1. **GENERAL DATA & INFORMATION:**

Sl. No. **:**

Model No **:**

Type **:**

Maximum Continuous operating voltage in kV rms **:**

Rated Voltage in kV rms **:**

Frequency **:** 60 HZ

Nominal Discharge Current (KA) rms **:**

Year of Manufacture **:**

1. **MECHANICAL CHECK AND VISUAL INSPECTION:**

(As per TCS - P – 105, Item No :3.4.1)

|  |  |  |
| --- | --- | --- |
| Item No | Description | Remarks |
| 1 | Inspect For Physical Damage/Defects and sign of fluid leaks |  |
| 2 | Check Nameplates Information For Correctness |  |
| 3 | Check Quality For Paint Work |  |
| 4 | Check Tightness Of All Bolted Connections (by Torque wrench method) |  |
| 5 | Check That All Grounding Are Securely Connected |  |
| 6 | Check configuration as per Drawings |  |
| 7 | Check mounting racks & supporting insulators, structures for defects such as cracked welds, chipped porcelain etc. |  |

1. **SURGE ARRESTER TEST:**
   1. Electrical Test**:** ( As per TCS - P – 105, Item No :3.4.2)
      1. **INSULATION TEST:**

Insulation Checked With 5kV for 1 min

|  |  |  |  |
| --- | --- | --- | --- |
| R – Phase - Earth | Y – Phase - Earth | B – Phase - Earth. | Remarks |
|  |  |  |  |
|  |  |  |  |

Criteria**:**

* + 1. **LEAKAGE CURRENT METER CALIBRATION :**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Injected Current | | | Expected Reading | | | Actual Reading | | | % Error |
| R | Y | B | R | Y | B | R | Y | B |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

Criteria**:**

* + 1. **CAPACITANCE & TAN DELTA :**

Instrument :

Correction Factor :

(To convert % Dissipation Factor to 20 ° C, Multiply measured % Dissipation Factor with Correction Factor)

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Test  No. | Insulation  Tested | Test  Mode | Test Connection | | | Test  KV | mA | Capacitance  Ρf | P.F  % | P.F %  At 20 ̊ C | Watts |
| ENG | GND | GAR |
|  |  |  |  |  |  |  |  |  |  |  |  |

Criteria**:** < 0.5%