



### Scope of Accreditation for Testing

As per ISO/IEC 17025:2017

**CAB Name:** Amit test and Calibration Centre **Page No. 1 of 76**  
**Address:** 45/7, Village Prahaladpur Bangar, Rohini sector-30, Near Kali Mata Mandir, New Delhi -110042, Delhi **Issue date : 30.12.2025**  
**Certificate No.:** T-0029 **Validity : 29.12.2029**  
**Amendment date:** N/A

| Sr. No. | Product/ Material to be tested | Parameter/ Type of test/ Properties Measured | Range of measurement/ detection limit | Method/ Technique | Facility |
|---------|--------------------------------|--|---------------------------------------|-------------------|----------|
|---------|--------------------------------|--|---------------------------------------|-------------------|----------|

**Discipline : Electrical, Group: Transmission line equipment and accessories**

|    |  |   |                              |   |           |
|----|--|---|------------------------------|---|-----------|
| 1  | Porcelain Insulators for Overhead Power Lines with a Nominal Voltage Greater than 1000 Volt. 7   | Verification of Dimensions  | Up to 5000 mm                | Cl.10.5 of IS 731 +A7                                   | Permanent |
| 2  |  | Temperature Cycle Test  | Up to 100 °C                 | Cl.10.6 of IS 731 +A7                                   | Permanent |
| 3  |  | Mechanical Performance Test   | Up to1000 kN                 | Cl. 10.9.1 of IS 731 +A7                                | Permanent |
| 4  |  | Thermal-mechanical Performance Test   | -40 to 50 °C, upto 100, KN   | Cl. 10.9.2 of IS 731 +A7                                | Permanent |
| 5  |  | Electro-Mechanical Failing Load Test  | Upto 200 kV<br>Upto 1000 kN  | Cl.10.7 of IS 731 +A7                                   | Permanent |
| 6  |  | Mechanical Failing Load Test  | Up to 1000 kN                | Cl. 10.8 of IS 731 +A7                                  | Permanent |
| 7  |  | Power Frequency Puncture Test   | Up to 200 kV                 | Cl. 10.10.1 of IS 731 +A7                               | Permanent |
| 8  |  | Porosity Test   | Upto 1200 kg/cm <sup>2</sup> | Cl. 10.11 of IS 731 +A7                                 | Permanent |
| 9  |  | Galvanizing Test  | Qualitative                  | Cl. 10.12 of IS 731 +A7<br>(Refer IS 2633 [RA])         | Permanent |
| 10 | Insulators for Overhead Lines - Composite Suspension & Tension Insulators with AC voltage greater than 1000V and DC voltage greater than 1500V | Verification of Dimensions  | Up to 5000 mm                | Cl.11.2 of IEC 61109                                    | Permanent |
| 11 |  | Verification of tightness of the interface between end fittings and insulator housing | Up to 1000 kN                | Cl.11.4 (a) of IEC 61109                                | Permanent |
| 12 |  | Verification of specified mechanical load, SML  | Up to 1000 kN                | Cl.11.4 (b) of IEC 61109                                | Permanent |
| 13 |  | Verification of end fittings  | Up to 1000 kN                | Cl.11.3 of IEC 61109<br>(Refer Cl.22.2 of IEC 60383 -1) | Permanent |
| 14 |  | Minimum sheath thickness  | Up to 150 mm                 | Cl.11.6 of IEC 61109                                    | Permanent |
| 15 |  | Galvanising Test  | Qualitative                  | Cl.11.5 of IEC 61109<br>(IS 2633 (RA))                  | Permanent |
| 16 | Metal Fittings Of Insulators For   | Visual examination  | Qualitative                  | Cl.5, Cl.6 of IS 2486 (Part 1)(Reaffirmed)              | Permanent |



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As per ISO/IEC 17025:2017

**CAB Name:** Amit test and Calibration Centre Page No. 2 of 76  
**Address:** 45/7, Village Prahaladpur Bangar, Rohini sector-30, Near Kali Mata Mandir, New Delhi -110042, Delhi  
**Certificate No.:** T-0029 Issue date : 30.12.2025  
Validity : 29.12.2029  
Amendment date: N/A

| <b>Sr. No.</b> | <b>Product/ Material to be tested</b>   | <b>Parameter/ Type of test/ Properties Measured</b> | <b>Range of measurement/ detection limit</b> | <b>Method/ Technique</b>   | <b>Facility</b> |
|----------------|---|---|--|--|-----------------|
| 17             | Overhead Power Lines With Nominal Voltage Greater Than 1000 V   | Verification of dimensions                          | Up to 5000 mm                                | Cl.8 of IS 2486 (Part 1) (Refer IS 2486 (Part 2) (Reaffirmed))                       | Permanent       |
| 18             |   | Galvanizing test                                    | Qualitative                                  | Cl.9.4 of IS 2486 (Part 1) (Reaffirmed) (Refer IS 2633 [R.A ], IS 4759 : 1986 [R.A]) | Permanent       |
| 19             |   | Mechanical tests (insulator pins)                   | Up to 1000 kN                                | Cl.9.5 of IS 2486 (Part 1) (Reaffirmed)  | Permanent       |
| 20             |   | Slip strength tests (Clamps)                        | Up to 1000 kN                                | Cl.11.1 of IS 2486 (Part 1) (Reaffirmed)   | Permanent       |
| 21             |   | Mechanical Tests (clamps)                           | Up to 1000 kN                                | Cl.11.2 of IS 2486 (Part 1) (Reaffirmed)   | Permanent       |
| 22             |   | Mechanical Routine Test                             | Up to 1000 kN                                | Cl.11.3 of IS 2486 (Part 1) (Reaffirmed)   | Permanent       |
| 23             |   | Electrical resistance test                          | Up to 1.1 ohm                                | Cl.12.1.1 (a) of IS 2486 (Part 1) (Reaffirmed)                                       | Permanent       |
| 24             |   | Heating Cycle test                                  | Up to 2000 A                                 | Cl.12.1.1 (b), Cl.12.1.2 of IS 2486 (Part 1) (Reaffirmed)                            | Permanent       |
| 25             |   | Marking   | Qualitative                                  | Cl.13 of IS 2486 (Part 1) (Reaffirmed)   | Permanent       |
| 26             | Test on Indoor and Outdoor Post Insulators of Ceramic Material or Glass for Systems with Nominal Voltages Greater Than 1000 V | Dry Lightning Impulse Withstand Voltage Test        | Up to 500 kV                                 | Cl.4.5 of IS/IEC 60168 (Refer IEC 60060-1)   | Permanent       |
| 27             |   | Dry Power - Frequency Withstand Voltage Test        | Up to 200 kV                                 | Cl.4.7 of IS/IEC 60168 (Refer IEC 60060-1)   | Permanent       |
| 28             |   | Wet Power - Frequency Withstand Voltage Test        | Up to 200 kV                                 | Cl.4.8 of IS/IEC 60168(Refer IEC 60060-1)  | Permanent       |
| 29             |   | Visible Corona Test                                 | Up to 200 kV                                 | Cl. 10.2 of IS 731: [RA] +A7   | Permanent       |



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|---------|--------------------------------|---|---------------------------------------|---|-----------|
| 30      |                                | Galvanizing test (Coating mass)                 | Up to 500 g/m <sup>2</sup>            | IS 6745                                       | Permanent |
| 31      |                                | Mechanical failing load test (Bending test)     | Upto 1000 kN                          | Cl.5.2.4 of IS/IEC 60168 (Refer IS/IEC 60273) | Permanent |
| 32      |                                | Mechanical failing load test (Torsion test)     | Upto 1000 kN                          | Cl.5.2.5 of IS/IEC 60168                      | Permanent |
| 33      |                                | Mechanical failing load test (Compressive test) | Upto 1000 kN                          | Cl.5.2.7 of IS/IEC 60168                      | Permanent |
| 34      |                                | Temperature Cycle Test                          | Qualitative                           | Cl.5.4 of IS/IEC 60168                        | Permanent |
| 35      |                                | Test of deflection under load                   | Upto 10 mm                            | Cl.5.3 of IS/IEC 60168                        | Permanent |

#### Discipline :- Electrical, Group:- Switchgear and protective equipment

|    |  |                                    |               |  |           |
|----|--|------------------------------------|---------------|--|-----------|
| 36 | High – Voltage Fuses (Part 1 Current - Limiting Fuses) | Dimensions                         | Up to 5000 mm | Cl.5.3 of IS 9385 Part 1                                 | Permanent |
| 37 |  | Lightning Impulse Voltage Dry Test | Upto 500 kV   | Cl.6.4.4 of IS 9385 Part 1 (Refer IEC 60060-1)           | Permanent |
| 38 |  | Power - Frequency Voltage Dry Test | Upto 200 kV   | Cl.6.4. of IS 9385 : Part 1 (Refer IEC 60060-1)          | Permanent |
| 39 |  | Power - Frequency Wet Test         | Upto 200 kV   | Cl.6.4.6 IS 9385: Part 1 (Refer IEC 60060-1)             | Permanent |
| 40 |  | Temperature Rise - Test            | Upto 2000 A   | Cl.6.5 of IS 9385 : Part 1                               | Permanent |
| 41 | High – Voltage Fuses (Part 2 Expulsion Fuses)          | Lightning Impulse Voltage Dry Test | Upto 500 kV   | Cl.8.4.4 of IS 9385: Part 2 (Refer IEC Cl.20 of 60060-1) | Permanent |
| 42 |  | Power - Frequency Voltage Dry Test | Upto 200 kV   | Cl.8.4.5 of IS 9385: Part 2 (Refer IEC 60060-1)          | Permanent |
| 43 |  | Power - Frequency Voltage Wet Test | Upto 200 kV   | Cl.8.4.6 of IS 9385: Part 2 (Refer IEC 60060-1)          | Permanent |
| 44 |  | Temperature Rise - Test            | Upto 2000 A   | Cl.8.5 of IS 9385: Part 2                                | Permanent |



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**Amendment date:** N/A

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|----------------|---|---|--|---|-----------------|
| 45             |   | Dimensional Verification                                      | Up to 5000 mm                                | Cl.10 (a) of IS 9385: Part 2  | Permanent       |
| 46             |   | Measurement of resistance of fuse links                       | Upto 1.1 ohm                                 | Cl.10 (b) of IS 9385: Part 2  | Permanent       |
| 47             | Metal-oxide surge arresters without gaps for a.c. systems | Insulation Withstand Tests (Lightning Impulse Voltage Test)   | Upto 500 kV                                  | Cl.8.2.6 & Cl.10.8.2 of IEC 60099 – 4 (Refer IEC 60060 - 1)         | Permanent       |
| 48             |   | Insulation Withstand Tests (Dry Power-frequency voltage test) | Upto 200 kV                                  | Cl.8.2.8 & Cl.10.8.2 of IEC 60099 – 4                               | Permanent       |
| 49             |   | Insulation Withstand Tests (Wet Power-frequency voltage test) | Upto 200 kV                                  | Cl.8.2.8 & Cl.10.8.2 of IEC 60099 – 4                               | Permanent       |
| 50             |   | Steep Current Impulse residual voltage test                   | Upto 500 kV                                  | Cl.8.3.2 & Cl.10.8.2 of IEC 60099 – 4                               | Permanent       |
| 51             |   | Lightning impulse residual voltage test                       | Upto 500 kV                                  | Cl.8.3.3 & Cl.10.8.3 of IEC 60099 – 4                               | Permanent       |
| 52             |   | Reference Voltage Test  | Upto 10 mA<br>Upto 50 kV                     | Cl.9.2.1 (a) & Cl.10.9 of IEC 60099-4                               | Permanent       |
| 53             |   | Reference Voltage Test  | Upto 10 mA<br>Upto 50 kV                     | Cl.9.1 (a) of IEC 60099-4   | Permanent       |
| 54             |   | Mechanical Test (Bending moment test)                         | Up to 1000 kN                                | Cl.8.9.4.2 of IEC 60099-4   | Permanent       |
| 55             |   | Mechanical Test (Tensile load test)                           | Up to 1000 kN                                | Cl.8.9.4.3 of IEC 60099-4   | Permanent       |
| 56             |   | Mechanical Test (Torsional load test)                         | Up to 1000 kN                                | Cl.8.9.4.4 of IEC 60099-4   | Permanent       |
| 57             |   | Internal Partial Discharge Test                               | Upto 1000 pC                                 | Cl.9.1 c,d of IEC 60099-4   | Permanent       |
| 58             | High – Voltage switchgear and controller [Part 102]       | Dry Power – frequency voltage tests                           | Upto 200 kV                                  | Cl.7.2 of IS/IEC 62271-102 (Refer Cl.7.2.7.2 of IS/IEC 62271 -1+A1) | Permanent       |



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As per ISO/IEC 17025:2017

**CAB Name:** Amit test and Calibration Centre Page No. 5 of 76  
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|---------|--|--|---------------------------------------|--|-----------|
| 59      | Alternating Current Disconnector and Earthing Switches]  | Wet Power – frequency voltage tests          | Upto 200 kV                           | Cl.7.2 of IS/IEC 62271-102 (Refer Cl.7.2.7.2 of IS/IEC 62271 -1+A1)    | Permanent |
| 60      |  | Lightning Impulse Voltage tests              | Upto 500 kV                           | Cl.7.2 of IS/IEC 62271-102 (Refer Cl.7.2.7.3 of IS/IEC 62271 -1+A1)    | Permanent |
| 61      |  | Resistance Measurement                       | Upto 10000 $\mu$ ohm                  | Cl.7.4 of IS/IEC 62271-102<br>(Refer Cl.8.4 of IS/IEC 62271-1+A1)      | Permanent |
| 62      |  | Continuous current test                      | Upto 2000 A<br>Upto 150 °C            | Cl.7.5 of IS/IEC 62271-102<br>(Refer Cl.7.5 of IS/IEC 62271 -1+A1)     | Permanent |
| 63      |  | Mechanical Endurance test                    | Qualitative                           | Cl.7.102.3 of IS/IEC 62271-102 (Refer IS/IEC 62271 -1+A1)              | Permanent |
| 64      | High – voltage switchgear and controlgear [Part 103 Alternating Current Switch for rated voltages above 1 kV up to and including 52 kV | Dry Power – frequency voltage tests          | Upto 200 kV                           | Cl.7.2 of IS/IEC 62271-103<br>(Refer Cl.7.2.7.2 of IS/IEC 62271 -1+A1) | Permanent |
| 65      |  | Wet Power – frequency voltage tests          | Upto 200 kV                           | Cl.7.2 of IS/IEC 62271-103<br>(Refer Cl.7.2.7.2 of IS/IEC 62271 -1+A1) | Permanent |
| 66      |  | Lightning Impulse Voltage tests              | Upto 500 kV                           | Cl.7.2 of IS/IEC 62271-103<br>(Refer Cl.7.2.7.3 of IS/IEC 62271 -1+A1) | Permanent |
| 67      |  | Resistance Measurement                       | Upto 10000 $\mu$ ohm                  | Cl.7.4 of IS/IEC 62271-103<br>(Refer Cl.8.4 of IS/IEC 62271-1+A1)      | Permanent |



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| Sr. No. | Product/ Material to be tested | Parameter/ Type of test/ Properties Measured         | Range of measurement/ detection limit | Method/ Technique  | Facility  |
|---------|--------------------------------|--|---------------------------------------|--|-----------|
| 68      |                                | Continuous current test                              | Upto 2000 A<br>Upto 150 °C            | Cl.7.5 of IS/IEC 62271-103<br>(Refer Cl.7.5 of IS/IEC 62271 -1+A1) | Permanent |
| 69      |                                | Mechanical operation test at ambient air temperature | Qualitative                           | Cl.7.102.2 of IS/IEC 62271- 103<br>(Refer IS/IEC 62271 -1+A1)      | Permanent |

#### Discipline :- Electrical, Group :- Environmental test facility

|    |   |  |                               |                           |           |
|----|---|--|-------------------------------|---------------------------|-----------|
| 70 | Fibre distribution management systems (outdoor) for optical fibre cables (Ribbon & No-Ribbon) | Bump Test                                  | (up to 400 m/s <sup>2</sup> ) | Test No.13 of QM-333      | Permanent |
| 71 |   | High Temperature (Dry Heat) Cycle          | (up to 60°C)                  | Test No.2 of QM-333       | Permanent |
| 72 |   | Low Temperature cold cycle                 | (up to -20°C)                 | Test No.1 of QM-333       | Permanent |
| 73 |   | Damp heat (steady state)                   | (20°C to -15°C)               | Test No.5 of QM-333       | Permanent |
| 74 |   | Tropical Exposure (Damp heat Cyclic)       | (up to 40 °C, 95 % RH)        | Test No.3 of QM-333       | Permanent |
| 75 |   | High Altitude Test                         | (up to 3000 m)                | Test No.7 of QM-333       | Permanent |
| 76 |   | Vibration Test                             | (up to 15 m/s <sup>2</sup> )  | Test No.6 of QM-333       | Permanent |
| 77 |   | Corrosion – Salt Test                      | (up to 40°C)                  | Test No.9 of QM-333       | Permanent |
| 78 |   | IP 6X test                                 | (up to 2 kg/m <sup>3</sup> )  | Cl.13.4 of IS/IEC 60529   | Permanent |
| 79 |   | IP X8 test                                 | (up to 1 m immersion depth)   | Cl.14.2.8 of IS/IEC 60529 | Permanent |
| 80 |   | Sealing (Gas tightness)/High altitude test | (up to 3000 m)                | Test No.7 of QM-333       | Permanent |
| 81 |   | Rain Test                                  | (up to 90°Angle spray)        | Test No.14 of QM-33       | Permanent |
| 82 |   | Dust Test                                  | (up to 60°C, 50% RH)          | Test No.15 of QM-333      | Permanent |
| 83 |   | Rapid Cycle test                           | (-10 to 55°C)                 | Test No.4 of QM-33        | Permanent |



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|----------------|---|---|--|---|---------------------|
| 84             |   | Thermal Ageing Test                                 | (up to 100°C)                                | Cl.4.15 of TEC GR No.: 87050  | Permanent           |
| 85             |   | Current Surge test                                  | (up to 1000 amp)                             | Cl.4.17 of TEC GR No.: 87050  | Permanent           |
| 86             |   | Material for fibre organizer (Annexure III)         | 0 to 50 %                                    | Annexure III of TEC GR No.: 87050                                   | Permanent           |
| 87             |   | Environmental Cycle                                 | (-20 to 60°C)                                | Cl.4.9 of TEC GR No.: 8705  | Permanent           |
| 88             |   | Aggressive media Test                               | (up to 0.5 Kg/cm <sup>2</sup> )              | Cl.4.13 of TEC GR No.: 87050  | Permanent           |
| 89             |   | Material for base & dome (Annexure II)              | 0 to 50 %                                    | Annexure II of TEC GR No.: 87050                                    | Permanent           |
| 90             | Fibre termination & Distribution Box (for FTTH Application) | Damp heat (steady state)                            | (20°C to -15°C)                              | TEC GR No.: 87030: Test No.5 of QM-333                              | Permanent           |
| 91             |   | Corrosion – Salt Test                               | (up to 40°C)                                 | Cl. 9 of TEC GR No.: 87030<br>QM-333 Test No.9                      | Permanent           |
| 92             |   | Toppling test                                       | Qualitative                                  | TEC GR No.: 87030<br>QM-333 Test No.11                              | Permanent           |
| 93             |   | Vibration Test                                      | (up to 15 m/s <sup>2</sup> )                 | Cl. 9 of TEC GR No.: 87030<br>QM-33                                 | Permanent           |
| 94             |   | Drop Test   | Qualitative                                  | TEC GR No.: 87030<br>QM-333 Test No.10                              | Permanent           |
| 95             |   | IP-55   | Upto IP 68                                   | TEC GR No.: 87030<br>Table 1 Type II of GR.<br>Test as per IEC 6052 | Permanent           |
| 96             |   | Splice closure for optical fibre cables             | Thermal Ageing Test                          | Cl 4.11 of TEC GR No.: 87080  | Permanent           |
| 97             |   |   | Corrosion – Salt Test                        | (up to 40°C)  | Test No.9 of QM-333 |



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|---------|--|--|---------------------------------------|----------------------------------|-----------|
| 98      | (suitable for Non-ribbon fibre splicing) | Material for fibre organizer (Annexure II)   | 0 to 50 %                             | Annexure II of TEC GR No.: 87080 | Permanent |
| 99      |  | Vibration Test   | (up to 15 m/s <sup>2</sup> )          | Test No.6 of QM-333              | Permanent |
| 100     |  | Current Surge test   | (up to 1000 amp)                      | Cl.4.16 of TEC GR No.: 87080     | Permanent |
| 101     |  | Environmental cycle  | (-20 to 60°C)                         | Cl.4.12 of TEC GR No.: 87080     | Permanent |
| 102     |  | Aggressive media Test  | (up to 0.5 Kg/cm <sup>2</sup> )       | Cl.4.15 of TEC GR No.: 87080     | Permanent |
| 103     |  | The material of thermoplastic /high density polyethylene/polypropylene characteristics and the performance requirements (Annexure 1) | Qualitative                           | Annexure I of TEC GR No.: 87080  | Permanent |
| 104     |  | Bump Test  | (up to 400 m/s <sup>2</sup> )         | Test No.13 of QM-333             | Permanent |
| 105     |  | High Temperature (Dry Heat) Cycle  | (up to 60°C)                          | Test No.2 of QM-333              | Permanent |
| 106     |  | Tropical Exposure (Damp heat Cyclic)   | (up to 40 °C,95 % RH)                 | Test No.3 of QM-333              | Permanent |
| 107     |  | Low Temperature cold cycle   | (up to -20°C)                         | Test No.1 of QM-333              | Permanent |
| 108     |  | High Altitude Test   | (up to 3000 m)                        | Test No.7 of QM-333              | Permanent |
| 109     |  | Rapid Cycle test   | (-10 to 55°C)                         | Test No.4 of QM-333              | Permanent |
| 110     |  | Damp heat (steady state)   | 20°C to -15°C                         | Test No.5 of QM-333              | Permanent |

#### Discipline :- Electrical, Group:- Cables and wires

|     |  |                                     |           |   |           |
|-----|--|-------------------------------------|-----------|---|-----------|
| 111 | PVC insulated (heavy duty) Electric cables for working voltage | Annealing test for Copper Conductor | Up to 50% | Cl.15.1 (a) (1) of IS:1554 (Part-1) (Reaffirmed)+A5 IS:10810 (Pt 1 (Reaffirmed) | Permanent |
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| <b>Sr. No.</b> | <b>Product/ Material to be tested</b> | <b>Parameter/ Type of test/ Properties Measured</b>          | <b>Range of measurement/ detection limit</b> | <b>Method/ Technique</b>   | <b>Facility</b> |
|----------------|---------------------------------------|--|--|--|-----------------|
| 112            | up to and including 1100 Volts.       | Tensile strength for Aluminum Conductor                      | Up to 500N/mm <sup>2</sup>                   | Cl.15.1 (a) (2) of IS:1554 (Part-1) (Reaffirmed)+A5 IS:10810 (Pt 2) (Reaffirmed) | Permanent       |
| 113            |                                       | Wrapping test for Aluminum Conductor                         | Qualitative                                  | Cl.15.1 (a) (3) of IS:1554 (Part-1) (Reaffirmed)+A5 IS:10810 (Pt 3) (Reaffirmed) | Permanent       |
| 114            |                                       | Conductor resistance   | 0.0100 to 1000 ohm/km                        | Cl.15.1 (a) (4) of IS:1554 (Part-1)(Reaffirmed)+A5 IS:10810 (Pt 5)- (Reaffirmed) | Permanent       |
| 115            |                                       | Dimension for armouring material                             | 0.01mm to 25 mm                              | Cl.15.1 (b) of IS:1554 (Part-1) (Reaffirmed)+A5 IS:10810 (Pt 36) (Reaffirmed)    | Permanent       |
| 116            |                                       | Tensile strength & Elongation at break of armouring material | Up to 500N/mm <sup>2</sup><br>Up to 50%      | Cl.15.1 (b) of IS:1554 (Part-1)(Reaffirmed)+A5 IS:10810 (Pt 37)- (Reaffirmed)    | Permanent       |
| 117            |                                       | Torsion test on Galvanized steel wire for armouring          | Qualitative                                  | Cl.15.1 (b) of IS:1554 (Part-1) (Reaffirmed)+A5 IS:10810 (Pt 38) (Reaffirmed)    | Permanent       |
| 118            |                                       | Winding test on Galvanized steel strips for armouring        | Qualitative                                  | Cl.15.1 (b) of IS:1554 (Part-1) (Reaffirmed)+A5 IS:10810 (Pt 39) (Reaffirmed)    | Permanent       |



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### Scope of Accreditation for Testing

As per ISO/IEC 17025:2017

**CAB Name:** Amit test and Calibration Centre **Page No. 10 of 76**

**Address:** 45/7, Village Prahaladpur Bangar, Rohini sector-30, Near

Kali Mata Mandir, New Delhi -110042, Delhi

**Issue date :** 30.12.2025

**Validity :** 29.12.2029

**Certificate No.:** T-0029

**Amendment date:** N/A

| <b>Sr. No.</b> | <b>Product/ Material to be tested</b> | <b>Parameter/ Type of test/ Properties Measured</b>           | <b>Range of measurement/ detection limit</b> | <b>Method/ Technique</b>  | <b>Facility</b> |
|----------------|---------------------------------------|---|--|---|-----------------|
| 119            |                                       | Uniformity of Zinc coating                                    | Qualitative                                  | Cl.15.1 (b) of IS:1554 (Part-1) (Reaffirmed)+A5 IS:10810 (Pt 40) +A1 (Reaffirmed) | Permanent       |
| 120            |                                       | Mass of Zinc coating  | Up to 500 gm/ m <sup>2</sup>                 | Cl.15.1 (b) of IS:1554 (Part-1) (Reaffirmed)+A5 IS:10810 (Pt 41) (Reaffirmed)     | Permanent       |
| 121            |                                       | Resistivity & Conductance test of Armour (Wires/strips)       | Up to 20 x10 <sup>-6</sup> ohm-cm            | Cl.15.1 (b) of IS:1554 (Part-1) (Reaffirmed)+A5 IS:10810 (Pt 42) (Reaffirmed)     | Permanent       |
| 122            |                                       | Thickness of Insulation & Sheath                              | 0.01mm - 150 mm                              | Cl.15.1 (c) of IS:1554 (Part-1) (Reaffirmed)+A5 IS:10810 (Pt 6) (Reaffirmed)      | Permanent       |
| 123            |                                       | Tensile strength & Elongation at break of insulation & sheath | Up to 500N/mm <sup>2</sup><br>Up to 1500%    | Cl.15.1 (d) (1) of IS:1554 (Part-1) (Reaffirmed)+A5 IS:10810 (Pt 7) (Reaffirmed)  | Permanent       |
| 124            |                                       | Loss of mass test   | Up to 100 mg/cm <sup>2</sup>                 | Cl.15.1 (d) (5) of IS:1554 (Part-1) (Reaffirmed)+A5 IS:10810 (Pt 10) (Reaffirmed) | Permanent       |
| 125            |                                       | Ageing in air oven  | Up to 500N/mm <sup>2</sup><br>Up to 1500%    | Cl.15.1 (d) (2) of IS:1554 (Part-1) (Reaffirmed) +A5                              | Permanent       |



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**CAB Name:** Amit test and Calibration Centre **Page No. 11 of 76**  
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**Certificate No.:** T-0029 **Validity :** 29.12.2029  
**Amendment date:** N/A

| <b>Sr. No.</b> | <b>Product/ Material to be tested</b>  | <b>Parameter/ Type of test/ Properties Measured</b> | <b>Range of measurement/ detection limit</b> | <b>Method/ Technique</b>   | <b>Facility</b> |
|----------------|--|---|--|--|-----------------|
|                |  |   |  | IS:10810 (Pt 11) (Reaffirmed)  |                 |
| 126            | PVC insulated (heavy duty) Electric cables for working voltage up to and including 1100 Volts. | Shrinkage test                                      | Up to 50%                                    | Cl.15.1 (d) (3) of IS:1554 (Part-1) (Reaffirmed) +A5 IS:10810 (Pt 12) (Reaffirmed) | Permanent       |
| 127            |  | Heat shock test                                     | Qualitative                                  | Cl.15.1 (d) (6) of IS:1554 (Part-1) (Reaffirmed)+A5 IS:10810 (Pt 14) (Reaffirmed)  | Permanent       |
| 128            |  | Hot deformation test                                | Up to 90%                                    | Cl.15.1 (d) (4) of IS:1554 (Part-1) (Reaffirmed)+A5 IS:10810 (Pt 15) (Reaffirmed)  | Permanent       |
| 129            |  | Thermal Stability                                   | Up to 500 Minute                             | Cl.15.1 (d) (7) of IS:1554 (Part-1) (Reaffirmed) +A5 IS:10810 (Pt 60) (Reaffirmed) | Permanent       |
| 130            |  | Insulation resistance constant                      | 1 - 1000x10 <sup>6</sup> MΩ                  | Cl.15.1 (e) of IS:1554 (Part-1) (Reaffirmed) +A5 IS:10810 (Pt 43) (Reaffirmed)     | Permanent       |
| 131            |  | Volume Resistivity                                  | 1 - 100x10 <sup>17</sup> Ω-cm                | Cl.15.1 (d) of IS:1554 (Part-1) (Reaffirmed) +A5 IS:10810 (Pt 43) (Reaffirmed)     | Permanent       |



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As per ISO/IEC 17025:2017

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**Certificate No.:** T-0029 **Validity :** 29.12.2029  
**Amendment date:** N/A

| Sr. No. | Product/ Material to be tested | Parameter/ Type of test/ Properties Measured | Range of measurement/ detection limit | Method/ Technique   | Facility  |
|---------|--------------------------------|--|---------------------------------------|---|-----------|
| 132     |                                | High voltage Test (AC)                       | 0.01kV-35 kV                          | Cl.16.2 of IS:1554 (Part-1)<br>(Reaffirmed) +A5<br>IS:10810 (Pt 45)<br>(Reaffirmed)                         | Permanent |
| 133     |                                | High voltage Test (DC)                       | 0.05 kV - 3 kV                        | Cl.16.3 of IS:1554 (Part-1)<br>(Reaffirmed) +A5<br>IS:10810 (Pt 45)<br>(Reaffirmed)                         | Permanent |
| 134     |                                | Flammability test                            | Up to 600mm                           | Cl.16.4 of IS:1554 (Part-1)<br>(Reaffirmed) +A5<br>IS:10810 (Pt 53)<br>(Reaffirmed)                         | Permanent |
| 135     |                                | Armour Resistance Test                       | 0.0100 to 1000 ohm/km                 | Cl 15.4 (c) of IS:1554 (Part-1)<br>(Reaffirmed) +A5<br>IS:10810 (Pt 42)<br>(Reaffirmed)                     | Permanent |
| 136     |                                | Cold Bend Test                               | Qualitative                           | Cl 15.4 (a) of IS:1554 (Part-1)<br>IS:1554 (Part-1)<br>(Reaffirmed) +A5<br>IS:10810 (Pt 20)<br>(Reaffirmed) | Permanent |
| 137     |                                | Cold Impact Test                             | Qualitative                           | Cl 15.4 (a) of IS:1554 (Part-1)<br>(Reaffirmed) +A5<br>IS:10810 (Pt 21)<br>(Reaffirmed)                     | Permanent |
| 138     |                                | Oxygen Index Test                            | 21 % to 80%                           | Cl.16.5 of IS:1554 (Part-1)<br>(Reaffirmed) +A5   | Permanent |



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**Address:** 45/7, Village Prahaladpur Bangar, Rohini sector-30, Near Kali Mata Mandir, New Delhi -110042, Delhi **Issue date :** 30.12.2025  
**Certificate No.:** T-0029 **Validity :** 29.12.2029  
**Amendment date:** N/A

| Sr. No. | Product/ Material to be tested | Parameter/ Type of test/ Properties Measured | Range of measurement/ detection limit | Method/ Technique  | Facility  |
|---------|--------------------------------|--|---------------------------------------|--|-----------|
|         |                                |  |                                       | IS:10810 (Pt 58)<br>(Reaffirmed)<br>ASTM D 2863-09   |           |
| 139     |                                | Flame Retardance Test on Single Cable        | Up to 1000mm                          | Cl.16.6 of IS:1554 (Part-1)<br>IS:1554 (Part-1)<br>(Reaffirmed) +A5<br>IS:10810 (Pt 61) -<br>(Reaffirmed) +A1 SS-424-1475                  | Permanent |
| 140     |                                | Halogen Acid Gas                             | Up to 50%                             | Cl.16.9 of IS:1554 (Part-1)<br>(Reaffirmed)+A5<br>IS:10810(Pt-59) -<br>(Reaffirmed) +A1 IEC 60754-1  | Permanent |
| 141     |                                | Temperature Index Test                       | Amb. to 500°C                         | Cl.16.10 of IS:1554 (Part-1)<br>(Reaffirmed) +A5<br>IS:10810 (Pt -64)<br>(Reaffirmed)<br>ASTM D 2863-09                                    | Permanent |
| 142     |                                | Flame retardance test on bunched cables      | Up to 3.50 meter                      | Cl.16.7 of IS:1554 (Part-1)<br>(Reaffirmed) +A5<br>IS:10810 (Pt -62)<br>(Reaffirmed)<br>IEC 60332-3-22<br>IEC 60332-3-23<br>IEC 60332-3-24 | Permanent |
| 143     |                                | Smoke Density                                | Up to 90%                             | Cl.16.8 of IS:1554 (Part-1)<br>(Reaffirmed) +A5<br>ASTM D 2843   | Permanent |



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### Scope of Accreditation for Testing

As per ISO/IEC 17025:2017

**CAB Name:** Amit test and Calibration Centre **Page No. 14 of 76**  
**Address:** 45/7, Village Prahaladpur Bangar, Rohini sector-30, Near Kali Mata Mandir, New Delhi -110042, Delhi **Issue date :** 30.12.2025  
**Certificate No.:** T-0029 **Validity :** 29.12.2029  
**Amendment date:** N/A

| <b>Sr. No.</b> | <b>Product/ Material to be tested</b>                                      | <b>Parameter/ Type of test/ Properties Measured</b>  | <b>Range of measurement/ detection limit</b> | <b>Method/ Technique</b>  | <b>Facility</b> |
|----------------|--|--|--|---|-----------------|
| 144            | Aerial Bunched Cables- For working voltage up to and including 1100 Volts. | Tensile strength                                     | Up to 500N/mm <sup>2</sup>                   | Cl.10.1 (a) (i) of IS:1425 (Reaffirmed) +A1<br>IS:10810 (Pt 2) (Reaffirmed)   | Permanent       |
| 145            |  | Wrapping test  | Qualitative                                  | Cl.10.1 (a) (ii) of IS:14255(Reaffirmed) +A1<br>IS:10810 (Pt 3) (Reaffirmed)  | Permanent       |
| 146            |  | Conductor resistance                                 | 0.0100 to 1000 ohm/km                        | Cl.10.1 (a) (ii) of IS:14255 (Reaffirmed)+A1<br>IS:10810 (Pt 5) (Reaffirmed)  | Permanent       |
| 147            |  | Test on Messenger Conductor Breaking Load            | Up to 500N/mm <sup>2</sup>                   | Cl.10.1 (b) (i) of IS:14255 (Reaffirmed)+A1<br>IS:10810 (Pt 2) (Reaffirmed)   | Permanent       |
| 148            |  | Elongation Test                                      | Up to 50%                                    | Cl.10.1 (b) (ii) of IS:14255 (Reaffirmed)+A1                                  | Permanent       |
| 149            |  | Conductor resistance                                 | 0.0100 to 1000 ohm/km                        | Cl.10.1 (b) (iii) of IS:14255 (Reaffirmed)+A1<br>IS:10810 (Pt 5) (Reaffirmed) | Permanent       |
| 150            |  | Tensile strength & Elongation at break of insulation | Up to 500N/mm <sup>2</sup><br>Up to 1500%    | Cl.10.1 (c) (i) of IS:14255 (Reaffirmed)+A1<br>IS:10810 (Pt 7) (Reaffirmed)   | Permanent       |



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As per ISO/IEC 17025:2017

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**Certificate No.:** T-0029 **Validity :** 29.12.2029  
**Amendment date:** N/A

| <b>Sr. No.</b> | <b>Product/ Material to be tested</b> | <b>Parameter/ Type of test/ Properties Measured</b>                         | <b>Range of measurement/ detection limit</b> | <b>Method/ Technique</b>   | <b>Facility</b> |
|----------------|---------------------------------------|---|--|--|-----------------|
| 151            |                                       | Ageing in air oven  | Up to 500N/mm <sup>2</sup><br>Up to 1500%    | Cl.10.1 (c) (ii) of IS:14255 (Reaffirmed)+A1 IS:10810 (Pt 11) (Reaffirmed)                 | Permanent       |
| 152            |                                       | Hot Set Test  | Up to 200%                                   | Cl.10.1 (c) (iii) of IS:14255 (Reaffirmed)+A1 IS 10810 (Pt 30) (Reaffirmed)                | Permanent       |
| 153            |                                       | Shrinkage test  | Up to 50%                                    | Cl.10.1 (c) (iv) of IS:14255 (Reaffirmed)+A1 IS:10810 (Pt 12) (Reaffirmed)                 | Permanent       |
| 154            |                                       | Water Absorption (Gravimetric)  | Up to 100mg/cm <sup>2</sup>                  | Cl.10.1 (c) (v) of IS:14255 (Reaffirmed)+A1 IS:10810 (Pt 33) (Reaffirmed)                  | Permanent       |
| 155            |                                       | Carbon black test Content Dispersion  | Up to 50% Qualitative                        | Cl.10.1 (v) of IS:14255 (Reaffirmed)+A1 IS 10810 (Pt 32) (Reaffirmed) IS 2530 (Reaffirmed) | Permanent       |
| 156            |                                       | Physical test for PE insulation<br>Tensile strength and elongation at break | Up to 500N/mm <sup>2</sup><br>Up to 1500%    | Cl.10.1 (d) (i) of IS:14255 (Reaffirmed)+A1 IS : 10810 (Pt.7) (Reaffirmed)                 | Permanent       |
| 157            |                                       | Melt flow index   | Up to 50                                     | Cl.10.1 (d) (ii) of IS:14255 (Reaffirmed)+A1   | Permanent       |



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 Kali Mata Mandir, New Delhi -110042, Delhi **Issue date : 30.12.2025**  
**Certificate No.:** T-0029 **Validity : 29.12.2029**  
**Amendment date:** N/A

| Sr. No. | Product/ Material to be tested                | Parameter/ Type of test/ Properties Measured | Range of measurement/ detection limit   | Method/ Technique                  | Facility |
|---------|---|--|---|------------------------------------|----------|
|         |   |  |   | IS : 10810 (Pt.23)<br>(Reaffirmed) |          |
| 158     | Carbon black test<br>Content<br>Dispersion    | Up to 50%<br>Qualitative                     | Cl.10.1 (d) (iii) of<br>IS:14255-<br>(Reaffirmed)+A1<br>IS 10810 (Pt 32) IS<br>2530       | Permanent                          |          |
| 159     | Vicat softening point                         | Up to 200 °C                                 | Cl.10.1 (d) (iv) of<br>IS:14255-<br>(Reaffirmed)+A1<br>IS : 10810 (Pt.22)<br>(Reaffirmed) | Permanent                          |          |
| 160     | Environmental stress cracking                 | Qualitative                                  | Cl.10.1 (d) (v) of<br>IS:14255-<br>(Reaffirmed)+A1<br>IS : 10810 (Pt.29)<br>(Reaffirmed)  | Permanent                          |          |
| 161     | Thickness of Insulation                       | 0.01mm - 150 mm                              | Cl.10.1 (e) of IS:14255-<br>(Reaffirmed)+A1<br>IS: 10810 (Pt 6)<br>(Reaffirmed)           | Permanent                          |          |
| 162     | Insulation resistance<br>(Volume Resistivity) | 1 - 100x10 <sup>17</sup> Ω-cm                | Cl.10.1 (f) of IS:14255-<br>(Reaffirmed)+A1<br>IS:10810 (Pt 43)<br>(Reaffirmed)           | Permanent                          |          |
| 163     | High voltage Test                             | 0.01kV-35 kV                                 | Cl.10.1 (g) of IS:14255-<br>(Reaffirmed)+A1<br>IS 10810 (Pt 45)<br>(Reaffirmed)           | Permanent                          |          |
| 164     | Bending test                                  | Qualitative                                  | Cl.11.4 of IS:14255<br>(Reaffirmed)+A1<br>IS 10810 (Pt 50)<br>(Reaffirmed)                | Permanent                          |          |



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**Certificate No.:** T-0029 **Validity :** 29.12.2029  
**Amendment date:** N/A

| Sr. No. | Product/ Material to be tested  | Parameter/ Type of test/ Properties Measured                  | Range of measurement/ detection limit     | Method/ Technique   | Facility  |
|---------|---|---|---|---|-----------|
| 165     | PVC Insulated Cables for working voltages up to and including 1100 volts. | Annealing test for Copper Conductor                           | Up to 50%                                 | Table 1 of IS 694 (Reaffirmed)+A4<br>IS:10810 (Pt 1)<br>(Reaffirmed)  | Permanent |
| 166     |   | Tensile strength for Aluminium Conductor                      | Up to 500N/mm <sup>2</sup>                | Table 1 of IS 694 (Reaffirmed)+A4<br>IS:10810 (Pt 2)<br>(Reaffirmed)  | Permanent |
| 167     |   | Wrapping test for Aluminium Conductor                         | Qualitative                               | Table 1 of IS 694 (Reaffirmed)+A4<br>IS:10810 (Pt 3)<br>(Reaffirmed)  | Permanent |
| 168     |   | Conductor resistance  | 0.0100 to 1000 ohm/km                     | Table 1 of IS 694 (Reaffirmed)+A4<br>IS:10810 (Pt 5)<br>(Reaffirmed)  | Permanent |
| 169     |   | Persulphate test ( for tinned Copper Conductor)               | Up to 50g/m <sup>2</sup>                  | Table 1 of IS 694 (Reaffirmed)+A4<br>IS 10810 (Pt -4)<br>(Reaffirmed) | Permanent |
| 170     |   | Overall dimensions and Thickness of Insulation / Sheath       | 0.01mm - 150 mm                           | Table 1 of IS 694 (Reaffirmed)+A4<br>IS:10810 (Pt 6)<br>(Reaffirmed)  | Permanent |
| 171     |   | Tensile strength & Elongation at break of insulation / sheath | Up to 500N/mm <sup>2</sup><br>Up to 1500% | Table 1 of IS 694 (Reaffirmed)+A4<br>IS:10810 (Pt 7)<br>(Reaffirmed)  | Permanent |
| 172     |   | Loss of mass test   | Up to 100 mg/cm <sup>2</sup>              | Table 1 of IS 694 (Reaffirmed)+A4<br>IS:10810 (Pt 10)<br>(Reaffirmed) | Permanent |



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**Certificate No.:** T-0029 **Issue date** : 30.12.2025  
**Validity** : 29.12.2029  
**Amendment date:** N/A

| <b>Sr. No.</b> | <b>Product/ Material to be tested</b> | <b>Parameter/ Type of test/ Properties Measured</b> | <b>Range of measurement/ detection limit</b> | <b>Method/ Technique</b>  | <b>Facility</b> |
|----------------|---------------------------------------|---|--|---|-----------------|
| 173            |                                       | Ageing in air oven                                  | Up to 500N/mm <sup>2</sup><br>Up to 1500%    | Table 1 of IS 694 (Reaffirmed)+A4<br>IS:10810 (Pt 11) (Reaffirmed)  | Permanent       |
| 174            |                                       | Shrinkage test                                      | Up to 50%                                    | Table 1 of IS 694 (Reaffirmed)+A4<br>S:10810 (Pt 12) (Reaffirmed)   | Permanent       |
| 175            |                                       | Heat shock test                                     | Qualitative                                  | Table 1 of IS 694 (Reaffirmed)+A4<br>IS:10810 (Pt 14) (Reaffirmed)  | Permanent       |
| 176            |                                       | Hot deformation test                                | Up to 90%                                    | Table 1 of IS 694 (Reaffirmed)+A4<br>IS:10810 (Pt 15) (Reaffirmed)  | Permanent       |
| 177            |                                       | Thermal Stability                                   | Up to 500 Minute                             | Table 1 of IS 694 (Reaffirmed)+A4<br>IS:10810 (Pt 60)- (Reaffirmed) | Permanent       |
| 178            |                                       | Cold Bend Test                                      | Qualitative                                  | Table 1 of IS 694 (Reaffirmed)+A4<br>IS:10810 (Pt 20) (Reaffirmed)  | Permanent       |
| 179            |                                       | Cold Impact Test                                    | Qualitative                                  | Table 1 of IS 694 (Reaffirmed)+A4<br>IS:10810 (Pt 21) (Reaffirmed)  | Permanent       |
| 180            |                                       | Flammability test                                   | Up to 600mm                                  | Table 1 of IS 694 (Reaffirmed)+A4<br>IS:10810 (Pt 53) (Reaffirmed)  | Permanent       |



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As per ISO/IEC 17025:2017

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**Certificate No.:** T-0029 **Issue date** : 30.12.2025  
**Validity** : 29.12.2029  
**Amendment date:** N/A

| <b>Sr. No.</b> | <b>Product/ Material to be tested</b> | <b>Parameter/ Type of test/ Properties Measured</b> | <b>Range of measurement/ detection limit</b> | <b>Method/ Technique</b>   | <b>Facility</b> |
|----------------|---------------------------------------|---|--|--|-----------------|
| 181            |                                       | Oxygen Index Test                                   | 21 % to 80%                                  | Table 1 of IS 694 (Reaffirmed)+A4<br>IS:10810 (Pt 58)-<br>(Reaffirmed) ASTM D 2863-09  | Permanent       |
| 182            |                                       | Temperature Index Test                              | Amb. to 500°C                                | Table 1 of IS 694 (Reaffirmed)+A4<br>IS:10810 (Pt -64)<br>(Reaffirmed) ASTM D 2863-09  | Permanent       |
| 183            |                                       | Halogen Acid Gas                                    | Up to 50%                                    | Table 1 of IS 694 (Reaffirmed)+A4<br>IS:10810(Pt-59) -<br>(Reaffirmed) +A1 IEC 60754-1 | Permanent       |
| 184            |                                       | Smoke Density                                       | Up to 90%                                    | Table 1 of IS 694 (Reaffirmed)+A4<br>IS 13360(Part 6/sec 9)<br>ASTM D 2843             | Permanent       |
| 185            |                                       | High voltage Test (AC)                              | 0.01kV-35 kV                                 | Table 1 of IS 694 (Reaffirmed)+A4<br>IS:10810 (Pt 45)<br>(Reaffirmed)                  | Permanent       |
| 186            |                                       | High voltage Test (DC)                              | 0.05 kV - 3 kV                               | Table 1 of IS 694 (Reaffirmed)+A4<br>IS:10810 (Pt 45)<br>(Reaffirmed)                  | Permanent       |
| 187            |                                       | Insulation resistance                               | 1 - 1000x10 <sup>6</sup> MΩ                  | Table 1 of IS 694 (Reaffirmed)+A4<br>IS:10810 (Pt 43)<br>(Reaffirmed)                  | Permanent       |
| 188            |                                       | Volume Resistivity                                  | 1 - 100x10 <sup>17</sup> Ω-cm                | Table 1 of IS 694 (Reaffirmed)+A4  | Permanent       |



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### Scope of Accreditation for Testing

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**Certificate No.:** T-0029 **Validity :** 29.12.2029  
**Amendment date:** N/A

| Sr. No. | Product/ Material to be tested   | Parameter/ Type of test/ Properties Measured                 | Range of measurement/ detection limit   | Method/ Technique  | Facility  |
|---------|--|--|---|--|-----------|
|         |  |  |   | IS:10810 (Pt 43)<br>(Reaffirmed)   |           |
| 189     |  | Flammability test  | Up to 600mm                             | Table 1 of IS 694<br>(Reaffirmed)+A4<br>IS:10810 (Pt 53)<br>(Reaffirmed) | Permanent |
| 190     |  | Additional ageing test (for OU cable only)                   | 0.01kV-35 kV                            | Table 1 of IS 694<br>(Reaffirmed)+A4<br>Cl.10.9 of IS 694                | Permanent |
| 191     | Cross Linked Polyethylene Insulated, PVC sheathed cables working voltage up to and | Annealing test for Copper Conductor                          | Up to 50%                               | Cl.16.1 of IS: 7098 (Pt-1)<br>IS:10810 (Pt 1<br>(Reaffirmed)             | Permanent |
| 192     |  | Tensile strength for Aluminium Conductor                     | Up to 500N/mm <sup>2</sup>              | Cl.16.1 of IS: 7098 (Pt-1)<br>IS:10810 (Pt 2)<br>(Reaffirmed)            | Permanent |
| 193     |  | Wrapping test for Aluminium Conductor                        | Qualitative                             | Cl.16.1 of IS: 7098 (Pt-1)<br>IS:10810 (Pt 3)<br>(Reaffirmed)            | Permanent |
| 194     |  | Conductor resistance   | 0.0100 to 1000 ohm/km                   | Cl.16.1 of IS: 7098 (Pt-1)<br>IS:10810 (Pt 5)<br>(Reaffirmed)            | Permanent |
| 195     |  | Dimension for armouring material                             | 0.01mm to 25 mm                         | Cl.16.1 of IS: 7098 (Pt-1)<br>IS:10810 (Pt 36)<br>(Reaffirmed)           | Permanent |
| 196     |  | Tensile strength & Elongation at break of armouring material | Up to 500N/mm <sup>2</sup><br>Up to 50% | Cl.16.1 of IS: 7098 (Pt-1)<br>IS:10810 (Pt 37)<br>(Reaffirmed)           | Permanent |



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**Amendment date:** N/A

| Sr. No. | Product/ Material to be tested | Parameter/ Type of test/ Properties Measured            | Range of measurement/ detection limit     | Method/ Technique   | Facility  |
|---------|--------------------------------|---|---|---|-----------|
| 197     |                                | Torsion test on Galvanized steel wire for armouring     | Qualitative                               | Cl.16.1 of IS: 7098 (Pt-1)<br>IS:10810 (Pt 38)<br>(Reaffirmed)  | Permanent |
| 198     |                                | Winding test on Galvanized steel strips for armouring   | Qualitative                               | Cl.16.1 of IS: 7098 (Pt-1)<br>IS:10810 (Pt 39)<br>(Reaffirmed)) | Permanent |
| 199     |                                | Uniformity of Zinc coating                              | Qualitative                               | Cl.16.1 of IS: 7098 (Pt-1)<br>IS:10810 (Pt 40)<br>(Reaffirmed)  | Permanent |
| 200     |                                | Mass of Zinc coating                                    | Up to 500 gm/ m <sup>2</sup>              | Cl.16.1 of IS: 7098 (Pt-1)<br>IS:10810 (Pt 41)<br>(Reaffirmed)  | Permanent |
| 201     |                                | Resistivity & Conductance test of Armour (Wires/strips) | Up to 20 x10 <sup>-6</sup> ohm-cm         | Cl.16.1 of IS: 7098 (Pt-1)<br>IS:10810 (Pt 42)<br>(Reaffirmed)  | Permanent |
| 202     |                                | Thickness of Insulation & Sheath                        | 0.01mm - 150 mm                           | Cl.16.1 of IS: 7098 (Pt-1)<br>IS:10810 (Pt 6)<br>(Reaffirmed)   | Permanent |
| 203     |                                | Tensile strength & Elongation at break of insulation    | Up to 500N/mm <sup>2</sup><br>Up to 1500% | Cl.16.1 of IS: 7098 (Pt-1)<br>IS:10810 (Pt 7)<br>(Reaffirmed)   | Permanent |
| 204     |                                | Ageing in air oven                                      | Up to 500N/mm <sup>2</sup><br>Up to 1500% | Cl.16.1 of IS: 7098 (Pt-1)<br>IS:10810 (Pt 11)<br>(Reaffirmed)  | Permanent |



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**Amendment date:** N/A

| Sr. No. | Product/ Material to be tested | Parameter/ Type of test/ Properties Measured  | Range of measurement/ detection limit     | Method/ Technique  | Facility  |
|---------|--------------------------------|---|---|--|-----------|
| 205     |                                | Hot Set Test                                  | Up to 200%                                | Cl.16.1 of IS: 7098 (Pt-1)<br>IS 10810 (Pt 30)<br>(Reaffirmed) | Permanent |
| 206     |                                | Shrinkage test                                | Up to 50%                                 | Cl.16.1 of IS: 7098 (Pt-1)<br>IS:10810 (Pt 12)<br>(Reaffirmed) | Permanent |
| 207     |                                | Water Absorption (Gravimetric)                | Up to 100mg/cm <sup>2</sup>               | Cl.16.1 of IS: 7098 (Pt-1)<br>IS:10810 (Pt 33)<br>(Reaffirmed) | Permanent |
| 208     |                                | Tensile strength & Elongation at break sheath | Up to 500N/mm <sup>2</sup><br>Up to 1500% | Cl.16.1 of IS: 7098 (Pt-1)<br>IS:10810 (Pt 7)<br>(Reaffirmed)  | Permanent |
| 209     |                                | Ageing in air oven                            | Up to 500N/mm <sup>2</sup><br>Up to 1500% | Cl.16.1 of IS: 7098 (Pt-1)<br>IS:10810 (Pt 11)<br>(Reaffirmed) | Permanent |
| 210     |                                | Loss of mass test                             | Up to 100 mg/cm <sup>2</sup>              | Cl.16.1 of IS: 7098 (Pt-1)<br>IS:10810 (Pt 10)<br>(Reaffirmed) | Permanent |
| 211     |                                | Shrinkage test                                | Up to 50%                                 | Cl.16.1 of IS: 7098 (Pt-1)<br>IS:10810 (Pt 12)<br>(Reaffirmed) | Permanent |
| 212     |                                | Hot deformation test                          | Up to 90%                                 | Cl.16.1 of IS: 7098 (Pt-1)<br>IS:10810 (Pt 15)<br>(Reaffirmed) | Permanent |



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**Validity** : 29.12.2029  
**Amendment date:** N/A

| Sr. No. | Product/ Material to be tested | Parameter/ Type of test/ Properties Measured | Range of measurement/ detection limit | Method/ Technique   | Facility  |
|---------|--------------------------------|--|---------------------------------------|---|-----------|
| 213     |                                | Heat shock test                              | Qualitative                           | Cl.16.1 of IS: 7098 (Pt-1)<br>IS:10810 (Pt 14)<br>(Reaffirmed)  | Permanent |
| 214     |                                | Thermal Stability                            | Up to 500 Minute                      | Cl.16.1 of IS: 7098 (Pt-1)<br>IS:10810 (Pt 60)-<br>(Reaffirmed) | Permanent |
| 215     |                                | Insulation resistance (Volume Resistivity)   | 1 - 100x10 <sup>17</sup> Ω-cm         | Cl.16.1 of IS: 7098 (Pt-1)<br>IS:10810 (Pt 43)<br>(Reaffirmed)  | Permanent |
| 216     |                                | High voltage Test                            | 0.01kV-35 kV                          | Cl.16.1 of IS: 7098 (Pt-1)<br>IS:10810 (Pt 45)<br>(Reaffirmed)  | Permanent |
| 217     |                                | Flammability test                            | Up to 600mm                           | Cl.16.1 of IS: 7098 (Pt-1)<br>IS:10810 (Pt 53)<br>(Reaffirmed)) | Permanent |
| 218     |                                | Armour Resistance Test                       | 0.0100 to 1000 ohm/km                 | Cl.16.1 of IS: 7098 (Pt-1)<br>IS:10810 (Pt 42)<br>(Reaffirmed)  | Permanent |
| 219     |                                | Cold Bend Test                               | Qualitative                           | Cl.16.1 of IS: 7098 (Pt-1)<br>IS:10810 (Pt 20)<br>(Reaffirmed)  | Permanent |
| 220     |                                | Cold Impact Test                             | Qualitative                           | Cl.16.1 of IS: 7098 (Pt-1)<br>IS:10810 (Pt 21)<br>(Reaffirmed)) | Permanent |



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**Amendment date:** N/A

| Sr. No. | Product/ Material to be tested | Parameter/ Type of test/ Properties Measured | Range of measurement/ detection limit | Method/ Technique   | Facility  |
|---------|--------------------------------|--|---------------------------------------|---|-----------|
| 221     |                                | Oxygen Index Test                            | 21 % to 80%                           | Cl.16.1 of IS: 7098 (Pt-1)<br>IS:10810 (Pt 58)<br>(Reaffirmed)<br>ASTM D 2863-09                                      | Permanent |
| 222     |                                | Flame Retardance Test on Single Cable        | Up to 1000mm                          | Cl.16.1 of IS: 7098 (Pt-1)<br>IS:10810 (Pt 61) -<br>(Reaffirmed)+A1 SS-424-1475                                       | Permanent |
| 223     |                                | Halogen Acid Gas                             | Up to 50%                             | Cl.16.1 of IS: 7098 (Pt-1)<br>IS:10810(Pt-59) -<br>(Reaffirmed)+A1 IEC 60754-   | Permanent |
| 224     |                                | Temperature Index Test                       | Amb. to 500°C                         | Cl.16.1 of IS: 7098 (Pt-1)<br>IS:10810 (Pt -64)<br>(Reaffirmed)<br>ASTM D 2863-09                                     | Permanent |
| 225     |                                | Flame retardance test on bunched cables      | Up to 3.50 meter                      | Cl.16.1 of IS: 7098 (Pt-1)<br>IS:10810 (Pt -62)<br>(Reaffirmed)<br>IEC 60332-3-22<br>IEC 60332-3-23<br>IEC 60332-3-24 | Permanent |
| 226     |                                | Smoke Density                                | Up to 90%                             | Cl.16.1 of IS: 7098 (Pt-1)<br>IS 13360 (Part6/Sec9)<br>ASTM D 2843  | Permanent |
| 227     |                                | Test for light transmission                  | Up to 90%                             | Cl.16.1 of IS: 7098 (Pt-1)  | Permanent |



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| Sr. No. | Product/ Material to be tested | Parameter/ Type of test/ Properties Measured | Range of measurement/ detection limit     | Method/ Technique  | Facility  |
|---------|--------------------------------|--|---|--|-----------|
|         | Welding Cables                 |  |   | IS:10810 (Pt -63)- (Reaffirmed)  |           |
| 228     |                                | pH   | 0 to 14 pH                                | Cl.17.10 of IS: 7098 (Pt- 1)   | Permanent |
| 229     |                                | Conductivity                                 | 0 to 50 $\mu$ s/mm                        | Cl.17.10 of IS: 7098 (Pt- 1)   | Permanent |
| 230     |                                | Annealing test                               | Up to 50%                                 | Cl.10.1 of IS: 9857 (Reaffirmed)+A1<br>IS:10810 (Pt 1)<br>(Reaffirmed)   | Permanent |
| 231     |                                | Conductor resistance                         | 0.0100 to 1000 ohm/km                     | Cl.10.1 of IS: 9857 (Reaffirmed)+A1<br>IS:10810 (Pt 5)<br>(Reaffirmed)   | Permanent |
| 232     |                                | Thickness of Covering                        | 0.01mm - 150 mm                           | Cl.10.1 of IS: 9857 (Reaffirmed)+A1<br>IS:10810 (Pt 6)<br>(Reaffirmed)   | Permanent |
| 233     |                                | Tensile strength & Elongation at break       | Up to 500N/mm <sup>2</sup><br>Up to 1500% | Cl.10.1 of IS: 9857 (Reaffirmed)+A1<br>IS:10810 (Pt 7)<br>(Reaffirmed)   | Permanent |
| 234     |                                | Ageing in air oven                           | Up to 500N/mm <sup>2</sup><br>Up to 1500% | Cl.10.1 of IS: 9857 (Reaffirmed) +A1<br>IS:10810 (Pt 11)<br>(Reaffirmed) | Permanent |
| 235     |                                | Ageing in air bomb                           | Up to 500N/mm <sup>2</sup><br>Up to 1500% | Cl.10.1 of IS: 985 (Reaffirmed)+A1<br>IS:10810 (Pt 56)<br>(Reaffirmed)   | Permanent |
| 236     |                                | Oil resistance                               | Up to 500N/mm <sup>2</sup><br>Up to 1500% | Cl.10.1 of IS: 9857 (Reaffirmed)+A1                                      | Permanent |



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| Sr. No. | Product/ Material to be tested   | Parameter/ Type of test/ Properties Measured | Range of measurement/ detection limit | Method/ Technique   | Facility  |
|---------|--|--|---------------------------------------|---|-----------|
|         | 237  |  |                                       | IS: 10810 (Pt.31) (Reaffirmed)  |           |
| 237     |  | Hot Set Test                                 | Up to 300%                            | Cl.10.1 of IS: 9857 (Reaffirmed)+A1<br>IS 10810 (Pt 30) (Reaffirmed)  | Permanent |
| 238     |  | High voltage Test (Water Immersion)          | 0.01kV-10 kV                          | Cl.10.1 of IS: 9857 (Reaffirmed)+A1<br>IS:10810 (Pt 45) (Reaffirmed)  | Permanent |
| 239     |  | Static flexibility test                      | 1mm -1000mm                           | Cl.10.1 of IS: 9857 (Reaffirmed)+A1<br>IS :10810 (Pt.54) (Reaffirmed) | Permanent |
| 240     |  | Flammability test                            | Up to 600mm                           | Cl.10.1 of IS: 9857 (Reaffirmed)+A1<br>S:10810 (Pt 53) (Reaffirmed)   | Permanent |
| 241     | Halogen Free Flame Retardant (HFFR) cables for working voltage up to and including 1.1 kV. | Conductor resistance                         | 0.0100 to 1000 ohm/km                 | Table 2 of IS 17048 +A1<br>IS 10810 (Pt 5) (Reaffirmed)               | Permanent |
| 242     |  | Annealing test for copper                    | Up to 50%                             | Table 2 of IS 17048 +A1<br>IS 10810 (Pt 1) (Reaffirmed)               | Permanent |
| 243     |  | Persulphate test for tinned copper           | Up to 50g/m <sup>2</sup>              | Table 2 of IS 17048 +A1<br>IS 10810 (Pt -4) (Reaffirmed)              | Permanent |
| 244     |  | Tensile strength for Aluminium Conductor     | Up to 500N/mm <sup>2</sup>            | Table 2 of IS 17048 +A1<br>IS 10810 (Pt 2) (Reaffirmed)               | Permanent |
| 245     |  | Wrapping test for Aluminium Conductor        | Qualitative                           | Table 2 of IS 17048 +A1<br>IS 10810 (Pt 3) (Reaffirmed)               | Permanent |



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| Sr. No. | Product/ Material to be tested | Parameter/ Type of test/ Properties Measured                                 | Range of measurement/ detection limit      | Method/ Technique  | Facility  |
|---------|--------------------------------|--|--|--|-----------|
| 246     |                                | Test for Overall Dimensions and Thickness of Insulation & Sheath             | 0.01 mm -150 mm                            | Table 2 of IS 17048 +A1 IS 10810 (Pt 6) (Reaffirmed)       | Permanent |
| 247     |                                | Tensile strength & Elongation at break of insulation before and after ageing | Up to 200 N/mm <sup>2</sup><br>Up to 800 % | Table 2 of IS 17048 +A1 IS 10810 (Pt 7) (Reaffirmed)       | Permanent |
| 248     |                                | High voltage Test (AC)   | 0.01kV-35 kV                               | Cl.5.13 of IS 17048 +A1                                    | Permanent |
| 249     |                                | Insulation resistance  | 1 – 100 x 106 MΩ                           | Table 2 of IS 17048 +A1 IS 10810 (Pt 43) (Reaffirmed)      | Permanent |
| 250     |                                | Oxygen Index Test  | 21 % to 80%                                | Table 2 of IS 17048 +A1 IS 10810 (Pt 58) (Reaffirmed)      | Permanent |
| 251     |                                | Temperature Index Test   | Up to 500°C                                | Table 2 of IS 17048 +A1 IS 10810 (Pt -64) (Reaffirmed)     | Permanent |
| 252     |                                | Ageing in air oven   | Up to 500N/mm <sup>2</sup><br>Up to 1500%  | Table 2 of IS 17048 +A1 IS 10810 (Pt 11) (Reaffirmed)      | Permanent |
| 253     |                                | Hot deformation test   | Up to 90%                                  | Table 2 of IS 17048 +A1 IS 10810 (Pt 15) (Reaffirmed)      | Permanent |
| 254     |                                | Assessment of Halogen  | 0.1% to 40 % by weight                     | Table 2 of IS 17048 +A1 IS 10810(Pt-59) : +A1 (Reaffirmed) | Permanent |
| 255     |                                | Cold Impact Test   | Qualitative                                | Table 2 of IS 17048 +A1 IS 10810 (Pt 21) (Reaffirmed)      | Permanent |
| 256     |                                | Hot Set Test   | Up to 400 %                                | Table 2 of IS 17048 +A1 IS 10810 (Pt 30)                   | Permanent |



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| <b>Sr. No.</b> | <b>Product/ Material to be tested</b> | <b>Parameter/ Type of test/ Properties Measured</b>                      | <b>Range of measurement/ detection limit</b> | <b>Method/ Technique</b>                                      | <b>Facility</b> |
|----------------|---------------------------------------|--|--|---|-----------------|
| 257            |                                       | pH   | 0 to 14 pH                                   | Cl.5.7 & Annex D of IS 17048 +A1                              | Permanent       |
| 258            |                                       | Conductivity   | 0 to 50 $\mu$ s/mm                           | Cl.5.7 & Annex D of IS 17048 +A1                              | Permanent       |
| 259            |                                       | Tensile strength & Elongation at break of sheath before and after ageing | Up to 200 N/mm <sup>2</sup><br>Up to 800 %   | Table 2 of IS 17048 +A1<br>IS 10810 (Pt 7)<br>(Reaffirmed)    | Permanent       |
| 260            |                                       | Ageing in air oven   | Up to 200N/mm <sup>2</sup><br>Up to 800 %    | Table 2 of IS 17048 +A1<br>IS 10810 (Pt 11)<br>(Reaffirmed)   | Permanent       |
| 261            |                                       | Ozone resistance test  | Amb. - 100°C<br>Amb. - 99 % RH               | Table 2 of IS 17048 +A1<br>S: 10810 (Pt.13)<br>(Reaffirmed)   | Permanent       |
| 262            |                                       | Flammability test  | Up to 600 mm                                 | Table 2 of IS 17048 +A1<br>IS: 10810 (Pt 53)<br>(Reaffirmed)  | Permanent       |
| 263            |                                       | Cold Bend Test   | Qualitative                                  | Table 2 of IS 17048 +A1<br>IS 10810 (Pt 20)<br>(Reaffirmed)   | Permanent       |
| 264            |                                       | Flame Retardant Test   | Up to 850 mm                                 | Table 2 of IS 17048 +A1<br>IS 10810 (Pt 61) :<br>(Reaffirmed) | Permanent       |
| 265            |                                       | Water Immersion test (Effect of water on sheath of cable)                | Up to 200 N/mm <sup>2</sup><br>Up to 800 %   | Annex B of IS 17048 +A1<br>IS 10810 (Pt 7)<br>(Reaffirmed)    | Permanent       |
| 266            |                                       | Smoke Density  | Up to 100 %                                  | Table 2 of IS 17048 +A1<br>IS 10810 (Pt 63)<br>(Reaffirmed)   | Permanent       |
| 267            | Cables for motor vehicles             | Annealing test for Copper Conductor                                      | Up to 50 %                                   | Cl.12.1 of IS 2465<br>(Reaffirmed)+A1                         | Permanent       |



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| Sr. No. | Product/ Material to be tested | Parameter/ Type of test/ Properties Measured                             | Range of measurement/ detection limit      | Method/ Technique   | Facility  |
|---------|--------------------------------|--|--|---|-----------|
|         |                                |  |  | IS 10810 (Pt 1)<br>(Reaffirmed)   |           |
| 268     |                                | Persulphate test for copper  | Up to 20 g/m <sup>2</sup>                  | Cl.12.1 of IS 2465<br>(Reaffirmed)+A1<br>IS 10810 (Pt.4)<br>(Reaffirmed)  | Permanent |
| 269     |                                | Conductor resistance   | Up to 100 ohm/km                           | Cl.12.1 of IS 2465<br>(Reaffirmed)+A1<br>IS 10810 (Pt 5)<br>(Reaffirmed)  | Permanent |
| 270     |                                | Test for thickness of Insulation and Sheath and other dimensional checks | Up to 150 mm                               | Cl.12.1 of IS 2465<br>(Reaffirmed)+A1<br>IS 10810 (Pt 6)<br>(Reaffirmed)  | Permanent |
| 271     |                                | Tensile strength & Elongation at break of insulation & sheath            | Up to 200 N/mm <sup>2</sup><br>Up to 800 % | Cl.12.1 of IS 2465<br>(Reaffirmed)+A1<br>IS 10810 (Pt 7)<br>(Reaffirmed)  | Permanent |
| 272     |                                | Ageing in air oven   | Up to 200 N/mm <sup>2</sup><br>Up to 800 % | Cl.12.1 of IS 2465<br>(Reaffirmed)+A1<br>IS 10810 (Pt 11)<br>(Reaffirmed) | Permanent |
| 273     |                                | Loss of mass test  | Up to 10 mg/cm <sup>2</sup>                | Cl.12.1 of IS 2465<br>(Reaffirmed)+A1<br>IS 10810 (Pt 10)<br>(Reaffirmed) | Permanent |
| 274     |                                | Hot deformation test   | Up to 80 %                                 | Cl.12.1 of IS 2465<br>(Reaffirmed)+A1<br>IS 10810 (Pt 15)<br>(Reaffirmed) | Permanent |
| 275     |                                | Heat shock test  | Qualitative                                | Cl.12.1 of IS 2465<br>(Reaffirmed)+A1                                     | Permanent |



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### Scope of Accreditation for Testing

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**CAB Name:** Amit test and Calibration Centre **Page No. 30 of 76**  
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**Certificate No.:** T-0029 **Validity :** 29.12.2029  
**Amendment date:** N/A

| Sr. No. | Product/ Material to be tested | Parameter/ Type of test/ Properties Measured                              | Range of measurement/ detection limit      | Method/ Technique   | Facility  |
|---------|--------------------------------|---|--|---|-----------|
|         | 276                            |   |  | IS 10810 (Pt 14) (Reaffirmed)   |           |
| 276     |                                | Shrinkage test  | Up to 50 %                                 | Cl.12.1 of IS 2465 (Reaffirmed)+A1<br>IS 10810 (Pt 12) (Reaffirmed)       | Permanent |
| 277     |                                | Tensile strength and elongation at break of elastomer insulation & sheath | Up to 200 N/mm <sup>2</sup><br>Up to 800 % | Cl.12.1 of IS 2465 (Reaffirmed)+A1<br>IS 10810 (Pt.7) (Reaffirmed)        | Permanent |
| 278     |                                | Ageing in air oven  | Up to 200 N/mm <sup>2</sup><br>Up to 800 % | Cl.12.1 of IS 2465 (Reaffirmed)+A1<br>IS 10810 (Pt.11) (Reaffirmed)       | Permanent |
| 279     |                                | Ageing in oxygen bomb   | Up to 200 N/mm <sup>2</sup><br>Up to 800 % | Cl.12.1 of IS 2465 (Reaffirmed)+A1<br>IS 10810 (Pt.16) (Reaffirmed)       | Permanent |
| 280     |                                | High voltage (water immersion) test                                       | Up to 35 kV                                | 14.1 and 14.2 of IS 2465 (Reaffirmed)+A1<br>IS 10810 (Pt.45) (Reaffirmed) | Permanent |
| 281     |                                | Capacitance test for pvc insulation for ignition cable                    | 1pF -1100 µF<br>Up to 1000 µF              | Cl.16 of IS 2465 (Reaffirmed)+A1  | Permanent |
| 282     |                                | Ozone resistance test for ignition cable                                  | Amb. - 99 % RH<br>0.01 kV-35 kV            | Cl.17 of IS 2465 (Reaffirmed)+A1  | Permanent |
| 283     |                                | Effect of heat on flexibility for ignition cable                          | Up to 35 kV                                | Cl.18 of IS 2465 (Reaffirmed)+A1  | Permanent |
| 284     |                                | Effect of oil for ignition cable  | Up to 35 kV                                | Cl.19 of IS 2465 (Reaffirmed)+A1  | Permanent |
| 285     |                                | Effect of lubricating oil, brake fluid, diesel and petrol (for            | Amb. - 3000C                               | Cl.20 of IS 2465 (Reaffirmed)+A1  | Permanent |



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**Amendment date:** N/A

| <b>Sr. No.</b> | <b>Product/ Material to be tested</b>   | <b>Parameter/ Type of test/ Properties Measured</b>          | <b>Range of measurement/ detection limit</b> | <b>Method/ Technique</b>   | <b>Facility</b> |
|----------------|---|--|--|--|-----------------|
|                | 286   | general wiring cables)                                       |  |  |                 |
| 286            |   | Effect of cooling on flexibility                             | Qualitative                                  | Cl.21 of IS 2465 (Reaffirmed)+A1   | Permanent       |
| 287            |   | Cold bend test   | Qualitative                                  | Cl.12.1 of IS 2465 (Reaffirmed)+A1<br>IS 10810 (Pt 20) (Reaffirmed)              | Permanent       |
| 288            |   | Cold impact test   | Qualitative                                  | IS 2465 (Reaffirmed)+A1<br>IS 10810 (Pt 21) (Reaffirmed)                         | Permanent       |
| 289            |   | Flammability test (for general wiring cables)                | Up to 600 mm                                 | Cl.22 of IS 2465 (Reaffirmed)+A1<br>IS 10810 (Pt 53) (Reaffirmed)                | Permanent       |
| 290            | Elastomer insulated cables with Limited Circuit Integrity when Affected by Fire – Specification | Persulphate test for copper                                  | Up to 50g/m <sup>2</sup>                     | Table 1 and Table 2 of IS 16246 (Reaffirmed)+A1<br>IS 10810 (Pt -4) (Reaffirmed) | Permanent       |
| 291            |   | Dimension for armouring material                             | 0.01mm to 25 mm                              | Table 1 and Table 2 of IS 16246 (Reaffirmed)+A1<br>IS 10810 (Pt 36) (Reaffirmed) | Permanent       |
| 292            |   | Tensile strength & Elongation at break of armouring material | Up to 500N/mm <sup>2</sup><br>Up to 50%      | Table 1 and Table 2 of IS 16246 (Reaffirmed)+A1<br>IS 10810 (Pt 37) (Reaffirmed) | Permanent       |



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**Amendment date:** N/A

| Sr. No. | Product/ Material to be tested | Parameter/ Type of test/ Properties Measured                                 | Range of measurement/ detection limit     | Method/ Technique   | Facility  |
|---------|--------------------------------|--|---|---|-----------|
| 293     |                                | Torsion test on Galvanized steel wire for armouring                          | Qualitative                               | Table 1 and Table 2 of IS 16246 (Reaffirmed)+A1 IS 10810 (Pt 38) (Reaffirmed) | Permanent |
| 294     |                                | Winding test on Galvanized steel strips for armouring                        | Qualitative                               | Table 1 and Table 2 of IS 16246 (Reaffirmed)+A1 IS 10810 (Pt 39) (Reaffirmed) | Permanent |
| 295     |                                | Uniformity of Zinc coating   | Qualitative                               | Table 1 and Table 2 of IS 16246 (Reaffirmed)+A1 IS 10810 (Pt 40) (Reaffirmed) | Permanent |
| 296     |                                | Mass of Zinc coating   | Up to 500 gm/ m <sup>2</sup>              | Table 1 and Table 2 of IS 16246 (Reaffirmed)+A1 IS 10810 (Pt 41) (Reaffirmed) | Permanent |
| 297     |                                | Test for thickness of insulation and sheath                                  | 0.01mm - 150 mm                           | Table 1 and Table 2 of IS 16246 (Reaffirmed)+A1 IS 10810 (Pt 6) (Reaffirmed)  | Permanent |
| 298     |                                | Tensile strength & elongation at break before ageing for insulation & Sheath | Up to 500N/mm <sup>2</sup><br>Up to 1500% | Table 1 and Table 2 of IS 16246 (Reaffirmed)+A1 IS 10810 (Pt 7) (Reaffirmed)  | Permanent |
| 299     |                                | Ageing in air oven for insulation & Sheath                                   | Up to 500N/mm <sup>2</sup><br>Up to 1500% | Table 1 and Table 2 of IS 16246 (Reaffirmed)+A1                               | Permanent |



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**Amendment date:** N/A

| Sr. No. | Product/ Material to be tested | Parameter/ Type of test/ Properties Measured | Range of measurement/ detection limit     | Method/ Technique   | Facility  |
|---------|--------------------------------|--|---|---|-----------|
|         | 300                            |  |   | IS 10810 (Pt 11)<br>(Reaffirmed)  |           |
| 300     |                                | Ageing in air bomb for insulation            | Up to 500N/mm <sup>2</sup><br>Up to 1500% | Table 1 and Table 2 of IS 16246<br>(Reaffirmed)+A1<br>IS 10810 (Pt 56)<br>(Reaffirmed)  | Permanent |
| 301     |                                | Hot set test for insulation & Sheath         | Up to 200%                                | Table 1 and Table 2 of IS 16246<br>(Reaffirmed)+A1<br>IS 10810 (Pt.30)<br>(Reaffirmed)  | Permanent |
| 302     |                                | Ageing in air bomb for sheath                | Up to 500N/mm <sup>2</sup><br>Up to 1500% | Table 1 and Table 2 of IS 16246<br>(Reaffirmed)+A1<br>IS 10810 (Pt 56)<br>(Reaffirmed)  | Permanent |
| 303     |                                | Oxygen Index test                            | 21 % to 80%                               | Table 1 and Table 2 of IS 16246<br>(Reaffirmed)+A1<br>IS 10810 (Pt 58)<br>(Reaffirmed)  | Permanent |
| 304     |                                | Temperature Index test                       | Amb. to 500°C                             | Table 1 and Table 2 of IS 16246<br>(Reaffirmed)+A1<br>IS 10810 (Pt 64)<br>(Reaffirmed)  | Permanent |
| 305     |                                | Halogen acid gas evolved test                | Up to 50%                                 | Table 1 and Table 2 of IS 16246<br>(Reaffirmed)+A1<br>IS:10810(Pt-59) :<br>(Reaffirmed) | Permanent |



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**Amendment date:** N/A

| Sr. No. | Product/ Material to be tested                                     | Parameter/ Type of test/ Properties Measured | Range of measurement/ detection limit | Method/ Technique   | Facility  |
|---------|--|--|---------------------------------------|---|-----------|
| 306     |  | High voltage test                            | Up to 35 kV                           | Table 1 and Table 2 of IS 16246 (Reaffirmed)+A1 IS 10810 (Pt.45) (Reaffirmed)     | Permanent |
| 307     |  | Insulation resistance                        | 1 – 100 x10 <sup>6</sup> MΩ           | Table 1 and Table 2 of IS 16246 (Reaffirmed)+A1 IS 10810 (Pt.43) (Reaffirmed)     | Permanent |
| 308     |  | Water absorption test (Electrical)           | Up to 20 %                            | Table 1 and Table 2 of IS 16246 (Reaffirmed)+A1 IS 10810 (Pt.28) (Reaffirmed)     | Permanent |
| 309     |  | Flame Retardant Test                         | Up to 850 mm                          | Table 1 and Table 2 of IS 16246 (Reaffirmed)+A1 IS 10810(Pt 61): +A1 (Reaffirmed) | Permanent |
| 310     |  | Flame Retardance test on bunched cables      | Up to 3.50 meter                      | Table 1 and Table 2 of IS 16246 (Reaffirmed)+A1 IS 10810 (Pt -62) (Reaffirmed)    | Permanent |
| 311     |  | Circuit Integrity test                       | Up to 3000 volts<br>Up to 10 Amp.     | Table 1 and Table 2 of IS 16246 (Reaffirmed)+A1 IS 16246 (Annex-B)                | Permanent |
| 312     | Specification for Thermosetting Insulated Fire Survival Cables for | Annealing test (for copper)                  | Up to 50%                             | Table 1 and Table 2 of IS 17505 (Part 1) : +A1 IS 10810 (Pt-1) Reaffirmed)        | Permanent |



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**Amendment date:** N/A

| Sr. No. | Product/ Material to be tested  | Parameter/ Type of test/ Properties Measured         | Range of measurement/ detection limit | Method/ Technique   | Facility  |
|---------|---|--|---------------------------------------|---|-----------|
| 313     | Fixed Installation having Low Emission of Smoke and Corrosive Gases when Affected by Fire for Working Voltages upto and including 1100 Vac and 1500 Vdc | Conductor Resistance test                            | 0.0100 to 1000 ohm/km                 | Table 1 and Table 2 of IS 17505 (Part 1) : +A1 IS 10810 (Pt-5) Reaffirmed)  | Permanent |
| 314     |   | Persulphate test ( for tinned copper conductor only) | Up to 50g/m <sup>2</sup>              | Table 1 and Table 2 of IS 17505 (Part 1) : +A1 IS 10810 (Pt-4) Reaffirmed)  | Permanent |
| 315     |   | Shrinkage test for insulation                        | Up to 50%                             | Table 1 and Table 2 of IS 17505 (Part 1) : +A1 IS 10810 (Pt-12) Reaffirmed) | Permanent |
| 316     |   | Heat shock test for sheath                           | Qualitative                           | Table 1 and Table 2 of IS 17505 (Part 1) : +A1 IS 10810 (Pt-14) Reaffirmed) | Permanent |
| 317     |   | Cold bend test for sheath                            | Qualitative                           | Table 1 and Table 2 of IS 17505 (Part 1) : +A1 IS 10810 (Pt-20) Reaffirmed) | Permanent |
| 318     |   | Cold impact test for sheath                          | Qualitative                           | Table 1 and Table 2 of IS 17505 (Part 1) : +A1 IS 10810 (Pt-21) Reaffirmed) | Permanent |
| 319     |   | Water absorption test (gravimetric) for insulation   | Up to 100mg/cm <sup>2</sup>           | Table 1 and Table 2 of IS 17505 (Part 1) : +A1 IS 10810 (Pt-33) Reaffirmed) | Permanent |
| 320     |   | Assessment of halogen for sheath                     | Up to 50%                             | Annex F of IS IS 17505 (Part 1) : +A1                                       | Permanent |
| 321     |   | Test for smoke density                               | Up to 100 %                           | Table 1 and Table 2 of IS 17505 (Part 1) : +A1                              | Permanent |



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| Sr. No. | Product/ Material to be tested                                       | Parameter/ Type of test/ Properties Measured                           | Range of measurement/ detection limit      | Method/ Technique  | Facility  |
|---------|--|--|--|--|-----------|
|         |  |  |  | IS 10810 (Pt-63)<br>Reaffirmed)  |           |
| 322     |  | Ozone resistance test for Insulation & Sheath                          | Qualitative                                | Table 1 and Table 2 of IS 17505 (Part 1) : +A1<br>IS 10810 (Pt-13)<br>Reaffirmed)      | Permanent |
| 323     |  | Insulation resistance test for insulation                              | 1 – 100 x10 <sup>6</sup> MΩ                | Table 1 and Table 2 of IS 17505 (Part 1) : +A1<br>IS 10810 (Pt-43)<br>Reaffirmed)      | Permanent |
| 324     |  | Water immersion test (effect of water on sheath)                       | Up to 200 N/mm <sup>2</sup><br>Up to 800 % | Cl. 18.9 of IS 17505 (Part 1) : +A1  | Permanent |
| 325     |  | High voltage test  | Qualitative                                | Table 1 and Table 2 of IS 17505 (Part 1) : +A1<br>IS 10810 (Pt-45):<br>Reaffirmed)     | Permanent |
| 326     |  | Flammability Test: Flame test on single core                           | Up to 850 mm                               | Table 1 and Table 2 of IS 17505 (Part 1) : +A1<br>IS 10810 (Pt-61): +A1<br>Reaffirmed) | Permanent |
| 327     |  | Circuit Integrity test under fire Cat F3, Cat F 30, Cat F 60, Cat F120 | Qualitative                                | Annex E of IS 17505 (Part 1) : +A1   | Permanent |
| 328     |  | Abrasion Resistance test   | Qualitative                                | Annex D of IS 17505 (Part 1) : +A1   | Permanent |
| 329     | Electric Cables for Photovoltaic systems for rated voltage 1500 d.c. | Conductor Resistance   | 0.0100 to 1000 ohm/km                      | IS 17293 Table -3  | Permanent |
| 330     |  | Voltage test on complete cable with a.c. or d.c.                       | Qualitative                                | IS 17293 Cl.5.1&6.1 & Annex B  | Permanent |
| 331     |  | Measurement of Insulation resistance                                   | 1 – 100 x10 <sup>6</sup> MΩ                | IS 17293 Cl.11.2.3 & Table- 1,2,3  | Permanent |



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| <b>Sr. No.</b> | <b>Product/ Material to be tested</b> | <b>Parameter/ Type of test/ Properties Measured</b>               | <b>Range of measurement/ detection limit</b> | <b>Method/ Technique</b>             | <b>Facility</b> |
|----------------|---------------------------------------|---|--|--------------------------------------|-----------------|
| 332            |                                       | Long term resistance of insulation to d.c.                        | Qualitative                                  | IS 17293 Cl.11.2.4 & Table-3         | Permanent       |
| 333            |                                       | Surface resistance of sheath                                      | 1 – 100 x10 <sup>6</sup> MΩ                  | IS 17293 Table -3 Cl.11.2.5          | Permanent       |
| 334            |                                       | Diameter of conductor   | 0.01mm - 150 mm                              | IS 17293                             | Permanent       |
| 335            |                                       | Checking Continuity of Tin ( Persulphate test)                    | Up to 50g/m <sup>2</sup>                     | IS 17293 Table no-3                  | Permanent       |
| 336            |                                       | Insulation and sheath thickness                                   | 0.01mm - 150 mm                              | IS 17293 Cl.5.3 & 6.3 & Table -1,2,3 | Permanent       |
| 337            |                                       | Ovality   | 0.01mm - 150 mm                              | IS 17293 Table -3 & Cl. 11.3.3       | Permanent       |
| 338            |                                       | Sheath Colour   | Qualitative                                  | IS 17293 Table -3                    | Permanent       |
| 339            |                                       | Sheath Marking  | Qualitative                                  | IS 17293 Table -3                    | Permanent       |
| 340            |                                       | Tensile strength and elongation at break on insulation and sheath | Up to 500N/mm <sup>2</sup><br>Up to 1500%    | IS 17293 Annex B & Table 11          | Permanent       |
| 341            |                                       | Ageing in air oven  | Up to 500N/mm <sup>2</sup><br>Up to 1500%    | IS 17293 Cl.5.1&6.1 & Annex B        | Permanent       |
| 342            |                                       | Hot set test  | Up to 200%                                   | IS 17293 Table - 11& Annex B         | Permanent       |
| 343            |                                       | Thermal endurance test  | Qualitative                                  | IS 17293 Annex B & Table 11          | Permanent       |
| 344            |                                       | Bending test at low temperature                                   | Qualitative                                  | IS 17293 Table no-3                  | Permanent       |
| 345            |                                       | Elongation at low temperature                                     | Qualitative                                  | IS 17293 Table no-3                  | Permanent       |
| 346            |                                       | Sheath resistance against acid and alkaline solution              | Up to 500N/mm <sup>2</sup><br>Up to 1500%    | IS 17293 Table 11 & Annex I          | Permanent       |



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| Sr. No. | Product/ Material to be tested | Parameter/ Type of test/ Properties Measured   | Range of measurement/ detection limit     | Method/ Technique             | Facility  |
|---------|--------------------------------|--|---|-------------------------------|-----------|
| 347     |                                | Compatibility test   | Up to 500 N/mm <sup>2</sup> Up to 1500%   | IS 17293 Table - 3 & 11       | Permanent |
| 348     |                                | Cold impact test   | Qualitative                               | IS 17293 Table no-3 & Annex C | Permanent |
| 349     |                                | Ozone resistance test on complete cable  | Qualitative                               | IS 17293 Table -3 Annex G     | Permanent |
| 350     |                                | Weathering/UV resistance test  | Up to 500N/mm <sup>2</sup><br>Up to 1500% | IS 17293 Annex E & Table - 3  | Permanent |
| 351     |                                | Dynamic Penetration test   | Up to 2000 N                              | IS 17293 Table 3 & Annex D    | Permanent |
| 352     |                                | Damp Heat test   | Up to 500N/mm <sup>2</sup><br>Up to 1500% | IS 17293 Table -3 & Annex H   | Permanent |
| 353     |                                | Shrinkage test   | Up to 50%                                 | IS 17293 Table -3             | Permanent |
| 354     |                                | Test for Vertical flame propagation on complete cable  | Up to 3.50 meter                          | IS 17293 Table -3             | Permanent |
| 355     |                                | Smoke emission of complete cable   | Up to 100 %                               | IS 17293 Table -3             | Permanent |
| 356     |                                | Assessment of halogen on insulation and sheath<br>- Chlorine and bromine content expressed as content of HCL | Up to 50%                                 | IS 17293 Table -3 Annex J     | Permanent |
| 357     |                                | Assessment of halogen on insulation and sheath<br>- Conductivity test  | 0 to 10 $\mu$ s/mm                        | IS 17293 Table -3 Annex J     | Permanent |
| 358     |                                | Assessment of halogen on insulation and sheath<br>- Fluorine content   | Qualitative                               | IS 17293 Table -3 Annex J     | Permanent |



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| <b>Sr. No.</b> | <b>Product/ Material to be tested</b>  | <b>Parameter/ Type of test/ Properties Measured</b>                   | <b>Range of measurement/ detection limit</b> | <b>Method/ Technique</b>  | <b>Facility</b> |
|----------------|--|---|--|---|-----------------|
| 359            |  | Assessment of halogen on insulation and sheath - Presence of fluorine | Up to 10 %                                   | IS 17293 Table -3 Annex J   | Permanent       |
| 360            |  | Assessment of halogen on insulation and sheath- pH test               | 0 to 14 pH                                   | IS 17293 Table -3 Annex J   | Permanent       |
| 361            | PVC insulated (heavy duty) Electric cables for working voltage from 3.3 kV up to and including 11kV. | Annealing test for copper Conductor                                   | Up to 50%                                    | Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 IS:10810 (Pt 1 (Reaffirmed)  | Permanent       |
| 362            |  | Tensile strength for Aluminium Conductor                              | Up to 500N/mm <sup>2</sup>                   | Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 IS:10810 (Pt 2 (Reaffirmed)  | Permanent       |
| 363            |  | Wrapping test for Aluminium Conductor                                 | Qualitative                                  | Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 IS:10810 (Pt 3 (Reaffirmed)  | Permanent       |
| 364            |  | Conductor resistance  | 0.0100 to 1000 ohm/km                        | Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 IS:10810 (Pt 5 (Reaffirmed)  | Permanent       |
| 365            |  | Dimension for armouring material                                      | 0.01mm to 25 mm                              | Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 IS:10810 (Pt 36 (Reaffirmed) | Permanent       |
| 366            |  | Tensile strength & Elongation at break of armouring material          | Up to 500N/mm <sup>2</sup><br>Up to 50%      | Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 IS:10810 (Pt 37 (Reaffirmed) | Permanent       |
| 367            |  | Torsion test on Galvanized steel wire for armouring                   | Qualitative                                  | Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4                              | Permanent       |



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**Address:** 45/7, Village Prahaladpur Bangar, Rohini sector-30, Near Kali Mata Mandir, New Delhi -110042, Delhi **Issue date :** 30.12.2025  
**Certificate No.:** T-0029 **Validity :** 29.12.2029  
**Amendment date:** N/A

| Sr. No. | Product/ Material to be tested | Parameter/ Type of test/ Properties Measured                  | Range of measurement/ detection limit     | Method/ Technique   | Facility  |
|---------|--------------------------------|---|---|---|-----------|
|         | 368                            |   |   | IS:10810 (Pt 38 (Reaffirmed)  |           |
| 368     |                                | Winding test on Galvanized steel strips for armouring         | Qualitative                               | Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4<br>IS:10810 (Pt 39 (Reaffirmed)  | Permanent |
| 369     |                                | Uniformity of Zinc coating                                    | Qualitative                               | Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4<br>IS:10810 (Pt 40 (Reaffirmed)  | Permanent |
| 370     |                                | Mass of Zinc coating  | Up to 500 gm/ m <sup>2</sup>              | Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4<br>IS:10810 (Pt 41 ((Reaffirmed) | Permanent |
| 371     |                                | Resistivity & Conductance test of Armour (Wires/strips)       | Up to 20 x10 <sup>6</sup> ohm-cm          | Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4<br>IS:10810 (Pt 42 (Reaffirmed)  | Permanent |
| 372     |                                | Thickness of Insulation & Sheath                              | 0.01mm - 150 mm                           | Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4<br>IS:10810 (Pt 6 (Reaffirmed)   | Permanent |
| 373     |                                | Tensile strength & Elongation at break of insulation & sheath | Up to 500N/mm <sup>2</sup><br>Up to 1500% | Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4<br>IS:10810 (Pt 7 (Reaffirmed)   | Permanent |
| 374     |                                | Loss of mass test   | Up to 100 mg/cm <sup>2</sup>              | Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4<br>IS:10810 (Pt 10 (Reaffirmed)  | Permanent |
| 375     |                                | Ageing in air oven  | Up to 500N/mm <sup>2</sup><br>Up to 1500% | Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4                                  | Permanent |



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**Amendment date:** N/A

| Sr. No. | Product/ Material to be tested | Parameter/ Type of test/ Properties Measured | Range of measurement/ detection limit | Method/ Technique  | Facility  |
|---------|--------------------------------|--|---------------------------------------|--|-----------|
|         | 376                            |  |                                       | IS:10810 (Pt 11 (Reaffirmed)   |           |
| 376     |                                | Shrinkage test                               | Up to 50%                             | Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4<br>IS:10810 (Pt 12 (Reaffirmed)   | Permanent |
| 377     |                                | Heat shock test                              | Qualitative                           | Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4<br>IS:10810 (Pt 14 (Reaffirmed)   | Permanent |
| 378     |                                | Hot deformation test                         | Up to 90%                             | Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4<br>IS:10810 (Pt 15 (Reaffirmed)   | Permanent |
| 379     |                                | Thermal Stability                            | Up to 500 Minute                      | Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4<br>IS:10810 (Pt 60)- (Reaffirmed) | Permanent |
| 380     |                                | Water Absorption (Gravimetric)               | Up to 20 mg/cm <sup>2</sup>           | Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4<br>IS: 10810 (Pt 33) (Reaffirmed) | Permanent |
| 381     |                                | Insulation resistance                        | 1 - 100x10 <sup>6</sup> MΩ            | Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4<br>IS:10810 (Pt 43 (Reaffirmed)   | Permanent |
| 382     |                                | Volume Resistivity                           | 1 - 100x10 <sup>6</sup> MΩ            | Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4<br>IS:10810 (Pt 43 (Reaffirmed)   | Permanent |
| 383     |                                | Flammability test                            | Up to 600mm                           | Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4                                   | Permanent |



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**Amendment date:** N/A

| Sr. No. | Product/ Material to be tested | Parameter/ Type of test/ Properties Measured | Range of measurement/ detection limit | Method/ Technique   | Facility  |
|---------|--------------------------------|--|---------------------------------------|---|-----------|
|         |                                |  |                                       | IS:10810 (Pt 53)<br>(Reaffirmed)  |           |
| 384     |                                | High voltage Test (AC)                       | 0.01kV-35 kV<br>Up to 35 kV           | Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4<br>IS 10810 (Pt 45)<br>(Reaffirmed)  | Permanent |
| 385     |                                | Cold Impact Test                             | Qualitative                           | Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4<br>IS:10810 (Pt 21)<br>(Reaffirmed)  | Permanent |
| 386     |                                | Armour Resistance Test                       | 0.0100 to 1000 ohm/km                 | Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4<br>IS:10810 (Pt 42)<br>(Reaffirmed)  | Permanent |
| 387     |                                | Oxygen Index Test                            | 21 % to 80%                           | Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4<br>IS:10810 (Pt 58)-<br>(Reaffirmed)<br>ASTM D 2863- 09                                    | Permanent |
| 388     |                                | Flame Retardance Test on Single Cable        | Up to 1000mm                          | Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4<br>IS:10810 (Pt 61) +A1<br>(Reaffirmed) SS-424-1475  | Permanent |
| 389     |                                | Flame Retardance test on bunched cables      | Up to 3.50 meter                      | Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4<br>IS:10810 (Pt -62)<br>(Reaffirmed)<br>IEC 60332-3-22<br>IEC 60332-3-23<br>IEC 60332-3-24 | Permanent |
| 390     |                                | Halogen Acid Gas                             | Up to 50%                             | Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4  | Permanent |



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**Amendment date:** N/A

| Sr. No. | Product/ Material to be tested | Parameter/ Type of test/ Properties Measured | Range of measurement/ detection limit | Method/ Technique   | Facility  |
|---------|--------------------------------|--|---------------------------------------|---|-----------|
|         |                                |  |                                       | IS:10810(Pt-59) - (Reaffirmed)<br>IEC 60754-1   |           |
| 391     |                                | Smoke Density                                | Up to 90%                             | Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4<br>ASTM D 2843   | Permanent |
| 392     |                                | Temperature Index Test                       | Amb. to 200°C                         | Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4<br>IS:10810 (Pt -64)<br>(Reaffirmed)<br>ASTM D 2863-09 | Permanent |
| 393     |                                | Bending Test                                 | Qualitative                           | Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4<br>IS10810(Pt 50)<br>(Reaffirmed)                      | Permanent |
| 394     |                                | Partial Discharge test                       | 2pC to1000 pC                         | Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4<br>IS 10810(Pt46))<br>(Reaffirmed)                     | Permanent |
| 395     |                                | Impulse withstand test                       | Qualitative                           | Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4<br>IS10810(Pt47)<br>(Reaffirmed)                       | Permanent |
| 396     |                                | Dielectric power factor test                 | Others:0.0002 to0.100tan delta        | Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4<br>IS 10810(Pt48)<br>(Reaffirmed)                      | Permanent |
| 397     |                                | Heating Cycle Test                           | Qualitative                           | Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4<br>IS 10810(Pt49)<br>(Reaffirmed)                      | Permanent |
| 398     | Cross Linked Polyethylene      | Annealing test for copper Conductor          | Up to 50%                             | Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2   | Permanent |



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**Amendment date:** N/A

| Sr. No. | Product/ Material to be tested  | Parameter/ Type of test/ Properties Measured                 | Range of measurement/ detection limit   | Method/ Technique   | Facility  |
|---------|---|--|---|---|-----------|
|         | Insulated Thermo Plastic sheathed cables for working voltages from 3.3 kV up to & including 33 kV |  |   | IS:10810 (Pt 1 (Reaffirmed)   |           |
| 399     |   | Tensile strength for Aluminium Conductor                     | Up to 500N/mm <sup>2</sup>              | Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2<br>IS:10810 (Pt 2 (Reaffirmed)  | Permanent |
| 400     |   | Wrapping test for Aluminum Conductor                         | Qualitative                             | Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2<br>IS:10810 (Pt 3 (Reaffirmed)  | Permanent |
| 401     |   | Conductor resistance   | 0.0100 to 1000 ohm/km                   | Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2<br>IS:10810 (Pt 5 (Reaffirmed)  | Permanent |
| 402     |   | Dimension for armouring material                             | 0.01mm to 25 mm                         | Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2<br>IS:10810 (Pt 36 (Reaffirmed) | Permanent |
| 403     |   | Tensile strength & Elongation at break of armouring material | Up to 500N/mm <sup>2</sup><br>Up to 50% | Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2<br>IS:10810 (Pt 37 (Reaffirmed) | Permanent |
| 404     |   | Torsion test on Galvanized steel wire for armouring          | Qualitative                             | Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2<br>IS:10810 (Pt 38 (Reaffirmed) | Permanent |
| 405     |   | Winding test on Galvanized steel strips for armouring        | Qualitative                             | Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2<br>IS:10810 (Pt 39 (Reaffirmed) | Permanent |
| 406     |   | Uniformity of Zinc coating                                   | Qualitative                             | Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2                                 | Permanent |



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**Amendment date:** N/A

| Sr. No. | Product/ Material to be tested | Parameter/ Type of test/ Properties Measured                  | Range of measurement/ detection limit     | Method/ Technique   | Facility  |
|---------|--------------------------------|---|---|---|-----------|
| 407     |                                | Mass of Zinc coating  | Up to 500 gm/ m <sup>2</sup>              | IS:10810 (Pt 40 (Reaffirmed)<br>Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2<br>IS:10810 (Pt 41 (Reaffirmed) | Permanent |
| 408     |                                | Resistivity & Conductance test of Armour (Wires/strips)       | Up to 20 x10 <sup>6</sup> ohm-cm          | Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2<br>IS:10810 (Pt 42 (Reaffirmed)                                 | Permanent |
| 409     |                                | Thickness of Insulation (eccentricity) &Sheath                | 0.01mm - 150 mm                           | Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2<br>IS:10810 (Pt 6 (Reaffirmed)                                  | Permanent |
| 410     |                                | Tensile strength & Elongation at break of insulation & sheath | Up to 500N/mm <sup>2</sup><br>Up to 1500% | Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2<br>IS:10810 (Pt 7 (Reaffirmed)                                  | Permanent |
| 411     |                                | Loss of mass test   | Up to 100 mg/cm <sup>2</sup>              | Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2<br>IS:10810 (Pt 10 (Reaffirmed)                                 | Permanent |
| 412     |                                | Ageing in air oven  | Up to 500N/mm <sup>2</sup><br>Up to 1500% | Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2<br>IS:10810 (Pt 11 (Reaffirmed)                                 | Permanent |
| 413     |                                | Hot Set Test  | Up to 200%                                | Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2<br>IS 10810 (Pt 30 (Reaffirmed)                                 | Permanent |
| 414     |                                | Shrinkage test  | Up to 50%                                 | Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2   | Permanent |



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**Amendment date:** N/A

| Sr. No. | Product/ Material to be tested | Parameter/ Type of test/ Properties Measured | Range of measurement/ detection limit     | Method/ Technique   | Facility  |
|---------|--------------------------------|--|---|---|-----------|
| 415     |                                |  |   | IS:10810 (Pt 12 (Reaffirmed)  |           |
| 416     |                                | Heat shock test                              | Qualitative                               | Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2<br>IS:10810 (Pt 14 (Reaffirmed) | Permanent |
| 417     |                                | Hot deformation test                         | Up to 90%                                 | Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2<br>IS:10810 (Pt 15 (Reaffirmed) | Permanent |
| 418     |                                | Water Absorption (Gravimetric)               | Up to 20 mg/cm <sup>2</sup>               | Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2<br>IS:10810 (Pt 33 (Reaffirmed) | Permanent |
| 419     |                                | Thermal Stability (for sheath)               | Up to 500 minutes                         | Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2<br>IS:10810 (Pt 60 (Reaffirmed) | Permanent |
| 420     |                                | Thermal ageing test for complete cable       | Up to 500N/mm <sup>2</sup><br>Up to 1500% | Cl.20.9 of IS:7098 (Part-2) (Reaffirmed)+A2                                 | Permanent |
| 421     |                                | Insulation resistance (Volume Resistivity)   | 1 - 100x10 <sup>6</sup> MΩ                | Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2<br>IS:10810 (Pt 43 (Reaffirmed) | Permanent |
| 422     |                                | Flammability test (for PVC sheathed cable)   | Up to 600mm                               | Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2<br>IS:10810 (Pt 53 (Reaffirmed) | Permanent |
|         |                                | High voltage Test (AC)                       | Up to 35 kV                               | Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2<br>IS 10810 (Pt 45 (Reaffirmed) | Permanent |



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| <b>Sr. No.</b> | <b>Product/ Material to be tested</b> | <b>Parameter/ Type of test/ Properties Measured</b> | <b>Range of measurement/ detection limit</b> | <b>Method/ Technique</b>  | <b>Facility</b> |
|----------------|---------------------------------------|---|--|---|-----------------|
| 423            |                                       | Armour Resistance Test                              | 0.0100 to 1000 ohm/km                        | Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2<br>IS:10810 (Pt 42) (Reaffirmed)  | Permanent       |
| 424            |                                       | Cold Impact Test                                    | Qualitative                                  | Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2<br>IS:10810 (Pt 21) (Reaffirmed)  | Permanent       |
| 425            |                                       | Oxygen Index Test                                   | 21 % to 80%                                  | Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2<br>IS: 10810 (Pt 58) (Reaffirmed)   | Permanent       |
| 426            |                                       | Flame Retardance Test on Single Cable               | Up to 850 mm                                 | Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2<br>IS 10810 (Pt 61) - +A1 (Reaffirmed)SS-424-1475                                     | Permanent       |
| 427            |                                       | Flame retardance test on bunched cables             | Up to 3.50 meter                             | Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2<br>IS:10810 (Pt -62)- 1984 (Reaffirmed) IEC 60332-3-22, IEC 60332-3-23 IEC 60332-3-24 | Permanent       |
| 428            |                                       | Halogen Acid Gas                                    | Up to 50%                                    | Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2<br>IS:10810(Pt-59) (Reaffirmed)<br>IEC 60754-1  | Permanent       |
| 429            |                                       | Smoke Density                                       | Up to 90%                                    | Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2<br>ASTM D 284   | Permanent       |



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| <b>Sr. No.</b> | <b>Product/ Material to be tested</b> | <b>Parameter/ Type of test/ Properties Measured</b>                   | <b>Range of measurement/ detection limit</b> | <b>Method/ Technique</b>   | <b>Facility</b> |
|----------------|---------------------------------------|---|--|--|-----------------|
| 430            |                                       | Temperature Index Test  | Amb. to 500°C                                | Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2<br>IS:10810 (Pt -64)<br>(Reaffirmed)<br>ASTM D 2863-09 | Permanent       |
| 431            |                                       | Bending Test  | Qualitative                                  | Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2<br>IS10810(Pt 50)<br>(Reaffirmed)                      | Permanent       |
| 432            |                                       | Partial Discharge test  | 2pC to1000 pC                                | Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2<br>IS 10810(Pt46)<br>(Reaffirmed)                      | Permanent       |
| 433            |                                       | Impulse withstand test  | Qualitative                                  | Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2<br>IS10810(Pt47)<br>(Reaffirmed)                       | Permanent       |
| 434            |                                       | Dielectric power factor test  | Others:0.0002 to0.100tan delta               | Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2<br>IS 10810(Pt48)<br>(Reaffirmed)                      | Permanent       |
| 435            |                                       | Heating Cycle Test  | Qualitative                                  | Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2<br>IS 10810(Pt49)<br>(Reaffirmed)                      | Permanent       |
| 436            |                                       | Test for strippability of semiconducting strippable insulation screen | Others: up to 50 N                           | Table 2 and Annex B of IS:7098 (Part-2)<br>(Reaffirmed)+A2   | Permanent       |
| 437            |                                       | Test on Extruded semi conducting screens Volume Resistivity           | Others: up to 1000 ohmm                      | Table 2 and Annex E of IS:7098 (Part-2)<br>(Reaffirmed)+A2   | Permanent       |
| 438            |                                       | Carbon black content of PE Sheath                                     | upto 50%                                     | Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2  | Permanent       |



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| Sr. No. | Product/ Material to be tested   | Parameter/ Type of test/ Properties Measured                  | Range of measurement/ detection limit     | Method/ Technique   | Facility  |
|---------|--|---|---|---|-----------|
|         |  |   |   | IS 10810(Pt32)<br>(Reaffirmed)  |           |
| 439     | Cross Linked Polyethylene Insulated Thermo Plastic sheathed cables for working voltages up to 66 KV only | Annealing test for copper Conductor                           | Up to 50%                                 | Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4<br>IS:10810 (Pt 1 (Reaffirmed)  | Permanent |
| 440     |  | Conductor resistance  | 0.0100 to 1000 ohm/km                     | Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4<br>IS:10810 (Pt 5 (Reaffirmed)  | Permanent |
| 441     |  | Dimension for armouring material                              | 0.01mm to 25 mm                           | Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4<br>IS:10810 (Pt 36 (Reaffirmed) | Permanent |
| 442     |  | Tensile strength & Elongation at break of armouring material  | Up to 500N/mm <sup>2</sup><br>Up to 50%   | Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4<br>IS:10810 (Pt 37 (Reaffirmed) | Permanent |
| 443     |  | Resistivity test of Armour (Wires/strips)                     | Up to 20 x10 <sup>6</sup> ohm-cm          | Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4<br>IS:10810 (Pt 42 (Reaffirmed) | Permanent |
| 444     |  | Measurement of capacitance Test                               | 1pF -1100 µF<br>Up to 1000 µF             | Cl.20.18 of IS:7098 (Part-3)<br>(Reaffirmed)+A4                             | Permanent |
| 445     |  | Thickness of Insulation (eccentricity) &Sheath                | 0.01mm - 150 mm                           | Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4<br>IS:10810 (Pt 6 (Reaffirmed)  | Permanent |
| 446     |  | Tensile strength & Elongation at break of insulation & sheath | Up to 500N/mm <sup>2</sup><br>Up to 1500% | Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4<br>IS:10810 (Pt 7 (Reaffirmed)  | Permanent |



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**Reg Office:** 307/20, 2nd Lane No. 5A, Ranjit Nagar, New Delhi 110008, India

**Scope of Accreditation for Testing**

As per ISO/IEC 17025:2017

**CAB Name:** Amit test and Calibration Centre Page No. **50** of **76**  
**Address:** 45/7, Village Prahaladpur Bangar, Rohini sector-30, Near Kali Mata Mandir, New Delhi -110042, Delhi  
**Certificate No.:** T-0029 **Issue date** : 30.12.2025  
**Validity** : 29.12.2029  
**Amendment date:** N/A

| <b>Sr. No.</b> | <b>Product/ Material to be tested</b> | <b>Parameter/ Type of test/ Properties Measured</b> | <b>Range of measurement/ detection limit</b> | <b>Method/ Technique</b>  | <b>Facility</b> |
|----------------|---------------------------------------|---|--|---|-----------------|
| 447            |                                       | Loss of mass test                                   | Up to 100 mg/cm <sup>2</sup>                 | Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4<br>IS:10810 (Pt 10 (Reaffirmed)   | Permanent       |
| 448            |                                       | Ageing in air oven                                  | Up to 500N/mm <sup>2</sup><br>Up to 1500%    | Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4<br>IS:10810 (Pt 11 (Reaffirmed)   | Permanent       |
| 449            |                                       | Hot Set Test  | Up to 200%                                   | Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4<br>IS 10810 (Pt 30 (Reaffirmed)   | Permanent       |
| 450            |                                       | Shrinkage test                                      | Up to 50%                                    | Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4<br>IS:10810 (Pt 12 (Reaffirmed)   | Permanent       |
| 451            |                                       | Heat shock test                                     | Qualitative                                  | Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4<br>IS:10810 (Pt 14 (Reaffirmed)   | Permanent       |
| 452            |                                       | Hot deformation test                                | Up to 90%                                    | Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4<br>IS:10810 (Pt 15 (Reaffirmed)   | Permanent       |
| 453            |                                       | Thermal Stability (for sheath)                      | Up to 500 minutes                            | Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4<br>IS:10810 (Pt 60)- (Reaffirmed) | Permanent       |
| 454            |                                       | Thermal ageing test for complete cable              | Up to 500N/mm <sup>2</sup><br>Up to 1500%    | Cl.20.9 of IS:7098 (Part-3) (Reaffirmed)+A4                                   | Permanent       |
| 455            |                                       | Flammability test (for PVC sheathed cable)          | Up to 600mm                                  | Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4                                   | Permanent       |



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### Scope of Accreditation for Testing

As per ISO/IEC 17025:2017

**CAB Name:** Amit test and Calibration Centre **Page No. 51 of 76**  
**Address:** 45/7, Village Prahaladpur Bangar, Rohini sector-30, Near Kali Mata Mandir, New Delhi -110042, Delhi **Issue date :** 30.12.2025  
**Certificate No.:** T-0029 **Validity :** 29.12.2029  
**Amendment date:** N/A

| Sr. No. | Product/ Material to be tested | Parameter/ Type of test/ Properties Measured | Range of measurement/ detection limit | Method/ Technique  | Facility  |
|---------|--------------------------------|--|---------------------------------------|--|-----------|
|         | 456                            |  |                                       | IS:10810 (Pt 53)<br>(Reaffirmed)   |           |
| 456     |                                | High voltage Test (AC)                       | Up to 200 kV                          | Cl.20.17 of IS:7098 (Part-3)<br>(Reaffirmed)+A4                                    | Permanent |
| 457     |                                | Cold Impact Test                             | Qualitative                           | Cl.19.1 of IS:7098 (Part-3)<br>(Reaffirmed)+A4<br>IS:10810 (Pt 21)<br>(Reaffirmed) | Permanent |
| 458     |                                | Bending Test                                 | Qualitative                           | Cl.19.1 of IS:7098 (Part-3)<br>(Reaffirmed)+A4<br>IS 10810(Pt 50)<br>(Reaffirmed)  | Permanent |
| 459     |                                | Partial Discharge test                       | 2pC to1000 pC                         | Cl.19.1 of IS:7098 (Part-3)<br>(Reaffirmed)+A4<br>IS 10810(Pt46)<br>(Reaffirmed)   | Permanent |
| 460     |                                | Impulse withstand test followed by H.V Test  | Qualitative                           | Cl.19.1 of IS:7098 (Part-3)<br>(Reaffirmed)+A4<br>IS 10810(Pt47)<br>(Reaffirmed)   | Permanent |
| 461     |                                | Dielectric power factor test                 | 0.0002 to 0.100 tan delta             | Cl.19.1 of IS:7098 (Part-3)<br>(Reaffirmed)+A4<br>IS 10810(Pt48)<br>(Reaffirmed)   | Permanent |
| 462     |                                | Heating Cycle Test                           | Qualitative                           | Cl.19.1 of IS:7098 (Part-3)<br>(Reaffirmed)+A4<br>IS 10810(Pt49)<br>(Reaffirmed)   | Permanent |
| 463     |                                | Resistivity test for semi-conducting layers  | Up to 20 x10 <sup>4</sup> ohm-m       | Cl.20.2.4, Annex C of IS:7098 (Part-3)<br>(Reaffirmed)+A4                          | Permanent |



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**Scope of Accreditation for Testing**

As per ISO/IEC 17025:2017

**CAB Name:** Amit test and Calibration Centre Page No. 52 of 76  
**Address:** 45/7, Village Prahaladpur Bangar, Rohini sector-30, Near Kali Mata Mandir, New Delhi -110042, Delhi  
**Certificate No.:** T-0029 Issue date : 30.12.2025  
Validity : 29.12.2029  
Amendment date: N/A

| <b>Sr. No.</b> | <b>Product/ Material to be tested</b>  | <b>Parameter/ Type of test/ Properties Measured</b>      | <b>Range of measurement/ detection limit</b> | <b>Method/ Technique</b>   | <b>Facility</b> |
|----------------|--|--|--|--|-----------------|
| 464            |  | Test for concentric copper wire (Resistance measurement) | 0.0100 to 1000 ohm/km                        | Cl.20.3 of IS:7098 (Part-3) (Reaffirmed)+A4  | Permanent       |
| 465            |  | Test for concentric copper tape (resistance measurement) | 0.0100 to 1000 ohm/km                        | Cl.20.4 of IS:7098 (Part-3) (Reaffirmed)+A4  | Permanent       |
| 466            |  | Thickness of metallic sheath                             | 0.01mm to 25 mm                              | Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4<br>IS 10810(Pt34) (Reaffirmed)         | Permanent       |
| 467            |  | Carbon black content of PE Sheath                        | Others: upto 50%                             | Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4 IS 10810(Pt32) (Reaffirmed)            | Permanent       |
| 468            |  | Water Tightness test                                     | Qualitative                                  | 20.8, Annex -D of IS:7098 (Part-3) (Reaffirmed)+A4                                 | Permanent       |
| 469            |  | Load cycle test followed by P.D measurement)             | 2pC to1000 pC                                | Cl.20.14 of IS:7098 (Part-3) (Reaffirmed)+A4                                       | Permanent       |
| 470            | Elastomer insulated cables for working voltages from 3.3 kV up to and including 33kV . | Persulphate test for copper                              | Up to 50g/m <sup>2</sup>                     | Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2<br>IS 10810 (Pt -4) -1984 (Reaffirmed) | Permanent       |
| 471            |  | Annealing test for copper                                | Up to 50%                                    | Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2<br>IS:10810 (Pt 1 (Reaffirmed)         | Permanent       |
| 472            |  | Tensile test for aluminium                               | Up to 500N/mm <sup>2</sup>                   | Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2<br>IS:10810 (Pt 2 (Reaffirmed)         | Permanent       |



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### Scope of Accreditation for Testing

As per ISO/IEC 17025:2017

**CAB Name:** Amit test and Calibration Centre **Page No. 53 of 76**  
**Address:** 45/7, Village Prahaladpur Bangar, Rohini sector-30, Near Kali Mata Mandir, New Delhi -110042, Delhi **Issue date :** 30.12.2025  
**Certificate No.:** T-0029 **Validity :** 29.12.2029  
**Amendment date:** N/A

| <b>Sr. No.</b> | <b>Product/ Material to be tested</b> | <b>Parameter/ Type of test/ Properties Measured</b>          | <b>Range of measurement/ detection limit</b> | <b>Method/ Technique</b>   | <b>Facility</b> |
|----------------|---------------------------------------|--|--|--|-----------------|
| 473            |                                       | Wrapping test for aluminum                                   | Qualitative                                  | Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2<br>IS:10810 (Pt 3 (Reaffirmed))  | Permanent       |
| 474            |                                       | Conductor resistance test                                    | 0.0100 to 1000 ohm/km                        | Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2<br>IS:10810 (Pt 5 (Reaffirmed))  | Permanent       |
| 475            |                                       | Dimension for armouring material                             | 0.01mm to 25 mm                              | Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2<br>IS:10810 (Pt 36 (Reaffirmed)) | Permanent       |
| 476            |                                       | Tensile strength & Elongation at break of armouring material | Up to 500N/mm <sup>2</sup><br>Up to 50%      | Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2<br>IS:10810 (Pt 37 (Reaffirmed)) | Permanent       |
| 477            |                                       | Torsion test on Galvanized steel wire for armouring          | Qualitative                                  | Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2<br>IS:10810 (Pt 38 (Reaffirmed)) | Permanent       |
| 478            |                                       | Winding test on Galvanized steel strips for armouring        | Qualitative                                  | Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2<br>IS:10810 (Pt 39 (Reaffirmed)) | Permanent       |
| 479            |                                       | Uniformity of Zinc coating                                   | Qualitative                                  | Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2<br>IS:10810 (Pt 40 (Reaffirmed)) | Permanent       |
| 480            |                                       | Mass of Zinc coating   | Up to 500 gm/ m <sup>2</sup>                 | Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2<br>IS:10810 (Pt 41 (Reaffirmed)) | Permanent       |



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As per ISO/IEC 17025:2017

**CAB Name:** Amit test and Calibration Centre **Page No. 54 of 76**  
**Address:** 45/7, Village Prahaladpur Bangar, Rohini sector-30, Near Kali Mata Mandir, New Delhi -110042, Delhi **Issue date :** 30.12.2025  
**Certificate No.:** T-0029 **Validity :** 29.12.2029  
**Amendment date:** N/A

| Sr. No. | Product/ Material to be tested | Parameter/ Type of test/ Properties Measured                     | Range of measurement/ detection limit     | Method/ Technique   | Facility  |
|---------|--------------------------------|--|---|---|-----------|
| 481     |                                | Test for thickness of insulation and sheath and overall diameter | 0.01mm - 150 mm                           | Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2 IS:10810 (Pt 6 (Reaffirmed)     | Permanent |
| 482     |                                | Tensile strength and elongation at break                         | Up to 500N/mm <sup>2</sup><br>Up to 1500% | Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2 IS:10810 (Pt 7 (Reaffirmed)     | Permanent |
| 483     |                                | Ageing in air oven   | Up to 500N/mm <sup>2</sup><br>Up to 1500% | Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2 IS:10810 (Pt 11 (Reaffirmed)    | Permanent |
| 484     |                                | Ageing in air bomb   | Up to 500N/mm <sup>2</sup><br>Up to 1500% | Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2 IS:10810 (Pt 56 (Reaffirmed:)   | Permanent |
| 485     |                                | Hot set Test   | Up to 200%                                | Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2 IS : 10810 (Pt.30) (Reaffirmed) | Permanent |
| 486     |                                | Oil resistance   | Up to 500N/mm <sup>2</sup><br>Up to 1500% | Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2 IS : 10810 (Pt.31) (Reaffirmed) | Permanent |
| 487     |                                | Tear resistance  | Up to 500N/mm <sup>2</sup>                | Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2 IS : 10810 (Pt.17) (Reaffirmed) | Permanent |
| 488     |                                | Shrinkage test   | Up to 50%                                 | Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2 IS:10810 (Pt 12 (Reaffirmed)    | Permanent |



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### Scope of Accreditation for Testing

As per ISO/IEC 17025:2017

**CAB Name:** Amit test and Calibration Centre **Page No. 55 of 76**  
**Address:** 45/7, Village Prahaladpur Bangar, Rohini sector-30, Near Kali Mata Mandir, New Delhi -110042, Delhi **Issue date :** 30.12.2025  
**Certificate No.:** T-0029 **Validity :** 29.12.2029  
**Amendment date:** N/A

| Sr. No. | Product/ Material to be tested | Parameter/ Type of test/ Properties Measured | Range of measurement/ detection limit | Method/ Technique  | Facility  |
|---------|--------------------------------|--|---------------------------------------|--|-----------|
| 489     |                                | Hot deformation test                         | Up to 90%                             | Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2<br>IS:10810 (Pt 15 (Reaffirmed)    | Permanent |
| 490     |                                | Loss of mass test                            | Up to 100 mg/cm <sup>2</sup>          | Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2<br>IS:10810 (Pt 10 (Reaffirmed)    | Permanent |
| 491     |                                | Heat shock test                              | Qualitative                           | Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2<br>IS:10810 (Pt 14 (Reaffirmed)    | Permanent |
| 492     |                                | Thermal Stability                            | Up to 500 minutes                     | Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2<br>IS:10810 (Pt 60)- (Reaffirmed)  | Permanent |
| 493     |                                | Insulation resistance                        | 1 – 100 x10 <sup>6</sup> MΩ           | Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2<br>IS : 10810 (Pt.43) (Reaffirmed) | Permanent |
| 494     |                                | High voltage (water immersion) test          | Up to 35 kV                           | Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2<br>IS : 10810 (Pt.45) (Reaffirmed) | Permanent |
| 495     |                                | Water absorption test (Electrical)           | Up to 20 %                            | Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2<br>IS : 10810 (Pt.28) (Reaffirmed) | Permanent |
| 496     |                                | Flammability test                            | Up to 600 mm                          | Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2<br>IS : 10810 (Pt.53) (Reaffirmed) | Permanent |



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### Scope of Accreditation for Testing

As per ISO/IEC 17025:2017

**CAB Name:** Amit test and Calibration Centre **Page No. 56 of 76**  
**Address:** 45/7, Village Prahaladpur Bangar, Rohini sector-30, Near  
Kali Mata Mandir, New Delhi -110042, Delhi **Issue date** : 30.12.2025  
**Certificate No.:** T-0029 **Validity** : 29.12.2029  
**Amendment date:** N/A

| <b>Sr. No.</b> | <b>Product/ Material to be tested</b>   | <b>Parameter/ Type of test/ Properties Measured</b> | <b>Range of measurement/ detection limit</b> | <b>Method/ Technique</b>   | <b>Facility</b> |
|----------------|---|---|--|--|-----------------|
| 497            |   | Ozone resistance test                               | Amb.- 100°C<br>Amb.- 99 % RH                 | Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2<br>IS : 10810 (Pt.13) (Reaffirmed) | Permanent       |
| 498            |   | Cold Impact test for PVC sheath                     | Qualitative                                  | Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2<br>IS: 10810 (Pt 21) (Reaffirmed)  | Permanent       |
| 499            |   | Bending Test  | Qualitative                                  | Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2<br>IS 10810(Pt 50) (Reaffirmed)    | Permanent       |
| 500            |   | Partial Discharge test                              | 2pC to1000 pC                                | Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2<br>IS 10810(Pt46) (Reaffirmed)     | Permanent       |
| 501            |   | Impulse withstand test                              | Qualitative                                  | Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2<br>IS10810(Pt47) (Reaffirmed)      | Permanent       |
| 502            |   | Heating Cycle Test                                  | Qualitative                                  | Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2<br>IS 10810(Pt49) (Reaffirmed)     | Permanent       |
| 503            |   | Dielectric Power factor Test                        | 0.0002 to 0.100 tan delta                    | Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2<br>IS10810(Pt48) (Reaffirmed)      | Permanent       |
| 504            | Elastomer insulated flexible cables for use in mines working voltages from 1.1 kV | Annealing test for copper                           | Up to 50%                                    | Table 33 of IS: 14494 (Reaffirmed)<br>IS:10810 (Pt 1) (Reaffirmed)             | Permanent       |



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### Scope of Accreditation for Testing

As per ISO/IEC 17025:2017

**CAB Name:** Amit test and Calibration Centre **Page No. 57 of 76**

**Address:** 45/7, Village Prahaladpur Bangar, Rohini sector-30, Near

Kali Mata Mandir, New Delhi -110042, Delhi

**Issue date :** 30.12.2025

**Validity :** 29.12.2029

**Certificate No.:** T-0029

**Amendment date:** N/A

| <b>Sr. No.</b> | <b>Product/ Material to be tested</b> | <b>Parameter/ Type of test/ Properties Measured</b>          | <b>Range of measurement/ detection limit</b> | <b>Method/ Technique</b>   | <b>Facility</b> |
|----------------|---------------------------------------|--|--|--|-----------------|
| 505            | up to and including 11 kV             | Conductor resistance test                                    | 0.0100 to 1000 ohm/km                        | Table 33 of IS: 14494 (Reaffirmed)<br>IS:10810 (Pt 5 (Reaffirmed)                            | Permanent       |
| 506            |                                       | Dimension for armouring material                             | 0.01mm to 25 mm                              | Table 33 of IS: 14494 (Reaffirmed)<br>IS: 14494 (Reaffirmed)<br>IS:10810 (Pt 36 (Reaffirmed) | Permanent       |
| 507            |                                       | Tensile strength & Elongation at break of armouring material | Up to 500N/mm <sup>2</sup><br>Up to 50%      | Table 33 of IS: 14494 (Reaffirmed)<br>IS:10810 (Pt 37 (Reaffirmed)                           | Permanent       |
| 508            |                                       | Torsion test on Galvanized steel wire for armouring          | Qualitative                                  | Table 33 of IS: 14494 (Reaffirmed)<br>IS:10810 (Pt 38 (Reaffirmed)                           | Permanent       |
| 509            |                                       | Winding test on Galvanized steel strips for armouring        | Qualitative                                  | Table 33 of IS: 14494 (Reaffirmed)<br>IS: 10810 (Pt 39 (Reaffirmed)                          | Permanent       |
| 510            |                                       | Uniformity of Zinc coating                                   | Qualitative                                  | Table 33 of IS: 14494 (Reaffirmed)<br>IS: 10810 (Pt 40 (Reaffirmed)                          | Permanent       |
| 511            |                                       | Mass of Zinc coating   | Up to 500 gm/ m <sup>2</sup>                 | Table 33 of IS: 14494 (Reaffirmed)<br>IS:10810 (Pt 41 (Reaffirmed)                           | Permanent       |
| 512            |                                       | Resistivity & Conductance test of Armour (Wires/strips)      | Up to 20 x10 <sup>6</sup> ohm-cm             | Table 33 of IS: 14494 (Reaffirmed)   | Permanent       |



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### Scope of Accreditation for Testing

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**Certificate No.:** T-0029 **Validity :** 29.12.2029  
**Amendment date:** N/A

| Sr. No. | Product/ Material to be tested | Parameter/ Type of test/ Properties Measured                     | Range of measurement/ detection limit     | Method/ Technique   | Facility  |
|---------|--------------------------------|--|---|---|-----------|
|         | 513                            |  |   | IS:10810 (Pt 42 (Reaffirmed)  |           |
| 513     |                                | Test for thickness of insulation and sheath and overall diameter | 0.01mm - 150 mm                           | Table 33 of IS: 14494 (Reaffirmed)<br>IS:10810 (Pt 6 (Reaffirmed))    | Permanent |
| 514     |                                | Tensile strength and elongation at break                         | Up to 500N/mm <sup>2</sup><br>Up to 1500% | Table 33 of IS: 14494 (Reaffirmed)<br>IS:10810 (Pt 7 (Reaffirmed))    | Permanent |
| 515     |                                | Ageing in air oven   | Up to 500N/mm <sup>2</sup><br>Up to 1500% | Table 33 of IS: 14494 (Reaffirmed)<br>IS:10810 (Pt 11 (Reaffirmed))   | Permanent |
| 516     |                                | Ageing in air bomb   | Up to 500N/mm <sup>2</sup><br>Up to 1500% | Table 33 of IS: 14494 (Reaffirmed)<br>IS:10810 (Pt 56 (Reaffirmed))   | Permanent |
| 517     |                                | Hot set Test   | Up to 200%                                | Table 33 of IS: 14494 (Reaffirmed)<br>IS : 10810 (Pt.30) (Reaffirmed) | Permanent |
| 518     |                                | Oil resistance   | Up to 500N/mm <sup>2</sup><br>Up to 1500% | Table 33 of IS: 14494 (Reaffirmed)<br>IS : 10810 (Pt.31) (Reaffirmed) | Permanent |
| 519     |                                | Tear resistance  | Up to 500N/mm <sup>2</sup>                | Table 33 of IS: 14494 (Reaffirmed)<br>IS: 10810 (Pt.17) (Reaffirmed)  | Permanent |
| 520     |                                | Ozone resistance test  | Amb.- 100°C<br>Amb.- 99 % RH              | Table 33 of IS: 14494 (Reaffirmed)                                    | Permanent |



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### Scope of Accreditation for Testing

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**Certificate No.:** T-0029 **Validity :** 29.12.2029  
**Amendment date:** N/A

| Sr. No. | Product/ Material to be tested | Parameter/ Type of test/ Properties Measured | Range of measurement/ detection limit | Method/ Technique   | Facility  |
|---------|--------------------------------|--|---------------------------------------|---|-----------|
|         | 521                            |  |                                       | IS: 10810 (Pt.13)<br>(Reaffirmed)   |           |
| 521     |                                | Insulation resistance                        | 1 – 100 x10 <sup>6</sup> MΩ           | Table 33 of IS: 14494<br>(Reaffirmed)<br>IS : 10810 (Pt.43)<br>(Reaffirmed) | Permanent |
| 522     |                                | High voltage (water immersion) test          | Up to 35 kV                           | Table 33 of IS: 14494<br>(Reaffirmed)<br>IS : 10810 (Pt.45)<br>(Reaffirmed) | Permanent |
| 523     |                                | Water absorption test (Electrical)           | Up to 20 %                            | Table 33 of IS: 14494<br>(Reaffirmed)<br>IS : 10810 (Pt.28)<br>(Reaffirmed) | Permanent |
| 524     |                                | Flammability test                            | Up to 600 mm                          | Table 33 of IS: 14494<br>(Reaffirmed)<br>IS : 10810 (Pt.53)<br>(Reaffirmed) | Permanent |
| 525     |                                | Bending Test                                 | Qualitative                           | Table 33 of IS: 14494<br>(Reaffirmed)<br>IS10810(Pt 50)<br>(Reaffirmed)     | Permanent |
| 526     |                                | Partial Discharge test                       | 2pC to1000 pC                         | Table 33 of IS: 14494<br>(Reaffirmed)<br>IS 10810(Pt46)<br>(Reaffirmed)     | Permanent |
| 527     |                                | Impulse withstand test                       | Qualitative                           | Table 33 of IS: 14494<br>(Reaffirmed)<br>IS 10810(Pt47)<br>(Reaffirmed)     | Permanent |
| 528     |                                | Dielectric power factor test                 | Others:0.0002<br>To 0.100tan delta    | Table 33 of IS: 14494<br>(Reaffirmed)                                       | Permanent |



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### Scope of Accreditation for Testing

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**Certificate No.:** T-0029 **Validity :** 29.12.2029  
**Amendment date:** N/A

| Sr. No. | Product/ Material to be tested | Parameter/ Type of test/ Properties Measured                  | Range of measurement/ detection limit     | Method/ Technique   | Facility  |
|---------|--------------------------------|---|---|---|-----------|
| 529     |                                | Heating Cycle Test  | Qualitative                               | Table 33 of IS: 14494 (Reaffirmed)<br>IS 10810(Pt49) (Reaffirmed) | Permanent |
| 530     |                                | Electrical test on semi conducting screen                     | Qualitative                               | Annexure E of IS: 14494 (Reaffirmed)                              | Permanent |
| 531     |                                | Test on Extruded semi conducting screens Volume Resistivity   | Others: up to 1 000 ohm -m                | Annexure E of IS: 14494 (Reaffirmed)                              | Permanent |
| 532     |                                | Persulphate test (for tinned Copper Conductor)                | Up to 50g/m <sup>2</sup>                  | Cl.22.1 of IS:9968(Pt-1)<br>IS 10810 (Pt -4) (Reaffirmed)         | Permanent |
| 533     |                                | Annealing test for Copper Conductor                           | Up to 50%                                 | Cl.22.1 of IS:9968(Pt-1)<br>IS:10810 (Pt 1) (Reaffirmed)          | Permanent |
| 534     |                                | Tensile strength for Aluminium Conductor                      | Up to 500N/mm <sup>2</sup>                | Cl.22.1 of IS:9968(Pt-1)<br>IS:10810 (Pt 2) (Reaffirmed)          | Permanent |
| 535     |                                | Wrapping test for Aluminium Conductor                         | Qualitative                               | Cl.22.1 of IS:9968(Pt-1)<br>IS:10810 (Pt 3) (Reaffirmed)          | Permanent |
| 536     |                                | Conductor resistance  | 0.0100 to 1000 ohm/km                     | Cl.22.1 of IS:9968(Pt-1)<br>IS:10810 (Pt 5) (Reaffirmed)          | Permanent |
| 537     |                                | Thickness of Insulation and Sheath and Overall dimensions     | 0.01mm - 150 mm                           | Cl.22.1 of IS:9968(Pt-1)<br>IS:10810 (Pt 6) (Reaffirmed)          | Permanent |
| 538     |                                | Tensile strength & Elongation at break of insulation / sheath | Up to 500N/mm <sup>2</sup><br>Up to 1500% | Cl.22.1 of IS:9968(Pt-1)<br>IS:10810 (Pt 7) (Reaffirmed)          | Permanent |



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| Sr. No. | Product/ Material to be tested | Parameter/ Type of test/ Properties Measured | Range of measurement/ detection limit     | Method/ Technique  | Facility  |
|---------|--------------------------------|--|---|--|-----------|
| 539     |                                | Ageing in air oven                           | Up to 500N/mm <sup>2</sup><br>Up to 1500% | Cl.22.1 of IS:9968(Pt-1)<br>IS:10810 (Pt 11)<br>(Reaffirmed)   | Permanent |
| 540     |                                | Ageing in air bomb                           | Up to 500N/mm <sup>2</sup><br>Up to 1500% | Cl.22.1 of IS:9968(Pt-1)<br>IS:10810 (Pt 56)<br>(Reaffirmed:)  | Permanent |
| 541     |                                | Ageing in oxygen bomb                        | Up to 500N/mm <sup>2</sup><br>Up to 1500% | Cl.22.1 of IS:9968(Pt-1)<br>IS:10810 (Pt 16)<br>(Reaffirmed)   | Permanent |
| 542     |                                | Hot Set Test                                 | Up to 200%                                | Cl.22.1 of IS:9968(Pt-1)<br>IS 10810 (Pt 30)<br>(Reaffirmed)   | Permanent |
| 543     |                                | Oil resistance                               | Up to 500N/mm <sup>2</sup><br>Up to 1500% | Cl.22.1 of IS:9968(Pt-1)<br>IS : 10810 (Pt.31)<br>(Reaffirmed) | Permanent |
| 544     |                                | Tear resistance                              | Up to 500N/mm                             | Cl.22.1 of IS:9968(Pt-1)<br>IS : 10810 (Pt.17)<br>(Reaffirmed) | Permanent |
| 545     |                                | Insulation resistance                        | 1 - 1000x10 <sup>6</sup> MΩ               | Cl.22.1 of IS:9968(Pt-1)<br>IS:10810 (Pt 43)<br>(Reaffirmed)   | Permanent |
| 546     |                                | High voltage Test (Water Immersion)          | 0.01kV-35 kV                              | Cl.22.1 of IS:9968(Pt-1)<br>IS:10810 (Pt 45<br>(Reaffirmed))   | Permanent |
| 547     |                                | Flammability test                            | Up to 600mm                               | Cl.22.1 of IS:9968(Pt-1)<br>IS:10810 (Pt 53)<br>(Reaffirmed)   | Permanent |
| 548     |                                | Water absorption test (Electrical)           | 1pF -1100μF                               | Cl.22.1 of IS:9968(Pt-1)<br>IS: 10810 (Pt.28<br>(Reaffirmed)   | Permanent |
| 549     |                                | Cord Flexing test                            | 0-999999 (Counts.)                        | Cl. 22.4 of IS:9968(Pt-1)                                      | Permanent |



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**Amendment date:** N/A

| Sr. No. | Product/ Material to be tested | Parameter/ Type of test/ Properties Measured | Range of measurement/ detection limit | Method/ Technique   | Facility  |
|---------|--------------------------------|--|---------------------------------------|---|-----------|
| 550     |                                | High voltage Test (Water Immersion)          | 0.01kV-35 kV                          | Cl.22.1 of IS:9968(Pt-1)<br>IS:10810 (Pt 45)<br>(Reaffirmed)  | Permanent |
| 551     |                                | Flammability test                            | Up to 600mm                           | Cl.22.1 of IS:9968(Pt-1)<br>S:10810 (Pt 53)<br>(Reaffirmed)   | Permanent |
| 552     |                                | Water absorption test (Electrical)           | 1pF -1100μF                           | Cl.22.1 of IS:9968(Pt-1)<br>IS: 10810 (Pt.28)<br>(Reaffirmed) | Permanent |
| 553     |                                | Cord Flexing test                            | 0-999999 (Counts.)                    | Cl. 22.4 of IS:9968(Pt-1)                                     | Permanent |
| 554     | Cables and wires               | Electrical test                              | Qualitative                           | IEEE Std.1222-2003, Annexure A                                | Permanent |
| 555     | Fibre Reinforced Plastic (FRP) | Physical Dimension of coated rd              | Upto 15mm                             | TEC 89010 : Section – II                                      | Permanent |
| 556     |                                | Tensile Strength at break                    | 10000 kg/mm <sup>2</sup>              | ASTM D 3916   | Permanent |
| 557     |                                | Elongation at break                          | Upto 50 %                             | ASTM D 3916   | Permanent |
| 558     |                                | Tensile Modulus                              | 10000 kg/mm <sup>2</sup>              | ASTM D 638  | Permanent |
| 559     |                                | Flexural Strength                            | 10000 kg/mm <sup>2</sup>              | ASTM D 790  | Permanent |
| 560     |                                | Flexural Modulus                             | 10000 kg/mm <sup>2</sup>              | ASTM D 3916   | Permanent |
| 561     |                                | Co-efficient of thermal expansion            | Upto 1 cm/ <sup>o</sup> C             | ASTM D 696  | Permanent |
| 562     |                                | Water absorption                             | Upto 100 %                            | ASTM D 570  | Permanent |
| 563     |                                | Minimum bend diameter                        | Upto 150mm                            | ORM GR.No TEC 89010 : Section – II                            | Permanent |
| 564     |                                | Heat stress at 80oC/24 hrs, 50Xd             | Qualitative                           | ORM GR.No TEC 89010 : Section – II                            | Permanent |



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**Amendment date:** N/A

| Sr. No. | Product/ Material to be tested  | Parameter/ Type of test/ Properties Measured                  | Range of measurement/ detection limit | Method/ Technique                                  | Facility  |
|---------|---|---|---------------------------------------|--|-----------|
| 565     |   | Thermal Resistance test at 100°C/5 days, 60Xd                 | Qualitative                           | ORM GR.No TEC 89010 : Section – II                 | Permanent |
| 566     |   | Water Resistance test at 80°C/5 days, 80Xd                    | Qualitative                           | ORM GR.No TEC 89010 : Section – II                 | Permanent |
| 567     |   | Thickness of Ethylene Acrylic acid counting over FRP Rod (um) | Upto 5000 µm                          | TEC 89010: Section – II                            | Permanent |
| 568     | Optical fibre cable (OFC)<br>Fibre distribution management systems (FDMS)<br>Fibre termination & Distribution Box<br>Spice closure And other insulating materials | Absorption coefficient @375nm                                 | Upto 700 kAB/m                        | TEC 85170<br>TEC 89010<br>TEC 85260<br>ASTM D-3349 | Permanent |
| 569     |   | Brittleness Temperature % fall@-76 °C                         | Qualitative                           | TEC 85170<br>TEC 89010<br>TEC 85260<br>ASTM D-746  | Permanent |
| 570     | Optical fibre cable (OFC)<br>Fibre distribution management systems (FDMS)<br>Fibre termination & Distribution Box<br>Spice closure And other insulating materials | Anti Termite & Anti Rodent Test                               | Qualitative                           | 85240 /ATCC/SOP-01                                 | Permanent |
| 571     | Optical fibre cable (OFC)<br>Fibre distribution   | Non toxicity  | Qualitative                           | TEC 85170<br>TEC 89010<br>TEC 85260                | Permanent |
| 572     |   | Thermal Stability   | Qualitative                           |  | Permanent |



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**Amendment date:** N/A

| Sr. No. | Product/ Material to be tested   | Parameter/ Type of test/ Properties Measured   | Range of measurement/ detection limit | Method/ Technique            | Facility  |
|---------|--|--|---------------------------------------|------------------------------|-----------|
| 573     | management systems (FDMS)<br>Fibre termination & Distribution Box<br>Spice closure<br>And other insulating materials | Long life Span/half life   | Qualitative                           |                              | Permanent |
| 574     |  | Compatibility  | Qualitative                           |                              | Permanent |
| 575     |  | Efficacy   | Qualitative                           |                              | Permanent |
| 576     | Standard test method for liquid-contaminant of insulating materials  | Tracking and erosion Test  | Upto 20 mm                            | ASTM D2303                   | Permanent |
| 577     | Test method for rubber   | Hydrolytic Stability   | Qualitative                           | ASTM D3137-81                | Permanent |
| 578     | Nonmetallic materials  | UV exposure of nonmetallic materials   | Qualitative                           | ASTM G154                    | Permanent |
| 579     | Insulating materials   | Determination of toxicity index of the products of combustion from small specimens of materials. | Qualitative                           | NES 713/NCD 1409             | Permanent |
| 580     | Generic specification-Basic optical cable test procedures  | Water penetration test   | Qualitative                           | Method F5 of IEC 60794-1-22  | Permanent |
| 581     |  | Cable UV Resistance test   | Qualitative                           | Method F14 of IEC 60794-1-22 | Permanent |

#### Discipline - Electrical, Group: - Insulating materials

|     |   |  |  |                                      |           |
|-----|---|--|--|--------------------------------------|-----------|
| 582 | Insulating mats for electrical purposes-Specification | Dimensions                               | Up to 15000 mm                             | Cl.6.2 of IS: 15652 +A2 (Reaffirmed) | Permanent |
| 583 |   | Thickness                                | Up to 150 mm                               | Cl.6.3 of IS: 15652 +A2 (Reaffirmed) | Permanent |
| 584 |   | Tensile strength and Elongation at break | Up to 200 N/mm <sup>2</sup><br>Up to 800 % | Cl.8.1 of IS: 15652 +A2 (Reaffirmed) | Permanent |



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| Sr. No. | Product/ Material to be tested | Parameter/ Type of test/ Properties Measured | Range of measurement/ detection limit     | Method/ Technique                       | Facility  |
|---------|--------------------------------|--|---|---|-----------|
| 585     |                                | Insulation resistance                        | 1 - 100x10 <sup>6</sup> MΩ                | Cl.8.2.1 of IS: 15652 +A2 (Reaffirmed)  | Permanent |
| 586     |                                | Leakage current                              | Up to 200 kV                              | Cl.8.2.2 of IS: 15652 +A2 (Reaffirmed)  | Permanent |
| 587     |                                | AC. di-electric strength                     | Up to 200 kV                              | Cl.8.2.3 of IS: 15652 +A2 (Reaffirmed)  | Permanent |
| 588     |                                | AC. proof voltage                            | Up to 200 kV                              | Cl.8.2.4 of IS: 15652 +A2 (Reaffirmed)  | Permanent |
| 589     |                                | Ageing properties                            | Up to 500N/mm <sup>2</sup><br>Up to 1500% | Cl.8.3 of IS: 15652 +A2 (Reaffirmed)    | Permanent |
| 590     |                                | Thermal properties (Flame retardance)        | Up to 600 mm                              | Cl.8.4.1 of IS: 15652 +A2 (Reaffirmed)  | Permanent |
| 591     |                                | Low temperature resistance                   | Qualitative<br>Up to 200 kV               | Cl.8.4.2 of IS: 15652 +A2 (Reaffirmed)  | Permanent |
| 592     |                                | Acid/alkalis and oil resistance              | Up to 500N/mm <sup>2</sup><br>Up to 1500% | Cl.8.5 of IS: 15652 +A2 (Reaffirmed)    | Permanent |
| 593     |                                | Extreme low temperature                      | Qualitative<br>Up to 200 kV               | Annex C-7 of IS: 15652 +A2 (Reaffirmed) | Permanent |

#### Discipline - Electrical, Group - Conductor and conducting materials

|     |   |   |             |   |           |
|-----|---|---|-------------|---|-----------|
| 594 | Aluminium conductors for overhead transmission purposes | Measurement of diameter individual aluminium wire | Up to 25 mm | Cl.12.1, Table -1 of IS 398 (Pt 1) (Reaffirmed) with amendment No.1 | Permanent |
| 595 |   | Breaking load test of individual Aluminum wire    | Up to 50 kN | Cl.12.3, Table -1 of IS 398 (Pt 1) (Reaffirmed) with amendment No.1 | Permanent |



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**Amendment date:** N/A

| <b>Sr. No.</b> | <b>Product/ Material to be tested</b>  | <b>Parameter/ Type of test/ Properties Measured</b>             | <b>Range of measurement/ detection limit</b> | <b>Method/ Technique</b>  | <b>Facility</b> |
|----------------|--|---|--|---|-----------------|
| 596            | Aluminium stranded conductors  | Wrapping test   | Qualitative                                  | Cl.12.4, Table -1 of IS 398 (Pt 1) (Reaffirmed) with amendment No.1 | Permanent       |
| 597            |  | Resistance test   | Up to 100 ohm/km                             | Cl.12.5, Table -1 of IS 398 (Pt 1) (Reaffirmed) with amendment No.1 | Permanent       |
| 598            |  | Measurement of lay ratio  | Up to 600 mm                                 | Cl.12.6, Table -1 of IS 398 (Pt 1) (Reaffirmed) with amendment No.1 | Permanent       |
| 599            |  | Freedom from defects  | Qualitative                                  | Cl.6 of IS 398 (Pt 1) (Reaffirmed) with amendment No.1              | Permanent       |
| 600            |  | Stranding   | Qualitative                                  | Cl.9.3 of IS 398 (Pt 1) (Reaffirmed) with amendment No.1            | Permanent       |
| 601            | Aluminium conductors for overhead transmission purposes<br>Aluminium conductors, galvanized steel - reinforced | Surface condition test  | Up to 500 kN                                 | Cl. 13.13 of IS 398 - Part 2  | Permanent       |
| 602            |  | Ultimate tensile strength test on stranded conductor            | Up to 500 kN                                 | Cl. 13.14 of IS 398 - Part 2  | Permanent       |
| 603            |  | Measurement of diameter of individual aluminium and steel wires | Up to 25 mm                                  | Cl. 13.4 of IS 398 - Part 2   | Permanent       |
| 604            |  | Measurement of lay ratio  | Up to 600 mm                                 | Cl. 13.5 of IS 398 - Part 2   | Permanent       |
| 605            |  | Breaking test of individual wires                               | Up to 50 kN                                  | Cl. 13.6 of IS 398 - Part 2   | Permanent       |
| 606            |  | Ductility test (Torsion test)                                   | Up to 999999 Turns                           | Cl. 13.7.1 of IS 398 - Part 2                                       | Permanent       |
| 607            |  | Ductility test (Elongation)                                     | Up to 50 %                                   | Cl. 13.7.2 of IS 398 - Part 2                                       | Permanent       |



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| Sr. No. | Product/ Material to be tested                          | Parameter/ Type of test/ Properties Measured                                      | Range of measurement/ detection limit     | Method/ Technique   | Facility  |
|---------|---|---|---|---|-----------|
| 608     |   | Aluminium wires Procedure qualification test on welded joint of aluminium strands | Qualitative                               | Cl. 13.11 of IS 398 - Part 2  | Permanent |
| 609     |   | Wrapping test   | Qualitative                               | Cl. 13.8 of IS 398 - Part 2   | Permanent |
| 610     |   | Resistance test   | Up to 100 ohm/km                          | Cl. 13.9 of IS 398 - Part 2   | Permanent |
| 611     |   | d.c. Resistance test on stranded conductor  | Up to 100 ohm/km                          | Cl. 13.12 of IS 398 - Part 2  | Permanent |
| 612     |   | Galvanizing test<br>a. uniformity of zinc coating<br>b. weight of zinc coating    | Qualitative<br>Up to 500 g/m <sup>2</sup> | Cl. 13.10 of IS 398 - Part 2<br>IS 4826 IS:10810(Pt 40)<br>IS: 10810 (Pt 41)<br>(Reaffirmed)    | Permanent |
| 613     | Aluminium conductors for overhead transmission purposes | Measurement of diameter of individual aluminium and aluminized steel wires        | Up to 25 mm                               | Cl. 2.2 Cl. 7.1.1 (Table 1 & 2) of IS 398 (Pt-III)<br>(Reaffirmed) with amendments No. 1,2 & 3  | Permanent |
| 614     | Aluminium conductors, aluminized steel - reinforced     | Measurement of lay ratio  | Up to 600 mm                              | Cl. 2.4 Cl. 9.2 ,9.3 (Table 4) of IS 398 (Pt-III)<br>(Reaffirmed) with amendments No. 1,2 & 3   | Permanent |
| 615     |   | Breaking test of individual wires   | Up to 50 kN                               | Cl.12.2 Cl. 12.2.1 (Table 1 & 2) of IS 398 (Pt-III)<br>(Reaffirmed) with amendments No. 1,2 & 3 | Permanent |
| 616     |   | Ductility test (Torsion test)   | Up to 999999 Turns                        | Cl.12.3 Cl. 12.3.1 of IS 398 (Pt-III)<br>(Reaffirmed) with                                      | Permanent |



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| Sr. No. | Product/ Material to be tested | Parameter/ Type of test/ Properties Measured                      | Range of measurement/ detection limit                    | Method/ Technique  | Facility  |
|---------|--------------------------------|---|--|--|-----------|
|         | 617                            |   |  | amendments No. 1,2 & 3   |           |
| 617     |                                | Ductility test (Elongation)                                       | Up to 50 %   | Cl.12.3 Cl. 12.3.2 of IS 398 (Pt-III) (Reaffirmed) with amendments No. 1,2 & 3         | Permanent |
| 618     |                                | Wrapping test   | Qualitative  | Cl.12.4 Cl. 12.4.1 ,12.4.2 of IS 398 (Pt-III) (Reaffirmed) with amendments No. 1,2 & 3 | Permanent |
| 619     |                                | Resistance test   | Up to 100 ohm/km   | Cl.12.5 Cl. 12.4 (Table 1) of 398 (Pt.III)(Reaffirmed) with amendments No. 1,2 & 3     | Permanent |
| 620     | 621                            | Aluminized test<br>a. Mass of coating<br>b. Continuity of coating | Up to 500 g/m <sup>2</sup><br>Qualitative                | 12.6 of IS 398 (Pt.III)<br>IS 383 (Reaffirmed) with amendments No. 1,2 & 3             | Permanent |
| 621     |                                | Aluminium conductors for overhead transmission purposes           | Measurement of diameter individual aluminium alloy wires | Cl. 6.1 table-1 of IS: 398 (Pt-4) (Reaffirmed) with amendment No 1                     | Permanent |
| 622     |                                | Aluminium Alloy Stranded conductors                               | Breaking load of individual aluminium alloy wires        | Cl.12.2 table-1of IS 398 (Pt-4) (Reaffirmed) with amendment No 1                       | Permanent |
| 623     |                                | Elongation test of individual aluminium alloy wires               | Up to 50 %   | Cl.12.3 table-1of IS 398 (Pt-4) (Reaffirmed) with amendment No 1                       | Permanent |



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| Sr. No. | Product/ Material to be tested   | Parameter/ Type of test/ Properties Measured                    | Range of measurement/ detection limit | Method/ Technique  | Facility  |
|---------|--|---|---------------------------------------|--|-----------|
| 624     |  | Resistance test of individual aluminium alloy wires             | Up to 100 ohm/km                      | Cl.12.4 table-1of IS 398 (Pt-4)(Reaffirmed) with amendment No 1  | Permanent |
| 625     |  | Measurement of lay ratio  | Up to 600 mm                          | Cl.9.2 table-3 of IS 398 (Pt-4) (Reaffirmed) with amendment No 1 | Permanent |
| 626     | IS: 398 (Pt.6)<br>Aluminium Conductors For Overhead Transmission Purposes Part 6: High conductivity aluminium alloy stranded conductor | Visual exmination   | Qualitative                           | Cl.16.2 of IS 398 (Part-6) with amendments No. 1                 | Permanent |
| 627     |  | Measurement of diameter of individual aluminium and steel wires | Up to 25 mm                           | Cl.16.4 of IS 398 (Part-6) with amendments No. 1                 | Permanent |
| 628     |  | Measurement of lay ratio of each layer                          | Up to 600 mm                          | Cl.16.3 of IS 398 (Part-6) with amendments No. 1                 | Permanent |
| 629     |  | Breaking test   | Up to 500 kN                          | Cl.16.5 of IS 398 (Part-6) with amendments No. 1                 | Permanent |
| 630     |  | Elongation Test   | Up to 100 %                           | Cl.16.6 of IS 398 (Part-6) with amendments No. 1                 | Permanent |
| 631     |  | Wrapping test   | . Qualitative                         | Cl.16.8 of IS 398 (Part-6) with amendments No. 1                 | Permanent |
| 632     |  | Resistivity Test  | Up to $20 \times 10^{-6}$ ohm-cm      | Cl.16.7 of IS 398 (Part-6) with amendments No. 1                 | Permanent |
| 633     |  | Ultimate Tensile Strength on Stranded Conductor)                | Up to 500 kN                          | Cl.16.9 of IS 398 (Part-6) with amendments No. 1                 | Permanent |
| 634     |  | d.c. Resistance Test on Stranded Conductor                      | Up to 100 ohm/km                      | Cl.16.10 of IS 398 (Part-6) with amendments No. 1                | Permanent |



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**Reg Office:** 307/20, 2nd Lane No. 5A, Ranjit Nagar, New Delhi 110008, India



### Scope of Accreditation for Testing

As per ISO/IEC 17025:2017

**CAB Name:** Amit test and Calibration Centre **Page No. 70 of 76**  
**Address:** 45/7, Village Prahaladpur Bangar, Rohini sector-30, Near Kali Mata Mandir, New Delhi -110042, Delhi **Issue date :** 30.12.2025  
**Certificate No.:** T-0029 **Validity :** 29.12.2029  
**Amendment date:** N/A

| <b>Sr. No.</b> | <b>Product/ Material to be tested</b> | <b>Parameter/ Type of test/ Properties Measured</b>                            | <b>Range of measurement/ detection limit</b> | <b>Method/ Technique</b>  | <b>Facility</b> |
|----------------|---------------------------------------|--|--|---|-----------------|
| 635            |                                       | Stress-strain Test   | Up to 500 kN                                 | Cl.16.11 of IS 398 (Part-6) with amendments No. 1   | Permanent       |
| 636            | Galvanized strand for earthing        | Measurement of diameter of wires   | Up to 25mm                                   | Cl.6, Annexure A of IS: 12776: (Reaffirmed)   | Permanent       |
| 637            |                                       | Breaking force of galvanized earth strand                                      | Up to 1000 kN                                | Cl.8.1 of IS: 12776: (Reaffirmed)   | Permanent       |
| 638            |                                       | Tensile strength   | Up to 2500 N/mm <sup>2</sup>                 | Cl.8.7 of IS: 12776: (Reaffirmed)   | Permanent       |
| 639            |                                       | Elongation   | Up to 20 %                                   | Cl.8.2 of IS: 12776: (Reaffirmed)   | Permanent       |
| 640            |                                       | D.C. Resistance of Galvanized earth strand                                     | Up to 100 Ω/km                               | Cl.8.3 of IS: 12776: (Reaffirmed)<br>IS :10810 (Pt.5) (Reaffirmed)                                    | Permanent       |
| 641            |                                       | Wrapping test  | Qualitative                                  | Cl.8.4 of IS: 12776: (Reaffirmed)<br>IS : 10810 (Pt.3) (Reaffirmed)                                   | Permanent       |
| 642            |                                       | Torsion test   | Up to 999999 Turns                           | Cl.8.6 of IS: 12776: (Reaffirmed)<br>IS: 10810 (Pt 38) (Reaffirmed)                                   | Permanent       |
| 643            |                                       | Galvanizing test<br>a. uniformity of zinc coating<br>b. weight of zinc coating | Qualitative<br>Up to 500 g/m <sup>2</sup>    | Cl.8.6 of IS: 12776: (Reaffirmed)<br>IS: 10810 (Pt 40) (Reaffirmed)<br>IS: 10810 (Pt 41) (Reaffirmed) | Permanent       |
| 644            |                                       | Lay length of galvanized earth strand  | Up to 1000 mm                                | Cl.6, Annexure A of IS: 12776: (Reaffirmed)   | Permanent       |



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**Amendment date:** N/A

| <b>Sr. No.</b> | <b>Product/ Material to be tested</b>  | <b>Parameter/ Type of test/ Properties Measured</b>                            | <b>Range of measurement/ detection limit</b> | <b>Method/ Technique</b>  | <b>Facility</b> |
|----------------|--|--|--|---|-----------------|
| 645            | Hot Dip Galvanized Stay Strand   | Measurement of diameter of wires and Strand                                    | Up to 150 mm                                 | Cl.8.2, Table 2 of IS: 2141 (Reaffirmed) with amendments No. 1  | Permanent       |
| 646            |  | Breaking force of single wire  | Up to 45 kN                                  | Cl.6.2 , Annex B of IS: 2141 (Reaffirmed) with amendments No. 1   | Permanent       |
| 647            |  | Breaking force of galvanized stay strand                                       | Up to 1000 kN                                | Cl.6.2 , Annex B of IS: 2141 (Reaffirmed) with amendments No. 1   | Permanent       |
| 648            |  | Tensile strength   | Up to 2500 N/mm <sup>2</sup>                 | Cl.9.1 of IS: 2141 (Reaffirmed)   | Permanent       |
| 649            |  | Elongation   | Up to 20 %                                   | Cl.9.1 of IS:2141 (Reaffirmed) with amendments No. 1  | Permanent       |
| 650            |  | Ductility test (Wrapping test)   | Qualitative                                  | Cl.8.1 of IS: 2141 (Reaffirmed) with amendments No. 1   | Permanent       |
| 651            |  | Galvanizing test<br>a. uniformity of zinc coating<br>b. weight of zinc coating | Qualitative<br>Up to 500 g/m <sup>2</sup>    | Cl.9.2 of IS :2141 (Reaffirmed) with amendments No. 1<br>IS: 10810 (Pt 40 (Reaffirmed)<br>IS: 10810 (Pt 41 (Reaffirmed) | Permanent       |
| 652            |  | Lay length of galvanized stay strand   | Up to 1000 mm                                | Cl.6.1 of IS: 2141 (Reaffirmed) with amendments No. 1   | Permanent       |
| 653            | Covered conductors for overhead lines and related accessories for rated voltages above 1kV | Conductor Resistance test  | Up to 100 Ω/km                               | Cl. 4.2.1 of EN 50397-1 & HD 605  | Permanent       |
| 654            |  | High Voltage test  | Up to 35 kV                                  | Sub Cl. 3.2.2.2 of EN 50397-1 & HD 605  | Permanent       |
| 655            |  | Leakage current (test voltage a.c.)  | Up to 5 mA                                   | Annex B of EN 50397-1   | Permanent       |



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As per ISO/IEC 17025:2017

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**Certificate No.:** T-0029 **Validity :** 29.12.2029  
**Amendment date:** N/A

| Sr. No. | Product/ Material to be tested   | Parameter/ Type of test/ Properties Measured       | Range of measurement/ detection limit      | Method/ Technique   | Facility  |
|---------|----------------------------------|--|--|---|-----------|
| 656     | a.c. and not exceeding 36 kV a.c | Tracking resistance                                | Up to 35 kV                                | Annex C of EN 50397-1                                       | Permanent |
| 657     |                                  | Measurement of dimensions                          | Up to 150 mm                               | Sub Cl. 4.2 of EN 50397-1 & EN 60811-1-1                    | Permanent |
| 658     |                                  | Thickness of covering                              | Up to 150 mm                               | Sub Cl. 4.2.3 of EN 50397-1 & Sub Cl. 8.1 of EN 60811-1-1   | Permanent |
| 659     |                                  | Tensile strength of conductor                      | Up to 1000 kN Up to 2500 N/mm <sup>2</sup> | Cl. 4.2.1 of EN 50397-1 & EN 50182                          | Permanent |
| 660     |                                  | Tensile strength & Elongation at break of covering | Up to 200 N/mm <sup>2</sup><br>Up to 800 % | Sub Cl. 4.2.3 of EN 50397-1 & Sub Cl- 9.1 of EN 60811-1-1   | Permanent |
| 661     |                                  | Ageing in air oven                                 | Up to 200 N/mm <sup>2</sup><br>Up to 800 % | Sub Cl- 4.2.3 of EN 50397-1 & Sub Cl. 8.1 of EN 60811-1-2   | Permanent |
| 662     |                                  | Carbon black content                               | Up to 20 %                                 | Sub Cl. 4.2.3 of EN 50397-1 & Cl. 11 of EN 60811-4-1        | Permanent |
| 663     |                                  | Resistance to UV rays                              | Up to 200 N/mm <sup>2</sup><br>0 to 800%   | EN 50397-1 & Sub Cl. 2.4.23 of HD 605 S1:1994/A2            | Permanent |
| 664     |                                  | Compatibility test                                 | Up to 200 N/mm <sup>2</sup><br>Up to 800 % | Sub Cl. 4.2.3 of EN 50397-1 & Sub Cl. 8.1.4 of EN 60811-1-2 | Permanent |
| 665     |                                  | Shrinkage test                                     | Up to 50 %                                 | Sub Cl. 4.2.3 of EN 50397-1 & Cl. 10 of EN 60811-1-3        | Permanent |
| 666     |                                  | Hot Set Test                                       | Up to 400 %                                | Sub Cl. 4.2.3 of EN 50397-1 & Cl. 9 of EN 60811-2-1         | Permanent |



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**Certificate No.:** T-0029 **Validity : 29.12.2029**  
**Amendment date:** N/A

| Sr. No. | Product/ Material to be tested | Parameter/ Type of test/ Properties Measured | Range of measurement/ detection limit | Method/ Technique   | Facility  |
|---------|--------------------------------|--|---------------------------------------|---|-----------|
| 667     |                                | Pressure test at high temperature            | Up to 80 %                            | Sub Cl. 4.2.3 of EN 50397-1 & Sub Cl. 8.1 of EN 60811-3-1 | Permanent |
| 668     |                                | Water Absorption                             | Up to 20 mg/cm <sup>2</sup>           | Sub Cl. 4.2.3 of EN 50397-1 & Sub Cl. 9.2 of EN 60811-1-3 | Permanent |
| 669     |                                | Shore D hardness                             | Qualitative                           | Sub Cl. 4.2.3 of EN 50397-1 & Sub Cl. 2.2.1 of HD 605     | Permanent |
| 670     |                                | Test for longitudinal water tightness test   | Qualitative                           | EN 50397-1 & Annex F of IEC 60502-2                       | Permanent |
| 671     |                                | Content legibility (visual inspection)       | Qualitative                           | Cl. 5 of EN 50397-1                                       | Permanent |
| 672     |                                | Durability                                   | Qualitative                           | Sub Cl. 5.4 of EN 50397-1 & Sub Cl. 2.5.4 of HD 605       | Permanent |
| 673     |                                | Slippage test                                | Up to 50000 N                         | Annex D of EN 50397-1                                     | Permanent |

#### Discipline :- Electrical Group :- Cells and batteries

|     |   |                                   |               |                                      |           |
|-----|---|-----------------------------------|---------------|--------------------------------------|-----------|
| 674 | Stationary Cells And Batteries, Lead-Acid Type (With Tubular Positive Plates) | Marking and packing               | Qualitative   | Cl.8.1 & 8.2 of IS 1651 (Reaffirmed) | Permanent |
| 675 |   | Verification of dimension         | Up to 5000 mm | Cl.12.4 of IS 1651(Reaffirmed)       | Permanent |
| 676 |   | Test for capacity                 | Up to 200 AH  | Cl.12.5 of IS 1651 (Reaffirmed)      | Permanent |
| 677 |   | Test for voltage during discharge | Upto 60V      | Cl.12.10 of IS 1651 (Reaffirmed)     | Permanent |

#### Discipline - Chemical, Group:- Metals and its alloy

|     |                      |           |            |  |           |
|-----|----------------------|-----------|------------|--|-----------|
| 678 | Stainless-steel tape | Carbon, % | Upto 1.2 % | RDSO specification No.RDSO/SPN/TC/110/ | Permanent |
|-----|----------------------|-----------|------------|--|-----------|



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| Sr. No. | Product/ Material to be tested | Parameter/ Type of test/ Properties Measured | Range of measurement/ detection limit | Method/ Technique   | Facility  |
|---------|--------------------------------|--|---------------------------------------|---|-----------|
|         |                                |  |                                       | 2020 Revision-0<br>Table 1 of ASTM A 240  |           |
| 679     |                                | Manganese, %                                 | Upto 12 %                             | RDSO specification No.RDSO/SPN/TC/110/ 2020 Revision-0<br>Table 1 of ASTM A 240 | Permanent |
| 680     |                                | Phosphorous, %                               | Upto 0.045 %                          | RDSO specification No.RDSO/SPN/TC/110/ 2020 Revision-0 Table 1 of ASTM A 240    | Permanent |
| 681     |                                | Sulphur, %                                   | Upto 0.03 %                           | RDSO specification No.RDSO/SPN/TC/110/ 2020 Revision-0<br>Table 1 of ASTM A 240 | Permanent |
| 682     |                                | Chromium, %                                  | Upto 20 %                             | RDSO specification No.RDSO/SPN/TC/110/ 2020 Revision-0<br>Table 1 of ASTM A 240 | Permanent |
| 683     |                                | Nickle, %                                    | Upto 10.5 %                           | RDSO specification No.RDSO/SPN/TC/110/ 2020 Revision-0<br>Table 1 of ASTM A 240 | Permanent |
| 684     |                                | Silicon, %                                   | Upto 0.75 %                           | RDSO specification No.RDSO/SPN/TC/110/ 2020 Revision-0<br>Table 1 of ASTM A 240 | Permanent |
| 685     |                                | Nitrogen, %                                  | Upto 0.10 %                           | RDSO specification No.RDSO/SPN/TC/110/ 2020 Revision-0<br>Table 1 of ASTM A 240 | Permanent |
| 686     | ECCS Tape                      | Carbon, %                                    | Upto 1.2 %                            | TEC 85170 & TEC 89010<br>A.623-77 Type MR                                       | Permanent |



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| Sr. No. | Product/ Material to be tested | Parameter/ Type of test/ Properties Measured                 | Range of measurement/ detection limit | Method/ Technique                                | Facility  |
|---------|--------------------------------|--|---------------------------------------|--|-----------|
| 687     |                                | Manganese, %   | Upto 12 %                             | TEC 85170 & TEC 89010<br>A.623-77 Type MR        | Permanent |
| 688     |                                | Phosphorous, %   | Upto 0.045 %                          | TEC 85170 & TEC 89010<br>A.623-77 Type MR        | Permanent |
| 689     |                                | Sulphur, %   | Upto 0.03 %                           | TEC 85170 & TEC 89010<br>A.623-77 Type MR        | Permanent |
| 690     |                                | Silicon, %   | Upto 20 %                             | TEC 85170 & TEC 89010<br>A.623-77 Type MR        | Permanent |
| 691     |                                | Nitrogen, %  | Upto 10.5 %                           | TEC 85170 & TEC 89010<br>A.623-77 Type MR        | Permanent |
| 692     |                                | Copper, %  | Upto 0.75 %                           | TEC 85170 & TEC 89010<br>A.623-77 Type MR        | Permanent |
| 693     | Copper                         | Copper purity Test (Copper +silver, % by mass)               | Upto 100 %                            | Cl. 7.1 & Table-4 of IS 191 (Reaffirmed:) IS 440 | Permanent |
| 694     |                                | Copper purity Test (Bismuth %)                               | Upto 0.005 %                          | Cl. 7.1 & Table-4 of IS 191 (Reaffirmed:) IS 440 | Permanent |
| 695     |                                | Copper purity Test (Lead, % by mass)                         | Upto 0.008 %                          | Cl. 7.1 & Table-4 of IS 191 (Reaffirmed:) IS 440 | Permanent |
| 696     |                                | Copper purity Test (Oxygen, % by mass)                       | Upto 0.089 %                          | Cl. 7.1 & Table-4 of IS 191 (Reaffirmed:) IS 440 | Permanent |
| 697     |                                | Total of all impurities excluding silver & oxygen, % by mass | Upto 0.067 %                          | Cl. 7.1 & Table-4 of IS 191 (Reaffirmed:) IS 440 | Permanent |



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|---------|--------------------------------|--|---------------------------------------|-------------------|----------|
|---------|--------------------------------|--|---------------------------------------|-------------------|----------|

#### Discipline - Mechanical, Group:- Plastic and plastic material

|     |  |                               |                  |  |           |
|-----|--|-------------------------------|------------------|--|-----------|
| 698 | Material for base & dome of splice closure | Resistance to chemical agents | Qualitative      | TEC 87080 & (Annexure I point no.(c))    | Permanent |
| 699 |  | Visual Examination            | Qualitative      | TEC 87080 & (Annexure I point no.(f))    | Permanent |
| 700 |  | Rockwell                      | Qualitative      | TEC 87080 & &3.1 (b) of GR               | Permanent |
| 701 | ABS Material for splice closure            | Specific gravity              | Upto 5 gm/cc     | TEC 87080 & (Cl.3.6 & Annexure II of GR) | Permanent |
| 702 |  | Tensile strength              | Upto 50 kg/sq.mm | TEC 87080 & (Cl.3.6 & Annexure II of GR) | Permanent |
| 703 |  | Elongation                    | Upto 100 %       | TEC 87080 & (Cl.3.6 & Annexure II of GR) | Permanent |
| 704 |  | Water absorption              | Upto 100 %       | TEC 87080 & (Cl.3.6 & Annexure II of GR) | Permanent |
| 705 |  | Rockwell hardness             | Qualitative      | TEC 87080 & (Cl.3.6 & Annexure II of GR) | Permanent |

#### Discipline Chemical, Group:- Paper and Pulp (Other)

|     |              |   |                           |                                       |           |
|-----|--------------|---|---------------------------|---------------------------------------|-----------|
| 706 | Wood product | Moisture  | Up to 80 %                | Cl.3.1 of TEC 69370 IS 1708 (P-1)     | Permanent |
| 707 |              | Identification of wood                                  | Qualitative               | Cl.3.2 of TEC 6937                    | Permanent |
| 708 |              | Preservatives content in wood (CCA) (Sodium dichromate) | Upto 20 Kg/m <sup>3</sup> | Cl.3.6 of TEC 6937 Table 2 of IS 40   | Permanent |
| 709 |              | Preservatives content in wood (CCA) (Copper Sulphate)   | Upto 20 Kg/m <sup>3</sup> | Cl.3.6 of TEC 6937 Table 2 of IS 401  | Permanent |
| 710 |              | Preservatives content in wood (CCA) (Arsenic Pen)       | Upto 20 Kg/m <sup>3</sup> | Cl.3.6 of TEC 69370 Table 2 of IS 401 | Permanent |



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