1. **GENERAL DATA & INFORMATION:**

Sl. No. **:**

Make **:**

Type **:**

Reactance Capacity **:**

Voltage Rating **:**

Connection Type **:**

Frequency  **:** 60 Hz

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

(As per TCS – P – 105 ,Rev – 01, Item no – 3.42.1)

|  |  |  |
| --- | --- | --- |
| Item | Description | Remarks |
| 1 | Inspect for defects and physical damage from shipping and handling |  |
| 2 | Check nameplates information for correctness |  |
| 3 | Check for overall body deformation |  |
| 4 | Check tightness of all bolted connections (by torque wrench method) |  |
| 5 | Check of foreign particles between the layers of the reactor coils |  |
| 6 | Check all grounding cables are securely connected |  |
| 7 | Check quality of paint for reactors |  |
| 8 | Check for insulation Cracks |  |
| 9 | Check Proper Termination |  |

1. **SERIES REACTOR TEST**
   1. **ELECTRICAL TEST:** (As per TCS – P – 105 ,Rev – 01 ,Item no – 3.42.2)
      1. **Insulation test**

Insulation Checked With 5kV for 1 Min

|  |  |  |  |
| --- | --- | --- | --- |
| R – Phase to Gnd | Y – Phase to Gnd | B – Phase to Gnd | Remarks |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Criteria:

* + 1. **IMPEDANCE MEASUREMENT (Z)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Phase | Injected Value | | Impedance in (Ω) | Remarks |
| AC Volt (V) | AC Amps (A) |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

Criteria:

* + 1. **D.C. RESISTANCE MEASUREMENTS (Y)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Phase | Injected Value | | DC Resistance in (Ω) | Remarks |
| DC Volt (V) | DC Amps (A) |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

Criteria

* + 1. **L CALCULATED**

|  |  |  |  |
| --- | --- | --- | --- |
| Phase | Calculated Reactance  XL = (mΩ) | Measured Reactance XL = √Z2  - Y2 (m Ω) | L in (mH ) |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |