

## SETTING RELE PROTEKSI DAN HASIL TEST 2016 – 2017

### BANDARA SOEKARNO- HATTA

#### ➤ ER 1 -MPS

#### INCOMING

| MCa                       | Element          | Characteristic Tripping Curve | Current Therseshold | Delay Time |             | Rasio CT | Keterangan  |
|---------------------------|------------------|-------------------------------|---------------------|------------|-------------|----------|-------------|
|                           |                  |                               |                     | TMS        | 10I/Is/t    |          |             |
| SEPAM S40<br>50/51        | 1. OC lowset * 1 | IEC EIT /C                    | 1 kA                |            | 1,21 s      | 1200/5   | TIDAK AKTIF |
|                           | 2. OC            | IEC EIT /C                    | 1,01 kA             |            | 1,62 s      |          |             |
|                           | 3. SC            | Definite Time                 | 4,3 kA              |            | 80 ms       |          |             |
|                           | 4. SC            | Definite Time                 | 3,5 kA              |            | 3 s         |          |             |
|                           |                  |                               |                     |            |             |          |             |
| SEPAM S40<br>50N/51N      | 1. GF lowset     | IEC SIT /A                    | 120 A               |            | 300 ms      |          |             |
|                           | 2. GF Highset    | Definite Time                 | 1 kA                |            | 100 ms      |          |             |
|                           |                  |                               |                     |            |             |          |             |
| SEPAM S40<br>UNDERVOLTAGE | 1. Trip CB Mca   | Definite Time                 | 18 KV (10%)         |            | 1,7 s       |          | AKTIF       |
|                           | 2. Close CB MCb  | Definite Time                 |                     |            | 1,7 + 0,3 s |          |             |
|                           |                  |                               |                     |            |             |          |             |
| SEG MRI3 MCa              | Element          | Characteristic Tripping Curve | Current Therseshold | Delay Time |             | Rasio CT | Keterangan  |
|                           |                  |                               |                     | TMS        | 10I/Is/t    |          |             |
| SEG MRI3 MCa<br>50/51     | 1. OC            | IEC EIT /C                    | 1032 A              | 0,1        |             | 1200/5   | AKTIF       |
|                           | 2. SC            | Definite Time                 | 4320 A              |            | 80 ms       |          |             |
|                           | 3. SC            | Definite Time                 |                     |            |             |          |             |
| SEG MRI3 MCa              |                  |                               |                     |            |             |          |             |

## LAMPIRAN C

|                               |                  |                                      |                          |                   |                 |                 |                    |
|-------------------------------|------------------|--------------------------------------|--------------------------|-------------------|-----------------|-----------------|--------------------|
| <b>50N/51N</b>                | 1. GF lowset     | IEC SIT /A                           | 96 A                     | 0,1               |                 |                 |                    |
|                               | 2. GF Highset    | Definite Time                        |                          |                   |                 |                 |                    |
| <b>MCb</b>                    | <b>Element</b>   | <b>Characteristic Tripping Curve</b> | <b>Current Thershold</b> | <b>Delay Time</b> |                 | <b>Rasio CT</b> | <b>Keterangan</b>  |
|                               |                  |                                      |                          | <b>TMS</b>        | <b>10I/Is/t</b> |                 |                    |
| <b>SEPAM S40 50/51</b>        | 1. OC lowset * 1 | IEC EIT /C                           | 1 kA                     |                   | 1,21 s          | 1200/5          | <b>TIDAK AKTIF</b> |
|                               | 2. OC            | IEC EIT /C                           | 1,01 kA                  |                   | 1,62 s          |                 |                    |
|                               | 3. SC            | Definite Time                        | 4,3 kA                   |                   | 80 ms           |                 |                    |
|                               | 4. SC            | Definite Time                        | 3,5 kA                   |                   | 3 s             |                 |                    |
|                               |                  |                                      |                          |                   |                 |                 |                    |
| <b>SEPAM S40 50N/51N</b>      | 1. GF lowset     | IEC SIT /A                           | 120 A                    |                   | 300 ms          |                 |                    |
|                               | 2. GF Highset    | Definite Time                        | 1 kA                     |                   | 100 ms          |                 |                    |
|                               |                  |                                      |                          |                   |                 |                 |                    |
| <b>SEPAM S40 UNDERVOLTAGE</b> | 1. Trip CB Mca   | Definite Time                        | 18 KV (10%)              |                   | 1,7 s           |                 | AKTIF              |
|                               | 2. Close CB MCb  | Definite Time                        |                          |                   | 1,7 + 0,3 s     |                 |                    |
|                               |                  |                                      |                          |                   |                 |                 |                    |
| <b>SEG MRI3 MCb</b>           | <b>Element</b>   | <b>Characteristic Tripping Curve</b> | <b>Current Thershold</b> | <b>Delay Time</b> |                 | <b>Rasio CT</b> | <b>Keterangan</b>  |
|                               |                  |                                      |                          | <b>TMS</b>        | <b>10I/Is/t</b> |                 |                    |
| <b>SEG MRI3 MCb 50/51</b>     | 1. OC            | IEC EIT /C                           | 1032 A                   | 0,1               |                 | 1200/5          | AKTIF              |
|                               | 2. SC            | Definite Time                        | 4320 A                   |                   | 80 ms           |                 |                    |
|                               | 3. SC            | Definite Time                        |                          |                   |                 |                 |                    |
| <b>SEG MRI3 MCb 50N/51N</b>   |                  |                                      |                          |                   |                 |                 |                    |
|                               | 1. GF lowset     | IEC SIT /A                           | 96 A                     | 0,1               |                 |                 |                    |
|                               | 2. GF Highset    | Definite Time                        |                          |                   |                 |                 |                    |

➤ ER 3 -MPS (OUTGOING)

| MCy                  | Element       | Characteristic Tripping Curve | Current Thershold | Delay Time |          | Rasio CT | Keterangan |
|----------------------|---------------|-------------------------------|-------------------|------------|----------|----------|------------|
|                      |               |                               |                   | TMS        | 10I/Is/t |          |            |
| SEPAM T20<br>50/51   | 1. OC         | IEC EIT /C                    | 15,2 A            |            | 170 ms   | 30/5     |            |
|                      | 2. SC         | Definite Time                 | 72                |            | 50 ms    |          |            |
|                      |               |                               |                   |            |          |          |            |
| SEPAM T20<br>50N/51N |               |                               |                   |            |          | CSH_2A   |            |
|                      | 1. GF lowset  | IEC SIT /A                    | 0.3 A             |            | 100 ms   |          |            |
|                      | 2. GF Highset | Definite Time                 | 1.2 A             |            | 80 ms    |          |            |
| MCz                  | Element       | Characteristic Tripping Curve | Current Thershold | Delay Time |          | Rasio CT | Keterangan |
|                      |               |                               |                   | TMS        | 10I/Is/t |          |            |
| SEPAM T20<br>50/51   | 1. OC         | IEC EIT /C                    | 15,2 A            |            | 170 ms   | 30/5     |            |
|                      | 2. SC         | Definite Time                 | 72 A              |            | 50 ms    |          |            |
|                      | 3. SC         | Definite Time                 |                   |            |          |          |            |
| SEPAM T20<br>50N/51N |               |                               |                   |            |          | CSH_2A   |            |
|                      | 1. GF lowset  | IEC SIT /A                    | 0,3 A             |            | 100 ms   |          |            |
|                      | 2. GF Highset | Definite Time                 | 1,2 A             |            | 80 ms    |          |            |

**TEKNIK SELATAN (GH)**

| MCp               | Element       | Characteristic Tripping Curve | Current Thershold | Delay Time |          | Rasio CT | Keterangan |
|-------------------|---------------|-------------------------------|-------------------|------------|----------|----------|------------|
|                   |               |                               |                   | TMS        | 10I/Is/t |          |            |
| SEPAM S40 50/51   | 1. OC         | IEC EIT /C                    | 95 A              |            | 120 ms   | 75/5     |            |
|                   | 2. SC         | Definite Time                 | 188 A             |            | 200 ms   |          |            |
|                   |               |                               |                   |            |          |          |            |
| SEPAM S40 50N/51N |               |                               |                   |            |          | CSH_20 A |            |
|                   | 1. GF lowset  | IEC SIT /A                    | 4 A               |            | 300 ms   |          |            |
|                   | 2. GF Highset | Definite Time                 | 35 A              |            | 100 ms   |          |            |
| MCq               | Element       | Characteristic Tripping Curve | Current Thershold | Delay Time |          | Rasio CT | Keterangan |
|                   |               |                               |                   | TMS        | 10I/Is/t |          |            |
| SEPAM S40 50/51   | 1. OC         | IEC EIT /C                    | 95 A              |            | 120 ms   | 75/5     |            |
|                   | 2. SC         | Definite Time                 | 188 A             |            | 200 ms   |          |            |
|                   |               |                               |                   |            |          |          |            |
| SEPAM S40 50N/51N | 1. GF lowset  | IEC SIT /A                    | 4 A               |            | 300 ms   |          |            |
|                   | 2. GF Highset | Definite Time                 | 35 A              |            | 100 ms   |          |            |
|                   |               |                               |                   |            |          |          |            |