



**Electrical Test Laboratory**  
**E L & P Substation**  
**Test Sheet**

NAME :

DESIGNATION :

OCB No. :

PANEL NO. :

DATE :

NATURE : R/C

**D.M.I.T. RELAY.**

**SOLKOR R/TRANSLAY**

CT RATIO :

CT RATIO :

| V | R Amp | Y Amp | B Amp |
|---|-------|-------|-------|
|   |       |       |       |
|   |       |       |       |
|   |       |       |       |
|   |       |       |       |
|   |       |       |       |
|   |       |       |       |
|   |       |       |       |

| V | R Amp | Y Amp | B Amp |
|---|-------|-------|-------|
|   |       |       |       |
|   |       |       |       |
|   |       |       |       |
|   |       |       |       |
|   |       |       |       |
|   |       |       |       |
|   |       |       |       |

POLARITIES :

PILOT CABLE

O/L SETTING :

A/%

T.M.S. :

Loop resistance :

E/L SETTING :

A/%

T.M.S. :

Insulation resistance :

RELAY TESTED PRIM/ SEC/ TW. INJECTION

T1 – E :

| MULTIPLE  | O/L R ph. | O/L Y ph. | O/L B ph. | E/L |   |     |   |     |
|-----------|-----------|-----------|-----------|-----|---|-----|---|-----|
| Of P.C.S. | A         | Sec       | A         | Sec | A | Sec | A | Sec |
| 2         |           |           |           |     |   |     |   |     |
| 4         |           |           |           |     |   |     |   |     |
| 6         |           |           |           |     |   |     |   |     |

T2 – E :

T1 – T2 :

**OVERALL FAULT SETTING**

| FAULT | T.W./<br>Sec. A | A<br>mA | B<br>mA | AC<br>mA | OPERA-<br>TION % |
|-------|-----------------|---------|---------|----------|------------------|
| R – E |                 |         |         |          |                  |
| Y – E |                 |         |         |          |                  |
| B – E |                 |         |         |          |                  |
| R – Y |                 |         |         |          |                  |
| B – Y |                 |         |         |          |                  |
| R – B |                 |         |         |          |                  |

**INSTANTANEOUS RELAY**

| O/L Setting      | E/L Setting      |
|------------------|------------------|
| R ph. Trips at A |                  |
| Y ph. Trips at A | Relay trips at A |
| B ph. Trips at A |                  |

| BUCHOLZ RELAY                               | cc |
|---|----|
| Relay trip & lock-out OCB. Give indication. |    |
| TEMPERATURE RELAY                           | C  |
| Relay trip OCB. Give indication.            |    |

**FRAME LEAKAGE RELAY:**

| V | 1 A | 2 A | 3 A | ZONE          | 1 | 2 | 3   |
|---|-----|-----|-----|---------------|---|---|-----|
|   |     |     |     | TYPE          |   |   |     |
|   |     |     |     | PLUG          |   |   |     |
|   |     |     |     | P / Amp       |   |   |     |
|   |     |     |     | TRIPS         |   |   |     |
|   |     |     |     | RATIO         |   |   |     |
|   |     |     |     | TEST SPIKES : |   |   | Ohm |
|   |     |     |     | EARTH MAT :   |   |   | Ohm |

| CURRENT BETWEEN | RELAY OUTPUT |
|-----------------|--------------|
| R – E 1.10A     | V            |
| Y – E 1.40A     | V            |
| B – E 2.00 A    | V            |
| R – Y 4.50 A    | V            |
| B – Y 4.50 A    | V            |
| R - B 2.25 A    | V            |

RELAY TYPE :

SETTING :

**RESISTANCE MEASUREMENTS**

| ZONE | 1 | 2 | 3 |
|------|---|---|---|
| E    |   |   |   |
| 1    |   |   |   |
| 2    |   |   |   |

TESTED BY

APPROVED BY

DATE