# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** MICRO SMALL AND MEDIUM ENTERPRISES TESTING STATION, MSME DI CAMPUS,GOVERNMENT OF INDIA, MINISTRY OF MSME, RAJAJINAGAR INDUSTRIAL ESTATE, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

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

**Certificate Number** TC-4034 **Page No** 1 of 3

**Validity** 10/11/2021 to 09/11/2023 **Last Amended on** -

| 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 | PVC Cables for working Voltages up to and including 1100V (IS:694 -2010) | Flammability Test | IS 10810(Part-53) |
| 2 | ELECTRICAL- CABLES & WIRES | PVC Cables for working Voltages up to and including 1100V (IS:694 -2010) | Tensile strength for Aluminium | IS:10810 (Part 2) |
| 3 | ELECTRICAL- CABLES & WIRES | PVC Cables for working Voltages upto and including 1100V (IS:694 -2010) | Ageing in air oven( Tensile Strength & Elongation and break) | IS 10810 (Part-11) |
| 4 | ELECTRICAL- CABLES & WIRES | PVC Cables for working Voltages upto and including 1100V (IS:694 -2010) | High Voltage test | IS 10810(Part-45) |
| 5 | ELECTRICAL- CABLES & WIRES | PVC Cables for working Voltages upto and including 1100V (IS:694 -2010) | Hot Deformation test | IS 10810(Part-15) |
| 6 | ELECTRICAL- CABLES & WIRES | PVC Cables for working Voltages upto and including 1100V (IS:694 -2010) | Insulation Resistance test( 500V) | IS 10810(Part-43) |
| 7 | ELECTRICAL- CABLES & WIRES | PVC Cables for working Voltages upto and including 1100V (IS:694 -2010) | Loss of Mass test | IS 10810(Part-10) |
| 8 | ELECTRICAL- CABLES & WIRES | PVC Cables for working Voltages upto and including 1100V (IS:694 -2010) | Overall Dimension & thickness of Insulation | IS 10810(Part-6) |
| 9 | ELECTRICAL- CABLES & WIRES | PVC Cables for working Voltages upto and including 1100V (IS:694 -2010) | Shrinkage test | IS 10810(Part-12) |
| 10 | ELECTRICAL- CABLES & WIRES | PVC Cables for working Voltages upto and including 1100V (IS:694 -2010) | Tensile strength & Elongation at break | IS 10810 (Part-7) |
| 11 | ELECTRICAL- CABLES & WIRES | PVC Cables for working Voltages upto and including 1100V(IS:694 -2010) | Heat Shock test | IS 10810(Part-14) |
| 12 | ELECTRICAL- CABLES & WIRES | PVC Insulated ( Heavy Duty)Electric Cables for working voltages up to 1100V (IS:1554(Part1)-1988 | Conductor Resistance (Copper& Aluminium) | .IS 10810 (Part-5) |
| 13 | ELECTRICAL- CABLES & WIRES | PVC Insulated ( Heavy Duty)Electric Cables for working voltages up to 1100V (IS:1554(Part1)-1988 | Ageing in air oven (Tensile Strength& Elongation) | IS:10810(Part 11) |
| 14 | ELECTRICAL- CABLES & WIRES | PVC Insulated ( Heavy Duty)Electric Cables for working voltages up to 1100V (IS:1554(Part1)-1988 | Wrapping Test (Aluminium) | IS 10810 (Part 4) |
| 15 | ELECTRICAL- CABLES & WIRES | PVC Insulated (heavy duty) Electric cablePVC Insulated ( Heavy Duty)Electric Cables for working voltages up to 1100V (IS:1554(Part1)-1988 | Flammability Test)( physical test for insulation and outer sheath | IS:10810(Part 53) |
| 16 | ELECTRICAL- CABLES & WIRES | PVC Insulated (Heavy Duty) Electric CablePVC Insulated ( Heavy Duty)Electric Cables for working voltages up to 1100V (IS:1554(Part1)-1988 | Resistivity at 20 deg for Armour Wires& Conuctance test armour(Wires &Strips) | IS 10810 (Part-42) |
| 17 | ELECTRICAL- CABLES & WIRES | PVC Insulated (Heavy duty) Electric cablePVC Insulated ( Heavy Duty)Electric Cables for working voltages up to 1100V (IS:1554(Part1)-1988 | Shrinkage Test( Physical Test for Insulation &Outer sheath) | IS:10810(Par-12) |

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| 18 | ELECTRICAL- CABLES & WIRES | PVC Insulated (Heavy duty)Electric cable.PVC Insulated ( Heavy Duty)Electric Cables for working voltages up to 1100V (IS:1554(Part1)-1988 | Hot deformation (Physical test for insulation &outer sheath | IS :10810(Part-15) |
| 19 | ELECTRICAL- CABLES & WIRES | PVC Insulated (Heavy Duty)Electric CablePVC Insulated ( Heavy Duty)Electric Cables for working voltages up to 1100V (IS:1554(Part1)-1988 | Dimenension Thickness & width of Armour(Test for Armoring wires /Strips) | IS 10810( Part- 36)) |
| 20 | ELECTRICAL- CABLES & WIRES | PVC Insulated (Heavy Duty)Electric cablePVC Insulated ( Heavy Duty)Electric Cables for working voltages up to 1100V (IS:1554(Part1)-1988 | High Voltage Test (Water Immersion) | IS 10810(Part 45) |
| 21 | ELECTRICAL- CABLES & WIRES | PVC Insulated (Heavy duty)Electric cablePVC Insulated ( Heavy Duty)Electric Cables for working voltages up to 1100V (IS:1554(Part1)-1988 | Insulation Resistance at 500V DC | IS:10810(Part 43) |
| 22 | ELECTRICAL- CABLES & WIRES | PVC Insulated (Heavy Duty)Electric cablePVC Insulated ( Heavy Duty)Electric Cables for working voltages up to 1100V (IS:1554(Part1)-1988 | Mass of Zinc Coating on Steel Armour (Test for armoring wires& Strips) | IS 10810 (Part-41) |
| 23 | ELECTRICAL- CABLES & WIRES | PVC Insulated (Heavy Duty)Electric cablePVC Insulated ( Heavy Duty)Electric Cables for working voltages up to 1100V (IS:1554(Part1)-1988 | Tensile (Aluminium) | IS:10810(Part-2) |
| 24 | ELECTRICAL- CABLES & WIRES | PVC Insulated (Heavy Duty)Electric cablePVC Insulated ( Heavy Duty)Electric Cables for working voltages up to 1100V (IS:1554(Part1)-1988 | Thickness of Insulation & Sheath | IS 10810 (Part 6) |
| 25 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables for working Voltages upto and including 1100 V (IS:694 -2010) | Annealing test ( For Copper) | IS 10810(Part-1) |
| 26 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables for working Voltages upto and including 1100 V (IS:694 -2010) | Conductor Resistance test(copper & Aluminium) | IS 10810(Part 5) |
| 27 | ELECTRICAL- CABLES & WIRES | PVC Insulated Cables for working Voltages upto and including 1100 V(IS:694 -2010) | Wrapping test(for Aluminium) | IS 10810(Part-3) |
| 28 | ELECTRICAL- CABLES & WIRES | PVC Insulated Heavy Duty)Electric CablePVC Insulated ( Heavy Duty)Electric Cables for working voltages up to 1100V (IS:1554(Part1)-1988 | Torsion on Galvanized Steel wires of armoring | IS 10810 (Part 38) |
| 29 | ELECTRICAL- CABLES & WIRES | PVC Insulated(Heavy duty Electric CablePVC Insulated ( Heavy Duty)Electric Cables for working voltages up to 1100V (IS:1554(Part1)-1988 | Annealing test for ( copper) | IS:10810 (PART -1) |
| 30 | ELECTRICAL- CABLES & WIRES | PVC Insulated(Heavy Duty(Electric CablePVC Insulated ( Heavy Duty)Electric Cables for working voltages up to 1100V (IS:1554(Part1)-1988 | Tensile Test & Elongation break of armoring wires /Strips) | IS 10810 (Part-37)) |
| 31 | ELECTRICAL- CABLES & WIRES | PVC Insulated(Heavy Duty) Electric CablePVC Insulated ( Heavy Duty)Electric Cables for working voltages up to 1100V (IS:1554(Part1)-1988 | Uniformity of Zinc coating on steel Armour | IS 10810 (Part 40) |

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| 32 | ELECTRICAL- CABLES & WIRES | PVC Insulated(Heavy Duty) Electric cablePVC Insulated ( Heavy Duty)Electric Cables for working voltages up to 1100V (IS:1554(Part1)-1988 | Loss of Mass(physical test for Insulation and outer Sheath) | IS 10810(Part10) |
| 33 | ELECTRICAL- CABLES & WIRES | PVC Insulated(Heavy duty)Electric CablePVC Insulated ( Heavy Duty)Electric Cables for working voltages up to 1100V (IS:1554(Part1)-1988 | Heat Shock(physical test for insulation and outer sheath | IS:10810(part 14) |
| 34 | ELECTRICAL- CABLES & WIRES | PVC Insulated(Heavy Duty)Electric CablePVC Insulated ( Heavy Duty)Electric Cables for working voltages up to 1100V (IS:1554(Part1)-1988 | Tensile Strength& Elongation break ( Physical test for Insulation& sheath) | IS:10810(Part-7) |