# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** TESTING LABORATORY OF ASBESCO INDIA PRIVATE LIMITED, BEGRI, MOUZA BANIARA, SANKHARAIDAHA, HOWRAH, WEST BENGAL, INDIA

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

**Certificate Number** TC-10499 **Page No** 1 of 13

**Validity** 05/04/2022 to 04/04/2024 **Last Amended on** -

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| Permanent Facility | | | | |
| 1 | CHEMICAL- METALS & ALLOYS | Casting (Aluminium and Silicon Alloy) & Extrusion (Aluminium low Alloy) | Chromium,% | ASTM: E1251-17a |
| 2 | CHEMICAL- METALS & ALLOYS | Casting (Aluminium and Silicon Alloy) & Extrusion (Aluminium low Alloy) | Copper,% | ASTM: E1251-17a |
| 3 | CHEMICAL- METALS & ALLOYS | Casting (Aluminium and Silicon Alloy) & Extrusion (Aluminium low Alloy) | Iron,% | ASTM: E1251-17a |
| 4 | CHEMICAL- METALS & ALLOYS | Casting (Aluminium and Silicon Alloy) & Extrusion (Aluminium low Alloy) | Lead,% | ASTM: E1251-17a |
| 5 | CHEMICAL- METALS & ALLOYS | Casting (Aluminium and Silicon Alloy) & Extrusion (Aluminium low Alloy) | Magnesium,% | ASTM: E1251-17a |
| 6 | CHEMICAL- METALS & ALLOYS | Casting (Aluminium and Silicon Alloy) & Extrusion (Aluminium low Alloy) | Manganese,% | ASTM: E1251-17a |
| 7 | CHEMICAL- METALS & ALLOYS | Casting (Aluminium and Silicon Alloy) & Extrusion (Aluminium low Alloy) | Nickel,% | ASTM: E1251-17a |
| 8 | CHEMICAL- METALS & ALLOYS | Casting (Aluminium and Silicon Alloy) & Extrusion (Aluminium low Alloy) | Silicon,% | ASTM: E1251-17a |
| 9 | CHEMICAL- METALS & ALLOYS | Casting (Aluminium and Silicon Alloy) & Extrusion (Aluminium low Alloy) | Tin,% | ASTM: E1251-17a |
| 10 | CHEMICAL- METALS & ALLOYS | Casting (Aluminium and Silicon Alloy) & Extrusion (Aluminium low Alloy) | Titanium,% | ASTM: E1251-17a |
| 11 | CHEMICAL- METALS & ALLOYS | Casting (Aluminium and Silicon Alloy) & Extrusion (Aluminium low Alloy) | Zinc,% | ASTM: E1251-17a |
| 12 | CHEMICAL- METALS & ALLOYS | Forging, Rod & Plate (Low and medium carbon steel) | Carbon,% | IS:8811 |
| 13 | CHEMICAL- METALS & ALLOYS | Forging, Rod & Plate (Low and medium carbon steel) | Manganese,% | IS:8811 |
| 14 | CHEMICAL- METALS & ALLOYS | Forging, Rod & Plate (Low and medium carbon steel) | Phosphorus,% | IS:8811 |
| 15 | CHEMICAL- METALS & ALLOYS | Forging, Rod & Plate (Low and medium carbon steel) | Silicon,% | IS:8811 |
| 16 | CHEMICAL- METALS & ALLOYS | Forging, Rod & Plate (Low and medium carbon steel) | Sulphur,% | IS:8811 |
| 17 | ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Electrical Resistance test | IS 5561 |

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

**Certificate Number** TC-10499 **Page No** 2 of 13

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| 18 | ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Electrical Resistance test | IS 2121(Part 1 & 2) |
| 19 | ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Electrical Resistance test | IS 2486 (Part 1) |
| 20 | ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Heating cycle test | IS 2121(Part 1) |
| 21 | ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Heating cycle test | IS 2486 (Part 1): |
| 22 | ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electrical Power Connectors | Electrical Resistance | BS 3288 Part 1 |
| 23 | ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electrical Power Connectors | Heating Cycle | IEC 61284 |
| 24 | ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Electrical Resistance test | IEC-61284 |
| 25 | ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Heating cycle tes | BS-3288-1 |
| 26 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Mass Pull Off Test | IS 9708 – [Cl. No.: 7.6] |
| 27 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Bend Test on Helical Fittings | IS 2121(Part 1) |
| 28 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Compression and Tension Test on Spacers | IEC 61854 |

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| 29 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Compression and Tension Test on Spacers | IEC 61854 |
| 30 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Compression and Tension Test on Spacers | IS 10162 |
| 31 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Compression and Tension Test on Spacers | IS 10162 |
| 32 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Mass Pull Off Test | IS 9708 – [Cl. No.: 7.6] |
| 33 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Mechanical Strength Test / Tensile Strength Test on Hardware String, Hardware Components & Mass Pull Off Test | BS-3288-1 - [Cl. No.: 5.2, 6.2, 6.4, 7.2.1, 7.5, 8.2, 9.2.1, 10.2, 11.2.5] |
| 34 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Mechanical Strength Test / Tensile Strength Test on Hardware String, Hardware Components & Mass Pull Off Test | BS-3288-1 - [Cl. No.: 5.2, 6.2, 6.4, 7.2.1, 7.5, 8.2, 9.2.1, 10.2, 11.2.5] |
| 35 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Mechanical Strength Test / Tensile Strength Test on Hardware String, Hardware Components. | IEC 61284 – [Cl. No.: 11.3, 11.4.1 (Method-B), 11.5.2, 11.5.3] |
| 36 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Mechanical Strength Test / Tensile Strength Test on Hardware String, Hardware Components. | IEC 61284 – [Cl. No.: 11.3, 11.4.1 (Method-B), 11.5.2, 11.5.3] |
| 37 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Mechanical Strength Test / Tensile Strength Test on Hardware String, Hardware Components. | IS 2121(Part 1) - [Cl. No.: 7.4] IS 2121(Part 4) – [Cl. No.: 6.4, 6.5] IS 2121(Part 3) – [Cl. No.: 5.5] |
| 38 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Mechanical Strength Test / Tensile Strength Test on Hardware String, Hardware Components. | IS 2121(Part 1) : - [Cl. No.: 7.4] IS 2121(Part 4) : – [Cl. No.: 6.4, 6.5] IS 2121(Part 3) : Cl. No.: 5.5] |
| 39 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Mechanical Strength Test / Tensile Strength Test on Hardware String, Hardware Components. | IS 2486 (Part 1) - [Cl. No.: 11.2, 11.3] |

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| 40 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Mechanical Strength Test / Tensile Strength Test on Hardware String, Hardware Components. | IS 2486 (Part 1) [Cl. No.: 11.2, 11.3] |
| 41 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Mechanical Strength Test on Vibration Damper for wight to messenger cable and clamp to messenger cable. | IEC 61897 – [Cl. No.: 7.8, 7.9 |
| 42 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | mechanical test on vibration damper for weight to messenger cable and Clamp to messenger cable | IEC 61897 – [Cl. No.: 7.8, 7.9] |
| 43 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Resilient Test on Helical Fittings | IS 2121(Part 1) |
| 44 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | BS-3288-1 |
| 45 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | BS-3288-1 |
| 46 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | BS-3288-1 |
| 47 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | BS-3288-1 |
| 48 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | BS-3288-1 |
| 49 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | BS-3288-1 |
| 50 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | BS-3288-1 |

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| **Laboratory Name :** | TESTING LABORATORY OF ASBESCO INDIA PRIVATE LIMITED, BEGRI, MOUZA BANIARA, SANKHARAIDAHA, HOWRAH, WEST BENGAL, INDIA |
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| 51 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | BS-3288-1 |
| 52 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | BS-3288-1 |
| 53 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | BS-3288-1 |
| 54 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IEC 61284 (excluding Cl. 11.4.4) |
| 55 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IEC 61284 (excluding Cl. 11.4.4) |
| 56 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IEC 61284 (excluding Cl. 11.4.4) |
| 57 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IEC 61284 (excluding Cl. 11.4.4) |
| 58 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IEC 61284 (excluding Cl. 11.4.4) |
| 59 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IEC 61284 (excluding Cl. 11.4.4) |
| 60 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IEC 61284 (excluding Cl. 11.4.4) |
| 61 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IEC 61284 (excluding Cl. 11.4.4) |

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| 62 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IEC 61284 (excluding Cl. 11.4.4) |
| 63 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IEC 61284 (excluding Cl. 11.4.4) |
| 64 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IEC 61854 |
| 65 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IEC 61854 |
| 66 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IEC 61854 |
| 67 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IEC 61854 |
| 68 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IEC 61854 |
| 69 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IEC 61854 |
| 70 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IEC 61854 |
| 71 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IEC 61854 |
| 72 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IEC 61854 |

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| 73 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IEC 61854 |
| 74 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IEC 61897 |
| 75 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IEC 61897 |
| 76 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IEC 61897 |
| 77 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IEC 61897 |
| 78 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IEC 61897 |
| 79 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IEC 61897 |
| 80 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IEC 61897 |
| 81 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IEC 61897 |
| 82 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IEC 61897 |
| 83 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IEC 61897 |

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| 84 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 10162 |
| 85 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 10162 |
| 86 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 10162 |
| 87 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 10162 |
| 88 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 10162 |
| 89 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 10162 |
| 90 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 10162 |
| 91 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 10162 |
| 92 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 10162 |
| 93 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 10162 |
| 94 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 2121(Part 1 to 4) |

# SCOPE OF ACCREDITATION

**Laboratory Name :** TESTING LABORATORY OF ASBESCO INDIA PRIVATE LIMITED, BEGRI, MOUZA BANIARA, SANKHARAIDAHA, HOWRAH, WEST BENGAL, INDIA

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

**Certificate Number** TC-10499 **Page No** 9 of 13

**Validity** 05/04/2022 to 04/04/2024 **Last Amended on** -

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 95 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 2121(Part 1 to 4) |
| 96 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 2121(Part 1 to 4) |
| 97 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 2121(Part 1 to 4) |
| 98 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 2121(Part 1 to 4) |
| 99 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 2121(Part 1 to 4) |
| 100 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 2121(Part 1 to 4) |
| 101 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 2121(Part 1 to 4) |
| 102 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 2121(Part 1 to 4) |
| 103 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 2121(Part 1 to 4) |
| 104 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 2486 (Part 1) |
| 105 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 2486 (Part 1) |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | TESTING LABORATORY OF ASBESCO INDIA PRIVATE LIMITED, BEGRI, MOUZA BANIARA, SANKHARAIDAHA, HOWRAH, WEST BENGAL, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
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| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
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| 106 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 2486 (Part 1) |
| 107 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 2486 (Part 1) |
| 108 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 2486 (Part 1) |
| 109 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 2486 (Part 1) |
| 110 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 2486 (Part 1) |
| 111 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 2486 (Part 1) |
| 112 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 2486 (Part 1) |
| 113 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 2486 (Part 1): |
| 114 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 9708 |
| 115 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 9708 |
| 116 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 9708 |

# SCOPE OF ACCREDITATION

**Laboratory Name :** TESTING LABORATORY OF ASBESCO INDIA PRIVATE LIMITED, BEGRI, MOUZA BANIARA, SANKHARAIDAHA, HOWRAH, WEST BENGAL, INDIA

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

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|---|---|---|---|---|
| 117 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 9708 |
| 118 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 9708 |
| 119 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 9708 |
| 120 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 9708 |
| 121 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 9708 |
| 122 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 9708 |
| 123 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Slip Strength Test/ Failing Load test on Conductor & Ground wire Accessories/ Clamps/ Joints | IS 9708 |
| 124 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Tensile Test | IS:1608 (Part 1) |
| 125 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Torque Test | BS-3288-1 |
| 126 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Torque Test | BS-3288-1 |
| 127 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Torque Test | BS-3288-1 |
| 128 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Torque Test | BS-3288-1 |

# SCOPE OF ACCREDITATION

**Laboratory Name :** TESTING LABORATORY OF ASBESCO INDIA PRIVATE LIMITED, BEGRI, MOUZA BANIARA, SANKHARAIDAHA, HOWRAH, WEST BENGAL, INDIA

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|---|---|---|---|---|
| 129 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Torque Test | IEC 61854 |
| 130 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Torque Test | IEC 61854 |
| 131 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Torque Test | IEC 61854 |
| 132 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Torque Test | IEC 61854 |
| 133 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Torque Test | IEC 61897 |
| 134 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Torque Test | IEC 61897 |
| 135 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Torque Test | IEC 61897 |
| 136 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Torque Test | IEC 61897 |
| 137 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Torque Test | IS 10162 |
| 138 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Torque Test | IS 10162 |
| 139 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Torque Test | IS 10162 |
| 140 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Torque Test | IS 10162 |
| 141 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Torque Test | IS 9708 |
| 142 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Torque Test | IS 9708 |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | TESTING LABORATORY OF ASBESCO INDIA PRIVATE LIMITED, BEGRI, MOUZA BANIARA, SANKHARAIDAHA, HOWRAH, WEST BENGAL, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
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| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 143 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Verification of Resistance to Bending & Operation Test on Locking Devices | IS 2486 (Part 4) [Cl. No.: 3.3.1 & 3.5.1] |
| 144 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Insulator Hardware Fittings & Accessories for Overhead Transmission Line above >1000V and Electricals Power Connector | Elongation at Break,% | IS 1608: Part-1 |
| 145 | MECHANICAL- SUB ASSEMBLY/ANCILLARIES/ACCESSORIES | Test for locking devices | Operational load test | IS 2486 part 4 (CL 3.5.1 |