 50618 |
| 126 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Cold Impact Test | BS EN 50618 |
| 127 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Cold Impact Test | IEC 62930 |
| 128 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Compatibility Test | BS EN 50618 |
| 129 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Compatibility Test | IEC 62930 |
| 130 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Conductor Resistance | BS EN 50618 |
| 131 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Conductor Resistance | IEC 62930 |
| 132 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Continuity of Tin | BS EN 50618 |
| 133 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Continuity of Tin | IEC 62930 |

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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 |
|---|---|---|---|---|
| 134 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Damp Heat Test | BS EN 50618 |
| 135 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Damp Heat Test | IEC 62930 |
| 136 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Diameter of Conductor | BS EN 50618 |
| 137 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Diameter of Conductor | IEC 62930 |
| 138 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Dynamic Penetration Test | BS EN 50618 |
| 139 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Dynamic Penetration Test | IEC 62930 |
| 140 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Elongation at Low Temperature | IEC 62930 |
| 141 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Hot Set Test | BS EN 50618 |
| 142 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Hot Set Test | IEC 62930 |
| 143 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Insulation Resistance | BS EN 50618 |
| 144 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Insulation Resistance | IEC 62930 |
| 145 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Long Term Resistance of insulation to D.C. | BS EN 50618 |
| 146 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Long Term Resistance of insulation to D.C. | IEC 62930 |
| 147 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Measurement of Thickness of Insulation & Sheath | BS EN 50618 |
| 148 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Measurement of Thickness of Insulation & Sheath | IEC 62930 |
| 149 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Ovality | BS EN 50618 |
| 150 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Ovality | IEC 62930 |
| 151 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Ozone Resistance Test | BS EN 50618 |
| 152 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Ozone Resistance Test | IEC 62930 |

# SCOPE OF ACCREDITATION

**Laboratory Name :** BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA

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|---|---|---|---|---|
| 153 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Shrinkage Test | BS EN 50618 |
| 154 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Shrinkage Test | IEC 62930 |
| 155 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Tensile strength and elongation at break on Insulation and Sheath | BS EN 50618 |
| 156 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Tensile strength and elongation at break on Insulation and Sheath | IEC 62930 |
| 157 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Test for vertical flame propagation | BS EN 50618 |
| 158 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Test for vertical flame propagation | IEC 62930 |
| 159 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Thermal Endurance Test | IEC 50618 |
| 160 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Thermal Endurance Test | IEC 62930 |
| 161 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Voltage Test on completed cable with A.C. or D.C. | BS EN 50618 |
| 162 | ELECTRICAL- CABLES & WIRES | Electrical Cables for photovoltaic systems with a Voltage Rating of 1.5KV DC | Voltage Test on completed cable with A.C. or D.C. | IEC 62930 |
| 163 | ELECTRICAL- CABLES & WIRES | Low Carbon Galvanized Steel Wires, Formed Wires and Tapes for Armouring of Cables | Adhesion Test | IS 3975 |
| 164 | ELECTRICAL- CABLES & WIRES | Low Carbon Galvanized Steel Wires, Formed Wires and Tapes for Armouring of Cables | Dimension for Armouring Material | IS 3975 |
| 165 | ELECTRICAL- CABLES & WIRES | Low Carbon Galvanized Steel Wires, Formed Wires and Tapes for Armouring of Cables | Mass of Zinc Coating | IS 3975 |
| 166 | ELECTRICAL- CABLES & WIRES | Low Carbon Galvanized Steel Wires, Formed Wires and Tapes for Armouring of Cables | Resistivity & Conductance test of Armour (Wires/strips) | IS 3975 |
| 167 | ELECTRICAL- CABLES & WIRES | Low Carbon Galvanized Steel Wires, Formed Wires and Tapes for Armouring of Cables | Tensile strength and Elongation at break for armor | IS 3975 |
| 168 | ELECTRICAL- CABLES & WIRES | Low Carbon Galvanized Steel Wires, Formed Wires and Tapes for Armouring of Cables | Torsion Test on Galvanized steel wire for Armouring | IS 3975 |
| 169 | ELECTRICAL- CABLES & WIRES | Low Carbon Galvanized Steel Wires, Formed Wires and Tapes for Armouring of Cables | Uniformity of Zinc coating (Dip Test) | IS 3975 |
| 170 | ELECTRICAL- CABLES & WIRES | Low Carbon Galvanized Steel Wires, Formed Wires and Tapes for Armouring of Cables | Winding Test for Galvanized formed wires | IS 3975 |

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|---|---|---|---|---|
| 171 | ELECTRICAL- CABLES & WIRES | Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3kV | Accelerated Water Absorption Test (Electrical) | IEC 60502 (Part-1) |
| 172 | ELECTRICAL- CABLES & WIRES | Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3kV | Carbon Content Test | IEC 60502 (Part-1) |
| 173 | ELECTRICAL- CABLES & WIRES | Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3kV | Cold Bend Test | IEC 60502 (Part-1) |
| 174 | ELECTRICAL- CABLES & WIRES | Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3kV | Cold Impact Test | IEC 60502 (Part-1) |
| 175 | ELECTRICAL- CABLES & WIRES | Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3kV | Conductor Resistance | IEC 60502 (Part-1) |
| 176 | ELECTRICAL- CABLES & WIRES | Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3kV | Elongation Test at Low Temperature | IEC 60502 (Part-1) |
| 177 | ELECTRICAL- CABLES & WIRES | Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3kV | Heat Shock Test | IEC 60502 (Part-1) |
| 178 | ELECTRICAL- CABLES & WIRES | Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3kV | High Voltage Test (4 Hour Test) | IEC 60502 (Part-1) |
| 179 | ELECTRICAL- CABLES & WIRES | Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3kV | High Voltage test at room temperature | IEC 60502 (Part-1) |
| 180 | ELECTRICAL- CABLES & WIRES | Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3kV | Hot deformation test / Pressure Test atHigh Temperature | IEC 60502 (Part-1) |
| 181 | ELECTRICAL- CABLES & WIRES | Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3kV | Hot Set Test | IEC 60502 (Part-1) |
| 182 | ELECTRICAL- CABLES & WIRES | Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3kV | Insulation Resistance | IEC 60502 (Part-1) |
| 183 | ELECTRICAL- CABLES & WIRES | Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3kV | Ozone Resistance Test | IEC 60502 (Part-1) |
| 184 | ELECTRICAL- CABLES & WIRES | Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3kV | Shrinkage Test | IEC 60502 (Part-1) |
| 185 | ELECTRICAL- CABLES & WIRES | Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3kV | Tensile strength and elongation at break on Insulation and Sheath | IEC 60502 (Part-1) |
| 186 | ELECTRICAL- CABLES & WIRES | Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3kV | Test under Fire Conditions / Flammability Test | IEC 60502 (Part-1) |
| 187 | ELECTRICAL- CABLES & WIRES | Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3kV | Thermal ageing test for complete cable/ Additional Ageing Test on pieces of Completed Cables | IEC 60502 (Part-1) |
| 188 | ELECTRICAL- CABLES & WIRES | Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3kV | Thermal Stability | IEC 60502 (Part-1) |

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|---|---|---|---|---|
| 189 | ELECTRICAL- CABLES & WIRES | Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3kV | Water Absorption Test (Gravimetric) | IEC 60502 (Part-1) |
| 190 | ELECTRICAL- CABLES & WIRES | Power Cables with extruded insulationand their accessories for rated voltages from 1kV to 3kV | Ageing in Air Oven | IEC 60502 (Part-1) |
| 191 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/ 750 V | Thermal stability test | IEC 60227 (Part-3) |
| 192 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Ageing in air Oven | IEC 60227 (Part-1) |
| 193 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Ageing in air Oven | IEC 60227 (Part-2) |
| 194 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Ageing in air Oven | IEC 60227 (Part-3) |
| 195 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Ageing in air Oven | IEC 60227 (Part-4) |
| 196 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Ageing in air Oven | IEC 60227 (Part-5) |
| 197 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Ageing in air Oven | IEC 60227(Part-6) |
| 198 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Bending Test | IEC 60227 (Part-1) |
| 199 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Bending Test | IEC 60227 (Part-2) |
| 200 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Bending Test | IEC 60227 (Part-3) |
| 201 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Bending Test | IEC 60227 (Part-4) |
| 202 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Bending Test | IEC 60227 (Part-5) |
| 203 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Bending Test | IEC 60227(Part-6) |
| 204 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Bending Test at Low Temperature/Cold bend test | IEC 60227 (Part-1) |
| 205 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Bending Test at Low Temperature/Cold bend test | IEC 60227 (Part-2) |
| 206 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Bending Test at Low Temperature/Cold bend test | IEC 60227 (Part-4) |
| 207 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Bending Test at Low Temperature/Cold bend test | IEC 60227 (Part-5) |

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| **Laboratory Name :** | BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA | | |
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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 |
|---|---|---|---|---|
| 208 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Bending Test at Low Temperature/Cold bend test | IEC 60227(Part-6) |
| 209 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Conductor Resistance Test | IEC 60227 (Part-1) |
| 210 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Conductor Resistance Test | IEC 60227 (Part-2) |
| 211 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Conductor Resistance Test | IEC 60227 (Part-3) |
| 212 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Conductor Resistance Test | IEC 60227 (Part-4) |
| 213 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Conductor Resistance Test | IEC 60227 (Part-5) |
| 214 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Conductor Resistance Test | IEC 60227(Part-6) |
| 215 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Durability & Legibility of Marking | IEC 60227 (Part-2) |
| 216 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Elasticity Test at Low Temperature | IEC 60227 (Part-3) |
| 217 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Elasticity Test at Low Temperature | IEC 60227 (Part-4) |
| 218 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Elasticity Test at Low Temperature | IEC 60227 (Part-5) |
| 219 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Elasticity Test at Low Temperature | IEC 60227(Part-6) |
| 220 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Elongation Test at Low Temperature | IEC 60227 (Part-1) |
| 221 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Elongation Test at Low Temperature | IEC 60227 (Part-2 |
| 222 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Elongation Test at Low Temperature | IEC 60227 (Part-4) |
| 223 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Elongation Test at Low Temperature | IEC 60227 (Part-5) |
| 224 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Elongation Test at Low Temperature | IEC 60227(Part-6) |
| 225 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Flame retardance test | IEC 60227 (Part-1) |
| 226 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Flame retardance test | IEC 60227 (Part-2) |

# SCOPE OF ACCREDITATION

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| **Laboratory Name :** | BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA | | |
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|---|---|---|---|---|
| 227 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Flame retardance test | IEC 60227 (Part-4) |
| 228 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Flame retardance test | IEC 60227 (Part-5) |
| 229 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Flame retardance test | IEC 60227(Part-6) |
| 230 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Heat shock test | IEC 60227 (Part-1) |
| 231 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Heat shock test | IEC 60227 (Part-2) |
| 232 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Heat shock test | IEC 60227 (Part-3) |
| 233 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Heat shock test | IEC 60227 (Part-4) |
| 234 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Heat shock test | IEC 60227 (Part-5) |
| 235 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Heat shock test | IEC 60227(Part-6) |
| 236 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Impact test at Low Temperature/Cold impact test | IEC 60227 (Part-1) |
| 237 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Impact test at Low Temperature/Cold impact test | IEC 60227 (Part-2) |
| 238 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Impact test at Low Temperature/Cold impact test | IEC 60227 (Part-4) |
| 239 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Impact test at Low Temperature/Cold impact test | IEC 60227 (Part-5 |
| 240 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Impact test at Low Temperature/Cold impact test | IEC 60227(Part-6) |
| 241 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Insulation Resistance (Volume Resistivity) | IEC 60227 (Part-1) |
| 242 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Insulation Resistance (Volume Resistivity) | IEC 60227 (Part-2) |
| 243 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Insulation Resistance (Volume Resistivity) | IEC 60227 (Part-3) |
| 244 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Insulation Resistance (Volume Resistivity) | IEC 60227 (Part-4) |
| 245 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Insulation Resistance (Volume Resistivity) | IEC 60227 (Part-5) |

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|---|---|---|---|
| **Laboratory Name :** | BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA | | |
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|---|---|---|---|---|
| 246 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Insulation Resistance (Volume Resistivity) | IEC 60227(Part-6) |
| 247 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Loss of Mass Test | IEC 60227 (Part-1) |
| 248 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Loss of Mass Test | IEC 60227 (Part-2) |
| 249 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Loss of Mass Test | IEC 60227 (Part-3) |
| 250 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Loss of Mass Test | IEC 60227 (Part-4) |
| 251 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Loss of Mass Test | IEC 60227 (Part-5) |
| 252 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Loss of Mass Test | IEC 60227(Part-6) |
| 253 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Mechanical Properties after immersion in mineral oil | IEC 60227 (Part-1) |
| 254 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Mechanical Properties after immersion in mineral oil | IEC 60227 (Part-2) |
| 255 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Pressure test at high temperature/ Hot deformation test | IEC 60227 (Part-1) |
| 256 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Pressure test at high temperature/ Hot deformation test | IEC 60227 (Part-2) |
| 257 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Pressure test at high temperature/ Hot deformation test | IEC 60227 (Part-3) |
| 258 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Pressure test at high temperature/ Hot deformation test | IEC 60227 (Part-4) |
| 259 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Pressure test at high temperature/ Hot deformation test | IEC 60227 (Part-5) |
| 260 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Pressure test at high temperature/ Hot deformation test | IEC 60227(Part-6) |
| 261 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Tensile strength and elongation at break | IEC 60227 (Part-1) |
| 262 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Tensile strength and elongation at break | IEC 60227 (Part-2) |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-7253 | **Page No** | 16 of 132 |
| **Validity** | 05/07/2021 to 04/07/2023 | **Last Amended on** | 05/05/2022 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 263 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Tensile strength and elongation at break | IEC 60227 (Part-3) |
| 264 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Tensile strength and elongation at break | IEC 60227 (Part-4) |
| 265 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Tensile strength and elongation at break | IEC 60227 (Part-5) |
| 266 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Tensile strength and elongation at break | IEC 60227(Part-6) |
| 267 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Thermal stability test | IEC 60227 (Part-1) |
| 268 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Thermal stability test | IEC 60227 (Part-2) |
| 269 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Thermal stability test | IEC 60227 (Part-4) : |
| 270 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Thermal stability test | IEC 60227 (Part-5) |
| 271 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Thermal stability test | IEC 60227(Part-6) |
| 272 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Thickness and overall diameter of Insulation | IEC 60227 (Part-3) |
| 273 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Thickness and overall diameter Ovality of Insulation and Sheath | IEC 60227 (Part-4) |
| 274 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Thickness and overall diameter Ovality of Insulation and Sheath | IEC 60227 (Part-5) |
| 275 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Thickness and overall diameter Ovality of Insulation and Sheath | IEC 60227(Part-6) |
| 276 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Thickness of Insulation and Sheath | IEC 60227 (Part-1) |
| 277 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Thickness of Insulation and Sheath | IEC 60227 (Part-2) |
| 278 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Voltage test on Completed Cables | IEC 60227 (Part-1) |
| 279 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Voltage test on Completed Cables | IEC 60227 (Part-2) |
| 280 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Voltage test on Completed Cables | IEC 60227 (Part-3) |

# SCOPE OF ACCREDITATION

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|---|---|---|---|
| **Laboratory Name :** | BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-7253 | **Page No** | 17 of 132 |
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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 |
|---|---|---|---|---|
| 281 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Voltage test on Completed Cables | IEC 60227 (Part-4) |
| 282 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Voltage test on Completed Cables | IEC 60227 (Part-5) |
| 283 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Voltage test on Completed Cables | IEC 60227(Part-6) |
| 284 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Voltage test on Cores | IEC 60227 (Part-1) |
| 285 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Voltage test on Cores | IEC 60227 (Part-2) |
| 286 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Voltage test on Cores | IEC 60227 (Part-3) |
| 287 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Voltage test on Cores | IEC 60227 (Part-4) |
| 288 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Voltage test on Cores | IEC 60227 (Part-5) |
| 289 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables of Rated Voltage Up to and including 450/750V | Voltage test on Cores | IEC 60227(Part-6) |
| 290 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cablesof Rated Voltage Up to and including 450/750V | Durability & Legibility of Marking | IEC 60227 (Part-1) |
| 291 | ELECTRICAL- CABLES & WIRES | PVC Insulated Unsheathed and Sheathed Cables/Cords with Rigid conductor for Rated Voltage Up to and including 450/750V | High voltage test (Room temp.) | IS 694 |
| 292 | ELECTRICAL- CABLES & WIRES | PVC Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible conductor for Rated Voltage Up to and including 450/750V | High voltage test (water immersion) | IS 694 |
| 293 | ELECTRICAL- CABLES & WIRES | PVC Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible conductor for Rated Voltage Up to and including 450/750V | Additional ageing test | IS 694 ( Clause -16.6) |
| 294 | ELECTRICAL- CABLES & WIRES | PVC Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible conductor for Rated Voltage Up to and including 450/750V | Ageing in air oven of Insulation and sheath | IS 694 |
| 295 | ELECTRICAL- CABLES & WIRES | PVC Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible conductor for Rated Voltage Up to and including 450/750V | Ageing in air oven of Insulation and sheath | IS 694 |
| 296 | ELECTRICAL- CABLES & WIRES | PVC Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible conductor for Rated Voltage Up to and including 450/750V | Annealing Test (For Copper) | IS 694 |

# SCOPE OF ACCREDITATION

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| **Laboratory Name :** | BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-7253 | **Page No** | 18 of 132 |
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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 |
|---|---|---|---|---|
| 297 | ELECTRICAL- CABLES & WIRES | PVC Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible conductor for Rated Voltage Up to and including 450/750V | Cold bend test of Insulation | IS 694 |
| 298 | ELECTRICAL- CABLES & WIRES | PVC Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible conductor for Rated Voltage Up to and including 450/750V | Cold impact test of Insulation | IS 694 |
| 299 | ELECTRICAL- CABLES & WIRES | PVC Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible conductor for Rated Voltage Up to and including 450/750V | Conductor Resistance Test | IS 694 |
| 300 | ELECTRICAL- CABLES & WIRES | PVC Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible conductor for Rated Voltage Up to and including 450/750V | Durability | IS 694(Clause -11.1) |
| 301 | ELECTRICAL- CABLES & WIRES | PVC Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible conductor for Rated Voltage Up to and including 450/750V | Flammability test | IS 694 |
| 302 | ELECTRICAL- CABLES & WIRES | PVC Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible conductor for Rated Voltage Up to and including 450/750V | Heat shock test of Insulation and sheath | IS 694 |
| 303 | ELECTRICAL- CABLES & WIRES | PVC Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible conductor for Rated Voltage Up to and including 450/750V | Hot deformation test of Insulation and sheath | IS 694 |
| 304 | ELECTRICAL- CABLES & WIRES | PVC Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible conductor for Rated Voltage Up to and including 450/750V | Insulation Resistance Test | IS 694 |
| 305 | ELECTRICAL- CABLES & WIRES | PVC Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible conductor for Rated Voltage Up to and including 450/750V | Legibility | IS 694 (Clause-11.2) |
| 306 | ELECTRICAL- CABLES & WIRES | PVC Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible conductor for Rated Voltage Up to and including 450/750V | Loss of Mass of Insulation and sheath | IS 694 |
| 307 | ELECTRICAL- CABLES & WIRES | PVC Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible conductor for Rated Voltage Up to and including 450/750V | Loss of Mass of Insulation and sheath | IS 694 |
| 308 | ELECTRICAL- CABLES & WIRES | PVC Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible conductor for Rated Voltage Up to and including 450/750V | Marking | IS 694 (Clause- 15) |
| 309 | ELECTRICAL- CABLES & WIRES | PVC Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible conductor for Rated Voltage Up to and including 450/750V | Overall Dimensions and Thickness of Insulation and Sheath | IS 694 |
| 310 | ELECTRICAL- CABLES & WIRES | PVC Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible conductor for Rated Voltage Up to and including 450/750V | Overall Dimensions and Thickness of Insulation and Sheath | IS 694 |

# SCOPE OF ACCREDITATION

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|---|---|---|---|
| **Laboratory Name :** | BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA | | |
| **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 |
|---|---|---|---|---|
| 311 | ELECTRICAL- CABLES & WIRES | PVC Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible conductor for Rated Voltage Up to and including 450/750V | Shrinkage test of Insulation and sheath | IS 694 |
| 312 | ELECTRICAL- CABLES & WIRES | PVC Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible conductor for Rated Voltage Up to and including 450/750V | Tensile strength and and elongation at breakage of Insulation sheath | IS 694 |
| 313 | ELECTRICAL- CABLES & WIRES | PVC Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible conductor for Rated Voltage Up to and including 450/750V | Tensile strength and elongation at breakage of Insulation and sheath | IS 694 |
| 314 | ELECTRICAL- CABLES & WIRES | PVC Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible conductor for Rated Voltage Up to and including 450/750V | Tensile Test (For Aluminum) | IS 694 |
| 315 | ELECTRICAL- CABLES & WIRES | PVC Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible conductor for Rated Voltage Up to and including 450/750V | Thermal stability test of Insulation and sheath | IS 694 |
| 316 | ELECTRICAL- CABLES & WIRES | PVC Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible conductor for Rated Voltage Up to and including 450/750V | Wrapping Test (For Aluminum) | IS 694 |
| 317 | ELECTRICAL- CABLES & WIRES | Road Vechiles-60V and 600V Single-core Cables-Dimensions, test methods and requirements | Conductor Resistance Test | IS/ISO 6722 |
| 318 | ELECTRICAL- CABLES & WIRES | Road Vechiles-60V and 600V Single-core Cables-Dimensions, test methods and requirements | Dimensions Outside Cable Diameter/Thicknessof Insulation/Conductor Diameter | IS/ISO 6722 |
| 319 | ELECTRICAL- CABLES & WIRES | Road Vechiles-60V and 600V Single-core Cables-Dimensions, test methods and requirements | Durability of Cable marking | IS/ISO 6722 |
| 320 | ELECTRICAL- CABLES & WIRES | Road Vechiles-60V and 600V Single-core Cables-Dimensions, test methods and requirements | Fluid Compatibility | IS/ISO 6722 |
| 321 | ELECTRICAL- CABLES & WIRES | Road Vechiles-60V and 600V Single-core Cables-Dimensions, test methods and requirements | High voltage test | IS/ISO 6722 |
| 322 | ELECTRICAL- CABLES & WIRES | Road Vechiles-60V and 600V Single-core Cables-Dimensions, test methods and requirements | Insulation Faults | IS/ISO 6722 |
| 323 | ELECTRICAL- CABLES & WIRES | Road Vechiles-60V and 600V Single-core Cables-Dimensions, test methods and requirements | Insulation Volume resistivity Test | IS/ISO 6722 |
| 324 | ELECTRICAL- CABLES & WIRES | Road Vechiles-60V and 600V Single-core Cables-Dimensions, test methods and requirements | Long-term Heat ageing | IS/ISO 6722 |
| 325 | ELECTRICAL- CABLES & WIRES | Road Vechiles-60V and 600V Single-core Cables-Dimensions, test methods and requirements | Low Temperature Impact | IS/ISO 6722 |
| 326 | ELECTRICAL- CABLES & WIRES | Road Vechiles-60V and 600V Single-core Cables-Dimensions, test methods and requirements | Low Temperature Winding | IS/ISO 6722 |

# SCOPE OF ACCREDITATION

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|---|---|---|---|
| **Laboratory Name :** | BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA | | |
| **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 |
|---|---|---|---|---|
| 327 | ELECTRICAL- CABLES & WIRES | Road Vechiles-60V and 600V Single-core Cables-Dimensions, test methods and requirements | Pressure test at high temperature for insulation and sheaths/ Hot deformation test | IS/ISO 6722 |
| 328 | ELECTRICAL- CABLES & WIRES | Road Vechiles-60V and 600V Single-core Cables-Dimensions, test methods and requirements | Resistance to Flame Propagation | IS/ISO 6722 |
| 329 | ELECTRICAL- CABLES & WIRES | Road Vechiles-60V and 600V Single-core Cables-Dimensions, test methods and requirements | Resistance to Hot Water | IS/ISO 6722 |
| 330 | ELECTRICAL- CABLES & WIRES | Road Vechiles-60V and 600V Single-core Cables-Dimensions, test methods and requirements | Short-term Heat ageing | IS/ISO 6722 |
| 331 | ELECTRICAL- CABLES & WIRES | Road Vechiles-60V and 600V Single-core Cables-Dimensions, test methods and requirements | Shrinkage by Heat | IS/ISO 6722 |
| 332 | ELECTRICAL- CABLES & WIRES | Road Vechiles-60V and 600V Single-core Cables-Dimensions, test methods and requirements | Strip Force | IS/ISO 6722 |
| 333 | ELECTRICAL- CABLES & WIRES | Road Vechiles-60V and 600V Single-core Cables-Dimensions, test methods and requirements | Temperature and Humidity Cycling | IS/ISO 6722 |
| 334 | ELECTRICAL- CABLES & WIRES | Road Vechiles-60V and 600V Single-core Cables-Dimensions, test methods and requirements | Thermal Overload Test | IS/ISO 6722 |
| 335 | ELECTRICAL- CABLES & WIRES | Specification for Cross-linked Polyethylene Insulated PVC Sheathed Cables For Working Voltage Up to and Including 1100V | Ageing in air oven of insulation and sheath | IS 7098(Part I) |
| 336 | ELECTRICAL- CABLES & WIRES | Specification for Cross-linked Polyethylene Insulated PVC Sheathed Cables For Working Voltage Up to and Including 1100V | Annealing Test (For Copper) | IS 7098 (Part I) |
| 337 | ELECTRICAL- CABLES & WIRES | Specification for Cross-linked Polyethylene Insulated PVC Sheathed Cables For Working Voltage Up to and Including 1100V | Cold bend test of sheath | IS 7098(Part I) |
| 338 | ELECTRICAL- CABLES & WIRES | Specification for Cross-linked Polyethylene Insulated PVC Sheathed Cables For Working Voltage Up to and Including 1100V | Cold impact test sheath | IS 7098(Part I) |
| 339 | ELECTRICAL- CABLES & WIRES | Specification for Cross-linked Polyethylene Insulated PVC Sheathed Cables For Working Voltage Up to and Including 1100V | Conductor Resistance Test | IS 7098 (Part I) |
| 340 | ELECTRICAL- CABLES & WIRES | Specification for Cross-linked Polyethylene Insulated PVC Sheathed Cables For Working Voltage Up to and Including 1100V | Dimension of Armor | IS 7098 (Part I) |
| 341 | ELECTRICAL- CABLES & WIRES | Specification for Cross-linked Polyethylene Insulated PVC Sheathed Cables For Working Voltage Up to and Including 1100V | Flammability test | IS 7098(Part I) |

# SCOPE OF ACCREDITATION

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|---|---|---|---|
| **Laboratory Name :** | BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA | | |
| **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 |
|---|---|---|---|---|
| 342 | ELECTRICAL- CABLES & WIRES | Specification for Cross-linked Polyethylene Insulated PVC Sheathed Cables For Working Voltage Up to and Including 1100V | Heat shock test of Sheath | IS 7098(Part I) |
| 343 | ELECTRICAL- CABLES & WIRES | Specification for Cross-linked Polyethylene Insulated PVC Sheathed Cables For Working Voltage Up to and Including 1100V | High voltage test (Room temp.) | IS 7098(Part I) |
| 344 | ELECTRICAL- CABLES & WIRES | Specification for Cross-linked Polyethylene Insulated PVC Sheathed Cables For Working Voltage Up to and Including 1100V | Hot deformation test of Sheath | IS 7098(Part I) |
| 345 | ELECTRICAL- CABLES & WIRES | Specification for Cross-linked Polyethylene Insulated PVC Sheathed Cables For Working Voltage Up to and Including 1100V | Hot Set Test of Insulation | IS 7098(Part I) |
| 346 | ELECTRICAL- CABLES & WIRES | Specification for Cross-linked Polyethylene Insulated PVC Sheathed Cables For Working Voltage Up to and Including 1100V | Insulation Resistance (Volume Resistivity) | IS 7098(Part I) |
| 347 | ELECTRICAL- CABLES & WIRES | Specification for Cross-linked Polyethylene Insulated PVC Sheathed Cables For Working Voltage Up to and Including 1100V | Loss of Mass of sheath | IS 7098(Part I) |
| 348 | ELECTRICAL- CABLES & WIRES | Specification for Cross-linked Polyethylene Insulated PVC Sheathed Cables For Working Voltage Up to and Including 1100V | Mass of Zinc Coating | IS 7098(Part I) |
| 349 | ELECTRICAL- CABLES & WIRES | Specification for Cross-linked Polyethylene Insulated PVC Sheathed Cables For Working Voltage Up to and Including 1100V | Resistance, Conductance of Armor | IS 7098(Part I) |
| 350 | ELECTRICAL- CABLES & WIRES | Specification for Cross-linked Polyethylene Insulated PVC Sheathed Cables For Working Voltage Up to and Including 1100V | Shrinkage test of insulation and sheath | IS 7098(Part I) |
| 351 | ELECTRICAL- CABLES & WIRES | Specification for Cross-linked Polyethylene Insulated PVC Sheathed Cables For Working Voltage Up to and Including 1100V | Tensile strength and Elongation at break for armor | IS 7098 (Part I) |
| 352 | ELECTRICAL- CABLES & WIRES | Specification for Cross-linked Polyethylene Insulated PVC Sheathed Cables For Working Voltage Up to and Including 1100V | Tensile strength and elongation at break of insulation and sheath | IS 7098(Part I) |
| 353 | ELECTRICAL- CABLES & WIRES | Specification for Cross-linked Polyethylene Insulated PVC Sheathed Cables For Working Voltage Up to and Including 1100V | Tensile Test (For Aluminum) | IS 7098 (Part I) |
| 354 | ELECTRICAL- CABLES & WIRES | Specification for Cross-linked Polyethylene Insulated PVC Sheathed Cables For Working Voltage Up to and Including 1100V | Thermal stability test of Sheath | IS 7098(Part I) |
| 355 | ELECTRICAL- CABLES & WIRES | Specification for Cross-linked Polyethylene Insulated PVC Sheathed Cables For Working Voltage Up to and Including 1100V | Thickness of Insulation and Sheath | IS 7098(Part I) |

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| **Laboratory Name :** | BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA | | |
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|---|---|---|---|---|
| 356 | ELECTRICAL- CABLES & WIRES | Specification for Cross-linked Polyethylene Insulated PVC Sheathed Cables For Working Voltage Up to and Including 1100V | Torsion (For Round Wire only) | IS 7098 (Part I) |
| 357 | ELECTRICAL- CABLES & WIRES | Specification for Cross-linked Polyethylene Insulated PVC Sheathed Cables For Working Voltage Up to and Including 1100V | Uniformity of Zinc Coating | IS 7098 (Part I) |
| 358 | ELECTRICAL- CABLES & WIRES | Specification for Cross-linked Polyethylene Insulated PVC Sheathed Cables For Working Voltage Up to and Including 1100V | Water absorption test (gravimetric) | IS 7098(Part I) |
| 359 | ELECTRICAL- CABLES & WIRES | Specification for Cross-linked Polyethylene Insulated PVC Sheathed Cables For Working Voltage Up to and Including 1100V | Winding Test for Galvanized Steel Strips for Armoring | IS 7098 (Part I) |
| 360 | ELECTRICAL- CABLES & WIRES | Specification for Cross-linked Polyethylene Insulated PVC Sheathed Cables For Working Voltage Up to and Including 1100V | Wrapping Test (For Aluminum) | IS 7098 (Part I) |
| 361 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-1 for working voltage up to and including 1100V | Ageing in air oven of insulation and sheath | IS 9968 (Part-1) |
| 362 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-1 for working voltage up to and including 1100V | Annealing Test (For Copper) | IS 9968 (Part-1) |
| 363 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-1 for working voltage up to and including 1100V | Conductor Resistance Test | IS 9968 (Part-1) |
| 364 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-1 for working voltage up to and including 1100V | Flammability test | IS 9968 (Part-1) |
| 365 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-1 for working voltage up to and including 1100V | High voltage test (water immersion) | IS 9968 (Part-1) |
| 366 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-1 for working voltage up to and including 1100V | Hot Set Test | IS 9968 (Part-1) |
| 367 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-1 for working voltage up to and including 1100V | Insulation Resistance Test | IS 9968 (Part-1) |
| 368 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-1 for working voltage up to and including 1100V | Oil Resistance Test | IS 9968 (Part-1) |
| 369 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-1 for working voltage up to and including 1100V | Per sulphate Test/ Tinning Test | IS 9968 (Part-1) |
| 370 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-1 for working voltage up to and including 1100V | Tear Resistance Test | IS 9968 (Part-1) |
| 371 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-1 for working voltage up to and including 1100V | Tensile strength and elongation at breakage of insulation and sheath | IS 9968 (Part-1) |
| 372 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-1 for working voltage up to and including 1100V | Tensile Test (For Aluminum) | IS 9968 (Part-1) |

# SCOPE OF ACCREDITATION

**Laboratory Name :** BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA

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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 |
|---|---|---|---|---|
| 373 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-1 for working voltage up to and including 1100V | Thickness of Insulation and Sheath and overall Diameter | IS 9968 (Part-1) |
| 374 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-1 for working voltage up to and including 1100V | Water Absorption Test (Electrical) | IS 9968 (Part-1) |
| 375 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-1 for working voltage up to and including 1100V | Wrapping Test (For Aluminum) | IS 9968 (Part-1) |
| 376 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-2 for working voltage from 3.3KV up to and including 33KV | Ageing in air Oven of Insulation and Sheath | IS 9968 (Part-2) |
| 377 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-2 for working voltage from 3.3KV up to and including 33KV | Annealing Test (For Copper) | IS 9968 (Part-2) |
| 378 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-2 for working voltage from 3.3KV up to and including 33KV | Conductor Resistance Test | IS 9968 (Part-2) |
| 379 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-2 for working voltage from 3.3KV up to and including 33KV | Dimension for Armouring Material | IS 9968 (Part-2) |
| 380 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-2 for working voltage from 3.3KV up to and including 33KV | Flammability test | IS 9968 (Part-2) |
| 381 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-2 for working voltage from 3.3KV up to and including 33KV | Heat shock test | IS 9968 (Part-2) |
| 382 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-2 for working voltage from 3.3KV up to and including 33KV | High voltage test (Four-Hour Test) | IS 9968 (Part-2) |
| 383 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-2 for working voltage from 3.3KV up to and including 33KV | Hot deformation test | IS 9968 (Part-2) |
| 384 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-2 for working voltage from 3.3KV up to and including 33KV | Hot Set Test of Insulation and Sheath | IS 9968 (Part-2) |
| 385 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-2 for working voltage from 3.3KV up to and including 33KV | Insulation Resistance Test | IS 9968 (Part-2) |
| 386 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-2 for working voltage from 3.3KV up to and including 33KV | Loss of Mass in air Oven | IS 9968 (Part-2) |
| 387 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-2 for working voltage from 3.3KV up to and including 33KV | Mass of Zinc Coating | IS 9968 (Part-2) |
| 388 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-2 for working voltage from 3.3KV up to and including 33KV | Oil Resistance Test | IS 9968 (Part-2) |
| 389 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-2 for working voltage from 3.3KV up to and including 33KV | Per sulphate Test/ Tinning Test | IS 9968 (Part-2) |
| 390 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-2 for working voltage from 3.3KV up to and including 33KV | Per sulphate Test/ Tinning Test | IS 9968 (Part-2) Re |
| 391 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-2 for working voltage from 3.3KV up to and including 33KV | Shrinkage test | IS 9968 (Part-2) |

# SCOPE OF ACCREDITATION

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|---|---|---|---|
| **Laboratory Name :** | BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA | | |
| **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 |
|---|---|---|---|---|
| 392 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-2 for working voltage from 3.3KV up to and including 33KV | Tear Resistance Test | IS 9968 (Part-2) |
| 393 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-2 for working voltage from 3.3KV up to and including 33KV | Tensile strength and Elongation at break for armor | IS 9968 (Part-2) |
| 394 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-2 for working voltage from 3.3KV up to and including 33KV | Tensile strength and elongation at break of Insulation and Sheath | IS 9968 (Part-2) |
| 395 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-2 for working voltage from 3.3KV up to and including 33KV | Tensile Test (For Aluminum) | IS 9968 (Part-2) |
| 396 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-2 for working voltage from 3.3KV up to and including 33KV | Thermal stability test | IS 9968 (Part-2) |
| 397 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-2 for working voltage from 3.3KV up to and including 33KV | Thickness of Insulation and Sheath | IS 9968 (Part-2) |
| 398 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-2 for working voltage from 3.3KV up to and including 33KV | Torsion (For Round Wire only) | IS 9968 (Part-2) |
| 399 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-2 for working voltage from 3.3KV up to and including 33KV | Uniformity of Zinc Coating | IS 9968 (Part-2) |
| 400 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-2 for working voltage from 3.3KV up to and including 33KV | Winding/ Wrapping Test on Galvanized steel strip for Armouring | IS 9968 (Part-2) |
| 401 | ELECTRICAL- CABLES & WIRES | Specification for elastomer insulated cables part-2 for working voltage from 3.3KV up to and including 33KV | Wrapping Test (For Aluminum) | IS 9968 (Part-2) |
| 402 | ELECTRICAL- CABLES & WIRES | Specification for flexible cables for lifts and other flexible connections | Ageing in air Oven of Insulation and Sheath | IS 4289(Part-1) |
| 403 | ELECTRICAL- CABLES & WIRES | Specification for flexible cables for lifts and other flexible connections | Annealing Test (For Copper) | IS 4289(Part-1) |
| 404 | ELECTRICAL- CABLES & WIRES | Specification for flexible cables for lifts and other flexible connections | Conductor Resistance Test | IS 4289(Part-1) |
| 405 | ELECTRICAL- CABLES & WIRES | Specification for flexible cables for lifts and other flexible connections | Flammability test | IS 4289(Part-1) |
| 406 | ELECTRICAL- CABLES & WIRES | Specification for flexible cables for lifts and other flexible connections | High voltage test (water Immersion Test) | IS 4289(Part-1) |
| 407 | ELECTRICAL- CABLES & WIRES | Specification for flexible cables for lifts and other flexible connections | Insulation Resistance Test | IS 4289(Part-1) |
| 408 | ELECTRICAL- CABLES & WIRES | Specification for flexible cables for lifts and other flexible connections | Oil Resistance Test | IS 4289(Part-1) |
| 409 | ELECTRICAL- CABLES & WIRES | Specification for flexible cables for lifts and other flexible connections | Per sulphate Test/ Tinning Test | IS 4289(Part-1) |

# SCOPE OF ACCREDITATION

**Laboratory Name :** BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA

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|---|---|---|---|---|
| 410 | ELECTRICAL- CABLES & WIRES | Specification for flexible cables for lifts and other flexible connections | Static Flexibility Test | IS 4289(Part-1) |
| 411 | ELECTRICAL- CABLES & WIRES | Specification for flexible cables for lifts and other flexible connections | Tear Resistance Test | IS 4289(Part-1) |
| 412 | ELECTRICAL- CABLES & WIRES | Specification for flexible cables for lifts and other flexible connections | Tensile strength and elongation at break of Insulation and Sheath | IS 4289(Part-1) |
| 413 | ELECTRICAL- CABLES & WIRES | Specification for flexible cables for lifts and other flexible connections | Thickness of Insulation and Sheath | IS 4289(Part-1) |
| 414 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage from 3.3kV Up to and Including 11kV | Ageing in air oven of insulation and sheath | IS 1554 (Part-2) |
| 415 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage from 3.3kV Up to and Including 11kV | Annealing Test (For Copper) | IS 1554 (Part-2) |
| 416 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage from 3.3kV Up to and Including 11kV | Conductor Resistance Test | IS 1554 (Part-2) |
| 417 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage from 3.3kV Up to and Including 11kV | Dimension of Armor | IS 1554 (Part-2) |
| 418 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage from 3.3kV Up to and Including 11kV | Flammability test | IS 1554 (Part-2) |
| 419 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage from 3.3kV Up to and Including 11kV | Heat shock test of insulation and sheath | IS 1554 (Part-2) |
| 420 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage from 3.3kV Up to and Including 11kV | High voltage test (Room temp.) | IS 1554 (Part-2) |
| 421 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage from 3.3kV Up to and Including 11kV | High voltage test (water immersion) | IS 1554 (Part-2) |
| 422 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage from 3.3kV Up to and Including 11kV | Insulation Resistance | IS 1554 (Part-2) |
| 423 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage from 3.3kV Up to and Including 11kV | Loss of Mass of insulation and sheath | IS 1554 (Part-2) |

# SCOPE OF ACCREDITATION

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|---|---|---|---|
| **Laboratory Name :** | BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA | | |
| **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 |
|---|---|---|---|---|
| 424 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage from 3.3kV Up to and Including 11kV | Mass of Zinc Coating | IS 1554 (Part-2) |
| 425 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage from 3.3kV Up to and Including 11kV | Resistance, Conductance of Armor | IS 1554 (Part-2) |
| 426 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage from 3.3kV Up to and Including 11kV | Shrinkage test of insulation and sheath | IS 1554 (Part-2) |
| 427 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage from 3.3kV Up to and Including 11kV | Tensile strength and Elongation at break for armor | IS 1554 (Part-2) |
| 428 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage from 3.3kV Up to and Including 11kV | Tensile strength and elongation at breakage of insulation and sheath | IS 1554 (Part-2) |
| 429 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage from 3.3kV Up to and Including 11kV | Tensile Test (For Aluminum) | IS 1554 (Part-2) |
| 430 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage from 3.3kV Up to and Including 11kV | Thermal stability test of insulation and sheath | IS 1554 (Part-2) |
| 431 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage from 3.3kV Up to and Including 11kV | Thickness of Insulation and Sheath | IS 1554 (Part-2) |
| 432 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage from 3.3kV Up to and Including 11kV | Torsion (For Round Wire only) | IS 1554 (Part-2) |
| 433 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage from 3.3kV Up to and Including 11kV | Uniformity of Zinc Coating | IS 1554 (Part-2) |
| 434 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage from 3.3kV Up to and Including 11kV | Water absorption test (gravimetric) | IS 1554 (Part-2) |
| 435 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage from 3.3kV Up to and Including 11kV | Winding Test for Galvanized Steel Strips for Armoring | IS 1554 (Part-2) |
| 436 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage from 3.3kV Up to and Including 11kV | Wrapping Test (For Aluminum) | IS 1554 (Part-2) |
| 437 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage Up to and Including 1100V | Annealing Test (For Copper) | IS 1554 (Part-I) |

# SCOPE OF ACCREDITATION

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|---|---|---|---|
| **Laboratory Name :** | BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA | | |
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|---|---|---|---|---|
| 438 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage Up to and Including 1100V | Ageing in air of insulation and sheath | IS 1554 (Part-I) |
| 439 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage Up to and Including 1100V | Cold bend test of insulation | IS 1554 (Part-I) |
| 440 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage Up to and Including 1100V | Cold impact test of insulation | IS 1554 (Part-I) |
| 441 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage Up to and Including 1100V | Conductor Resistance Test | IS 1554 (Part-I) |
| 442 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage Up to and Including 1100V | Dimension of Armor | IS 1554 (Part-I) |
| 443 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage Up to and Including 1100V | Flammability test | IS 1554 (Part-I) |
| 444 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage Up to and Including 1100V | Heat shock test of insulation and sheath | IS 1554 (Part-I) |
| 445 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage Up to and Including 1100V | High voltage test (Room temp.) | IS 1554 (Part-I) |
| 446 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage Up to and Including 1100V | Hot deformation test of insulation and sheath | IS 1554 (Part-I) |
| 447 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage Up to and Including 1100V | Insulation Resistance Test | IS 1554 (Part-I) |
| 448 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage Up to and Including 1100V | Loss of Mass of insulation and sheath | IS 1554 (Part-I) |
| 449 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage Up to and Including 1100V | Mass of Zinc Coating | IS 1554 (Part-I) |
| 450 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage Up to and Including 1100V | Resistance, Conductance of Armor | IS 1554 (Part-I) |
| 451 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage Up to and Including 1100V | Shrinkage test of insulation and sheath | IS 1554 (Part-I) |
| 452 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage Up to and Including 1100V | Tensile strength and Elongation at break for armor | IS 1554 (Part-I) |
| 453 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage Up to and Including 1100V | Tensile strength and elongation at break of insulation and sheath | IS 1554 (Part-I) |
| 454 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage Up to and Including 1100V | Tensile Test (For Aluminum) | IS 1554 (Part-I) |
| 455 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage Up to and Including 1100V | Thermal stability test of insulation and sheath | IS 1554 (Part-I) |

# SCOPE OF ACCREDITATION

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|---|---|---|---|
| **Laboratory Name :** | BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA | | |
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|---|---|---|---|---|
| 456 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage Up to and Including 1100V | Thermal stability test of insulation and sheath | IS 1554 (Part-I) |
| 457 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage Up to and Including 1100V | Thickness of Insulation and Sheath | IS 1554 (Part-I) |
| 458 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage Up to and Including 1100V | Torsion (For Round Wire only) | IS 1554 (Part-I) |
| 459 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage Up to and Including 1100V | Uniformity of Zinc Coating | IS 1554 (Part-I) |
| 460 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage Up to and Including 1100V | Winding Test for Galvanized Steel Strips for Armoring | IS 1554 (Part-I) |
| 461 | ELECTRICAL- CABLES & WIRES | Specification for PVC Insulated (Heavy Duty) electric Cables. For Working Voltage Up to and Including 1100V | Wrapping Test (For Aluminum) | IS 1554 (Part-I) |
| 462 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Aluminum conductor for overhead transmission purposes, Aluminum Stranded Conductors | Breaking load of Individual wires | IS 398 (Part 1) |
| 463 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Aluminum conductor for overhead transmission purposes, Aluminum Stranded Conductors | Diameter of Aluminum wires | IS 398 (Part 1) |
| 464 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Aluminum conductor for overhead transmission purposes, Aluminum Stranded Conductors | Freedom from defects | IS 398(Part 1) |
| 465 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Aluminum conductor for overhead transmission purposes, Aluminum Stranded Conductors | Mass | IS 398 (Part 1) |
| 466 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Aluminum conductor for overhead transmission purposes, Aluminum Stranded Conductors | Resistance test of Aluminum wires | IS 398 (Part 1) |
| 467 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Aluminum conductor for overhead transmission purposes, Aluminum Stranded Conductors | Wrapping test for Aluminum wires | IS 398 (Part 1) |
| 468 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Aluminum Conductors – Galvanized Steel – Reinforced for extra high voltage (400 kV & above) | Breaking Load test | IS 398 (Part 5) |
| 469 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Aluminum Conductors – Galvanized Steel – Reinforced for extra high voltage (400 kV & above) | Diameter of individual Aluminum & Steel wires | IS 398 (Part 5) |
| 470 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Aluminum Conductors – Galvanized Steel – Reinforced for extra high voltage (400 kV & above) | Ductility test (Torsion test and Elongation test) | IS 398 (Part 5) |

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| **Laboratory Name :** | BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA | | |
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|---|---|---|---|---|
| 471 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Aluminum Conductors – Galvanized Steel – Reinforced for extra high voltage (400 kV & above) | Galvanizing Test on steel wire (Mass of Zinc Coating) | IS 398 (Part 5) |
| 472 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Aluminum Conductors – Galvanized Steel – Reinforced for extra high voltage (400 kV & above) | Galvanizing Test on steel wire (Uniformity of Zinc Coating) | IS 398 (Part 5) |
| 473 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Aluminum Conductors – Galvanized Steel – Reinforced for extra high voltage (400 kV & above) | Lay ratio of each layer /Direction of Lay | IS 398 (Part 5) |
| 474 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Aluminum Conductors – Galvanized Steel – Reinforced for extra high voltage (400 kV & above) | Resistance test of Aluminum wires | IS 398 (Part 5) |
| 475 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Aluminum Conductors – Galvanized Steel – Reinforced for extra high voltage (400 kV & above) | Surface Condition Test | IS 398 (Part 5) |
| 476 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Aluminum Conductors – Galvanized Steel – Reinforced for extra high voltage (400 kV & above) | Visual Examination | IS 398 (Part 5) |
| 477 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Aluminum Conductors – Galvanized Steel – Reinforced for extra high voltage (400 kV & above) | Wrapping test for Aluminum /Steel wires | IS 398 (Part 5) |
| 478 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Aluminum Conductors for overhead transmission purpose (Aluminum Conductors, Aluminized Steel Reinforced) | Breaking load of Individual wires | IS 398 (Part 3) |
| 479 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Aluminum Conductors for overhead transmission purpose (Aluminum Conductors, Aluminized Steel Reinforced) | Diameter of Aluminum, Steel wires & Stranded Conductor | IS 398 (Part 3) |
| 480 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Aluminum Conductors for overhead transmission purpose (Aluminum Conductors, Aluminized Steel Reinforced) | Ductility test (Torsion test and Elongation test | IS 398 (Part 3) |
| 481 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Aluminum Conductors for overhead transmission purpose (Aluminum Conductors, Aluminized Steel Reinforced) | Freedom from defects | IS 398 (Part 3) |
| 482 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Aluminum Conductors for overhead transmission purpose (Aluminum Conductors, Aluminized Steel Reinforced) | Lay ratio/Direction of Lay | IS 398 (Part 3) |
| 483 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Aluminum Conductors for overhead transmission purpose (Aluminum Conductors, Aluminized Steel Reinforced) | Resistance test of Aluminum wires | IS 398 (Part 3) |
| 484 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Aluminum Conductors for overhead transmission purpose (Aluminum Conductors, Aluminized Steel Reinforced) | Wrapping test for Aluminum/Aluminized Steel Wires | IS 398 (Part 3) |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-7253 | **Page No** | 30 of 132 |
| **Validity** | 05/07/2021 to 04/07/2023 | **Last Amended on** | 05/05/2022 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 485 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Aluminum Conductors for overhead transmission purpose (Aluminum Alloy Stranded Conductors) [Al. – Magnesium –Silicon Type] | Breaking load of Individual wiresand Stranded Conductor | IS 398 (Part 4) |
| 486 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Aluminum Conductors for overhead transmission purpose (Aluminum Alloy Stranded Conductors) [Al. – Magnesium –Silicon Type] | Diameter of Aluminum wires & Stranded Conductor | IS 398 (Part 4) |
| 487 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Aluminum Conductors for overhead transmission purpose (Aluminum Alloy Stranded Conductors) [Al. – Magnesium –Silicon Type] | Elongation of Individual wires | IS 398 (Part 4) |
| 488 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Aluminum Conductors for overhead transmission purpose (Aluminum Alloy Stranded Conductors) [Al. – Magnesium –Silicon Type] | Freedom from defects | IS 398 (Part 4) |
| 489 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Aluminum Conductors for overhead transmission purpose (Aluminum Alloy Stranded Conductors) [Al. – Magnesium –Silicon Type] | Lay ratio/Direction of Lay | IS 398 (Part 4) |
| 490 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Aluminum Conductors for overhead transmission purpose (Aluminum Alloy Stranded Conductors) [Al. – Magnesium –Silicon Type] | Resistance test of Aluminum wires and Stranded Conductor | IS 398 (Part 4) |
| 491 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Aluminum Conductors for Overhead Transmission Purposes - Aluminum Conductors, galvanized steel-reinforced | Breaking load of Individual wires | IS 398 (Part 2) |
| 492 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Aluminum Conductors for Overhead Transmission Purposes - Aluminum Conductors, galvanized steel-reinforced | Diameter of Aluminum & Steel wires | IS 398 (Part 2) |
| 493 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Aluminum Conductors for Overhead Transmission Purposes - Aluminum Conductors, galvanized steel-reinforced | Ductility test (Torsion test and Elongation test) | IS 398 (Part 2) |
| 494 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Aluminum Conductors for Overhead Transmission Purposes - Aluminum Conductors, galvanized steel-reinforced | Galvanizing Test on steel wire (Mass of Zinc Coating) | IS 398 (Part 2) |
| 495 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Aluminum Conductors for Overhead Transmission Purposes - Aluminum Conductors, galvanized steel-reinforced | Lay ratio/Direction of Lay | IS 398 (Part 2) |
| 496 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Aluminum Conductors for Overhead Transmission Purposes - Aluminum Conductors, galvanized steel-reinforced | Resistance test of Aluminum wires | IS 398 (Part 2) |
| 497 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Aluminum Conductors for Overhead Transmission Purposes - Aluminum Conductors, galvanized steel-reinforced | Stress Strain Test | IS 398 (Part 2) |
| 498 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Aluminum Conductors for Overhead Transmission Purposes - Aluminum Conductors, galvanized steel-reinforced | Surface Condition Test | IS 398 (Part 2) |

# SCOPE OF ACCREDITATION

**Laboratory Name :** BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA

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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 |
|---|---|---|---|---|
| 499 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Aluminum Conductors for Overhead Transmission Purposes - Aluminum Conductors, galvanized steel-reinforced | Ultimate Breaking Load on stranded conductor | IS 398 (Part 2) |
| 500 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Aluminum Conductors for Overhead Transmission Purposes - Aluminum Conductors, galvanized steel-reinforced | Wrapping test for Aluminum wires | IS 398 (Part 2) |
| 501 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Conductors for overhead lines Round Wires concentric lay stranded conductor | Adhesion of Zinc Coating | BS EN 50182 |
| 502 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Conductors for overhead lines Round Wires concentric lay stranded conductor | Surface Condition Test | BS EN 50182 |
| 503 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Conductors for overhead lines Round Wires concentric lay stranded conductors | Cladding Thickness/Uniformity | BS EN 50182 |
| 504 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Conductors for overhead lines Round Wires concentric lay stranded conductors | Diameter of conductor/Aluminum wires/Zinc coated Steel wires and Aluminum Clad steel wires | BS EN 50182 |
| 505 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Conductors for overhead lines Round Wires concentric lay stranded conductors | Elongation of Aluminum wires | BS EN 50182 |
| 506 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Conductors for overhead lines Round Wires concentric lay stranded conductors | Galvanizing Test on steel wire (Mass of Zinc Coating) | BS EN 50182 |
| 507 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Conductors for overhead lines Round Wires concentric lay stranded conductors | Galvanizing Test on steel wire (Uniformity of Zinc Coating) | BS EN 50182 |
| 508 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Conductors for overhead lines Round Wires concentric lay stranded conductors | Lay ratio of each layer /Direction of Lay | BS EN 50182 |
| 509 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Conductors for overhead lines Round Wires concentric lay stranded conductors | Mass per Unit Length | BS EN 50182 |
| 510 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Conductors for overhead lines Round Wires concentric lay stranded conductors | Resistivity of Aluminum wires/ Aluminum Clad Steel wires | BS EN 50182 |
| 511 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Conductors for overhead lines Round Wires concentric lay stranded conductors | Stringing test | BS EN 50182 |

# SCOPE OF ACCREDITATION

**Laboratory Name :** BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA

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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 |
|---|---|---|---|---|
| 512 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Conductors for overhead lines Round Wires concentric lay stranded conductors | Tensile breaking strength of conductor | BS EN 50182 |
| 513 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Conductors for overhead lines Round Wires concentric lay stranded conductors | Tensile strength of Aluminum wires/Zinc coated Steel wires and Aluminum Clad steel wires | BS EN 50182 |
| 514 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Conductors for overhead lines Round Wires concentric lay stranded conductors | Welding | BS EN 50182 |
| 515 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Conductors for overhead lines Round Wires concentric lay stranded conductors | Wrapping test for Aluminum /Steel wires | BS EN 50182 |
| 516 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Conductors for overhead lines Round Wires concentric lay stranded conductors | Ductility test (Torsion test and Elongation test) of Zinc coated Steel wires and Aluminum Clad steel wires | BS EN 50182 |
| 517 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Copper rods and bars for Electrical Purposes | Dimension | IS 613 |
| 518 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Copper rods and bars for Electrical Purposes | Electrical Resistivity and Conductivity | IS 613 |
| 519 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Copper rods and bars for Electrical Purposes | Freedom of Defects | IS 613 |
| 520 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Copper Strip for Electrical Purposes | Dimension | IS 1897 |
| 521 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Copper Strip for Electrical Purposes | Electrical Resistivity and Conductivity | IS 1897 |
| 522 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Copper Strip for Electrical Purposes | Freedom of Defects | IS 1897 |
| 523 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Copper Strip for Electrical Purposes | Tensile and Elongation at break | IS 1897 |
| 524 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Wrought Aluminum and Aluminum Alloy bars, Rods, Tubes, Sections, Plates and Sheets for Electrical applications | Dimension | IS 5082 |

# SCOPE OF ACCREDITATION

**Laboratory Name :** BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA

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|---|---|---|---|---|
| 525 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Wrought Aluminum and Aluminum Alloy bars, Rods, Tubes, Sections, Plates and Sheets for Electrical applications | Electrical Resistivity and Conductivity | IS 5082 |
| 526 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Wrought Aluminum and Aluminum Alloy bars, Rods, Tubes, Sections, Plates and Sheets for Electrical applications | Freedom of Defects | IS 5082 |
| 527 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Wrought Aluminum and Aluminum Alloy bars, Rods, Tubes, Sections, Plates and Sheets for Electrical applications | Tensile and Elongation at break | IS 5082 |
| 528 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Screws and connections | EN 60335(Part-1) |
| 529 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Insect Killer | Electrical Insulation and Leakage Current at Operating Temp. | IS 302 (Part-2,Sec-59) |
| 530 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for Heating Liquids | Abnormal Operation | IS 302 (Part-2,Sec-15) |
| 531 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for Heating Liquids | Clearance, Creepage Distances and Solid Insulation | IS 302 (Part-2,Sec-15) |
| 532 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for Heating Liquids | Construction | IS 302 (Part-2,Sec-15) |
| 533 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for Heating Liquids | Heating | IS 302 (Part-2,Sec-15) |
| 534 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for Heating Liquids | Internal Wiring | IS 302 (Part-2,Sec-15) |
| 535 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for Heating Liquids | Leakage Current and Electric strength | IS 302 (Part-2,Sec-15) |
| 536 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for Heating Liquids | Leakage Current and Electric strength at Operating Temp. | IS 302 (Part-2,Sec-15) |
| 537 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for Heating Liquids | Marking and Instruction | IS 302 (Part-2,Sec-15) |
| 538 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for Heating Liquids | Mechanical strength | IS 302 (Part-2,Sec-15) |
| 539 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for Heating Liquids | Moisture Resistance | IS 302 (Part-2,Sec-15) |
| 540 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for Heating Liquids | Overload Protection of Transformers and Associated Circuits | IS 302 (Part-2,Sec-15) |
| 541 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for Heating Liquids | Power Input and Current | IS 302 (Part-2,Sec-15) |

# SCOPE OF ACCREDITATION

**Laboratory Name :** BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA

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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 |
|---|---|---|---|---|
| 542 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for Heating Liquids | Protection against Access to live parts | IS 302 (Part-2,Sec-15) |
| 543 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for Heating Liquids | Provision for Earthing | IS 302 (Part-2,Sec-15) |
| 544 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for Heating Liquids | Resistance to heat and Fire | IS 302 (Part-2,Sec-15) |
| 545 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for Heating Liquids | Resistance to Rusting | IS 302 (Part-2,Sec-15) |
| 546 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for Heating Liquids | Stability test & Mechanical hazards | IS 302 (Part-2,Sec-15) |
| 547 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for Heating Liquids | Starting of Motor operated Appliances | IS 302 (Part-2,Sec-15) |
| 548 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for Heating Liquids | Supply connection and external flexible Cables &cords | IS 302 (Part-2,Sec-15) |
| 549 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for Heating Liquids | Terminals for External conductors | IS 302 (Part-2,Sec-15) |
| 550 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for skin or Hair care | Abnormal Operation | IS 302 (Part-2,Sec-23) |
| 551 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for skin or Hair care | Clearance, Creepage Distances and Solid Insulation | IS 302 (Part-2,Sec-23) |
| 552 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for skin or Hair care | Construction | IS 302 (Part-2,Sec-23) |
| 553 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for skin or Hair care | Heating | IS 302 (Part-2,Sec-23 |
| 554 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for skin or Hair care | Internal Wiring | IS 302 (Part-2,Sec-23) |
| 555 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for skin or Hair care | Leakage Current and Electric strength | IS 302 (Part-2,Sec-23) |
| 556 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for skin or Hair care | Leakage Current and Electric strength at Operating Temp. | IS 302 (Part-2,Sec-23) |
| 557 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for skin or Hair care | Marking and Instruction | IS 302 (Part-2,Sec-23) |
| 558 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for skin or Hair care | Mechanical strength | IS 302 (Part-2,Sec-23) |
| 559 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for skin or Hair care | Moisture Resistance | IS 302 (Part-2,Sec-23) |

# SCOPE OF ACCREDITATION

**Laboratory Name :** BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA

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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 |
|---|---|---|---|---|
| 560 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for skin or Hair care | Overload Protection of Transformers and Associated Circuits | IS 302 (Part-2,Sec-23) |
| 561 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for skin or Hair care | Power Input and Current | IS 302 (Part-2,Sec-23) |
| 562 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for skin or Hair care | Protection against Access to live parts | IS 302 (Part-2,Sec-23) |
| 563 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for skin or Hair care | Provision for Earthing | IS 302 (Part-2,Sec-23) |
| 564 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for skin or Hair care | Resistance to heat and Fire | IS 302 (Part-2,Sec-23) |
| 565 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for skin or Hair care | Resistance to Rusting | IS 302 (Part-2,Sec-23) |
| 566 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for skin or Hair care | Screws and connection | IS 302 (Part-2,Sec-23) |
| 567 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for skin or Hair care | Stability test & Mechanical hazards | IS 302 (Part-2,Sec-23) |
| 568 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for skin or Hair care | Supply connection and external flexible cords | IS 302 (Part-2,Sec-23) |
| 569 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for skin or Hair care | Terminals for External conductors | IS 302 (Part-2,Sec-23) |
| 570 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Appliances for skin or Hair care | Transient Over Voltages | IS 302 (Part-2,Sec-23) |
| 571 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Clocks | Abnormal Operation | IS 302 (Part-2,Sec-26) |
| 572 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Clocks | Clearance, Creepage Distances and Solid Insulation | IS 302 (Part-2,Sec-26) |
| 573 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Clocks | Construction | IS 302 (Part-2,Sec-26) |
| 574 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Clocks | Heating | IS 302 (Part-2,Sec-26) |
| 575 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Clocks | Internal Wiring | IS 302 (Part-2,Sec-26) |
| 576 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Clocks | Leakage Current and Electric strength | IS 302 (Part-2,Sec-26) |
| 577 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Clocks | Leakage Current and Electric strength at Operating Temp. | IS 302 (Part-2,Sec-26) |

# SCOPE OF ACCREDITATION

**Laboratory Name :** BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA

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**Validity** 05/07/2021 to 04/07/2023 **Last Amended on** 05/05/2022

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 578 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Clocks | Marking and Instruction | IS 302 (Part-2,Sec-26) |
| 579 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Clocks | Mechanical strength | IS 302 (Part-2,Sec-26) |
| 580 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Clocks | Moisture Resistance | IS 302 (Part-2,Sec-26) |
| 581 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Clocks | Overload Protection of Transformers and Associated Circuits | IS 302 (Part-2,Sec-26) |
| 582 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Clocks | Power Input and Current | IS 302 (Part-2,Sec-26) |
| 583 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Clocks | Protection against Access to live parts | IS 302 (Part-2,Sec-26) |
| 584 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Clocks | Provision for Earthing | IS 302 (Part-2,Sec-26) |
| 585 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Clocks | Resistance to heat and Fire | IS 302 (Part-2,Sec-26) |
| 586 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Clocks | Resistance to Rusting | IS 302 (Part-2,Sec-26) |
| 587 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Clocks | Screws and connection | IS 302 (Part-2,Sec-26) |
| 588 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Clocks | Stability test & Mechanical hazards | IS 302 (Part-2,Sec-26) |
| 589 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Clocks | Supply connection and external flexible cords | IS 302 (Part-2,Sec-26) |
| 590 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Clocks | Terminals for External conductors | IS 302 (Part-2,Sec-26) |
| 591 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Clocks | Transient Over Voltages | IS 302 (Part-2,Sec-26) |
| 592 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Commercial Dispensing Appliances and vending Machines | Abnormal Operation | IS 302 (Part-2,Sec-75) |
| 593 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Commercial Dispensing Appliances and vending Machines | Clearances, Creepage Distancesand Solid Insulation | IS 302 (Part-2,Sec-75) |
| 594 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Commercial Dispensing Appliances and vending Machines | Construction | IS 302 (Part-2,Sec-75) |
| 595 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Commercial Dispensing Appliances and vending Machines | Heating Test | IS 302 (Part-2,Sec-75) |

# SCOPE OF ACCREDITATION

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|---|---|---|---|
| **Laboratory Name :** | BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-7253 | **Page No** | 37 of 132 |
| **Validity** | 05/07/2021 to 04/07/2023 | **Last Amended on** | 05/05/2022 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 596 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Commercial Dispensing Appliances and vending Machines | Internal Wiring | IS 302 (Part-2,Sec-75) |
| 597 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Commercial Dispensing Appliances and vending Machines | Leakage Current and Electric Strength | IS 302 (Part-2,Sec-75) |
| 598 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Commercial Dispensing Appliances and vending Machines | Leakage Current and Electric Strength at Operating Temp. | IS 302 (Part-2,Sec-75) |
| 599 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Commercial Dispensing Appliances and vending Machines | Marking and Instruction | IS 302 (Part-2,Sec-75) |
| 600 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Commercial Dispensing Appliances and vending Machines | Mechanical strength | IS 302 (Part-2,Sec-75) |
| 601 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Commercial Dispensing Appliances and vending Machines | Moisture Resistance | IS 302 (Part-2,Sec-75) |
| 602 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Commercial Dispensing Appliances and vending Machines | Overload Protection of Transformers and Associated Circuits | IS 302 (Part-2,Sec-75) |
| 603 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Commercial Dispensing Appliances and vending Machines | Power Input and Current | IS 302 (Part-2,Sec-75) |
| 604 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Commercial Dispensing Appliances and vending Machines | Protection against Access to live parts | IS 302 (Part-2,Sec-75) |
| 605 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Commercial Dispensing Appliances and vending Machines | Provision for Earthing | IS 302 (Part-2,Sec-75) |
| 606 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Commercial Dispensing Appliances and vending Machines | Resistance to heat Fire | IS 302 (Part-2,Sec-75) |
| 607 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Commercial Dispensing Appliances and vending Machines | Resistance to Rusting | IS 302 (Part-2,Sec-75) |
| 608 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Commercial Dispensing Appliances and vending Machines | Screws and connection | IS 302 (Part-2,Sec-75) |
| 609 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Commercial Dispensing Appliances and vending Machines | Stability test & Mechanical hazards | IS 302 (Part-2,Sec-75) |
| 610 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Commercial Dispensing Appliances and vending Machines | Supply connection and external flexible cords | IS 302 (Part-2,Sec-75) |
| 611 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Commercial Dispensing Appliances and vending Machines | Terminals for External conductors | IS 302 (Part-2,Sec-75) |
| 612 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Commercial Dispensing Appliances and vending Machines | Transient Over Voltages | IS 302 (Part-2,Sec-75) |
| 613 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Fence Energizer | Abnormal Operation | IS 302 (Part-2,Sec-76) |

# SCOPE OF ACCREDITATION

**Laboratory Name :** BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA

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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 |
|---|---|---|---|---|
| 614 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Fence Energizer | Construction | IS 302 (Part-2,Sec-76) |
| 615 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Fence Energizer | Creepage Distancesand Clearances | IS 302 (Part-2,Sec-76) |
| 616 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Fence Energizer | Electrical Insulation and Leakage Current at Operating Temp. | IS 302 (Part-2,Sec-76) |
| 617 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Fence Energizer | Endurance Test | IS 302 (Part-2,Sec-76) |
| 618 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Fence Energizer | Input | IS 302 (Part-2,Sec-76) |
| 619 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Fence Energizer | Insulation Resistance and Electric Strength (After Humidity Treatment) | IS 302 (Part-2,Sec-76) |
| 620 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Fence Energizer | Internal Wiring | IS 302 (Part-2,Sec-76) |
| 621 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Fence Energizer | Marking and Instructions | IS 302 (Part-2,Sec-76) |
| 622 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Fence Energizer | Mechanical strength | IS 302 (Part-2,Sec-76) |
| 623 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Fence Energizer | Moisture Resistance | IS 302 (Part-2,Sec-76) |
| 624 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Fence Energizer | Protection against Electric shock | IS 302 (Part-2,Sec-76) |
| 625 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Fence Energizer | Resistance to heat Fire and Tracking | IS 302 (Part-2,Sec-76) |
| 626 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Fence Energizer | Resistance to Rusting | IS 302 (Part-2,Sec-76) |
| 627 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Fence Energizer | Screws and connection | IS 302 (Part-2,Sec-76) |
| 628 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Fence Energizer | Stability test & Mechanical hazards | IS 302 (Part-2,Sec-76) |
| 629 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Fence Energizer | Supply connection and external flexible cable and cords | IS 302 (Part-2,Sec-76) |
| 630 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Fence Energizer | Temperature Rise Test | IS 302 (Part-2,Sec-76) |
| 631 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Fence Energizer | Terminals for External conductors | IS 302 (Part-2,Sec-76) |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA | | |
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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 |
|---|---|---|---|---|
| 632 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Fence Energizer | Transient Over Voltages | IS 302 (Part-2,Sec-76) |
| 633 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Immersion Water Heaters | Abnormal Operation | IS 302 (Part-2,Sec-201) |
| 634 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Immersion Water Heaters | Clearances, Creepage Distances and Solid Insulation | IS 302 (Part-2,Sec-201) |
| 635 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Immersion Water Heaters | Construction | IS 302 (Part-2,Sec-201) |
| 636 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Immersion Water Heaters | Heating Test | IS 302 (Part-2,Sec-201) |
| 637 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Immersion Water Heaters | Internal Wiring | IS 302 (Part-2,Sec-201) |
| 638 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Immersion Water Heaters | Leakage Current and Electric Strength | IS 302 (Part-2,Sec-201) |
| 639 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Immersion Water Heaters | Leakage Current and Electric Strength at Operating Temp. | IS 302 (Part-2,Sec-201) |
| 640 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Immersion Water Heaters | Marking and Instruction | IS 302 (Part-2,Sec-201) |
| 641 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Immersion Water Heaters | Mechanical strength | IS 302 (Part-2,Sec-201) |
| 642 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Immersion Water Heaters | Moisture Resistance | IS 302 (Part-2,Sec-201) |
| 643 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Immersion Water Heaters | Overload Protection of Transformers and Associated Circuits | IS 302 (Part-2,Sec-201) |
| 644 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Immersion Water Heaters | Power Input and Current | IS 302 (Part-2,Sec-201) |
| 645 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Immersion Water Heaters | Protection against Access to live parts | IS 302 (Part-2,Sec-201) |
| 646 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Immersion Water Heaters | Provision for Earthing | IS 302 (Part-2,Sec-201) |
| 647 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Immersion Water Heaters | Resistance to heat Fire and tracking | IS 302 (Part-2,Sec-201) |
| 648 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Immersion Water Heaters | Resistance to Rusting | IS 302 (Part-2,Sec-201) |
| 649 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Immersion Water Heaters | Screws and connection | IS 302 (Part-2,Sec-201) |

# SCOPE OF ACCREDITATION

**Laboratory Name :** BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA

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|---|---|---|---|---|
| 650 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Immersion Water Heaters | Stability test & Mechanical hazards | IS 302 (Part-2,Sec-201) |
| 651 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Immersion Water Heaters | Supply connection and external flexible cords | IS 302 (Part-2,Sec-201) |
| 652 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Immersion Water Heaters | Terminals for External conductors | IS 302 (Part-2,Sec-201) |
| 653 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Immersion Water Heaters | Transient Over Voltages | IS 302 (Part-2,Sec-201) |
| 654 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Kitchen Machines | Abnormal Operation | IS 302 (Part-2,Sec-14) |
| 655 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Kitchen Machines | Construction | IS 302 (Part-2,Sec-14) |
| 656 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Kitchen Machines | Creepage Distances, Clearance | IS 302 (Part-2,Sec-14) |
| 657 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Kitchen Machines | Heating | IS 302 (Part-2,Sec-14) |
| 658 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Kitchen Machines | Insulation Resistance and Electric Strength (After Humidity Treatment) | IS 302 (Part-2,Sec-14) |
| 659 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Kitchen Machines | Internal Wiring | IS 302 (Part-2,Sec-14) |
| 660 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Kitchen Machines | Leakage Current and Electric strength at Operating Temp. | IS 302 (Part-2,Sec-14) |
| 661 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Kitchen Machines | Marking and Instruction | IS 302 (Part-2,Sec-14) |
| 662 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Kitchen Machines | Mechanical strength | IS 302 (Part-2,Sec-14) |
| 663 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Kitchen Machines | Moisture Resistance | IS 302 (Part-2,Sec-14) |
| 664 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Kitchen Machines | Overload Protection | IS 302 (Part-2,Sec-14) |
| 665 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Kitchen Machines | Power Input and Current | IS 302 (Part-2,Sec-14) |
| 666 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Kitchen Machines | Protection against Access to Live Parts | IS 302 (Part-2,Sec-14) |
| 667 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Kitchen Machines | Provision for Earthing | IS 302 (Part-2,Sec-14) |

# SCOPE OF ACCREDITATION

**Laboratory Name :** BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA

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

**Certificate Number** TC-7253 **Page No** 41 of 132

**Validity** 05/07/2021 to 04/07/2023 **Last Amended on** 05/05/2022

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 668 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Kitchen Machines | Resistance to heat Fire and Tracking | IS 302 (Part-2,Sec-14) |
| 669 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Kitchen Machines | Resistance to Rusting | IS 302 (Part-2,Sec-14) |
| 670 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Kitchen Machines | Screws and connection | IS 302 (Part-2,Sec-14) |
| 671 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Kitchen Machines | Stability test & Mechanical hazards | IS 302 (Part-2,Sec-14) |
| 672 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Kitchen Machines | Supply connection and external flexible Cables &cords | IS 302 (Part-2,Sec-14) |
| 673 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Kitchen Machines | Terminals for External conductors | IS 302 (Part-2,Sec-14) |
| 674 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Steam Cookers | Abnormal Operation | IS 302 (Part-2,Sec-46) |
| 675 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Steam Cookers | Clearance, Creepage Distances and Solid Insulation | IS 302 (Part-2,Sec-46) |
| 676 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Steam Cookers | Construction | IS 302 (Part-2,Sec-46) |
| 677 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Steam Cookers | Internal Wiring | IS 302 (Part-2,Sec-46) |
| 678 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Steam Cookers | Leakage Current and Electric strength | IS 302 (Part-2,Sec-46) |
| 679 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Steam Cookers | Leakage Current and Electric strength at Operating Temp. | IS 302 (Part-2,Sec-46) |
| 680 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Steam Cookers | Marking and Instruction | IS 302 (Part-2,Sec-46) |
| 681 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Steam Cookers | Mechanical strength | IS 302 (Part-2,Sec-46) |
| 682 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Steam Cookers | Moisture Resistance | IS 302 (Part-2,Sec-46) |
| 683 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Steam Cookers | Operation Under Overload conditions of Appliances with Heating Elements | IS 302 (Part-2,Sec-46) |
| 684 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Steam Cookers | Overload Protection of Transformers and Associated Circuits | IS 302 (Part-2,Sec-46) |
| 685 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Steam Cookers | Power Input and Current | IS 302 (Part-2,Sec-46) |

# SCOPE OF ACCREDITATION

**Laboratory Name :** BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA

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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 |
|---|---|---|---|---|
| 686 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Steam Cookers | Protection against Access to live parts | IS 302 (Part-2,Sec-46) |
| 687 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Steam Cookers | Provision for Earthing | IS 302 (Part-2,Sec-46) |
| 688 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Steam Cookers | Resistance to heat and Fire | IS 302 (Part-2,Sec-46) |
| 689 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Steam Cookers | Resistance to Rusting | IS 302 (Part-2,Sec-46) |
| 690 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Steam Cookers | Screws and connection | IS 302 (Part-2,Sec-46) |
| 691 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Steam Cookers | Stability test & Mechanical hazards | IS 302 (Part-2,Sec-46) |
| 692 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Steam Cookers | Starting of Motor Operating Appliances | IS 302 (Part-2,Sec-46) |
| 693 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Steam Cookers | Supply connection and external flexible cords | IS 302 (Part-2,Sec-46) |
| 694 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Steam Cookers | Temperature Rise | IS 302 (Part-2,Sec-46) |
| 695 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Steam Cookers | Terminals for External conductors | IS 302 (Part-2,Sec-46) |
| 696 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Steam Cookers | Transient Over Voltages | IS 302 (Part-2,Sec-46) |
| 697 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Stoves | Abnormal Operation | IS 302(Part-2,Sec-202 |
| 698 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Stoves | Construction | IS 302(Part-2,Sec-202) |
| 699 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Stoves | Creepage Distancesand Clearances | IS 302(Part-2,Sec-202) |
| 700 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Stoves | Electrical insulation and Leakage Current at Operating Temp. | IS 302(Part-2,Sec-202) |
| 701 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Stoves | Heating Test | IS 302(Part-2,Sec-202) |
| 702 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Stoves | Input and Current | IS 302 (Part-2,Sec-202) |
| 703 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Stoves | Insulation Resistance and Electric Strength (After humidity Treatment) | IS 302(Part-2,Sec-202) |

# SCOPE OF ACCREDITATION

**Laboratory Name :** BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA

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|---|---|---|---|---|
| 704 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Stoves | Internal Wiring | IS 302(Part-2,Sec-202) |
| 705 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Stoves | Marking | IS 302 (Part-2,Sec-202) |
| 706 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Stoves | Mechanical strength | IS 302(Part-2,Sec-202) |
| 707 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Stoves | Moisture Resistance | IS 302(Part-2,Sec-202) |
| 708 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Stoves | Operation Under Overload conditions of Appliances with Heating Elements | IS 302(Part-2,Sec-202) |
| 709 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Stoves | Protection against Electric shock | IS 302 (Part-2,Sec-202) |
| 710 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Stoves | Provision for Earthing | IS 302(Part-2,Sec-202) |
| 711 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Stoves | Resistance to heat Fire and tracking | IS 302(Part-2,Sec-202) |
| 712 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Stoves | Resistance to Rusting | IS 302(Part-2,Sec-202) |
| 713 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Stoves | Screws and connection | IS 302(Part-2,Sec-202) |
| 714 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Stoves | Stability test & Mechanical hazards | IS 302(Part-2,Sec-202) |
| 715 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Stoves | Supply connection and external flexible cables and cords | IS 302(Part-2,Sec-202) |
| 716 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electric Stoves | Terminals for External conductors | IS 302(Part-2,Sec-202) |
| 717 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electrical Shavers, Hair Clipper and Similar Appliances | Abnormal Operation | IS 302(Part-2,Sec-8) |
| 718 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electrical Shavers, Hair Clipper and Similar Appliances | Clearance and creepage Distances | IS 302(Part-2,Sec-8) |
| 719 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electrical Shavers, Hair Clipper and Similar Appliances | Construction | IS 302(Part-2,Sec-8) |
| 720 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electrical Shavers, Hair Clipper and Similar Appliances | Electrical Insulation and Leakage Current at Operating Temp. | IS 302(Part-2,Sec-8) |
| 721 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electrical Shavers, Hair Clipper and Similar Appliances | Input and Current | IS 302(Part-2,Sec-8) |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA | | |
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|---|---|---|---|---|
| 722 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electrical Shavers, Hair Clipper and Similar Appliances | Insulation Resistance and Electric Strength(After Humidity Treatment) | IS 302(Part-2,Sec-8) |
| 723 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electrical Shavers, Hair Clipper and Similar Appliances | Internal Wiring | IS 302(Part-2,Sec-8) |
| 724 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electrical Shavers, Hair Clipper and Similar Appliances | Marking | IS 302(Part-2,Sec-8) |
| 725 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electrical Shavers, Hair Clipper and Similar Appliances | Mechanical strength | IS 302(Part-2,Sec-8) |
| 726 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electrical Shavers, Hair Clipper and Similar Appliances | Moisture Resistance | IS 302(Part-2,Sec-8) |
| 727 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electrical Shavers, Hair Clipper and Similar Appliances | Overload Protection | IS 302(Part-2,Sec-8) |
| 728 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electrical Shavers, Hair Clipper and Similar Appliances | Protection against electric shock | IS 302(Part-2,Sec-8) |
| 729 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electrical Shavers, Hair Clipper and Similar Appliances | Provision for Earthing | IS 302(Part-2,Sec-8) |
| 730 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electrical Shavers, Hair Clipper and Similar Appliances | Resistance to heat and Fire | IS 302(Part-2,Sec-8) |
| 731 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electrical Shavers, Hair Clipper and Similar Appliances | Resistance to Rusting | IS 302(Part-2,Sec-8) |
| 732 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electrical Shavers, Hair Clipper and Similar Appliances | Screws and connection | IS 302(Part-2,Sec-8) |
| 733 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electrical Shavers, Hair Clipper and Similar Appliances | Stability test & Mechanical hazards | IS 302(Part-2,Sec-8) |
| 734 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electrical Shavers, Hair Clipper and Similar Appliances | Starting of Motor operated Appliances | IS 302(Part-2,Sec-8) |
| 735 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electrical Shavers, Hair Clipper and Similar Appliances | Supply connection and external flexible Cables & cords | IS 302(Part-2,Sec-8) |
| 736 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electrical Shavers, Hair Clipper and Similar Appliances | Temperature Rise | IS 302(Part-2,Sec-8) |
| 737 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Electrical Shavers, Hair Clipper and Similar Appliances | Terminals for External conductors | IS 302(Part-2,Sec-8) |
| 738 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Insect Killer | Abnormal Operation | IS 302 (Part-2,Sec-59) |
| 739 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Insect Killer | Construction | IS 302 (Part-2,Sec-59) |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-7253 | **Page No** | 45 of 132 |
| **Validity** | 05/07/2021 to 04/07/2023 | **Last Amended on** | 05/05/2022 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 740 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Insect Killer | Creepage Distances Clearances and distance through Insulation | IS 302 (Part-2,Sec-59) |
| 741 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Insect Killer | Insulation Resistance and Electric strength (After Humidity treatment) | IS 302 (Part-2,Sec-59) |
| 742 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Insect Killer | Internal Wiring | IS 302 (Part-2,Sec-59) |
| 743 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Insect Killer | Marking | IS 302 (Part-2,Sec-59) |
| 744 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Insect Killer | Mechanical strength | IS 302 (Part-2,Sec-59) |
| 745 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Insect Killer | Moisture Resistance | IS 302 (Part-2,Sec-59) |
| 746 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Insect Killer | Operation Under Load Conditions of appliances with heating elements | IS 302 (Part-2,Sec-59) |
| 747 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Insect Killer | Overload Protection | IS 302 (Part-2,Sec-59) |
| 748 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Insect Killer | Power Input and Current | IS 302 (Part-2,Sec-59) |
| 749 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Insect Killer | Protection against Access to live parts | IS 302 (Part-2,Sec-59) |
| 750 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Insect Killer | Provision for Earthing | IS 302 (Part-2,Sec-59) |
| 751 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Insect Killer | Resistance to heat Fire and Tracking | IS 302 (Part-2,Sec-59) |
| 752 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Insect Killer | Resistance to Rusting | IS 302 (Part-2,Sec-59) |
| 753 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Insect Killer | Screws and connection | IS 302 (Part-2,Sec-59) |
| 754 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Insect Killer | Stability test & Mechanical hazards | IS 302 (Part-2,Sec-59) |
| 755 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Insect Killer | Starting of Motor operated Appliances | IS 302 (Part-2,Sec-59) |
| 756 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Insect Killer | Supply connection and external flexible cables and cords | IS 302 (Part-2,Sec-59) |

# SCOPE OF ACCREDITATION

**Laboratory Name :** BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA

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

**Certificate Number** TC-7253 **Page No** 46 of 132

**Validity** 05/07/2021 to 04/07/2023 **Last Amended on** 05/05/2022

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 757 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Insect Killer | Temperature Rise Test | IS 302 (Part-2,Sec-59) |
| 758 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Insect Killer | Terminals for External conductors | IS 302 (Part-2,Sec-59) |
| 759 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Low Speed Food Grinding Machines | Abnormal Operation | IS 302(Part-2,Sec-209) |
| 760 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Low Speed Food Grinding Machines | Construction | IS 302(Part-2,Sec-209) |
| 761 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Low Speed Food Grinding Machines | Creepage Distances Clearances and distance through Insulation | IS 302(Part-2,Sec-209) |
| 762 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Low Speed Food Grinding Machines | Electrical Insulation and Leakage Current at Operating Temp. | IS 302(Part-2,Sec-209) |
| 763 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Low Speed Food Grinding Machines | Input and Current | IS 302(Part-2,Sec-209) |
| 764 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Low Speed Food Grinding Machines | Insulation Resistance and Electric strength (After Humidity treatment) | IS 302(Part-2,Sec-209) |
| 765 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Low Speed Food Grinding Machines | Internal Wiring | IS 302(Part-2,Sec-209) |
| 766 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Low Speed Food Grinding Machines | Marking | IS 302(Part-2,Sec-209) |
| 767 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Low Speed Food Grinding Machines | Mechanical strength | IS 302(Part-2,Sec-209) |
| 768 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Low Speed Food Grinding Machines | Moisture Resistance | IS 302(Part-2,Sec-209) |
| 769 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Low Speed Food Grinding Machines | Operation Under Load Conditions of appliances with heating elements | IS 302(Part-2,Sec-209) |
| 770 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Low Speed Food Grinding Machines | Overload Protection | IS 302(Part-2,Sec-209) |
| 771 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Low Speed Food Grinding Machines | Protection against Electric Shock | IS 302(Part-2,Sec-209) |
| 772 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Low Speed Food Grinding Machines | Provision for Earthing | IS 302(Part-2,Sec-209) |
| 773 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Low Speed Food Grinding Machines | Resistance to heat Fire and Tracking | IS 302(Part-2,Sec-209) |

# SCOPE OF ACCREDITATION

**Laboratory Name :** BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA

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

**Certificate Number** TC-7253 **Page No** 47 of 132

**Validity** 05/07/2021 to 04/07/2023 **Last Amended on** 05/05/2022

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 774 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Low Speed Food Grinding Machines | Resistance to Rusting | IS 302(Part-2,Sec-209) |
| 775 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Low Speed Food Grinding Machines | Screws and connection | IS 302(Part-2,Sec-209) |
| 776 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Low Speed Food Grinding Machines | Stability test & Mechanical hazards | IS 302(Part-2,Sec-209) |
| 777 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Low Speed Food Grinding Machines | Starting of Motor operated Appliances | IS 302(Part-2,Sec-209) |
| 778 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Low Speed Food Grinding Machines | Supply connection and external flexible cables and cords | IS 302(Part-2,Sec-209) |
| 779 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Low Speed Food Grinding Machines | Temperature Rise Test | IS 302(Part-2,Sec-209) |
| 780 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Low Speed Food Grinding Machines | Terminals for External conductors | IS 302(Part-2,Sec-209) |
| 781 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Range Hoods | Abnormal Operation | IS 302 (Part-2,Sec-31) |
| 782 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Range Hoods | Clearance, Creepage Distances and Solid Insulation | IS 302 (Part-2,Sec-31) |
| 783 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Range Hoods | Construction | IS 302 (Part-2,Sec-31) |
| 784 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Range Hoods | Heating | IS 302 (Part-2,Sec-31) |
| 785 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Range Hoods | Internal Wiring | IS 302 (Part-2,Sec-31) |
| 786 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Range Hoods | Leakage Current and Electric strength | IS 302 (Part-2,Sec-31) |
| 787 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Range Hoods | Leakage Current and Electric strength at Operating Temp. | IS 302 (Part-2,Sec-31) |
| 788 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Range Hoods | Marking and Instruction | IS 302 (Part-2,Sec-31) |
| 789 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Range Hoods | Mechanical strength | IS 302 (Part-2,Sec-31) |
| 790 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Range Hoods | Moisture Resistance | IS 302 (Part-2,Sec-31) |
| 791 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Range Hoods | Overload Protection of Transformers and Associated Circuits | IS 302 (Part-2,Sec-31) |

# SCOPE OF ACCREDITATION

**Laboratory Name :** BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA

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

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**Validity** 05/07/2021 to 04/07/2023 **Last Amended on** 05/05/2022

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 792 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Range Hoods | Power Input and Current | IS 302 (Part-2,Sec-31) |
| 793 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Range Hoods | Protection against Access to live parts | IS 302 (Part-2,Sec-31) |
| 794 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Range Hoods | Provision for Earthing | IS 302 (Part-2,Sec-31) |
| 795 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Range Hoods | Resistance to heat and Fire | IS 302 (Part-2,Sec-31) |
| 796 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Range Hoods | Resistance to Rusting | IS 302 (Part-2,Sec-31) |
| 797 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Range Hoods | Screws and connection | IS 302 (Part-2,Sec-31) |
| 798 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Range Hoods | Stability test & Mechanical hazards | IS 302 (Part-2,Sec-31) |
| 799 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Range Hoods | Supply connection and external flexible cords | IS 302 (Part-2,Sec-31) |
| 800 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Range Hoods | Terminals for External conductors | IS 302 (Part-2,Sec-31) |
| 801 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Range Hoods | Transient Over Voltages | IS 302 (Part-2,Sec-31) |
| 802 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Room Heaters | Abnormal Operation | IS 302 (Part-2,Sec-30) |
| 803 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Room Heaters | Clearance, Creepage Distances and Solid Insulation | IS 302 (Part-2,Sec-30) |
| 804 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Room Heaters | Construction | IS 302 (Part-2,Sec-30) |
| 805 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Room Heaters | Heating | IS 302 (Part-2,Sec-30) |
| 806 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Room Heaters | Internal Wiring | IS 302 (Part-2,Sec-30) |
| 807 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Room Heaters | Leakage Current and Electric strength | IS 302 (Part-2,Sec-30) |
| 808 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Room Heaters | Leakage Current and Electric strength at Operating Temp. | IS 302 (Part-2,Sec-30) |
| 809 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Room Heaters | Marking and Instruction | IS 302 (Part-2,Sec-30) |
| 810 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Room Heaters | Mechanical strength | IS 302 (Part-2,Sec-30) |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-7253 | **Page No** | 49 of 132 |
| **Validity** | 05/07/2021 to 04/07/2023 | **Last Amended on** | 05/05/2022 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 811 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Room Heaters | Moisture Resistance | IS 302 (Part-2,Sec-30) |
| 812 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Room Heaters | Overload Protection of Transformers and Associated Circuits | IS 302 (Part-2,Sec-30) |
| 813 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Room Heaters | Power Input and Current | IS 302 (Part-2,Sec-30) |
| 814 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Room Heaters | Protection against Access to live parts | IS 302 (Part-2,Sec-30) |
| 815 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Room Heaters | Provision for Earthing | IS 302 (Part-2,Sec-30) |
| 816 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Room Heaters | Resistance to heat and Fire | IS 302 (Part-2,Sec-30) |
| 817 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Room Heaters | Resistance to Rusting | IS 302 (Part-2,Sec-30) |
| 818 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Room Heaters | Screws and connection | IS 302 (Part-2,Sec-30) |
| 819 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Room Heaters | Stability test & Mechanical hazards | IS 302 (Part-2,Sec-30) |
| 820 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Room Heaters | Supply connection and external flexible cords | IS 302 (Part-2,Sec-30) |
| 821 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Room Heaters | Terminals for External conductors | IS 302 (Part-2,Sec-30) |
| 822 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Room Heaters | Transient Over Voltages | IS 302 (Part-2,Sec-30) |
| 823 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Abnormal Operation | IS 302(Clause No.19) |
| 824 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Abnormal Operation | EN 60335(Part-1) |
| 825 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Abnormal Operation | IEC 60335(Part-1) |
| 826 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Abnormal Operation | IEC 60335(Part-1) |
| 827 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Clearance and creepage Distances | EN 60335(Part-1) |
| 828 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Clearance and creepage Distances | IEC 60335(Part-1) |

# SCOPE OF ACCREDITATION

**Laboratory Name :** BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA

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

**Certificate Number** TC-7253 **Page No** 50 of 132

**Validity** 05/07/2021 to 04/07/2023 **Last Amended on** 05/05/2022

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 829 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Clearance and creepage Distances | IS 302(Clause No.29) |
| 830 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Construction | EN 60335(Part-1) |
| 831 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Construction | IEC 60335(Part-1) |
| 832 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Construction | IS 302(Clause No.22) |
| 833 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Heating/ temperature Rise | EN 60335(Part-1) |
| 834 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Heating/ temperature Rise | IEC 60335(Part-1) |
| 835 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Heating/ temperature Rise | IS 302(Clause No.11) |
| 836 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Input and Current | EN 60335(Part-1) |
| 837 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Input and Current | IEC 60335(Part-1) |
| 838 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Input and Current | IS 302(Clause No.10): |
| 839 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Internal Wiring | EN 60335(Part-1) |
| 840 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Internal Wiring | IEC 60335(Part-1) |
| 841 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Internal Wiring | IS 302(Clause No.23) |
| 842 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Leakage Current and Electric Strength | EN 60335(Part-1): |
| 843 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Leakage Current and Electric Strength | IEC 60335(Part-1) |
| 844 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Leakage Current and Electric Strength | IS 302(Clause No.16) |
| 845 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Leakage Current and Electric Strength at Operating Temp. | EN 60335(Part-1) |
| 846 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Leakage Current and Electric Strength at Operating Temp. | IEC 60335(Part-1) |
| 847 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Leakage Current and Electric Strength at Operating Temp. | IS 302(Clause No.13) |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
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| **Validity** | 05/07/2021 to 04/07/2023 | **Last Amended on** | 05/05/2022 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 848 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Marking and Instruction Durability of Marking | EN 60335(Part-1) |
| 849 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Marking and Instruction Durability of Marking | IS 302 (Clause No.07) |
| 850 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Marking and Instruction Durability of Marking | IEC 60335(Part-1) |
| 851 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Mechanical strength | EN 60335(Part-1) |
| 852 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Mechanical strength | IEC 60335(Part-1) |
| 853 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Mechanical strength | IS 302(Clause No.21) |
| 854 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Moisture Resistance | EN 60335(Part-1) |
| 855 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Moisture Resistance | IEC 60068(Part-2)(Sec-78) |
| 856 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Moisture Resistance | IEC 60335(Part-1) |
| 857 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Moisture Resistance | IEC 60529 |
| 858 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Moisture Resistance | IS 60529 |
| 859 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Moisture Resistance | IS 302(Clause No.15) |
| 860 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Moisture Resistance | IS 9000(Part- 4) |
| 861 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Overload Protection of Transformer and associated Circuit | EN 60335(Part-1) |
| 862 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Overload Protection of Transformer and associated Circuit | IEC 60335(Part-1) |
| 863 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Overload Protection of Transformer and associated Circuit | IS 302(Clause No.17) |
| 864 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Protection against electric shock | EN 60335(Part-1) |
| 865 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Protection against electric shock | IEC 60335(Part-1) |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-7253 | **Page No** | 52 of 132 |
| **Validity** | 05/07/2021 to 04/07/2023 | **Last Amended on** | 05/05/2022 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 866 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Protection against electric shock | IS 302(ClauseNo.8.1.1, 8.1.2, 8.1.3, 8.1.5 & 8.2) |
| 867 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Provision for Earthing | EN 60335(Part-1) |
| 868 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Provision for Earthing | IEC 60335(Part-1) |
| 869 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Provision for Earthing | IS 302(Clause No.27.5) |
| 870 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Resistance to heat and Fire | EN 60335(Part-1) |
| 871 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Resistance to heat and Fire | IEC 60335(Part-1) |
| 872 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Resistance to heat and Fire | IS 302(Clause No.30) |
| 873 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Resistance to Rusting | EN 60335(Part-1) |
| 874 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Resistance to Rusting | IEC 60335(Part-1) |
| 875 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Resistance to Rusting | IS 302(Clause No.31) |
| 876 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Screws and connections | IEC 60335(Part-1) |
| 877 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Screws and connections | IS 302(Clause No.28.1) |
| 878 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Stability test & Mechanical hazards | EN 60335(Part-1): |
| 879 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Stability test & Mechanical hazards | IEC 60335(Part-1) |
| 880 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Stability test & Mechanical hazards | IS 302(Clause No.20) |
| 881 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Supply connection and external flexible cords | EN 60335(Part-1) |
| 882 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Supply connection and external flexible cords | IEC 60335(Part-1) |
| 883 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Supply connection and external flexible cords | IS 302(Clause No.25) |
| 884 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Transient Over Voltages | EN 60335(Part-1) |

# SCOPE OF ACCREDITATION

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|---|---|---|---|
| **Laboratory Name :** | BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-7253 | **Page No** | 53 of 132 |
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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 |
|---|---|---|---|---|
| 885 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Transient Over Voltages | IEC 60335(Part-1) |
| 886 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances | Transient Over Voltages | IS 302(Clause No.13) |
| 887 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances Microwave ovens, including combination microwave ovens | Abnormal Operation | IS 302 (Part-2,Sec-25) |
| 888 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances Microwave ovens, including combination microwave ovens | Clearance, Creepage Distances and Solid Insulation | IS 302 (Part-2,Sec-25) |
| 889 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances Microwave ovens, including combination microwave ovens | Construction | IS 302 (Part-2,Sec-25) |
| 890 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances Microwave ovens, including combination microwave ovens | Endurance Test | IS 302 (Part-2,Sec-25) |
| 891 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances Microwave ovens, including combination microwave ovens | Heating | IS 302 (Part-2,Sec-25) |
| 892 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances Microwave ovens, including combination microwave ovens | Internal Wiring | IS 302 (Part-2,Sec-25) |
| 893 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances Microwave ovens, including combination microwave ovens | Leakage Current and Electric strength | IS 302 (Part-2,Sec-25) |
| 894 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances Microwave ovens, including combination microwave ovens | Leakage Current and Electric strength at Operating Temp | IS 302 (Part-2,Sec-25) |
| 895 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances Microwave ovens, including combination microwave ovens | Marking and Instruction | IS 302 (Part-2,Sec-25) |
| 896 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances Microwave ovens, including combination microwave ovens | Mechanical strength | IS 302 (Part-2,Sec-25) |
| 897 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances Microwave ovens, including combination microwave ovens | Moisture Resistance | IS 302 (Part-2,Sec-25) |
| 898 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances Microwave ovens, including combination microwave ovens | Overload Protection of Transformers and Associated Circuits | IS 302 (Part-2,Sec-25) |
| 899 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances Microwave ovens, including combination microwave ovens | Power Input and Current | IS 302 (Part-2,Sec-25) |
| 900 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances Microwave ovens, including combination microwave ovens | Protection against Access to live parts | IS 302 (Part-2,Sec-25 |
| 901 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances Microwave ovens, including combination microwave ovens | Provision for Earthing | IS 302 (Part-2,Sec-25) |
| 902 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances Microwave ovens, including combination microwave ovens | Resistance to heat and Fire | IS 302 (Part-2,Sec-25) |

# SCOPE OF ACCREDITATION

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|---|---|---|---|
| **Laboratory Name :** | BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
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|---|---|---|---|---|
| 903 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances Microwave ovens, including combination microwave ovens | Resistance to Rusting | IS 302 (Part-2,Sec-25) |
| 904 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances Microwave ovens, including combination microwave ovens | Screws and connection | IS 302 (Part-2,Sec-25) |
| 905 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances Microwave ovens, including combination microwave ovens | Stability test & Mechanical hazards | IS 302 (Part-2,Sec-25) |
| 906 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances Microwave ovens, including combination microwave ovens | Supply connection and external flexible cords | IS 302 (Part-2,Sec-25) |
| 907 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances Microwave ovens, including combination microwave ovens | Terminals for External conductors | IS 302 (Part-2,Sec-25) |
| 908 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Safety of household and similar electrical appliances Microwave ovens, including combination microwave ovens | Transient Over Voltages | IS 302 (Part-2,Sec-25) |
| 909 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Stationary storage type Electric Water Heater | Abnormal Operation | IS 302 (Part-2,Sec-21,Clause no-19) |
| 910 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Stationary storage type Electric Water Heater | Clearance and creepage Distances | IS 302 (Part-2,Sec-21,Clause no-29) |
| 911 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Stationary storage type Electric Water Heater | Construction | IS 302 (Part-2,Sec-21,Clause no-22) |
| 912 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Stationary storage type Electric Water Heater | Heating | IS 302 (Part-2,Sec-21,Clause no-11) |
| 913 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Stationary storage type Electric Water Heater | Internal Wiring | IS 302 (Part-2,Sec-21,Clause no-23) |
| 914 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Stationary storage type Electric Water Heater | Leakage Current and Electric Strength | IS 302 (Part-2,Sec-21,Clause no-16) |
| 915 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Stationary storage type Electric Water Heater | Leakage Current and Electric Strength at Operating Temperature | IS 302 (Part-2,Sec-21,Clause no-13) |
| 916 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Stationary storage type Electric Water Heater | Marking and Instructions | IS 302 (Part-2,Sec-21,Clause no-07) |
| 917 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Stationary storage type Electric Water Heater | Mechanical strength | IS 302 (Part-2,Sec-21,Clause no-21) |
| 918 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Stationary storage type Electric Water Heater | Moisture Resistance | IS 302 (Part-2,Sec-21,Clause no-15) |
| 919 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Stationary storage type Electric Water Heater | Overload Protection of Transformers and Associated circuits | IS 302 (Part-2,Sec-21,Clause no-17) |
| 920 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Stationary storage type Electric Water Heater | Power Input and Current | IS 302 (Part-2,Sec-21,Clause no-10) |

# SCOPE OF ACCREDITATION

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|---|---|---|---|
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|---|---|---|---|---|
| 921 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Stationary storage type Electric Water Heater | Protection against Access to live Parts | IS 302 (Part-2,Sec-21,Clause no-08) |
| 922 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Stationary storage type Electric Water Heater | Provision for Earthing | IS 302 (Part-2,Sec-21,Clause no-27) |
| 923 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Stationary storage type Electric Water Heater | Resistance to heat and Fire | IS 302 (Part-2,Sec-21,Clause no-30) |
| 924 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Stationary storage type Electric Water Heater | Resistance to Rusting | IS 302 (Part-2,Sec-21,Clause no-31) |
| 925 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Stationary storage type Electric Water Heater | Screws and connection | IS 302 (Part-2,Sec-21,Clause no-28) |
| 926 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Stationary storage type Electric Water Heater | Stability & Mechanical hazards | IS 302 (Part-2,Sec-21,Clause no-20) |
| 927 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Stationary storage type Electric Water Heater | Supply connection and external flexiblecords | IS 302 (Part-2,Sec-21,Clause no-25) |
| 928 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Stationary storage type Electric Water Heater | Terminals for External conductors | IS 302 (Part-2,Sec-21,Clause no-26) |
| 929 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Stationary storage type Electric Water Heater | Transient over voltage | IS 302 (Part-2,Sec-21,Clause no-14) |
| 930 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Stationary storage type Electric Water Heaters-Specification | Classifications | IS 2082(Clause 6) |
| 931 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Stationary storage type Electric Water Heaters-Specification | Cyclic temperature variation | IS 2082(Clause 20) |
| 932 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Stationary storage type Electric Water Heaters-Specification | Deviation from Dial calibration | IS 2082(Clause 19) |
| 933 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Stationary storage type Electric Water Heaters-Specification | Finish | IS 2082(Clause 21) |
| 934 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Stationary storage type Electric Water Heaters-Specification | Hot water output | IS 2082(Clause 16) |
| 935 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Stationary storage type Electric Water Heaters-Specification | Marking and Instructions | IS 2082(Clause 7) |
| 936 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Stationary storage type Electric Water Heaters-Specification | Measurement of energy consumption | IS 2082(Clause 13) |
| 937 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Stationary storage type Electric Water Heaters-Specification | Measurements of Stored Water Temperature | IS 2082(Clause 11) |
| 938 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Stationary storage type Electric Water Heaters-Specification | Mixing Factor | IS 2082(Clause 18) |
| 939 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Stationary storage type Electric Water Heaters-Specification | Mounting of the water heater | IS 2082(Clause 10) |

# SCOPE OF ACCREDITATION

**Laboratory Name :** BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA

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

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|---|---|---|---|---|
| 940 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Stationary storage type Electric Water Heaters-Specification | Reheating Time | IS 2082(Clause 17) |
| 941 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Stationary storage type Electric Water Heaters-Specification | Standing loss per 24 hours | IS 2082(Clause 15) |
| 942 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Stationary storage type Electric Water Heaters-Specification | Thermostat Setting | IS 2082(Clause 12) |
| 943 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Stationary storage type Electric Water Heaters-Specification | Verification of the rated capacity | IS 2082(Clause 14) |
| 944 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Toasters, Grills, Roasters and Similar Appliances | Abnormal Operation | IS 302(Part-2,Sec-9) |
| 945 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Toasters, Grills, Roasters and Similar Appliances | Clearance and Creepage Distances and Solid Insulation | IS 302(Part-2,Sec-9) |
| 946 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Toasters, Grills, Roasters and Similar Appliances | Internal Wiring | IS 302(Part-2,Sec-9) |
| 947 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Toasters, Grills, Roasters and Similar Appliances | Leakage current and Electric strength | IS 302(Part-2,Sec-9) |
| 948 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Toasters, Grills, Roasters and Similar Appliances | Leakage Current and Electric strength at Operating Temp. | IS 302(Part-2,Sec-9) |
| 949 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Toasters, Grills, Roasters and Similar Appliances | Marking and Instruction | IS 302(Part-2,Sec-9) |
| 950 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Toasters, Grills, Roasters and Similar Appliances | Mechanical strength | IS 302(Part-2,Sec-9) |
| 951 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Toasters, Grills, Roasters and Similar Appliances | Moisture Resistance | IS 302(Part-2,Sec-9) |
| 952 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Toasters, Grills, Roasters and Similar Appliances | Overload Protection of Transformers and Associated circuits | IS 302(Part-2,Sec-9) |
| 953 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Toasters, Grills, Roasters and Similar Appliances | Power Input and Current | IS 302(Part-2,Sec-9) |
| 954 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Toasters, Grills, Roasters and Similar Appliances | Protection against electric shock | IS 302(Part-2,Sec-9) |
| 955 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Toasters, Grills, Roasters and Similar Appliances | Provision for Earthing | IS 302(Part-2,Sec-9) |
| 956 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Toasters, Grills, Roasters and Similar Appliances | Resistance to heat and Fire | IS 302(Part-2,Sec-9) |
| 957 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Toasters, Grills, Roasters and Similar Appliances | Resistance to Rusting | IS 302(Part-2,Sec-9) |

# SCOPE OF ACCREDITATION

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| **Laboratory Name :** | BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA | | |
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|---|---|---|---|---|
| 958 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Toasters, Grills, Roasters and Similar Appliances | Screws and connection | IS 302(Part-2,Sec-9) |
| 959 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Toasters, Grills, Roasters and Similar Appliances | Stability test & Mechanical hazards | IS 302(Part-2,Sec-9) |
| 960 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Toasters, Grills, Roasters and Similar Appliances | Supply connection and external flexible cords | IS 302(Part-2,Sec-9) |
| 961 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Toasters, Grills, Roasters and Similar Appliances | Temperature Rise | IS 302(Part-2,Sec-9) |
| 962 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Toasters, Grills, Roasters and Similar Appliances | Terminals for External conductors | IS 302(Part-2,Sec-9) |
| 963 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Toasters, Grills, Roasters and Similar Appliances | Transient Over Voltages | IS 302(Part-2,Sec-9) |
| 964 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Tumbler Dryers | Abnormal Operation | IS 302(Part-2,Sec-11) |
| 965 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Tumbler Dryers | Construction | IS 302(Part-2,Sec-11) |
| 966 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Tumbler Dryers | Creepage Distances, Clearance and distances through Insulation | IS 302(Part-2,Sec-11) |
| 967 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Tumbler Dryers | Electrical Insulation and Leakage Current at Operating Temp. | IS 302(Part-2,Sec-11) |
| 968 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Tumbler Dryers | Heating | IS 302(Part-2,Sec-11) |
| 969 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Tumbler Dryers | Input and Current | IS 302(Part-2,Sec-11) |
| 970 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Tumbler Dryers | Insulation Resistance and Electric Strength | IS 302(Part-2,Sec-11) |
| 971 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Tumbler Dryers | Internal Wiring | IS 302(Part-2,Sec-11) |
| 972 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Tumbler Dryers | Marking | IS 302(Part-2,Sec-11) |
| 973 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Tumbler Dryers | Mechanical strength | IS 302(Part-2,Sec-11) |
| 974 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Tumbler Dryers | Moisture Resistance | IS 302(Part-2,Sec-11) |
| 975 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Tumbler Dryers | Overload Protection | IS 302(Part-2,Sec-11) |

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| **Laboratory Name :** | BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA | | |
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|---|---|---|---|---|
| 976 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Tumbler Dryers | Protection against electric shock | IS 302(Part-2,Sec-11) |
| 977 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Tumbler Dryers | Provision for Earthing | IS 302(Part-2,Sec-11) |
| 978 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Tumbler Dryers | Resistance to heat Fire and Tracking | IS 302(Part-2,Sec-11) |
| 979 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Tumbler Dryers | Resistance to Rusting | IS 302(Part-2,Sec-11) |
| 980 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Tumbler Dryers | Screws and connection | IS 302(Part-2,Sec-11) |
| 981 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Tumbler Dryers | Stability test & Mechanical hazards | IS 302(Part-2,Sec-11) |
| 982 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Tumbler Dryers | Starting of Motor operated Appliances | IS 302(Part-2,Sec-11) |
| 983 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Tumbler Dryers | Supply connection and external flexible Cables &cords | IS 302(Part-2,Sec-11) |
| 984 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Tumbler Dryers | Terminals for External conductors | IS 302(Part-2,Sec-11) |
| 985 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Vacuum Cleaners and Water Suction Cleaning Appliances | Abnormal Operation | IS 302(Part-2,Sec-2) |
| 986 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Vacuum Cleaners and Water Suction Cleaning Appliances | Clearance and creepage Distances | IS 302(Part-2,Sec-2) |
| 987 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Vacuum Cleaners and Water Suction Cleaning Appliances | Construction | IS 302(Part-2,Sec-2) |
| 988 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Vacuum Cleaners and Water Suction Cleaning Appliances | Input | IS 302(Part-2,Sec-2) |
| 989 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Vacuum Cleaners and Water Suction Cleaning Appliances | Insulation Resistance and Electric Strength (After Humidity Treatment) | IS 302(Part-2,Sec-2) |
| 990 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Vacuum Cleaners and Water Suction Cleaning Appliances | Internal Wiring | IS 302(Part-2,Sec-2) |
| 991 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Vacuum Cleaners and Water Suction Cleaning Appliances | Leakage Current and Electric Strength at Operating Temp. | IS 302(Part-2,Sec-2) |
| 992 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Vacuum Cleaners and Water Suction Cleaning Appliances | Marking | IS 302(Part-2,Sec-2) |
| 993 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Vacuum Cleaners and Water Suction Cleaning Appliances | Mechanical strength | IS 302(Part-2,Sec-2) |

# SCOPE OF ACCREDITATION

**Laboratory Name :** BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA

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|---|---|---|---|---|
| 994 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Vacuum Cleaners and Water Suction Cleaning Appliances | Moisture Resistance | IS 302(Part-2,Sec-2) |
| 995 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Vacuum Cleaners and Water Suction Cleaning Appliances | Overload Protection | IS 302(Part-2,Sec-2) |
| 996 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Vacuum Cleaners and Water Suction Cleaning Appliances | Protection against electric shock | IS 302(Part-2,Sec-2) |
| 997 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Vacuum Cleaners and Water Suction Cleaning Appliances | Provision for Earthing | IS 302(Part-2,Sec-2) |
| 998 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Vacuum Cleaners and Water Suction Cleaning Appliances | Resistance to heat and Fire | IS 302(Part-2,Sec-2) |
| 999 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Vacuum Cleaners and Water Suction Cleaning Appliances | Resistance to Rusting | IS 302(Part-2,Sec-2) |
| 1000 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Vacuum Cleaners and Water Suction Cleaning Appliances | Screws and connections | IS 302(Part-2,Sec-2) |
| 1001 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Vacuum Cleaners and Water Suction Cleaning Appliances | Stability test & Mechanical hazard | IS 302(Part-2,Sec-2) |
| 1002 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Vacuum Cleaners and Water Suction Cleaning Appliances | Starting of Motor Operating Appliances | IS 302(Part-2,Sec-2): |
| 1003 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Vacuum Cleaners and Water Suction Cleaning Appliances | Supply connection and external flexible cords | IS 302(Part-2,Sec-2) |
| 1004 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Vacuum Cleaners and Water Suction Cleaning Appliances | Temperature Rise | IS 302(Part-2,Sec-2) |
| 1005 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Vacuum Cleaners and Water Suction Cleaning Appliances | Terminals for External conductors | IS 302(Part-2,Sec-2) |
| 1006 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Warming Plates and Similar Appliances | Abnormal Operation | IS 302(Part-2,Sec-12) |
| 1007 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Warming Plates and Similar Appliances | Construction | IS 302(Part-2,Sec-12) |
| 1008 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Warming Plates and Similar Appliances | Creepage Distances, Clearance | IS 302(Part-2,Sec-12) |
| 1009 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Warming Plates and Similar Appliances | Electrical Insulation and Leakage Current at Operating Temp. | IS 302(Part-2,Sec-12) |
| 1010 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Warming Plates and Similar Appliances | Input and Current | IS 302(Part-2,Sec-12) |
| 1011 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Warming Plates and Similar Appliances | Insulation Resistance and Electric Strength (After Humidity Treatment) | IS 302(Part-2,Sec-12) |

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|---|---|---|---|---|
| 1012 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Warming Plates and Similar Appliances | Internal Wiring | IS 302(Part-2,Sec-12) |
| 1013 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Warming Plates and Similar Appliances | Marking | IS 302(Part-2,Sec-12) |
| 1014 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Warming Plates and Similar Appliances | Mechanical strength | IS 302(Part-2,Sec-12) |
| 1015 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Warming Plates and Similar Appliances | Moisture Resistance | IS 302(Part-2,Sec-12) |
| 1016 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Warming Plates and Similar Appliances | Operation Under Overload conditions of Appliances with Heating Elements | IS 302(Part-2,Sec-12) |
| 1017 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Warming Plates and Similar Appliances | Overload Protection | IS 302(Part-2,Sec-12) |
| 1018 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Warming Plates and Similar Appliances | Protection against electric shock | IS 302(Part-2,Sec-12) |
| 1019 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Warming Plates and Similar Appliances | Provision for Earthing | IS 302(Part-2,Sec-12) |
| 1020 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Warming Plates and Similar Appliances | Resistance to heat Fire and Tracking | IS 302(Part-2,Sec-12) |
| 1021 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Warming Plates and Similar Appliances | Resistance to Rusting | IS 302(Part-2,Sec-12) |
| 1022 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Warming Plates and Similar Appliances | Screws and connection | IS 302(Part-2,Sec-12) |
| 1023 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Warming Plates and Similar Appliances | Stability test & Mechanical hazards | IS 302(Part-2,Sec-12) |
| 1024 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Warming Plates and Similar Appliances | Supply connection and external flexible Cables &cords | IS 302(Part-2,Sec-12) |
| 1025 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Warming Plates and Similar Appliances | Temperature Rise | IS 302(Part-2,Sec-12) |
| 1026 | ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES | Warming Plates and Similar Appliances | Terminals for External conductors | IS 302(Part-2,Sec-12) |
| 1027 | ELECTRICAL- ENVIRONMENTAL TEST FACILITY | Environmental Test | Ball Pressure Test | IEC60695-10-2 |
| 1028 | ELECTRICAL- ENVIRONMENTAL TEST FACILITY | Environmental Test | Change of Temperature Test | IEC60068(Part-2,Sec-14) |

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|---|---|---|---|---|
| 1029 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Change of Temperature Test | IS:9000 (Part-14/sec 2 |
| 1030 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Change of Temperature Test | IS:9000 (Part-14/sec 2) |
| 1031 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Cold Test | IS 9000(Part-2/sec.1 to 4) |
| 1032 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Damp Heat Steady State | IEC60068 (Part-2,Sec-78) |
| 1033 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Damp Heat Steady State | IS:9000 (Part-4) |
| 1034 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Damp Heat Steady State | JSS 55555 |
| 1035 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Damp Heat Steady State | QM 333/Issue-2 |
| 1036 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Degree of Protection Provided by Enclosures (IP Code) | IEC 60529 |
| 1037 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Degree of Protection Provided by Enclosures (IP Code) | IEC 60529 |
| 1038 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Degree of Protection Provided by Enclosures (IP Code) | IS 9000(Part -12) |
| 1039 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Degree of Protection Provided by Enclosures (IP Code) | IS 60529 |
| 1040 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Drop | JSS 55555 |
| 1041 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Drop | QM 333/Issue-2 |
| 1042 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Dry Heat Test | IEC 60068(Part-2,Sec-2) |

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|---|---|---|---|---|
| 1043 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Dry Heat Test | IS 9000(Part-3/sec.1 to 5) |
| 1044 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Dust Test | QM 333/Issue-2 |
| 1045 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Flammability Test | UL 94 (V-0, V-1, V-2, HB)- |
| 1046 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Free Fall | QM 333/Issue-2: |
| 1047 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Glow Wire test | IEC60695-2-10/11/12/13 |
| 1048 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Glow Wire test | IS 11000(Part-2,Sec-1) |
| 1049 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | High Temperature (Dry Heat Cycle) Test | QM 333/Issue-2 |
| 1050 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | High Temperature Test | JSS 55555 |
| 1051 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Low Temperature (Cold Cycle) | QM 333/Issue-2 |
| 1052 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Low Temperature Test | JSS 55555 |
| 1053 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Needle Flame Test | IEC60695-11-5 |
| 1054 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Needle Flame Test | IS 11000(Part-2,Sec-2) |
| 1055 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Rapid Temperature Cycle (Thermal Shock) Test | JSS 55555 |
| 1056 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Rapid Temperature Cycle Test | QM 333/Issue-2 |

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|---|---|---|---|---|
| 1057 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Robustness of Termination Test | IEC60068-2-21 |
| 1058 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Robustness of Termination Test | IS 9000 ( Part -19,Sec-1to5) |
| 1059 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Salt Mist Test | Test No-9 of JSS 55555 |
| 1060 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Salt MistTest | QM 333/Issue-2 |
| 1061 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Topple | JSS 55555 |
| 1062 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Topple | QM 333/Issue-2 |
| 1063 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Tropical Exposure (Damp Heat Cyclic Test) | IEC60068(Part-2,Sec-30) |
| 1064 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Tropical Exposure (Damp Heat Cyclic Test) | IS: 9000 (Part-5,Sec-1 &1 2) |
| 1065 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Tropical Exposure (Damp Heat Cyclic Test) | JSS 55555 |
| 1066 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Tropical Exposure (Damp Heat Cyclic Test) | QM 333/Issue-2 |
| 1067 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Vibration /Shock/ bump Test | IEC 60571 |
| 1068 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Vibration Test | BS EN50155 |
| 1069 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Vibration Test | IEC 60068 (Part-2) |
| 1070 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Vibration Test | IEC 61373 |

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|---|---|---|---|---|
| 1071 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Vibration Test | IS 9000(Part-8) |
| 1072 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Vibration Test | JSS 55555 |
| 1073 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Vibration Test | QM 333/Issue-2 |
| 1074 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Water Immersion test | JSS 55555 |
| 1075 | ELECTRICAL-ENVIRONMENTAL TEST FACILITY | Environmental Test | Water Immersion test | QM 333/Issue-2 |
| 1076 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | d.c or a.c Supplied Electronic control gear for LED Modules | Moisture Resistance | IS 15885(Part-2,Sec-13) |
| 1077 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | d.c or a.c Supplied Electronic control gear for LED Modules | Resistance to Heat, Fire and Tracking | IEC 61347(Part-2,Sec-13) |
| 1078 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | d.c or a.c Supplied Electronic control gear for LED Modules | Screws, Current carrying parts and connections | IEC 61347(Part-2,Sec-13) |
| 1079 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | d.c or a.c Supplied Electronic control gear for LED Modules | Clearance and Creepage Distances | IEC 61347(Part-2,Sec-13) |
| 1080 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | d.c or a.c Supplied Electronic control gear for LED Modules | Clearance and Creepage Distances | IS 15885(Part-2,Sec-13) |
| 1081 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | d.c or a.c Supplied Electronic control gear for LED Modules | Construction | IEC 61347(Part-2,Sec-13) |
| 1082 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | d.c or a.c Supplied Electronic control gear for LED Modules | Construction | IS 15885(Part-2,Sec-13) |
| 1083 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | d.c or a.c Supplied Electronic control gear for LED Modules | Electric Strength | IEC 61347(Part-2,Sec-13) |
| 1084 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | d.c or a.c Supplied Electronic control gear for LED Modules | Electric Strength | IS 15885(Part-2,Sec-13) |

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|---|---|---|---|---|
| 1085 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | d.c or a.c Supplied Electronic control gear for LED Modules | Fault Condition | IEC 61347(Part-2,Sec-13 |
| 1086 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | d.c or a.c Supplied Electronic control gear for LED Modules | Fault Condition | IS 15885(Part-2,Sec-13) |
| 1087 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | d.c or a.c Supplied Electronic control gear for LED Modules | Marking | IEC 61347(Part-2,Sec-13) |
| 1088 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | d.c or a.c Supplied Electronic control gear for LED Modules | Marking | IS 15885(Part-2,Sec-13) |
| 1089 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | d.c or a.c Supplied Electronic control gear for LED Modules | Moisture Resistance | IEC 61347(Part-2,Sec-13) |
| 1090 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | d.c or a.c Supplied Electronic control gear for LED Modules | Protection Against Accidental contact with live parts | IEC 61347(Part-2,Sec-13) |
| 1091 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | d.c or a.c Supplied Electronic control gear for LED Modules | Protection Against Accidental contact with live parts | IS 15885(Part-2,Sec-13) |
| 1092 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | d.c or a.c Supplied Electronic control gear for LED Modules | Provision for Protective Earthing | IEC 61347(Part-2,Sec-13) |
| 1093 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | d.c or a.c Supplied Electronic control gear for LED Modules | Provision for Protective Earthing | IS 15885(Part-2,Sec-13) |
| 1094 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | d.c or a.c Supplied Electronic control gear for LED Modules | Resistance to corrosion | IEC 61347(Part-2,Sec-13) |
| 1095 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | d.c or a.c Supplied Electronic control gear for LED Modules | Resistance to corrosion | IS 15885(Part-2,Sec-13) |
| 1096 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | d.c or a.c Supplied Electronic control gear for LED Modules | Resistance to Heat, Fire and Tracking | IS 15885(Part-2,Sec-13) |
| 1097 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | d.c or a.c Supplied Electronic control gear for LED Modules | Screws, Current carrying parts and connections | IS 15885(Part-2,Sec-13) |
| 1098 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | d.c or a.c Supplied Electronic control gear for LED Modules | Terminals | IEC 61347(Part-2,Sec-13) |

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|---|---|---|---|---|
| 1099 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | d.c or a.c Supplied Electronic control gear for LED Modules | Terminals | IS 15885(Part-2,Sec-13) |
| 1100 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | d.c or a.c Supplied Electronic control gear for LED Modules | Thermal Endurance Test For Windings of Ballasts | IEC 61347(Part-2,Sec-13 |
| 1101 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | d.c or a.c Supplied Electronic control gear for LED Modules | Thermal Endurance Test for Windings of Ballasts | IS 15885(Part-2,Sec-13) |
| 1102 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | DC or AC Supplied Electronic Control gear for LED Modules | Transformer Heating | IEC 61347-2-13 |
| 1103 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | DC or AC Supplied Electronic Control gear for LED Modules | Transformer Heating | IS 15885 (Part 2/Sec 13) |
| 1104 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Fixed General-Purpose LED luminaires | Classification of Luminaires( Visual inspection) | IEC 60598(Part-2,Sec-1) |
| 1105 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Fixed General-Purpose LED Luminaires | Classification of Luminaires( Visual inspection) | IS 10322 (Part 5/Sec 1) (Cl. 5) |
| 1106 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Fixed General-Purpose LED Luminaires | General test Requirements ( Visual inspection) | IEC 60598(Part-2,Sec-1) |
| 1107 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Fixed General-Purpose LED luminaires | General test Requirements( Visual inspection) | IS 10322 (Part 5/Sec 1) (Cl. 4) |
| 1108 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Fixed General-Purpose LED luminaries | Construction | IEC 60598(Part-2,Sec-1) (Except Cl 4.11.6,4.14.3,4.14 & 4.24) |
| 1109 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Fixed General-Purpose LED luminaries | Construction | IS 10322 (Part-5,Sec-1) (Except Cl 4.11.6,4.14.3,4.14 & 4.24) |
| 1110 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Fixed General-Purpose LED luminaries | Creepage Distance & Clearance | IEC 60598(Part-2,Sec-1) |
| 1111 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Fixed General-Purpose LED luminaries | Creepage Distance & Clearance | IS 10322 (Part-5,Sec-1) |
| 1112 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Fixed General-Purpose LED luminaries | Endurance Test and Thermal Test | IEC 60598(Part-2,Sec-1) |

# SCOPE OF ACCREDITATION

**Laboratory Name :** BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA

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|---|---|---|---|---|
| 1113 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Fixed General-Purpose LED luminaries | Endurance Test and Thermal Test | IS 10322 (Part-5,Sec-1) |
| 1114 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Fixed General-Purpose LED luminaries | External and Internal Wiring | IEC 60598(Part-2,Sec-1) |
| 1115 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Fixed General-Purpose LED luminaries | External and Internal Wiring | IS 10322 (Part-5,Sec-1) |
| 1116 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Fixed General-Purpose LED luminaries | Insulation Resistance and Electric Strength | IEC 60598(Part-2,Sec-1) |
| 1117 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Fixed General-Purpose LED luminaries | Insulation Resistance and Electric Strength | IS 10322 (Part-5,Sec-1) |
| 1118 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Fixed General-Purpose LED luminaries | Leakage Current | IEC 60598(Part-2,Sec-1) |
| 1119 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Fixed General-Purpose LED luminaries | Leakage Current | IS 10322 (Part-5,Sec-1) |
| 1120 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Fixed General-Purpose LED luminaries | Marking | IEC 60598(Part-2,Sec-1) |
| 1121 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Fixed General-Purpose LED luminaries | Marking | IS 10322 (Part-5,Sec- 1) |
| 1122 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Fixed General-Purpose LED luminaries | Protection Against Electric Shock | IEC 60598(Part-2,Sec-1) |
| 1123 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Fixed General-Purpose LED luminaries | Protection Against Electric Shock | IS 10322 (Part-5,Sec-1) |
| 1124 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Fixed General-Purpose LED luminaries | Provision for Earthing | IEC 60598(Part-2,Sec-1) |
| 1125 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Fixed General-Purpose LED luminaries | Provision for Earthing | IS 10322 (Part-5,Sec-1) |
| 1126 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Fixed General-Purpose LED luminaries | Resistance to Dust and Moisture | IEC 60598(Part-2,Sec-1) |

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|---|---|---|---|---|
| 1127 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Fixed General-Purpose LED luminaries | Resistance to Dust and Moisture | IS 10322 (Part-5,Sec-1) |
| 1128 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Fixed General-Purpose LED luminaries | Resistance to Heat, Fire and Tracking | IEC 60598(Part-2,Sec-1) |
| 1129 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Fixed General-Purpose LED luminaries | Resistance to Heat, Fire and Tracking | IS 10322 (Part-5,Sec-1) |
| 1130 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Fixed General-Purpose LED luminaries | Screw Less Terminals and electrical connections | IEC 60598(Part-2,Sec-1) |
| 1131 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Fixed General-Purpose LED luminaries | Screw Less Terminals and electrical connections | IS 10322 (Part-5,Sec-1) |
| 1132 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Fixed General-Purpose LED luminaries | Screw Terminals | IEC 60598(Part-2,Sec-1) |
| 1133 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Fixed General-Purpose LED luminaries | Screw Terminals | IS 10322 (Part-5,Sec-1) |
| 1134 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Floodlights | Construction | IEC 60598(Part-2,Sec-5) (Except Cl 7.5 &7.8 ) |
| 1135 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Floodlights | Construction | IS 10322 (Part- 5,Sec- 5) (Except Cl 7.5 &7.8 ) |
| 1136 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Floodlights | Creepage Distance & Clearance | IEC 60598(Part-2,Sec-5) |
| 1137 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Floodlights | Creepage Distance & Clearance | IS 10322 (Part- 5,Sec- 5) |
| 1138 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Floodlights | Endurance Test and Thermal Test | IEC 60598(Part-2,Sec-5 |
| 1139 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Floodlights | Endurance Test and Thermal Test | IS 10322 (Part- 5,Sec- 5) |
| 1140 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Floodlights | External and Internal Wiring | IEC 60598(Part-2,Sec-5) |

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|---|---|---|---|---|
| 1141 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Floodlights | External and Internal Wiring | IS 10322 (Part- 5,Sec- 5) |
| 1142 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Floodlights | Insulation Resistance and Electric Strength | IEC 60598(Part-2,Sec-5) |
| 1143 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Floodlights | Insulation Resistance and Electric Strength | IS 10322 (Part- 5,Sec- 5) |
| 1144 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Floodlights | Leakage Current | IEC 60598(Part-2,Sec-5) |
| 1145 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Floodlights | Leakage Current | IS 10322 (Part- 5,Sec- 5) |
| 1146 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Floodlights | Marking | IEC 60598(Part-2,Sec-5) |
| 1147 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Floodlights | Marking | IS 10322 (Part- 5,Sec- 5) |
| 1148 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Floodlights | Protection Against Electric Shock | IEC 60598(Part-2,Sec-5) |
| 1149 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Floodlights | Protection Against Electric Shock | IS 10322 (Part- 5,Sec- 5) |
| 1150 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Floodlights | Provision for Earthing | IEC 60598(Part-2,Sec-5) |
| 1151 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Floodlights | Provision for Earthing | IS 10322 (Part- 5,Sec- 5) |
| 1152 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Floodlights | Resistance to Dust and Moisture | IEC 60598(Part-2,Sec-5) |
| 1153 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Floodlights | Resistance to Dust and Moisture | IS 10322 (Part- 5,Sec- 5) |
| 1154 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Floodlights | Resistance to Heat, Fire and Tracking | IEC 60598(Part-2,Sec-5) |

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|---|---|---|---|---|
| 1155 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Floodlights | Resistance to Heat, Fire and Tracking | IS 10322 (Part- 5,Sec- 5) |
| 1156 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Floodlights | Terminals | IEC 60598(Part-2,Sec-5) |
| 1157 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Floodlights | Terminals | IS 10322 (Part- 5,Sec- 5) |
| 1158 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Handlamps | Construction | IEC 60598(Part-2,Sec-8) (Except Cl 7.6.1&7.6.2) |
| 1159 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Handlamps | Construction | IS 10322 (Part- 5,Sec -6)(Except Cl 7.6.1&7.6.2) |
| 1160 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Handlamps | Creepage Distance & Clearance | IEC 60598(Part-2,Sec-8) |
| 1161 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Handlamps | Creepage Distance & Clearance | IS 10322 (Part- 5,Sec -6) |
| 1162 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Handlamps | Endurance Test and Thermal Test | IEC 60598(Part-2,Sec-8) |
| 1163 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Handlamps | Endurance Test and Thermal Test | IS 10322 (Part- 5,Sec -6) |
| 1164 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Handlamps | External and Internal Wiring | IEC 60598(Part-2,Sec-8) |
| 1165 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Handlamps | External and Internal Wiring | IS 10322 (Part- 5,Sec -6) |
| 1166 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Handlamps | Insulation Resistance and Electric Strength | IS 10322 (Part- 5,Sec -6) |
| 1167 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Handlamps | Insulation Resistance and Electric Strength | IEC 60598(Part-2,Sec-8) |
| 1168 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Handlamps | Leakage Current | IEC 60598(Part-2,Sec-8) |

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|---|---|---|---|---|
| 1169 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Handlamps | Leakage Current | IS 10322 (Part- 5,Sec -6) |
| 1170 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Handlamps | Marking | IEC 60598(Part-2,Sec-8) |
| 1171 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Handlamps | Marking | IS 10322 (Part- 5,Sec -6) |
| 1172 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Handlamps | Protection Against Electric Shock | IEC 60598(Part-2,Sec-8) |
| 1173 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Handlamps | Protection Against Electric Shock | IS 10322 (Part- 5,Sec -6) |
| 1174 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Handlamps | Provision for Earthing | IEC 60598(Part-2,Sec-8) |
| 1175 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Handlamps | Provision for Earthing | IS 10322 (Part- 5,Sec -6) |
| 1176 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Handlamps | Resistance to Dust and Moisture | IEC 60598(Part-2,Sec-8) |
| 1177 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Handlamps | Resistance to Dust and Moisture | IS 10322 (Part- 5,Sec -6) |
| 1178 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Handlamps | Resistance to Heat, Fire and Tracking | IEC 60598(Part-2,Sec-8) |
| 1179 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Handlamps | Resistance to Heat, Fire and Tracking | IS 10322 (Part- 5,Sec -6) |
| 1180 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Handlamps | Terminals | IEC 60598(Part-2,Sec-8) |
| 1181 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Handlamps | Terminals | IS 10322 (Part- 5,Sec -6) |
| 1182 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Lighting Chains | Classification of Luminaires( Visual inspection) | IEC 60598(Part-2, Sec-20) |

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|---|---|---|---|
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|---|---|---|---|---|
| 1183 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Lighting Chains | Classification of Luminaires( Visual inspection) | IS 10322 (Part 5/Sec 7(Cl. 20.5) |
| 1184 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Lighting Chains | Construction | IEC 60598(Part-2, Sec-20)(Except Cl 20.7.9,20.7.10 & 20.7.11) |
| 1185 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Lighting Chains | Construction | IS 10322 (Part- 5, Sec-7)(Except Cl 20.7.9,20.7.10 & 20.7.11) |
| 1186 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Lighting Chains | Creepage Distance & Clearance | IEC 60598(Part-2, Sec-20) |
| 1187 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Lighting Chains | Creepage Distance & Clearance | IS 10322 (Part- 5, Sec-7) |
| 1188 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Lighting Chains | Endurance Test and Thermal Test | IS 10322 (Part- 5, Sec-7) |
| 1189 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Lighting Chains | Endurance Test and Thermal Test | IEC 60598(Part-2, Sec-20) |
| 1190 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Lighting Chains | External and Internal Wiring | IEC 60598(Part-2, Sec-20) |
| 1191 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Lighting Chains | External and Internal Wiring | IS 10322 (Part- 5, Sec-7) |
| 1192 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Lighting Chains | General test Requirements( Visual inspection) | IEC 60598(Part-2,Sec-20) |
| 1193 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Lighting Chains | General test Requirements( Visual inspection) | IS 10322 (Part 5/Sec 7) (Cl.20.4) |
| 1194 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Lighting Chains | Insulation Resistance and Electric Strength | IEC 60598(Part-2, Sec-20) |
| 1195 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Lighting Chains | Insulation Resistance and Electric Strength | IS 10322 (Part- 5, Sec-7) |
| 1196 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Lighting Chains | Leakage Current | IEC 60598(Part-2, Sec-20) |

# SCOPE OF ACCREDITATION

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| 1197 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Lighting Chains | Leakage Current | IS 10322 (Part- 5, Sec-7) |
| 1198 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Lighting Chains | Marking | IEC 60598(Part-2, Sec-20) |
| 1199 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Lighting Chains | Marking | IS 10322 (Part- 5, Sec-7) |
| 1200 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Lighting Chains | Protection Against Electric Shock | IEC 60598(Part-2, Sec-20) (Except Cl 20.12.2 & 20.12.4 ) |
| 1201 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Lighting Chains | Protection Against Electric Shock | IS 10322 (Part- 5, Sec-7)(Except Cl 20.12.2 & 20.12.4 ) |
| 1202 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Lighting Chains | Resistance to Dust and Moisture | IEC 60598(Part-2, Sec-20) |
| 1203 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Lighting Chains | Resistance to Dust and Moisture | IS 10322 (Part- 5, Sec-7) |
| 1204 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Lighting Chains | Resistance to Heat, Fire and Tracking | IEC 60598(Part-2, Sec-20) |
| 1205 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Lighting Chains | Resistance to Heat, Fire and Tracking | IS 10322 (Part- 5, Sec-7) |
| 1206 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Lighting Chains | Terminals | IEC 60598(Part-2, Sec-20) |
| 1207 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Lighting Chains | Terminals | IS 10322 (Part- 5, Sec-7) |
| 1208 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries General Requirements and Tests | Construction | IEC 60598(Part-1) (Except Cl 4.11.6,4.14.3,4.14 & 4.24) |
| 1209 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries General Requirements and Tests | Construction | IS 10322 (Part-1) (Except Cl 4.11.6,4.14.3,4.14 & 4.24) |
| 1210 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries General Requirements and Tests | Creepage Distance & Clearance | IEC 60598(Part-1) |

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|---|---|---|---|---|
| 1211 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries General Requirements and Tests | Creepage Distance & Clearance | IS 10322(Part-1) |
| 1212 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries General Requirements and Tests | Endurance Test and Thermal Test | IEC 60598(Part-1) |
| 1213 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries General Requirements and Tests | Endurance Test and Thermal Test | IS 10322(Part-1) |
| 1214 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries General Requirements and Tests | External and Internal Wiring | IEC 60598(Part-1) |
| 1215 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries General Requirements and Tests | External and Internal Wiring | IS 10322(Part-1) |
| 1216 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries General Requirements and Tests | Insulation Resistance and Electric Strength | IEC 60598(Part-1) |
| 1217 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries General Requirements and Tests | Insulation Resistance and Electric Strength | IS 10322(Part-1) |
| 1218 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries General Requirements and Tests | Leakage Current | IEC 60598(Part-1) |
| 1219 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries General Requirements and Tests | Leakage Current | IS 10322(Part-1) |
| 1220 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries General Requirements and Tests | Marking | IEC 60598(Part-1) |
| 1221 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries General Requirements and Tests | Marking | IS 10322(Part 1) |
| 1222 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries General Requirements and Tests | Protection Against Electric Shock | IEC 60598(Part-1) |
| 1223 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries General Requirements and Tests | Protection Against Electric Shock | IS 10322(Part-1) |
| 1224 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries General Requirements and Tests | Provision for Earthing | IEC 60598(Part-1) |

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|---|---|---|---|---|
| 1225 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries General Requirements and Tests | Provision for Earthing | IS 10322(Part-1) |
| 1226 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries General Requirements and Tests | Resistance to Dust and Moisture | IEC 60598(Part-1) |
| 1227 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries General Requirements and Tests | Resistance to Dust and Moisture | IS 10322(Part-1) |
| 1228 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries General Requirements and Tests | Resistance to Heat, Fire and Tracking | IEC 60598(Part-1) |
| 1229 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries General Requirements and Tests | Resistance to Heat, Fire and Tracking | IS 10322(Part-1) |
| 1230 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries General Requirements and Tests | Screw Less Terminals and electrical connections | IEC 60598(Part-1) |
| 1231 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries General Requirements and Tests | Screw Less Terminals and electrical connections | IS 10322(Part-1) |
| 1232 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries General Requirements and Tests | Screw Terminals | IEC 60598(Part-1) |
| 1233 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries General Requirements and Tests | Screw Terminals | IS 10322(Part-1) |
| 1234 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries for Road and Street Lighting | Construction | IEC 60598(Part-2,Sec-3) (Except Cl 7.3 & 7.5) |
| 1235 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries for Road and Street Lighting | Construction | IS 10322 (Part 5,Sec 3) (Except Cl 7.3 & 7.5) |
| 1236 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries for Road and Street Lighting | Creepage Distance & Clearance | IEC 60598(Part-2,Sec-3) |
| 1237 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries for Road and Street Lighting | Creepage Distance & Clearance | IS 10322 (Part 5,Sec 3) |
| 1238 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries for Road and Street Lighting | Endurance Test and Thermal Test | IEC 60598(Part-2,Sec-3) |

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| 1239 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries for Road and Street Lighting | Endurance Test and Thermal Test | IS 10322 (Part 5,Sec 3) |
| 1240 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries for Road and Street Lighting | External and Internal Wiring | IEC 60598(Part-2,Sec-3) |
| 1241 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries for Road and Street Lighting | External and Internal Wiring | IS 10322 (Part 5,Sec 3) |
| 1242 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries for Road and Street Lighting | Insulation Resistance and Electric Strength | IEC 60598(Part-2,Sec-3) |
| 1243 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries for Road and Street Lighting | Insulation Resistance and Electric Strength | IS 10322 (Part 5,Sec 3) |
| 1244 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries for Road and Street Lighting | Leakage Current | IEC 60598(Part-2,Sec-3) |
| 1245 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries for Road and Street Lighting | Leakage Current | IS 10322 (Part 5,Sec 3) |
| 1246 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries for Road and Street Lighting | Marking | IEC 60598(Part-2,Sec-3) |
| 1247 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries for Road and Street Lighting | Marking | IS 10322 (Part 5,Sec 3) |
| 1248 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries for Road and Street Lighting | Protection Against Electric Shock | IEC 60598(Part-2,Sec-3) |
| 1249 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries for Road and Street Lighting | Protection Against Electric Shock | IS 10322 (Part 5,Sec 3) |
| 1250 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries for Road and Street Lighting | Provision for Earthing | IEC 60598(Part-2,Sec-3) |
| 1251 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries for Road and Street Lighting | Provision for Earthing | IS 10322 (Part 5,Sec 3) |
| 1252 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries for Road and Street Lighting | Resistance to Dust and Moisture | IEC 60598(Part-2,Sec-3) |

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| 1253 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries for Road and Street Lighting | Resistance to Dust and Moisture | IS 10322 (Part 5,Sec 3) |
| 1254 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries for Road and Street Lighting | Resistance to Dust and Moisture | IS 10322 (Part 5,Sec 3) |
| 1255 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries for Road and Street Lighting | Resistance to Heat, Fire and Tracking | IEC 60598(Part-2,Sec-3) |
| 1256 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries for Road and Street Lighting | Resistance to Heat, Fire and Tracking | IS 10322 (Part 5,Sec 3) |
| 1257 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries for Road and Street Lighting | Terminals | IEC 60598(Part-2,Sec-3) |
| 1258 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Luminaries for Road and Street Lighting | Terminals | IS 10322 (Part 5,Sec 3) |
| 1259 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Recessed luminaries | Construction | IEC 60598(Part-2,Sec-2) (Except Cl 4.11.6,4.14.3,4.14 & 4.24) |
| 1260 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Recessed luminaries | Construction | IS 10322 (Part -5, Sec -2) (Except Cl 4.11.6,4.14.3,4.14 & 4.24) |
| 1261 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Recessed luminaries | Creepage Distance & Clearance | IEC 60598(Part-2,Sec-2) |
| 1262 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Recessed luminaries | Creepage Distance & Clearance | IS 10322 (Part-5, Sec-2) |
| 1263 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Recessed luminaries | Endurance Test and Thermal Test | IEC 60598(Part-2,Sec-2) |
| 1264 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Recessed luminaries | Endurance Test and Thermal Test | IS 10322 (Part-5,Sec- 2) |
| 1265 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Recessed luminaries | External and Internal Wiring | IEC 60598(Part-2,Sec-2) |
| 1266 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Recessed luminaries | External and Internal Wiring | IS 10322 (Part -5, Sec -2) |

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| 1267 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Recessed luminaries | Insulation Resistance and Electric Strength | IEC 60598(Part-2,Sec-2) |
| 1268 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Recessed luminaries | Leakage Current | IS 10322 (Part -5, Sec -2) |
| 1269 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Recessed luminaries | Leakage Current | IEC 60598(Part-2,Sec-2) |
| 1270 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Recessed luminaries | Marking | IEC 60598(Part-2,Sec-2) |
| 1271 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Recessed luminaries | Marking | IS 10322 (Part -5, Sec -2) |
| 1272 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Recessed luminaries | Protection Against Electric Shock | IEC 60598(Part-2,Sec-2) |
| 1273 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Recessed luminaries | Protection Against Electric Shock | IS 10322 (Part -5, Sec -2) |
| 1274 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Recessed luminaries | Provision for Earthing | IEC 60598(Part-2,Sec-2) |
| 1275 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Recessed luminaries | Provision for Earthing | IS 10322 (Part -5, Sec -2) |
| 1276 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Recessed luminaries | Resistance to Dust and Moisture | IEC 60598(Part-2,Sec-2) |
| 1277 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Recessed luminaries | Resistance to Dust and Moisture | IS 10322 (Part -5, Sec -2) |
| 1278 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Recessed luminaries | Resistance to Heat, Fire and Tracking | IEC 60598(Part-2,Sec-2) |
| 1279 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Recessed luminaries | Resistance to Heat, Fire and Tracking | IS 10322 (Part -5,Sec -2) |
| 1280 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Recessed luminaries | Screw Less Terminals and electrical connections | IEC 60598(Part-2,Sec-2) |

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| 1281 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Recessed luminaries | Screw Less Terminals and electrical connections | IS 10322 (Part -5, Sec -2) |
| 1282 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Recessed luminaries | Screw Terminals | IEC 60598(Part-2,Sec-2) |
| 1283 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Recessed luminaries | Screw Terminals | IS 10322 (Part -5,Sec -2) |
| 1284 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Safety of Lamp control gear, General Requirements | Clearance and Creepage Distances | IEC 61347(Part-2) |
| 1285 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Safety of Lamp control gear, General Requirements | Clearance and Creepage Distances | IS 15885(Part-1) |
| 1286 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Safety of Lamp control gear, General Requirements | Construction | IEC 61347(Part-2) |
| 1287 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Safety of Lamp control gear, General Requirements | Construction | IS 15885(Part-1) |
| 1288 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Safety of Lamp control gear, General Requirements | Electric Strength | IEC 61347(Part-2) |
| 1289 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Safety of Lamp control gear, General Requirements | Electric Strength | IS 15885(Part-1) |
| 1290 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Safety of Lamp control gear, General Requirements | Fault Condition | IEC 61347(Part-2) |
| 1291 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Safety of Lamp control gear, General Requirements | Fault Condition | IS 15885(Part-1) |
| 1292 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Safety of Lamp control gear, General Requirements | Marking | IEC 61347(Part-2) |
| 1293 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Safety of Lamp control gear, General Requirements | Marking | IS 15885(Part-1) |
| 1294 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Safety of Lamp control gear, General Requirements | Moisture Resistance | IEC 61347(Part-2) |

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| 1295 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Safety of Lamp control gear, General Requirements | Moisture Resistance | IS 15885(Part-1) |
| 1296 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Safety of Lamp control gear, General Requirements | Protection Against Accidental contact with live parts | IEC 61347(Part-2) |
| 1297 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Safety of Lamp control gear, General Requirements | Protection Against Accidental contact with live parts | IS 15885(Part-1) |
| 1298 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Safety of Lamp control gear, General Requirements | Provision for Protective Earthing | IEC 61347(Part-2) |
| 1299 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Safety of Lamp control gear, General Requirements | Provision for Protective Earthing | IS 15885(Part-1) |
| 1300 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Safety of Lamp control gear, General Requirements | Resistance to corrosion | IEC 61347(Part-2) |
| 1301 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Safety of Lamp control gear, General Requirements | Resistance to corrosion | IS 15885(Part-1) |
| 1302 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Safety of Lamp control gear, General Requirements | Resistance to Heat, Fire and Tracking | IEC 61347(Part-2) |
| 1303 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Safety of Lamp control gear, General Requirements | Resistance to Heat, Fire and Tracking | IS 15885(Part-1) |
| 1304 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Safety of Lamp control gear, General Requirements | Screws, Current carrying parts and connections | IEC 61347(Part-2) |
| 1305 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Safety of Lamp control gear, General Requirements | Screws, Current carrying parts and connections | IS 15885(Part-1) |
| 1306 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Safety of Lamp control gear, General Requirements | Terminals | IEC 61347(Part-2) |
| 1307 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Safety of Lamp control gear, General Requirements | Terminals | IS 15885(Part-1) |
| 1308 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Safety of Lamp control gear, General Requirements | Thermal Endurance Test for Windings of Ballasts | IEC 61347(Part-2) |

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| 1309 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Safety of Lamp control gear, General Requirements | Thermal Endurance Test for Windings of Ballasts | IS 15885(Part-1) |
| 1310 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Self-Ballasted Lamps For General Lighting | Cap Temperature Rise | IEC 60968 |
| 1311 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Self-Ballasted Lamps For General Lighting | Fault Conditions | IEC 60968 |
| 1312 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Self-Ballasted Lamps For General Lighting | Insulation Resistance and Electric Strength After Humidity treatment | IEC 60968 |
| 1313 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Self-Ballasted Lamps For General Lighting | Interchangeability Test | IEC 60968 |
| 1314 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Self-Ballasted Lamps For General Lighting | Marking | IEC 60968 |
| 1315 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Self-Ballasted Lamps For General Lighting | Mechanical strength | IEC 60968 |
| 1316 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Self-Ballasted Lamps For General Lighting | Protection Against Electric Shock | IEC 60968 |
| 1317 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Self-Ballasted Lamps For General Lighting | Resistance to Flame and ignition | IEC 60968 |
| 1318 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Self-Ballasted Lamps For General Lighting | Resistance to Heat | IEC 60968 |
| 1319 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Self-Ballasted Lamps For General Lighting Services Part 1: Safety Requirements | Cap Temperature Rise | IS 15111 (Part-1) |
| 1320 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Self-Ballasted Lamps For General Lighting Services Part 1: Safety Requirements | Fault Conditions | IS 15111 (Part-1) |
| 1321 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Self-Ballasted Lamps For General Lighting Services Part 1: Safety Requirements | Insulation Resistance and Electric Strength After Humidity treatment | IS 15111 (Part-1) |
| 1322 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Self-Ballasted Lamps For General Lighting Services Part 1: Safety Requirements | Interchangeability Test | IS 15111 (Part-1) |

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| 1323 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Self-Ballasted Lamps For General Lighting Services Part 1: Safety Requirements | Marking | IS 15111 (Part-1) |
| 1324 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Self-Ballasted Lamps For General Lighting Services Part 1: Safety Requirements | Mechanical strength | IS 15111 (Part-1) |
| 1325 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Self-Ballasted Lamps For General Lighting Services Part 1: Safety Requirements | Protection Against Electric Shock | IS 15111 (Part-1) |
| 1326 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Self-Ballasted Lamps For General Lighting Services Part 1: Safety Requirements | Resistance to Flame and ignition | IS 15111 (Part-1) |
| 1327 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Self-Ballasted Lamps For General Lighting Services Part 1: Safety Requirements | Resistance to Heat | IS 15111 (Part-1) |
| 1328 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Self-Ballasted Led Lamps For General Lighting Services | Cap Temperature Rise | IEC 62506 |
| 1329 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Self-Ballasted Led Lamps for General Lighting Services | Cap Temperature Rise | IS 16102(Part-1) |
| 1330 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Self-Ballasted Led Lamps For General Lighting Services | Creepage Distance & Clearance | IEC 62506 |
| 1331 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Self-Ballasted Led Lamps for General Lighting Services | Creepage Distance & Clearance | IS 16102 (Part-1) |
| 1332 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Self-Ballasted Led Lamps For General Lighting Services | Fault Conditions | IEC 62506 |
| 1333 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Self-Ballasted Led Lamps for General Lighting Services | Fault Conditions | IS 16102 (Part-1) |
| 1334 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Self-Ballasted Led Lamps For General Lighting Services | Insulation Resistance and Electric Strength After Humidity treatment | IEC 62506 |
| 1335 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Self-Ballasted Led Lamps for General Lighting Services | Insulation Resistance and Electric Strength After Humidity treatment | IS 16102 Part-1) |
| 1336 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Self-Ballasted Led Lamps For General Lighting Services | Interchangeability Test | IEC 62506 |

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| 1337 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Self-Ballasted Led Lamps for General Lighting Services | Interchangeability Test | IS 16102 Part-1) |
| 1338 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Self-Ballasted Led Lamps for General Lighting Services | Marking | IEC 62506 |
| 1339 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Self-Ballasted Led Lamps for General Lighting Services | Marking | IS 16102 Part-1) |
| 1340 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Self-Ballasted Led Lamps For General Lighting Services | Mechanical strength | IEC 62506 |
| 1341 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Self-Ballasted Led Lamps for General Lighting Services | Mechanical strength | IS 16102 (Part-1) |
| 1342 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Self-Ballasted Led Lamps For General Lighting Services | Protection Against Accidental Contact with Live Parts | IEC 62506 |
| 1343 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Self-Ballasted Led Lamps for General Lighting Services | Protection Against Accidental Contact with Live Parts | IS 16102 Part-1) |
| 1344 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Self-Ballasted Led Lamps For General Lighting Services | Resistance to Flame and ignition | IEC 62506 |
| 1345 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Self-Ballasted Led Lamps for General Lighting Services | Resistance to Flame and ignition | IS 16102 (Part-1) |
| 1346 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Self-Ballasted Led Lamps For General Lighting Services | Resistance to Heat | IEC 62506 |
| 1347 | ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES | Self-Ballasted Led Lamps for General Lighting Services | Resistance to Heat | IS 16102 (Part-1) |
| 1348 | ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Instrument Transformer (Current transformer) | Temperature rise test | IS 16227(Part-2, Cl. No.7.2.2) |
| 1349 | ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Instrument Transformer(Current transformer) | Corrosion Test | IS 16227(Part-2, Cl. No.7.4.9) |

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|---|---|---|---|---|
| 1350 | ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Instrument Transformer(Current transformer) | Determination of secondary winding resistance | IS 16227(Part-2,Cl. No.7.3.201) |
| 1351 | ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Instrument Transformer(Current transformer) | Inter-turn over voltage test | IS 16227(Part-2, Cl. No.7.3.204) |
| 1352 | ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Instrument Transformer(Current transformer) | Mechanical test | IS 16227(Part-2,Cl. No.7.3.5) |
| 1353 | ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Instrument Transformer(Current transformer) | Power-frequency voltage withstands tests between sections | IS 16227(Part-2,Cl. No.7.3.3 |
| 1354 | ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Instrument Transformer(Current transformer) | Power-frequency voltage withstands tests on primary terminals | IS 16227(Part-2, Cl. No.7.3.1) |
| 1355 | ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Instrument Transformer(Current transformer) | Power-frequency voltage withstand tests on secondary terminals | IS 16227(Part-2, Cl. No.7.3.4) |
| 1356 | ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Instrument Transformer(Current transformer) | verification of marking | IS 16227(Part-2 ,Cl. No.7.3.6) |
| 1357 | ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Instrument Transformer(Current transformer) | Verification of the degree of protection by enclosures | IS 16227(Part-2, Cl. No.7.2.7) |
| 1358 | ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Instrument Transformer(Potential Transformer) | Corrosion Test | IS 16227 (Part-3 ,Cl. 7.4.9) |
| 1359 | ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Instrument Transformer(Potential Transformer) | Mechanical test | IS 16227 (Part-3 ,Cl. 7.4.5) |
| 1360 | ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Instrument Transformer(Potential Transformer) | Power-frequency voltage withstands tests between sections | IS 16227 (Part-3 ,Cl. 7.3.3) |

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|---|---|---|---|---|
| 1361 | ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Instrument Transformer(Potential Transformer) | Power-frequency voltage withstands tests on primary terminals | IS 16227 (Part-3 ,Cl. 7.3.1) |
| 1362 | ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Instrument Transformer(Potential Transformer) | Power-frequency voltage withstand tests on secondary terminals | IS 16227 (Part-3 ,Cl. 7.3.4) |
| 1363 | ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Instrument Transformer(Potential Transformer) | Temperature rise test | IS 16227(Part-3 ,Cl. 7.2.2) |
| 1364 | ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Instrument Transformer(Potential Transformer) | Verification of marking | IS 16227 (Part-3 ,Cl. 7.3.6) |
| 1365 | ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Instrument Transformer(Potential Transformer) | Verification of the degree of protection by enclosures | IS 16227 (Part-3 ,Cl. 7.2.7) |
| 1366 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | External forces – windows & covers | IEC 60065 (Clause-8.12,8.13) |
| 1367 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | External forces – windows & covers | IS 616 (Clause-8.12,8.13) |
| 1368 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus – Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Markings and Instructions | IEC 60065 (Clause-5) |

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|---|---|---|---|---|
| 1369 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Antenna coaxial sockets Mounted on apparatus | IEC 60065(Clause-12.5) |
| 1370 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Antenna coaxial sockets Mounted on apparatus | IS 616(Clause-12.5) |
| 1371 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Apparatus containing coin/button cell batteries | IEC 60065(Clause-12.7) |
| 1372 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Apparatus containing coin/button cell batteries | IS 616(Clause-12.7) |
| 1373 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Clearances and creepage distances | IEC 60065(Clause-13) |
| 1374 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Clearances and creepage distances | IS 616(Clause-13) |

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|---|---|---|---|---|
| 1375 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Components | IS 616(Clause-14) |
| 1376 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Conductive Parts | IEC 60065 (Clause-8.1) |
| 1377 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Drawers | IEC 60065(Clause-12.4) |
| 1378 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Electric shock hazard under normal operating conditions | IEC 60065(Clause-9) |
| 1379 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Electric shock hazard under normal operating conditions | IS 616(Clause-9) |
| 1380 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Electrical connections and mechanical fixings | IEC 60065(Clause-17) |

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| 1381 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Electrical connections and mechanical fixings | IS 616(Clause-17) |
| 1382 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | External flexible cords | IEC 60065(Clause-16) |
| 1383 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | External flexible cords | IS 616(Clause-16) |
| 1384 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Fault conditions | IEC 60065(Clause-11) |
| 1385 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Fault conditions | IS 616(Clause-11) |
| 1386 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Fixing of actuating elements | IEC 60065(Clause-12.2) |

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| 1387 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Heating under normal operating conditions | IS 616(Clause-7) |
| 1388 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Heating under normal operating conditions | IEC 60065 (Clause-7) |
| 1389 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Horizontal force test | IEC60065(Clause-19.4) |
| 1390 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Horizontal force test | IS 616(Clause-19.4) |
| 1391 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Humidity treatment | IEC 60065(Clause-10.3) |
| 1392 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Humidity treatment | IS 616(Clause-10.3) |

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| 1393 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Hygroscopic materials | IS 616(Clause-8.3) |
| 1394 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Insulation of Internal wiring | IEC 60065 (Clause-8.9) |
| 1395 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Insulation of Internal wiring | IS 616(Clause-8.9) |
| 1396 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Insulation resistance and Dielectric strength | IEC 60065(Clause-10.4) |
| 1397 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Insulation resistance and Dielectric strength | IS 616(Clause-10.4) |
| 1398 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Internal forces | IEC 60065 (Clause-8.14) |

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| 1399 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Internal forces | IS 616(Clause-8.14) |
| 1400 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Mains switch | IS 616(Clause-.8.18, 8.19) |
| 1401 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Mains switch, | IEC 60065 (Clause-.8.18, 8.19) |
| 1402 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Markings and Instructions | IS 616(Clause-5) |
| 1403 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Mechanical strength Bump test | IEC 60065(Clause-12.1.2) |
| 1404 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Mechanical strength Bump test | IS 616(Clause-12.1.2) |

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|---|---|---|---|---|
| 1405 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Mechanical strength Drop test | IEC 60065(Clause-12.1.5) |
| 1406 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Mechanical strength Impact test | IEC 60065(Clause-12.1.4) |
| 1407 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Mechanical strength Stress relief | IEC 60065(Clause-12.1.6) |
| 1408 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Mechanical strength Vibration test | IEC 60065(Clause-12.1.3) |
| 1409 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Mechanical strength Vibration test | IS 616(Clause-12.1.3) |
| 1410 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Mechanical strength Impact test | IS 616(Clause-12.1.4) |

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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 |
|---|---|---|---|---|
| 1411 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Mechanical strength Stress relief | IS 616(Clause-12.1.6) |
| 1412 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Non-separable thin sheet material | IS 616(Clause-8.21) |
| 1413 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Remote control device held in hand | IEC 60065(Clause-12.3) |
| 1414 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Resistance to Fire | IEC 60065(Clause-20) |
| 1415 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Resistance to Fire | IS 616(Clause-20) |
| 1416 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Stability requirements | IEC 60065(Clause-19.1) |

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|---|---|---|---|
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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 |
|---|---|---|---|---|
| 1417 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Stability requirements | IS 616(Clause-19.1) |
| 1418 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Supply apparatus for general Use | IEC 60065(Clause-8.15) |
| 1419 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Supply apparatus for general Use | IS 616 (Clause-8.15) |
| 1420 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Surge test | IEC 60065(Clause-10.2) |
| 1421 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Surge test | IS 616(Clause-10.2) |
| 1422 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Telescoping or rod antennas | IEC 60065(Clause-12.6) |

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|---|---|---|---|
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|---|---|---|---|---|
| 1423 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Telescoping or rod antennas | IS 616(Clause-12.6) |
| 1424 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Terminals | IEC 60065(Clause-15) |
| 1425 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Terminals | IS 616(Clause-15) |
| 1426 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Test at 10° to the horizontal | IEC 60065(Clause-19.2) |
| 1427 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Test at 10° to the horizontal | IS 616(Clause-19.2) |
| 1428 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Vertical force test | IEC60065 (Clause-19.3) |

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| 1429 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Wall or Ceiling Mounting means | IEC 60065(Clause-19.7) |
| 1430 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Wall or Ceiling Mounting means | IS616(Clause-19.7) |
| 1431 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Winding insulation test | IEC 60065(Clause-8.8) |
| 1432 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Winding insulation test | IS 616(Clause-8.8) |
| 1433 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Components(Only Visual chec,k) | IEC 60065(Clause-14) |
| 1434 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Conductive Parts | IS 616 (Clause-8.1) |

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| 1435 | ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES | Audio, Video and Similar Electronic Apparatus Safety Requirements Electronic Games(video), Plasma/LCD/LED Television, Optical disc players, Amplifier, Electronic Musical system, Power adapters, Wireless headphone and Earphone, Wireless microphone, video camera, webcam, Smart speakers(with and without display) Bluetooth speakers | Hygroscopic materials | IEC 60065(Clause-8.3) |
| 1436 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Drop test | JSS 55555 |
| 1437 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Dry Heat Test | IEC 60068(Part-2,Sec-2) |
| 1438 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Dust Test | QM 333/Issue-2 |
| 1439 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | High Temperature (Dry Heat Cycle) Test | QM 333/Issue-2 |
| 1440 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Ball Pressure Test | IEC60695-10-2 |
| 1441 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Cold Test | IS 9000(Part-2/sec.1 to 4) |
| 1442 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Damp Heat Steady State | IEC60068(Part-2,Sec-78) |
| 1443 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Damp Heat Steady State | IS:9000 (Part-4) |
| 1444 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Damp Heat Steady State | JSS 55555 |
| 1445 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Damp Heat Steady State | QM 333/Issue-2 |
| 1446 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Degree of Protection Provided by Enclosures (IP Code) | IS 60529 |

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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 |
|---|---|---|---|---|
| 1447 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Degree of Protection Provided by Enclosures (IP Code) | IEC 60529 |
| 1448 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Degree of Protection Provided by Enclosures (IP Code) | IEC 60529 |
| 1449 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Degree of Protection Provided by Enclosures (IP Code) | IS 12063 |
| 1450 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Drop test | QM 333/Issue-2 |
| 1451 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Dry Heat Test | IS 9000(Part-3,sec.1 to 5) |
| 1452 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Dust test | IS 9000 (Part XII) |
| 1453 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Flammability Test | UL 94 (V-0, V-1, V-2, HB) |
| 1454 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Free Fall | QM 333/Issue-2 |
| 1455 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Glow Wire test | IEC60695-2-10/11/12/13 |
| 1456 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Glow Wire test | IS 11000(Part-2,Sec-1) |
| 1457 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | High Temperature Test | JSS 55555 |
| 1458 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Low Temperature (Cold Cycle) | QM 333/Issue-2 |
| 1459 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Low Temperature Test | JSS 55555 |
| 1460 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Needle Flame Test | IEC60695-11-5 |

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|---|---|---|---|---|
| 1461 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Needle Flame Test | IS 11000(Part-2,Sec-2) |
| 1462 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Robustness of Termination Test | IEC60068-2-21 |
| 1463 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Robustness of Termination Test | IS 9000 ( Part- 19.Sec-1 to5) |
| 1464 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Salt Mist Test | JSS 55555 |
| 1465 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Salt Mist Test | QM 333/Issue-2 |
| 1466 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Topple | JSS 55555 |
| 1467 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Topple | QM 333/Issue-2 |
| 1468 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Tropical Exposure (Damp Heat Cyclic Test) | IEC60068(Part-2,Sec-30) |
| 1469 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Tropical Exposure (Damp Heat Cyclic Test) | IS: 9000 (Part-5,Sec-1 &1 2) |
| 1470 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Tropical Exposure (Damp Heat Cyclic Test) | JSS 55555 |
| 1471 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Tropical Exposure (Damp Heat Cyclic Test) | QM 333/Issue-2 |
| 1472 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Vibration /Shock/ bump Test | IEC 60571 |
| 1473 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Vibration Test | BS EN50155 |
| 1474 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Vibration Test | IEC 60068-2 |

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|---|---|---|---|---|
| 1475 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Vibration Test | IEC 61373 |
| 1476 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Vibration Test | IS 9000(Part-8) |
| 1477 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Vibration Test | JSS 55555 |
| 1478 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Vibration Test | QM 333/Issue-2 |
| 1479 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Water Immersion test | JSS 55555 |
| 1480 | ELECTRONICS-ENVIRONMENTAL TEST FACILITY | Environmental Test | Water Immersion test | QM 333/Issue-2 |
| 1481 | ELECTRONICS- IT EQUIPMENT | Audio/video, information and communication technology equipment Part 1: Safety requirements | Coin/button cell batteries | IEC 62368(Part-1)(Clause -4.8) |
| 1482 | ELECTRONICS- IT EQUIPMENT | Audio/video, information and communication technology equipment Part 1: Safety requirements | Equipment for direct insertion into mains socket-outlet | IEC 62368(Part-1)(Clause -4.7) |
| 1483 | ELECTRONICS- IT EQUIPMENT | Audio/video, information and communication technology equipment Part 1: Safety requirements | Antenna terminal insulation | IEC 62368 (Part-1) (Clause.5.4.5) |
| 1484 | ELECTRONICS- IT EQUIPMENT | Audio/video, information and communication technology equipment Part 1: Safety requirements | Bottom openings and Bottom openings properties | IEC 62368 (Part-1) (Clause.6.4.8.3.4) |
| 1485 | ELECTRONICS- IT EQUIPMENT | Audio/video, information and communication technology equipment Part 1: Safety requirements | Capacitor discharge | IEC 62368 (Part-1) (Clause.5.5.2.2) |
| 1486 | ELECTRONICS- IT EQUIPMENT | Audio/video, information and communication technology equipment Part 1: Safety requirements | Carts, stands and similar carriers | IEC 62368 (Part-1) (Clause.8.10) |
| 1487 | ELECTRONICS- IT EQUIPMENT | Audio/video, information and communication technology equipment Part 1: Safety requirements | Classification and limits of electrical energy sources | IEC 62368(Part-1)(Clause -5.2) |
| 1488 | ELECTRONICS- IT EQUIPMENT | Audio/video, information and communication technology equipment Part 1: Safety requirements | Clearances | IEC 62368 (Part-1) (Clause.5.4.2) |
| 1489 | ELECTRONICS- IT EQUIPMENT | Audio/video, information and communication technology equipment Part 1: Safety requirements | Creepage distances | IEC 62368 (Part-1) (Clause.5.4.3) |
| 1490 | ELECTRONICS- IT EQUIPMENT | Audio/video, information and communication technology equipment Part 1: Safety requirements | Determination of working voltage | IEC 62368 (Part-1) (Clause.5.4.1.8) |
| 1491 | ELECTRONICS- IT EQUIPMENT | Audio/video, information and communication technology equipment Part 1: Safety requirements | Electric strength | IEC 62368 (Part-1) (Clause.5.4.9) |

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| 1492 | ELECTRONICS- IT EQUIPMENT | Audio/video, information and communication technology equipment Part 1: Safety requirements | Energy Source Classifications | IEC 62368(Part-1)(Clause -4.2) |
| 1493 | ELECTRONICS- IT EQUIPMENT | Audio/video, information and communication technology equipment Part 1: Safety requirements | Equipment having an Electro-mech. device for destruction of media | IEC 62368 (Part-1) (Clause.8.5.4.3) |
| 1494 | ELECTRONICS- IT EQUIPMENT | Audio/video, information and communication technology equipment Part 1: Safety requirements | Equipment mounted to a wall or ceiling or other structure | IEC 62368 (Part-1) (Clause.8.7) |
| 1495 | ELECTRONICS- IT EQUIPMENT | Audio/video, information and communication technology equipment Part 1: Safety requirements | Fixing of conductors | IEC 62368(Part-1)(Clause -4.6) |
| 1496 | ELECTRONICS- IT EQUIPMENT | Audio/video, information and communication technology equipment Part 1: Safety requirements | General | IEC 62368(Part-1)(Clause -4.1) |
| 1497 | ELECTRONICS- IT EQUIPMENT | Audio/video, information and communication technology equipment Part 1: Safety requirements | Glass slide test | IEC 62368 (Part-1) (Clause.8.6.4) |
| 1498 | ELECTRONICS- IT EQUIPMENT | Audio/video, information and communication technology equipment Part 1: Safety requirements | Handle strength | IEC 62368 (Part-1) (Clause.8.8) |
| 1499 | ELECTRONICS- IT EQUIPMENT | Audio/video, information and communication technology equipment Part 1: Safety requirements | Horizontal force test and compliance criteria | IEC 62368 (Part-1) (Clause.8.6.5) |
| 1500 | ELECTRONICS- IT EQUIPMENT | Audio/video, information and communication technology equipment Part 1: Safety requirements | Humidity Treatment | IEC 62368 (Part-1) (Clause.5.4.8) |
| 1501 | ELECTRONICS- IT EQUIPMENT | Audio/video, information and communication technology equipment Part 1: Safety requirements | Insulating surface | IEC 62368 (Part-1) (Clause.5.4.1.4) |
| 1502 | ELECTRONICS- IT EQUIPMENT | Audio/video, information and communication technology equipment Part 1: Safety requirements | Max. operating temperatures for materials, components and systems | IEC 62368 (Part-1) (Clause.5.4.1.4) |
| 1503 | ELECTRONICS- IT EQUIPMENT | Audio/video, information and communication technology equipment Part 1: Safety requirements | Mechanical energy source classifications | IEC 62368 (Part-1) (Clause.8.2) |
| 1504 | ELECTRONICS- IT EQUIPMENT | Audio/video, information and communication technology equipment Part 1: Safety requirements | Mounting means for slide-rail mounted equipment | IEC 62368 (Part-1) (Clause.8.11) |
| 1505 | ELECTRONICS- IT EQUIPMENT | Audio/video, information and communication technology equipment Part 1: Safety requirements | Pollution Degree | IEC 62368 (Part-1) (Clause.5.4.1.5) |
| 1506 | ELECTRONICS- IT EQUIPMENT | Audio/video, information and communication technology equipment Part 1: Safety requirements | Power source circuit classification | IEC 62368 (Part-1) (Clause.6.2.2) |
| 1507 | ELECTRONICS- IT EQUIPMENT | Audio/video, information and communication technology equipment Part 1: Safety requirements | Prospective touch voltage, touch current & protect. Conductor current | IEC 62368 (Part-1) (Clause.5.7) |
| 1508 | ELECTRONICS- IT EQUIPMENT | Audio/video, information and communication technology equipment Part 1: Safety requirements | Protection against energy sources | IEC 62368(Part-1)(Clause -4.3) |
| 1509 | ELECTRONICS- IT EQUIPMENT | Audio/video, information and communication technology equipment Part 1: Safety requirements | protective conductors | IEC 62368 (Part-1) (Clause.5.4.4) |

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|---|---|---|---|---|
| 1510 | ELECTRONICS- IT EQUIPMENT | Audio/video, information and communication technology equipment Part 1: Safety requirements | Safeguard against part with sharp edges and corners | IEC 62368 (Part-1) (Clause.8.4) |
| 1511 | ELECTRONICS- IT EQUIPMENT | Audio/video, information and communication technology equipment Part 1: Safety requirements | Safeguards | IEC 62368(Part-1)(Clause -4.1) |
| 1512 | ELECTRONICS- IT EQUIPMENT | Audio/video, information and communication technology equipment Part 1: Safety requirements | Safeguards against transient voltages from external circuits | IEC 62368 (Part-1) (Clause.5.4.10) |
| 1513 | ELECTRONICS- IT EQUIPMENT | Audio/video, information and communication technology equipment Part 1: Safety requirements | Separation between external circuits and earth | IEC 62368 (Part-1) (Clause.5.4.11) |
| 1514 | ELECTRONICS- IT EQUIPMENT | Audio/video, information and communication technology equipment Part 1: Safety requirements | Static stability Test | IEC 62368 (Part-1) (Clause.8.6.2) |
| 1515 | ELECTRONICS- IT EQUIPMENT | Audio/video, information and communication technology equipment Part 1: Safety requirements | Thermal burn injury | IEC 62368(Part-1)(Clause -9): |
| 1516 | ELECTRONICS- IT EQUIPMENT | Audio/video, information and communication technology equipment Part 1: Safety requirements | Top openings and top openings properties | IEC 62368 (Part-1) (Clause.6.4.8.3.3): |
| 1517 | ELECTRONICS- IT EQUIPMENT | Audio/video, information and communication technology equipment Part 1: Safety requirements | Wheels or casters attachment requirement | IEC 62368 (Part-1) (Clause.8.9) |
| 1518 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc | Electric strength | IS:13252(Part-1) (Clause. 5.2) : 2010 +A1: 2013+ A2 |

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|---|---|---|---|---|
| 1519 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc | Protection against hazardous moving parts | IS:13252(Part-1) (Clause.4.4) : 2010 +A1: 2013+ A2 |
| 1520 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc | Thermal requirements | IEC 60950(Part-1): 2005+ A1: 2009+ A2:2013, (Clause.4.5) |
| 1521 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Adjustable controls | IEC 60950(Part-1): 2005+ A1: 2009+ A2(Clause 4.3.3) |

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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 |
|---|---|---|---|---|
| 1522 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Clearances, Creepage distance and distances through insulation | IEC 60950(Part-1): 2005+ A1: 2009+ A2(Clause 2.10) |
| 1523 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Clearances, Creepage distance and distances through insulation | IS: 13252(Part-1)(Clause 2.10) : 2010 +A1: 2013+ A2 |
| 1524 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Connections by plug and sockets | IEC 60950(Part-1): 2005+ A1: 2009+ A2(Clause 4.3.5) |

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|---|---|---|---|---|
| 1525 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Connections by plug and sockets | IS: 13252(Part-1) ) (Clause 4.3.5) : 2010 +A1: 2013+ A2 |
| 1526 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Direct plug-in equipment | IEC 60950(Part-1): 2005+ A1: 2009+ A2(Clause.4.3.6) |
| 1527 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Direct plug-in equipment | IS:13252(Part-1) (Clause.4.3.6): 2010 +A1: 2013+ A2 |

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|---|---|---|---|---|
| 1528 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Limited Current Circuits | IEC 60950(Part-1): 2005+ A1: 2009+ A2 |
| 1529 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Limited Current Circuits | IS:13252(Part-1) (Clause. 2.4) : 2010 +A1: 2013+ A2 |
| 1530 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Resistance to Fire | IEC 60950(Part-1): 2005+ A1: 2009+ A2 (Clause 4.7) |

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|---|---|---|---|---|
| 1531 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Resistance to Fire | IS: 13252(Part-1) (Clause 4.7) : 2010 +A1: 2013+ A2 |
| 1532 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Securing of parts | IS: 13252(Part-1) Clause 4.3.4) : 2010 +A1: 2013+ A2 |
| 1533 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Wiring Terminals for connections of External Conductors | IEC 60950(Part-1): 2005+ A1: 2009+ A2(Clause 3.3) |

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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 |
|---|---|---|---|---|
| 1534 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Wiring Terminals for connections of External Conductors | IS:13252(Part-1) (Clause 3.3) : 2010 +A1: 2013+ A2 |
| 1535 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Power Interface | IS: 13252(Part-1) (Clause. 1.6): 2010 +A1: 2013+ A2 |
| 1536 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Adjustable controls | IS: 13252(Part-1) )(Clause 4.3.3) : 2010 +A1: 2013+ A2 |

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| 1537 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Battery Compartments | IEC 60950(Part-1): 2005+ A1: 2009+ A2(Clause. 2.1.1.2) |
| 1538 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Battery Compartments | IS: 13252(Part-1) (Clause. 2.1.1.2) : 2010 +A1: 2013+ A2 |
| 1539 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Components | IS:13252(Part-1) (Clause-1.5) : 2010 +A1: 2013+ A2 |

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|---|---|---|---|---|
| 1540 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Connection to cable distribution systems | IEC 60950(Part-1): 2005+ A1: 2009+ A2(Clause.7) |
| 1541 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Connection to cable distribution systems | IS:13252(Part-1) (Clause. 7) : 2010 +A1: 2013+ A2 |
| 1542 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Connection to telecommunication networks | IEC 60950(Part-1): 2005+ A1: 2009+ A2 |

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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 |
|---|---|---|---|---|
| 1543 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Connection to telecommunication networks | IS:13252(Part-1) (Clause. 6) : 2010 +A1: 2013+ A2 |
| 1544 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Connections by plug and sockets | IEC 60950(Part-1): 2005+ A1: 2009+ A2(Clause 4.3.5) |
| 1545 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Connections to Mains Supply | IEC 60950(Part-1): 2005+ A1: 2009+ A2(Clause.3.2) |

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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 |
|---|---|---|---|---|
| 1546 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Connections to Mains Supply | IS:13252(Part-1) (Clause 3.2) : 2010 +A1: 2013+ A2 |
| 1547 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Discharge of Capacitors in equipment | IEC 60950(Part-1): 2005+ A1: 2009+ A2 |
| 1548 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Discharge of Capacitors in equipment | IS:13252(Part-1) : 2010 +A1: 2013+ A2 Clause. 2.1.1.7) |

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|---|---|---|---|---|
| 1549 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Disconnections from The Mains Supply | IEC 60950(Part-1): 2005+ A1: 2009+ A2(Clause 3.4) |
| 1550 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Disconnections from The Mains Supply | IS: 13252(Part-1)(Clause 3.4): 2010 +A1: 2013+ A2 |
| 1551 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Electric strength | IEC 60950(Part-1): 2005+ A1: 2009+ A2 (Clause. 5.2) |

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| 1552 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Electrical Insulation | IEC 60950(Part-1): 2005+ A1: 2009+ A2 (Clause. 2.9) |
| 1553 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Electrical Insulation | IS:13252(Part-1) (Clause. 2.9): 2010 +A1: 2013+ A2 |
| 1554 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Energy Hazard | IEC 60950(Part-1): 2005+ A1: 2009+ A2 (Clause. 2.1.1.5) |

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| 1555 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Energy Hazard | IS: 13252(Part-1) : 2010 +A1: 2013+ A2(Clause. 2.1.1.5) |
| 1556 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Handles and manual controls | IEC 60950(Part-1): 2005+ A1: 2009+ A2(Clause 4.3.2) |
| 1557 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Handles and manual controls | IS:13252(Part-1) (Clause 4.2) : 2010 +A1: 2013+ A2 |

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| 1558 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Handles and manual controls | IS:13252(Part-1) (Clause 4.3.2) : 2010 +A1: 2013+ A2 |
| 1559 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Heating element in earth equipment | IEC 60950(Part-1): 2005+ A1: 2009+ A2(Clause.4.3.7) |
| 1560 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Interconnection of Equipment | IEC 60950(Part-1): 2005+ A1: 2009+ A2 (Clause 3.5) |

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| 1561 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Interconnection of Equipment | IS: 13252(Part-1) (Clause 3.5) : 2010 +A1: 2013+ A2 |
| 1562 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Limited Power Sources | IEC 60950(Part-1): 2005+ A1: 2009+ A2(Clause. 2.5) |
| 1563 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Limited Power Sources | IS:13252(Part-1) (Clause. 2.5) : 2010 +A1: 2013+ A2 |

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| 1564 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Manual Controls | IEC 60950(Part-1): 2005+ A1: 2009+ A2(Clause. 2.1.1.6) |
| 1565 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Manual Controls | IS: 13252(Part-1) : 2010 +A1: 2013+ A2(Clause. 2.1.1.6) |
| 1566 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Markings and Instructions | IEC 60950(Part-1): 2005+ A1: 2009+ A2(Clause.1.7) |

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| 1567 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Markings and Instructions | IS:13252(Part-1) (Clause.1.7) : 2010 +A1: 2013+ A2 |
| 1568 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Mechanical Strength | IEC 60950(Part-1): 2005+ A1: 2009+ A2 (Clause 4.2) |
| 1569 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Openings of Enclosure | IEC 60950(Part-1): 2005+ A1: 2009+ A2 (Clause 4.6) |

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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 |
|---|---|---|---|---|
| 1570 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Openings of Enclosure | IS:13252(Part-1) (Clause 4.6) : 2010 +A1: 2013+ A2 |
| 1571 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Over current And Earth Fault Protection in Primary Circuit | IEC 60950(Part-1): 2005+ A1: 2009+ A2 (Clause. 2.7) |
| 1572 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Over current And Earth Fault Protection in Primary Circuit | IS:13252(Part-1) (Clause. 2.7) : 2010 +A1: 2013+ A2 |

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|---|---|---|---|
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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 |
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| 1573 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Physical Requirements - Stability | IEC 60950(Part-1): 2005+ A1: 2009+ A2 (Clause 4.1) |
| 1574 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Physical Requirements - Stability | IS:13252(Part-1) (Clause 4.1) : 2010 +A1: 2013+ A2 |
| 1575 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Power Interface | IEC 60950(Part-1): 2005+ A1: 2009+ A2 |

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|---|---|---|---|
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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 |
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| 1576 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Protection against hazardous moving parts | IEC 60950(Part-1): 2005+ A1: 2009+ A2 (Clause.4.4) |
| 1577 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Protection from Electric Shock and Energy Hazards | IEC 60950(Part-1): 2005+ A1: 2009+ A2(Clause. 2.1.1.1) |
| 1578 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Protection from Electric Shock and Energy Hazards | IS:13252(Part-1) (Clause. 2.1.1.1) : 2010 +A1: 2013+ A2 |

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| 1579 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Protection in Service access areas | IEC 60950(Part-1): 2005+ A1: 2009+ A2 |
| 1580 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Protection in Service access areas | IS:13252(Part-1) (Clause. 2.1.2) : 2010 +A1: 2013+ A2 |
| 1581 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Provision for Earthing & Bonding | IEC 60950(Part-1): 2005+ A1: 2009+ A2 |

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| 1582 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Provision for Earthing & Bonding | IS:13252(Part-1) (Clause. 2.6) : 2010 +A1: 2013+ A2 |
| 1583 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Securing of parts | IEC 60950(Part-1): 2005+ A1: 2009+ A2 (Clause. 2.2) |
| 1584 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Securing of parts | IS: 13252(Part-1) Clause 4.3.4) : 2010 +A1: 2013+ A2 |

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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 |
|---|---|---|---|---|
| 1585 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | SELV Circuits | IEC 60950(Part-1): 2005+ A1: 2009+ A2 |
| 1586 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | SELV Circuits | IS:13252(Part-1) (Clause. 2.2) : 2010 +A1: 2013+ A2 |
| 1587 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Thermal requirements | IS:13252(Part-1) (Clause.4.5) : 2010 +A1: 2013+ A2 |

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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 |
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| 1588 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | TNV Circuits | IEC 60950(Part-1): 2005+ A1: 2009+ A2 |
| 1589 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | TNV Circuits | IS:13252(Part-1) (Clause. 2.3): 2010 +A1: 2013+ A2 |
| 1590 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Touch current and protective conductor current | IEC 60950(Part-1): 2005+ A1: 2009+ A2(Clause. 5.1) |

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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 |
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| 1591 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Touch current and protective conductor current | IS:13252(Part-1) (Clause. 5.1) : 2010 +A1: 2013+ A2 |
| 1592 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Wiring Connection and Supply General | IEC 60950: 2005+ A1:2009+A2(Clause 3.1) |
| 1593 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Wiring Connection and Supply General | IS 13252(Part 1)(Clause 3.1):2010 +A1:2013+A2 |

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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 |
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| 1594 | ELECTRONICS- IT EQUIPMENT | Information Technology Equipment-Safety (General Requirements) Laptop, desktop computer, Notebook, Tablets, Mobile Phone, Cash Resister, Smart card readers, Mail Processing machine, Postage machine, Passport reader, Power bank, Point of sale Terminals, visual display units, video Monitors, Printer, Plotter, scanner, Coping machine, Wireless keyboard, keyboard, telephone Answering machine, Set top box, USB type external solid-state storage device, USB type external hard disk drive, Automatic Data processing machine, Power adaptor, Standalone switch mode power supplies(SMPS), CCTV cameras, Digital camera, CCTV Recorder, USB Driven barcode readers, barcode scanner, Iris scanner, optical fingerprint scanner, Smart watch, Automatic Teller cash dispensing machine, server etc. | Components | IEC 60950(Part-1): 2005+ A1: 2009+ A2(Clause-1.5) |
| 1595 | ELECTRONICS- IT EQUIPMENT | Mobile Phone Handsets Part 3 Indian Language Support for Mobile Phone Handsets Specific Requirements | Marking | IS 16333 (Part 3)(Clause no.- 6) |
| 1596 | ELECTRONICS- IT EQUIPMENT | Mobile Phone Handsets Part 3 Indian Language Support for Mobile Phone Handsets – Specific Requirements | Inputting of text | IS 16333 (Part 3)(Clause no.- 5.1) |
| 1597 | ELECTRONICS- IT EQUIPMENT | Mobile Phone Handsets Part 3 Indian Language Support for Mobile Phone Handsets – Specific Requirements | Message readability | IS 16333 (Part 3)(Clause no.- 5.2) |
| 1598 | ELECTRONICS- IT EQUIPMENT | Railway Application- Electronic Equipment used in Rolling Stock | Cold Start Test | IEC 60571(Clause no.12.2.4) |
| 1599 | ELECTRONICS- IT EQUIPMENT | Railway Application- Electronic Equipment used in Rolling Stock | Damp heat Cyclic Test | IEC 60571(Clause no.12.2.6) |
| 1600 | ELECTRONICS- IT EQUIPMENT | Railway Application- Electronic Equipment used in Rolling Stock | Dry heat Test | IEC 60571(Clause no.12.2.5) |
| 1601 | ELECTRONICS- IT EQUIPMENT | Railway Application- Electronic Equipment used in Rolling Stock | Equipment Stress Screening Test | BS EN 50155 Clause no.13.4.13) |
| 1602 | ELECTRONICS- IT EQUIPMENT | Railway Application- Electronic Equipment used in Rolling Stock | Insulation Test | IEC 60571 (Clause no. 12.2.10, 12.2.10.1, 12.2.10.2, 12.2.10.3) |
| 1603 | ELECTRONICS- IT EQUIPMENT | Railway Application- Electronic Equipment used in Rolling Stock | Low Temperature storage Test | IEC 60571 Clause no.12.2.15) |
| 1604 | ELECTRONICS- IT EQUIPMENT | Railway Application- Electronic Equipment used in Rolling Stock | Performance Test | IEC 60571(Clause no.12.2.3) |
| 1605 | ELECTRONICS- IT EQUIPMENT | Railway Application- Electronic Equipment used in Rolling Stock | Salt Mist Test | IEC 60571 Clause no.12.2.11) |
| 1606 | ELECTRONICS- IT EQUIPMENT | Railway Application- Electronic Equipment used in Rolling Stock | Supply Overvoltage’s Test | IEC 60571(Clause no.12.2.7) |
| 1607 | ELECTRONICS- IT EQUIPMENT | Railway Application- Electronic Equipment used in Rolling Stock | Vibration, Shock and and Bump Test | IEC 60571 Clause no.12.2.12) |

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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 |
|---|---|---|---|---|
| 1608 | ELECTRONICS- IT EQUIPMENT | Railway Application- Electronic Equipment used in Rolling Stock | Visual Inspection | IEC 60571(Clause no. 12.2.2) |
| 1609 | ELECTRONICS- IT EQUIPMENT | Railway Application- Electronic Equipment used in Rolling Stock | Watertightness Test | IEC 60571 Clause no.12.2.13) |
| 1610 | ELECTRONICS- IT EQUIPMENT | Railway Application-Rolling Stock-Electronic Equipment | Cyclic damp heat Test | BS EN 50155(Clause-13.4.7,4.3.2,4.3.7) |
| 1611 | ELECTRONICS- IT EQUIPMENT | Railway Application-Rolling Stock-Electronic Equipment | Dry heat Test | BS EN 50155(Clause-13.4.5,4.3.2,4.3.3) |
| 1612 | ELECTRONICS- IT EQUIPMENT | Railway Application-Rolling Stock-Electronic Equipment | Enclosure Protection Test (IP Code) | BS EN 50155(Clause-13.4.12,4.1) |
| 1613 | ELECTRONICS- IT EQUIPMENT | Railway Application-Rolling Stock-Electronic Equipment | Equipment Stress Screening Test | BS EN 50155(Clause- 13.4.13) |
| 1614 | ELECTRONICS- IT EQUIPMENT | Railway Application-Rolling Stock-Electronic Equipment | Insulation Test | BS EN 50155: (Clause-13.4.9,5.2.6,13.4.9.2,13.4.9.3) |
| 1615 | ELECTRONICS- IT EQUIPMENT | Railway Application-Rolling Stock-Electronic Equipment | Low Temperature Start-up Test | BS EN 50155(Clause- 13.4.4, 4.3.2) |
| 1616 | ELECTRONICS- IT EQUIPMENT | Railway Application-Rolling Stock-Electronic Equipment | Low Temperature storage Test | BS EN 50155(Clause- 13.4.6, 4.1) |
| 1617 | ELECTRONICS- IT EQUIPMENT | Railway Application-Rolling Stock-Electronic Equipment | Performance Test | BS EN 50155 (Clause- 13.4.2, 4.1) |
| 1618 | ELECTRONICS- IT EQUIPMENT | Railway Application-Rolling Stock-Electronic Equipment | Power supply Test | BS EN 50155(Clause- 13.4.3, 5.1) |
| 1619 | ELECTRONICS- IT EQUIPMENT | Railway Application-Rolling Stock-Electronic Equipment | Rapid Temperature Variation Test | BS EN 50155(Clause-13.4.14,4.3.4) |
| 1620 | ELECTRONICS- IT EQUIPMENT | Railway Application-Rolling Stock-Electronic Equipment | Salt Mist Test | BS EN 50155(Clause-13.4.10,4.4.2) |
| 1621 | ELECTRONICS- IT EQUIPMENT | Railway Application-Rolling Stock-Electronic Equipment | Vibration and Shock Test | BS EN 50155(Clause-13.4.11,4.3.5) |
| 1622 | ELECTRONICS- IT EQUIPMENT | Railway Application-Rolling Stock-Electronic Equipment | Visual Inspection | BS EN 50155(Clause- 13.4.1, 4.1) |
| 1623 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Ball Pressure Test | BS EN 61010(Part-1) (Clause: 10.5.3) |
| 1624 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Ball Pressure Test | IEC 61010(Part-1) |
| 1625 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Constructional requirement for protection against electric shock | BS EN 61010(Part-1) (Clause: 6.9) |

# SCOPE OF ACCREDITATION

**Laboratory Name :** BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA

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

**Certificate Number** TC-7253 **Page No** 130 of 132

**Validity** 05/07/2021 to 04/07/2023 **Last Amended on** 05/05/2022

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 1626 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Constructional requirement for protection against electric shock | IEC 61010(Part-1) |
| 1627 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Cord anchorage | BS EN 61010(Part-1) (Clause: 6.10.2.2) |
| 1628 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Cord anchorage | IEC 61010(Part-1) |
| 1629 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Cord entry | BS EN 61010(Part-1) (Clause: 6.10.2.1) |
| 1630 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Cord entry | IEC 61010(Part-1) |
| 1631 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Determination of Accessible parts | BS EN 61010(Part-1) (Clause: 6.2) |
| 1632 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Determination of Accessible parts | IEC 61010(Part-1): |
| 1633 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Disconnection from supply source | BS EN 61010(Part-1) (Clause: 6.11) |
| 1634 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Disconnection from supply source | IEC 61010(Part-1) |
| 1635 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Drop Test | BS EN 61010(Part-1) (Clause: 8.3) |
| 1636 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Drop Test | IEC 61010(Part-1) |
| 1637 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Enclosure rigidity Test | BS EN 61010(Part-1) (Clause: 8.2) |
| 1638 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Enclosure rigidity Test | IEC 61010(Part-1) |
| 1639 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Equipment temperature limits and resistance to heat | BS EN 61010(Part-1) (Clause: 10.1,10.4) |
| 1640 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Equipment temperature limits and resistance to heat | IEC 61010(Part-1) |
| 1641 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Insulation requirements | BS EN 61010(Part-1) (Clause: 6.7) |
| 1642 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Insulation requirements | IEC 61010(Part-1) |
| 1643 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Limited values for accessible parts | IEC 61010(Part-1) |

# SCOPE OF ACCREDITATION

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|---|---|---|---|
| **Laboratory Name :** | BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
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|---|---|---|---|---|
| 1644 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Marking and documentation | BS EN 61010(Part-1) (Clause:5) |
| 1645 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Marking and documentation | IEC 61010(Part-1) |
| 1646 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Moving Parts | BS EN 61010(Part-1) (Clause: 7.3) |
| 1647 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Moving Parts | IEC 61010(Part-1) |
| 1648 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Plugs & Connectors | BS EN 61010(Part-1) (Clause:6.10.3) |
| 1649 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Plugs & Connectors | IEC 61010(Part-1) |
| 1650 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Primary means of protection | IEC 61010(Part-1) |
| 1651 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Procedure for Voltage tests | BS EN 61010(Part-1) (Clause: 6.8) |
| 1652 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Procedure for Voltage tests | IEC 61010(Part-1) |
| 1653 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Protection against the spread of fire | BS EN 61010(Part-1) (Clause: 9) |
| 1654 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Protection against the spread of fire | IEC 61010(Part-1) |
| 1655 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Protective bonding | BS EN 61010(Part-1) (Clause: 6.5.2) |
| 1656 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Protective bonding | IEC 61010(Part-1) |
| 1657 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Provision for lifting carrying | BS EN 61010(Part-1) (Clause: 7.5) |
| 1658 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Provision for lifting carrying | IEC 61010(Part-1) |
| 1659 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Sharp edges | BS EN 61010(Part-1) (Clause: 7.2) |
| 1660 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Sharp edges | IEC 61010(Part-1) |
| 1661 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Single fault test | BS EN 61010(Part-1) (Clause: 4.4.4) |
| 1662 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Single fault test | IEC 61010 (Part-1) |

# SCOPE OF ACCREDITATION

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|---|---|---|---|
| **Laboratory Name :** | BHARTI AUTOMATION PRIVATE LIMITED (A TESTING DIVISION), PLOT NO. 354, SEC. 7, IMT MANESAR, GURGAON, HARYANA, INDIA | | |
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|---|---|---|---|---|
| 1663 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Stability test | BS EN 61010(Part-1) (Clause: 7.4) |
| 1664 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Stability test | IEC 61010(Part-1) |
| 1665 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Stress Relief | BS EN 61010(Part-1) (Clause: 10.5.2) |
| 1666 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Stress Relief | IEC 61010(Part-1) |
| 1667 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Wall mounting | BS EN 61010(Part-1) (Clause: 7.6) |
| 1668 | ELECTRONICS- IT EQUIPMENT | Safety requirements for electrical equipment for measurement, control, and laboratory use | Wall mounting | IEC 61010(Part-1) |