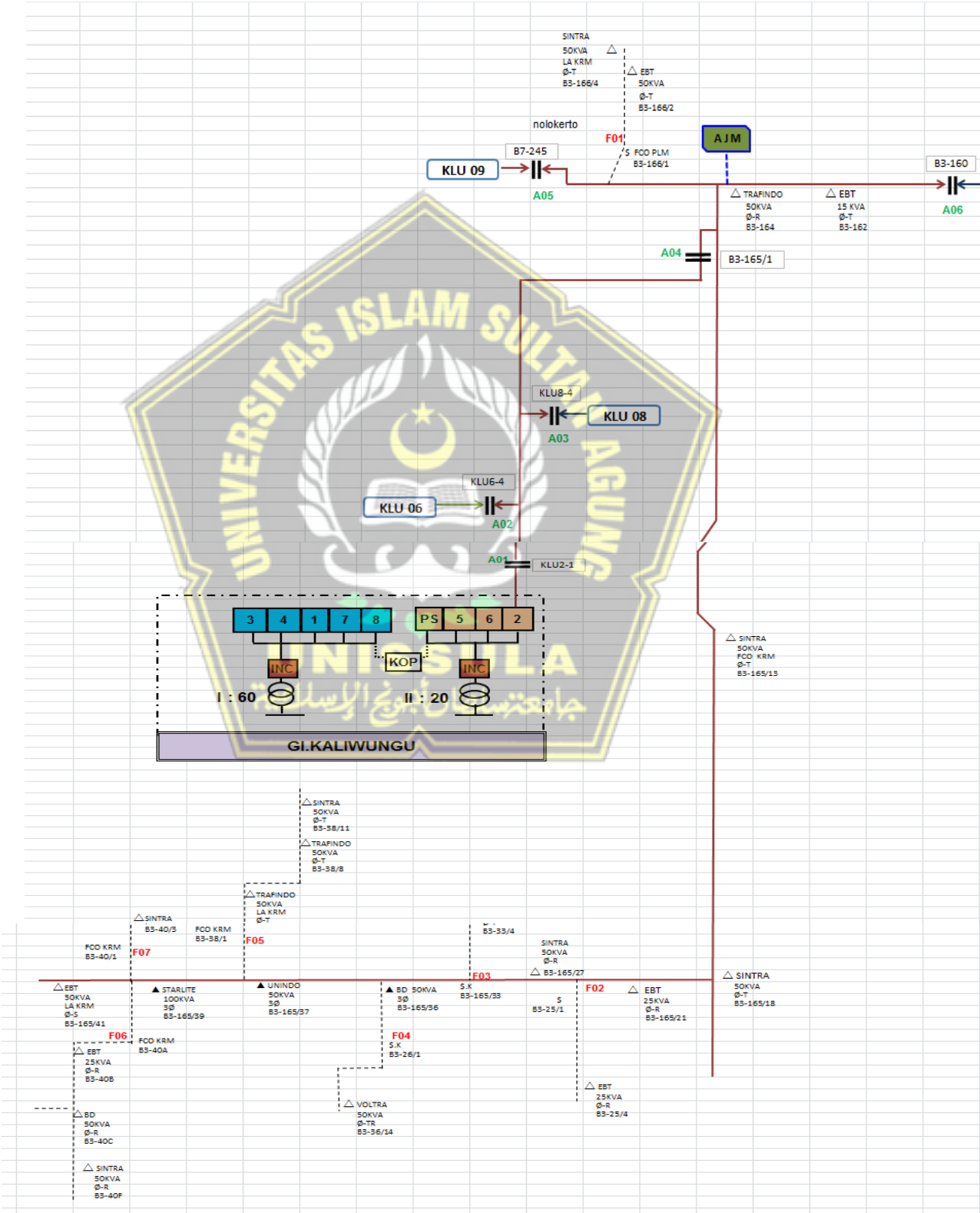


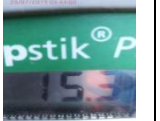




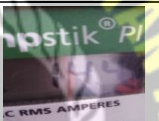






















































LAMPIRAN






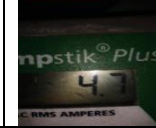







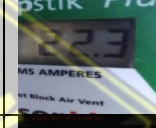


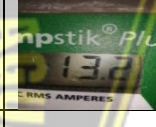








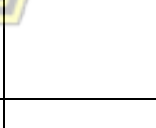






Single Line Diagram Penyulang Gardu B3-165/1 Nolakerto GI Kaliwungu
















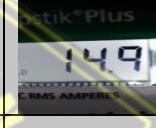







































**Data Pengukuran Arus Beban Pada Siang & malam Hari feeder B3-165/1
Nolokerto Gardu Induk Kaliwungu**

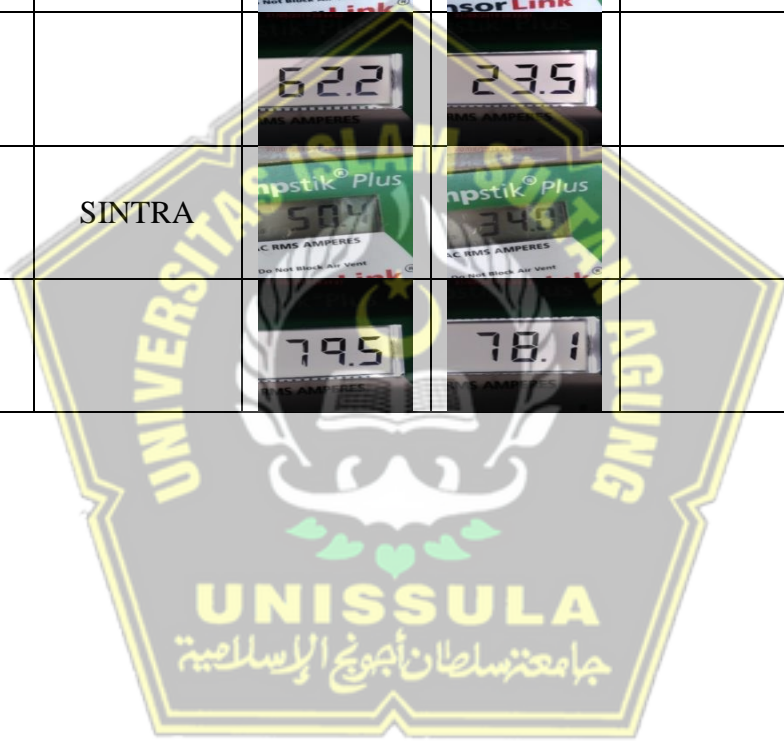
| No | Nama Gardu | Merk | Foto Pengukuran Arus Beban Siang & Malam (Amp) | | | | Beban Riil |
|----|------------|----------|---|--|--------|---|------------|
| | | | TRAFO 1 & 3 PHASA | | | | KVA |
| | | | X1 (R) | X2 (S) | X3 (T) | X4 (N) | |
| 1 | B3-164 | TRAFINDO |  |  | |  | 26.77 |
| | | |  |  | |  | 45,06 |
| 2 | B3-166/2 | EBT |  |  | |  | 10.19 |
| | | |  |  | |  | 17,23 |
| 3 | B3-162 | EBT |  |  | |  | 8.67 |
| | | |  |  | |  | 11,68 |
| 4 | B3-166/4 | SINTRA |  |  | |  | 21.61 |
| | | |  |  | |  | 39,6 |
| 5 | B3-165/13 | SINTRA |  |  | |  | 23.56 |

| | | | | | | | |
|----|-----------|--------|---|--|--|---|-------|
| | | |  |  | |  | 37,27 |
| 6 | B3-165/18 | SINTRA |  |  | |  | 12.69 |
| | | |  |  | |  | 21,05 |
| 7 | B3-165/21 | EBT |  |  | |  | 12.47 |
| | | |  |  | |  | 21,21 |
| 8 | B3-25/4 | EBT |  |  | |  | 2.33 |
| | | |  |  | |  | 3,67 |
| 9 | B3-165/27 | SINTRA |  |  | |  | 19.21 |
| | | |  |  | |  | 30,16 |
| 10 | B3-33/4 | JP |  |  | |  | 11.51 |
| | | |  |  | |  | 21.05 |

| | | | | | | |
|----|-----------|----------|---|--|---|-------|
| 11 | B3-165/36 | BD |  |  |  | 2.62 |
| | | |  |  |  | 2,51 |
| 12 | B3-36/14 | VOLTRA |  |  | | 29.13 |
| | | |  |  |  | 39,53 |
| 13 | B3-165/37 | UNINDO |  |  |  | 15.05 |
| | | |  |  |  | 8,91 |
| 14 | B3-38/3 | TRAFINDO |  |  |  | 21.16 |
| | | |  |  |  | 33,99 |
| 15 | B3-38/5 | TRAFINDO |  |  |  | 19.49 |
| | | |  |  |  | 35,07 |
| 16 | B3-38/8 | TRAFINDO |  |  |  | 13.24 |

| | | | | | | | |
|----|-----------|----------|---|--|---|---|-------|
| | | |  |  | |  | 17,95 |
| 17 | B3-38/11 | SINTRA |  |  | |  | 16,3 |
| | | |  |  | |  | 21,74 |
| 18 | B3-165/39 | STARLITE |  |  |  |  | 18,41 |
| | | |  |  |  |  | 14,21 |
| 19 | B3-40B | EBT |  |  | |  | 12,41 |
| | | |  |  | |  | 22,88 |
| 20 | B3-40C | BD |  |  | |  | 20,17 |
| | | |  |  | |  | 42,11 |
| 21 | B3-40F | SINTRA |  |  | |  | 12,58 |
| | | |  |  | |  | 24,64 |

| | | | | | | | |
|----|-----------|--------|--|---|--|--|-------|
| 22 | B3-40/3 | EBT |  |  | |  | 26.88 |
| | | |  |  | |  | 38,96 |
| 23 | B3-40/4 | SINTRA |  |  | |  | 14.3 |
| | | |  |  | |  | 18,85 |
| 24 | B3-165/41 | SINTRA |  |  | |  | 18.57 |
| | | |  |  | |  | 34,67 |



Surat Validasi Data PT.PLN (Persero) UP 3 Semarang Tengah

Hal : Permohonan validasi data penelitian tugas akhir
Lampiran : 1 lembar

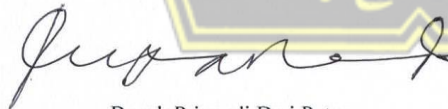
Kepada Yth. Bapak Priyandi Dwi Putera
SPV II Operasi Distribusi PLN UP3 Semarang
Di, Semarang

Sehubungan dengan perizinan publikasi laporan penelitian yang sudah saya buat dengan ini saya :

Nama : Muhammad Khairul Na'im
NIM : 30601501731
Program studi : Teknik Elektro
Judul Tugas Akhir (skripsi) : ANALISIS PENGARUH KETIDAKSEIMBANGAN BEBAN TERHADAP RUGI-RUGI DAYA (LOSSES) PADA PENGHANTAR NETRAL DI JARINGAN DISTRIBUSI GARDU B3-165/1 PENYULANG NOLOKERTO (Menggunakan Software ETAP 12.6.0)

Dengan hormat mohon bapak berkenan memberikan validasi data penelitian Tugas Akhir (skripsi) yang telah saya susun. Demikian permohonan saya, atas bantuan dan perhatian Bapak saya ucapkan terimakasih.

Semarang, 30 Desember 2020
SPV II Operasi Distribusi PLN UP3 Semarang pemohon



Bapak Priyandi Dwi Putera
NIP. 8913385ZY



Muhammad Khairul Na'im
NIM. 30601501731