As Per the Schematic Drawings the Contents in This Test Format Can Be Modified

1. **GENERAL DATA AND INFORMATION:**

|  |  |  |  |
| --- | --- | --- | --- |
| Panel designation |  | Circuit ref |  |
| Serial no |  | Type |  |
| Manufacture |  | Range |  |
| Dwg & sch no |  | Class |  |
| Panel no |  |  |  |

1. **MECHANICAL CHECK AND VISUAL INSPECTION** As per TCS–P-105 Rev - 01 Item no 4.1

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Description | Checked | |
| 1 | Check tightness of all connections | ❑Yes | ❑N/A |
| 2 | Inspect for physical damage / defects | ❑Yes | ❑N/A |
| 3 | Panel condition, cleanliness, organization, labeling, readiness for service, panel doors, handles...etc | ❑Yes | ❑N/A |
| 4 | CT shorting checked | ❑Yes | ❑N/A |
| 5 | Indications checked | ❑Yes | ❑N/A |
| 6 | Contact resistance of tripping and alarm checked | ❑Yes | ❑N/A |
| 7 | Check the ferrules as per specification | ❑Yes | ❑N/A |
| 8 | Confirm that each panel has been properly secured to the floor in its final service location. | ❑Yes | ❑N/A |
| 9 | Panel Earthing checked | ❑Yes | ❑N/A |
| 10 | Confirm that panels are constructed and wired as per SEC relevant specification. | ❑Yes | ❑N/A |
| 11 | Check case cover and gasket for proper seal against dust. | ❑Yes | ❑N/A |
| 12 | Check all installed equipment nameplate information for compliance to approved drawings and equipment /material lists. | ❑Yes | ❑N/A |
| 13 | For all internal and external panel wiring, confirm that all screw terminations are tight and that crimp connectors are firmly secured to the wire and to the termination point. Ensure that no part of the wire is bent at the termination point. Check Ferrules. | ❑Yes | ❑N/A |
| 14 | Check that panel equipment is mounted securely and protected against mal operation due to vibration, shock, etc | ❑Yes | ❑N/A |
| 15 | Use of ring type terminals for wire termination for current circuit wires. | ❑Yes | ❑N/A |

1. **GENERAL PANEL FUNCTIONAL CHECK**: As per TCS–P-105 Rev -01,Item no 5.1

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Description | Remarks | |
| 1 | Check Output Of Ac Outlet | ❑Yes | ❑N/A |
| 2 | Check Illumination Lamp | ❑Yes | ❑N/A |
| 3 | Check Door Switch | ❑Yes | ❑N/A |
| 4 | Check Heater / Thermostat | ❑Yes | ❑N/A |
| 5 | Identification label for each compartment is fixed properly | ❑Yes | ❑N/A |
| 6 | Manual spring charging operation | ❑Yes | ❑N/A |
| 7 | Circuit breaker manual closing by Push button | ❑Yes | ❑N/A |
| 8 | Circuit breaker manual opening by Push button | ❑Yes | ❑N/A |
| 9 | Check under voltage relay operation | ❑Yes | ❑N/A |
| 10 | Check over current relay operations | ❑Yes | ❑N/A |

1. **ELECTRICAL OPERATION TEST**

|  |  |  |
| --- | --- | --- |
| Item | Description | Status |
| 1 | Electrical spring charging motor operation |  |
| 2 | Circuit breaker closing by local & remote electrical operation |  |
| 3 | Circuit breaker opening by local & remote electrical operation |  |
| 4 | Circuit breaker emergency trip checked |  |
| 5 | Circuit breaker close interlock verified as per drawing |  |
| 6 | Circuit breaker “ON “ indication checked |  |
| 7 | Circuit breaker “OFF “ indication checked |  |
| 8 | Circuit breaker “TRIP “ indication checked |  |
| 9 | Cubicle illumination lamp circuit checked |  |
| 10 | Cubicle heater circuit checked |  |
| 11 | All contactor & relay operation is checked |  |

1. **AUTO / MANUAL CHANGE OVER OPERATION**
   1. **Auto Mode**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Item | Condition | Q - 101  Incomer - 1 | Q - 103  Bus Section | Q - 102  Incomer - 2 |
| 1 | Normal | Closed | Opened | Closed |
| 2 | >v at incomer - 1 | Opened after 3 sec | Closed After T = 3 Sec delayed time after I /C –1 CB opened | Closed |
| 3 | V return to bus bar 1 | Closed after 15 minutes | Opened After same 15 min | Closed |
| 4 | > v at incomer – 2 | Closed | Closed After T = 3 Sec delayed time after I /C –2 CB opened | Opened after 3 s |
| 5 | V return to bus bar 2 | Closed | Opened After same 15 min | Closed after 15 min |
| 6 | > v at incomer 1 & incomer 2 | Opened | Opened | Opened |
| 7 | O / C at I / C -1 | Tripped | Opened | Close |
| 8 | O / C at I / C - 2 | Closed | Opened | Tripped |

* 1. **Manual Mode**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Item | Condition | Q - 101  Incomer - 1 | Q - 103  Bus section | Q - 102  Incomer - 2 |
| 1 | Normal | Closed | Opened | Closed |
| 2 | >v at incomer - 1 | Opened after 3 s | Closed by push-button | Closed |
| 3 | V return to bus bar 1 | Closed after 15 min by pressing push-button | Opened by push button | Closed |
| 4 | > v at incomer – 2 | Close | Closed by push-button | Opened after 3 s |
| 5 | V return to bus bar 1 | Close | It can be opened by pressing push button | After 15 minutes it can be closed by pressing push button |
| 6 | > v at incomer 1 & incomer 2 | Opened | Open | Opened |
| 7 | O / C at I / C -1 | Tripped | Open | Close |
| 8 | O / C at I / C - 2 | Close | Open | Tripped |
| 9 | O / C at I / C – 1 & 2 | Tripped | Open | Tripped |

1. **ACDB AUXILIARY CIRCUIT CHECK**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item | Circuit Details | Cable Size | Breaker Size | From Circuit | To Circuit | Remarks |
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1. **ANNUNCIATION:**

Panel Ref :

Unit Name:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Item | Description | Input | Alarm | | Time | | Output  Cont  Oper | Fmk TB no. | Color of the Led  Red / yellow |
| Indication | Audible | Set | Meas |
| 1 |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |  |  |  |

* 1. Dc supply fail checked:
  2. Aux. Ac supply fail checked: