1. **GENERAL DATA & INFORMATION:**

Sl no. :

Make :

Type :

Capacity :

Voltage rating :

Phase connection :

Frequency : 60 HZ

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

(As Per TCS – P – 105 Rev – 01,Item 3.40.1)

|  |  |  |
| --- | --- | --- |
| Item | Description | Remarks |
| 1 | Check for Damage/Defects to the body or fuses |  |
| 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 the interlock system |  |
| 7 | Check the level of insulation medium (SF6,OIL,..etc) |  |

1. **ELECTRICAL TEST:**

(As Per TCS – P – 105 Rev – 01,Item 3.40.2)

* 1. **INSULATION RESISTANCE TEST**

Insulation Checked with 5kv for 1 Min and measured values in (MΩ)

|  |  |  |  |
| --- | --- | --- | --- |
| R phase - earth | Y phase - earth | B Phase - earth. | Remarks |
|  |  |  |  |
|  |  |  |  |

Criteria:

* 1. **CONTACT RESISTANCE TEST:**

|  |  |  |  |
| --- | --- | --- | --- |
| Connection points | Phases | Measured resistance at 100 ADC | Remarks |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Criteria:

* + 1. **INSULATION RESISTANCE BEFORE AND AFTER H.V. TEST ( 5 KV ):**

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Description | Value in G Ω | |
| Before | After |
| 1 | With all switches closed, test between poles and earth |  |  |
| 2 | With all switches closed, test between 2 poles and 3rd earth |  |  |
| 3 | Test across opened switching device (one side ground ) injection bay at 1 in closed position |  |  |
| 4 | Injection at bay 1 in opened position bay 2 in closed position & grounded |  |  |

Criteria:

* + 1. **HIGH VOLTAGE TEST:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Injecting phase | Applying Voltage | Leakage Current | Time | Remarks |
| R | 30 KV |  | 60 sec |  |
| Y |  |  |
| B |  |  |

\* Voltage should carry out at 80% applied at the approved Factory Test

Result.

Criteria:

1. **TESTING FOR CABLE RING CURRENT TRANSFORMER**
   1. **GENERAL DATA & INFORMATION:**

Type:

Aux. Supply:

Manufacturer:

Contact no.:

Current range:

* 1. **INSULATION RESISTANCE TEST:**

|  |  |  |
| --- | --- | --- |
| Applied 1000 V in  secondary 1 min | Measured value in (MΩ) | Remarks |
|  |  |  |

1. **EARTH FAULT INDICATOR:**

Current injected check earth fault indicator

25 A operated

Check earth fault indicator flag reset by depressing the reset Plunger

* 1. **GENERAL DATA & INFORMATION:**

Type:

Aux. Supply:

Manufacturer:

Contact no.:

Current range:

* 1. **PICK UP TEST**

|  |  |
| --- | --- |
| Setting ( A ) | Pick - Up value ( A ) |
| 50 |  |
|  |  |
| 25 |  |
|  |  |

* 1. **TIMING TEST:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Injected current (A) | Optd. Time (ms) | | Flag reset time (sec) | |
| Setting | Meas. | Limit | Meas. |
| 50 | 100 |  | 10> t <30sec |  |
| 25 |  |  |

'- Time taken at contact 9, 10 N/O

'- Alarm check on Annunciator at Control Panel \_\_\_\_