1. **NAME PLATE DETAILS**

Sl. no. :

Make :

Power Capacity :

Voltage Rating :

Connection Type :

Frequency : 60 HZ

1. **MECHANICAL CHECK AND VISUAL INSPECTION**

 (As per TCS – P – 105, REV -01, Item No – 3.41.1)

|  |  |  |
| --- | --- | --- |
| 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 Leakage for Any Cell Of Capacitors |  |
| 6 | Check That All Grounding Cables Are Securely Connected |  |
| 7 | Check Any Damaged Paint in Capacitors |  |
| 8 | Check Surge Arrestor Connections |  |
| 9 | Check Banking Configuration as Per Drawings |  |
| 10 | Check Mounting Racks & Supporting Insulators, Structures For Defects Such As Cracked Welds, Chipped Porcelain Etc. |  |
| 11 | Check Supporting Structure for Each Phase Grounded At Two Diagonally Opposite Legs |  |
| 12 | Verify Capacitor Bank Neutral Grounding As Specified (Single Point Ground or Peripheral Grounding) |  |
| 13 | Check Capacitor Bushing Tightness and Bird Proof Capes |  |
| 14 | Check for Bushing Cracks |  |
| 15 | Check Proper Termination |  |
| 16 | Check CT Location Physically |  |
| 17 | Check VT Location Physically |  |

1. **CAPACITOR BANK TEST:**
	1. Electrical Test**:** (As per TCS – P – 105 , Item No – 3.41.2)
		1. Insulation Test:

 Insulation Checked With 5kV for 1 Min

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

Criteria**:**

* + 1. Capacitance Measurement Test**:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Capacitor No | Serial No’s | Measured capacitance(µғ) | Insulation Resistance(GΩ) | Deviation |
| R - Phase |  |  |  |  |
| 1 |  |  |  |  |
| 2 |  |  |  |  |
| 3 |  |  |  |  |
| Y – Phase |  |  |  |  |
| 1 |  |  |  |  |
| 2 |  |  |  |  |
| 3 |  |  |  |  |
| B – Phase |  |  |  |  |
| 1 |  |  |  |  |
| 2 |  |  |  |  |
| 3 |  |  |  |  |

Criteria**:**