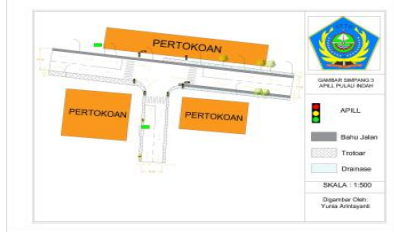


## LAMPIRAN

Lampiran 1 Data hasil inventarisasi simpang pulau

|                                                                                   |                         |                                                                                                                                                                             |             |            |            |                                                                                                                    |  |
|-----------------------------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------|------------|--------------------------------------------------------------------------------------------------------------------|--|
|  |                         | <b>POLITEKNIK TRANSPORTASI DARAT INDONESIA - STTD</b><br><b>TIM PKL KOTA KUPANG</b><br><b>PROGRAM D-III MANAJEMEN TRANSPORTASI JALAN</b><br><b>TAHUN AKADEMIK 2023/2024</b> |             |            |            | <b>DATA HASIL SURVEI INVENTARISASI SIMPANG</b>                                                                     |  |
| <b>Nama Simpang</b>                                                               |                         | <b>Simpang Pulau Indah</b>                                                                                                                                                  |             |            |            | <b>GAMBAR PENAMPANG MELINTANG</b>                                                                                  |  |
| <b>Geometri Simpang</b>                                                           |                         | <b>Simpang 3</b>                                                                                                                                                            |             |            |            |                                 |  |
| 1                                                                                 | Node                    | 507                                                                                                                                                                         |             |            |            |                                                                                                                    |  |
| 2                                                                                 | Tipe Simpang            | 322                                                                                                                                                                         |             |            |            |                                                                                                                    |  |
| 3                                                                                 | Tipe Pengendalian       | Bersinyal                                                                                                                                                                   |             |            |            |                                                                                                                    |  |
| 4                                                                                 | Kondisi APILL           | Befungsi                                                                                                                                                                    |             |            |            |                                                                                                                    |  |
| 5                                                                                 | Phase                   | 3                                                                                                                                                                           |             |            |            |                                                                                                                    |  |
| <b>Arah</b>                                                                       |                         | Utara                                                                                                                                                                       | Selatan     | Timur      | Barat      | <b>VISUALISASI SIMPANG</b><br> |  |
| <b>Ruas Jalan</b>                                                                 |                         | -                                                                                                                                                                           | Pulau Indah | Timor Raya | Timor Raya |                                                                                                                    |  |
| <b>Lebar</b>                                                                      | Efektif Simpang (m)     | -                                                                                                                                                                           | 8           | 11         | 10         |                                                                                                                    |  |
|                                                                                   | Lajur Kanan (m)         | -                                                                                                                                                                           | 4           | 5,5        | 5          |                                                                                                                    |  |
|                                                                                   | Lajur Kiri (m)          | -                                                                                                                                                                           | 4           | 5,5        | 5          |                                                                                                                    |  |
|                                                                                   | Median (m)              | -                                                                                                                                                                           | -           | -          | -          |                                                                                                                    |  |
|                                                                                   | Bahu Kanan (m)          | -                                                                                                                                                                           | -           | 1          | 1          |                                                                                                                    |  |
|                                                                                   | Bahu Kiri (m)           | -                                                                                                                                                                           | -           | 1          | -          |                                                                                                                    |  |
|                                                                                   | Parkir (m)              | -                                                                                                                                                                           | -           | -          | -          |                                                                                                                    |  |
|                                                                                   | Belok Kiri Langsung (m) | -                                                                                                                                                                           | -           | -          | -          |                                                                                                                    |  |
|                                                                                   | Trotoar Kiri (m)        | -                                                                                                                                                                           | 1           | 1          | -          |                                                                                                                    |  |
|                                                                                   | Trotoar Kanan (m)       | -                                                                                                                                                                           | 1           | 1          | 2          |                                                                                                                    |  |
|                                                                                   | Drainase Kiri (m)       | -                                                                                                                                                                           | -           | 1          | -          |                                                                                                                    |  |
|                                                                                   | Drainase Kanan (m)      | -                                                                                                                                                                           | -           | 1          | -          |                                                                                                                    |  |
| <b>Kelengkapan Simpang</b>                                                        | Marka                   | -                                                                                                                                                                           | Ada         | Ada        | Ada        |                                                                                                                    |  |
|                                                                                   | Stop Line               | -                                                                                                                                                                           | Ada         | Ada        | Ada        |                                                                                                                    |  |
|                                                                                   | Rambu Larangan          | -                                                                                                                                                                           | -           | -          | -          |                                                                                                                    |  |
|                                                                                   | Rambu Peringatan        | -                                                                                                                                                                           | Ada         | -          | -          |                                                                                                                    |  |
|                                                                                   | Rambu Perintah          | -                                                                                                                                                                           | -           | -          | -          |                                                                                                                    |  |
|                                                                                   | Rambu Petunjuk          | -                                                                                                                                                                           | Ada         | -          | -          |                                                                                                                    |  |
| Radius Simpang                                                                    |                         | -                                                                                                                                                                           | Ada         | Ada        | -          |                                                                                                                    |  |
| Hambatan Samping                                                                  |                         | Sedang                                                                                                                                                                      |             |            |            |                                                                                                                    |  |
| Tata Guna Lahan                                                                   |                         | Pertokoan                                                                                                                                                                   |             |            |            |                                                                                                                    |  |
| Model Arus (Arah)                                                                 |                         | 2                                                                                                                                                                           |             |            |            |                                                                                                                    |  |
| Jenis Perkerasan                                                                  |                         | Flexibel                                                                                                                                                                    |             |            |            |                                                                                                                    |  |
| Kondisi Simpang                                                                   |                         | Buruk                                                                                                                                                                       |             |            |            |                                                                                                                    |  |
| Pulau Lalu Lintas                                                                 |                         | -                                                                                                                                                                           |             |            |            |                                                                                                                    |  |

Lampiran 2 Formulir SIG I Kondisi Eksisting

| <b>SIMPANG BERSINYAL</b>                                                                                                                                                                                                                                                                                                                                                       | Tanggal : 03 April 2023                          |                                     | Ditangani oleh : TIM PKL KOTA KUPANG 2023 |                                                                                       |                                 |                               |                      |                      |                                                                                       |                      |        |        |        |       |       |       |       |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|-------------------------------|----------------------|----------------------|---------------------------------------------------------------------------------------|----------------------|--------|--------|--------|-------|-------|-------|-------|--|
| FORMULIR SIG-I :                                                                                                                                                                                                                                                                                                                                                               | Kota : Kupang                                    |                                     |                                           |                                                                                       |                                 |                               |                      |                      |                                                                                       |                      |        |        |        |       |       |       |       |  |
| - GEOMETRI                                                                                                                                                                                                                                                                                                                                                                     | Simpang : 3 PULO INDAH                           |                                     |                                           |                                                                                       |                                 |                               |                      |                      |                                                                                       |                      |        |        |        |       |       |       |       |  |
| - PENGATURAN LALULINTAS                                                                                                                                                                                                                                                                                                                                                        | Ukuran Kota/jumlah penduduk (isi dalam jutaan) : |                                     | 441.821,000                               |                                                                                       |                                 |                               |                      |                      |                                                                                       |                      |        |        |        |       |       |       |       |  |
| - LINGKUNGAN                                                                                                                                                                                                                                                                                                                                                                   | Perihal : 3 phase                                |                                     |                                           |                                                                                       |                                 |                               |                      |                      |                                                                                       |                      |        |        |        |       |       |       |       |  |
|                                                                                                                                                                                                                                                                                                                                                                                | Periode : jam puncak                             |                                     |                                           |                                                                                       |                                 |                               |                      |                      |                                                                                       |                      |        |        |        |       |       |       |       |  |
| <b>FASE SINYAL YANG ADA (Gambar sket Fase)</b>                                                                                                                                                                                                                                                                                                                                 |                                                  |                                     |                                           |                                                                                       |                                 |                               |                      |                      |                                                                                       |                      |        |        |        |       |       |       |       |  |
| <table border="1"> <tr> <td>U</td> <td>S</td> <td>T</td> <td>B</td> <td rowspan="2"> Waktu siklus : c<br/><br/>77<br/><br/> Waktu hilang total :<br/> <math>LTl = \sum IG =</math><br/><br/>15 </td> </tr> <tr> <td>g = 0</td> <td>g = 15</td> <td>g = 24</td> <td>g = 23</td> </tr> <tr> <td>IG= 0</td> <td>IG= 5</td> <td>IG= 5</td> <td>IG= 5</td> <td></td> </tr> </table> |                                                  |                                     |                                           |                                                                                       | U                               | S                             | T                    | B                    | Waktu siklus : c<br><br>77<br><br>Waktu hilang total :<br>$LTl = \sum IG =$<br><br>15 | g = 0                | g = 15 | g = 24 | g = 23 | IG= 0 | IG= 5 | IG= 5 | IG= 5 |  |
| U                                                                                                                                                                                                                                                                                                                                                                              | S                                                | T                                   | B                                         | Waktu siklus : c<br><br>77<br><br>Waktu hilang total :<br>$LTl = \sum IG =$<br><br>15 |                                 |                               |                      |                      |                                                                                       |                      |        |        |        |       |       |       |       |  |
| g = 0                                                                                                                                                                                                                                                                                                                                                                          | g = 15                                           | g = 24                              | g = 23                                    |                                                                                       |                                 |                               |                      |                      |                                                                                       |                      |        |        |        |       |       |       |       |  |
| IG= 0                                                                                                                                                                                                                                                                                                                                                                          | IG= 5                                            | IG= 5                               | IG= 5                                     |                                                                                       |                                 |                               |                      |                      |                                                                                       |                      |        |        |        |       |       |       |       |  |
| <b>KONDISI LAPANGAN</b>                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                     |                                           |                                                                                       |                                 |                               |                      |                      |                                                                                       |                      |        |        |        |       |       |       |       |  |
| Kode Pendekat                                                                                                                                                                                                                                                                                                                                                                  | Tipe lingkungan jalan<br>(com/res/ra)            | Hambatan Samping<br>(Tinggi/Rendah) | Median<br>Ya/Tidak                        | kelandaian<br>+/- %                                                                   | Belok kiri langsung<br>Ya/Tidak | Jarak ke kendaraan parkir (m) | Lebar Pendekat ( m ) |                      |                                                                                       |                      |        |        |        |       |       |       |       |  |
|                                                                                                                                                                                                                                                                                                                                                                                |                                                  |                                     |                                           |                                                                                       |                                 |                               | Pendekat<br>$W_A$    | Masuk<br>$W_{ENTRY}$ | Belok kiri lgs.<br>$W_{LTOR}$                                                         | Keluar<br>$W_{EXIT}$ |        |        |        |       |       |       |       |  |
| (1)                                                                                                                                                                                                                                                                                                                                                                            | (2)                                              | (3)                                 | (4)                                       | (5)                                                                                   | (6)                             | (7)                           | (8)                  | (9)                  | (10)                                                                                  | (11)                 |        |        |        |       |       |       |       |  |
| S                                                                                                                                                                                                                                                                                                                                                                              | com                                              | M                                   | T                                         | 0                                                                                     | T                               | 0                             | 8,00                 | 4,00                 | 0,00                                                                                  | 8,00                 |        |        |        |       |       |       |       |  |
| T                                                                                                                                                                                                                                                                                                                                                                              | com                                              | M                                   | T                                         | 0                                                                                     | T                               | 0                             | 10,00                | 5,00                 | 0,00                                                                                  | 10,00                |        |        |        |       |       |       |       |  |
| B                                                                                                                                                                                                                                                                                                                                                                              | com                                              | M                                   | T                                         | 0                                                                                     | T                               | 0                             | 11,00                | 5,50                 | 0,00                                                                                  | 11,00                |        |        |        |       |       |       |       |  |
|                                                                                                                                                                                                                                                                                                                                                                                |                                                  |                                     |                                           |                                                                                       |                                 |                               |                      |                      |                                                                                       |                      |        |        |        |       |       |       |       |  |
|                                                                                                                                                                                                                                                                                                                                                                                |                                                  |                                     |                                           |                                                                                       |                                 |                               |                      |                      |                                                                                       |                      |        |        |        |       |       |       |       |  |

Lampiran 4 Formulir SIG II Kondisi Eksisting

|                          |         |                                        |            |          |                                            |            |          |                                            |            |          |                             |            |          |                |          |                       |             |
|--------------------------|---------|----------------------------------------|------------|----------|--------------------------------------------|------------|----------|--------------------------------------------|------------|----------|-----------------------------|------------|----------|----------------|----------|-----------------------|-------------|
| <b>SIMPANG BERSINYAL</b> |         |                                        |            |          | Tanggal :                                  |            |          |                                            |            |          |                             |            |          |                |          |                       |             |
| <b>Formulir SIG-II</b>   |         |                                        |            |          | Kota : Kupang                              |            |          |                                            |            |          |                             |            |          |                |          |                       |             |
| <b>ARUS LALU LINTAS</b>  |         |                                        |            |          | Simpang : Pulau Indah                      |            |          |                                            |            |          |                             |            |          |                |          |                       |             |
| Kode Pendekat            | Arah    | ARUS KENDARAAN BERMOTOR (MV)           |            |          |                                            |            |          |                                            |            |          |                             |            |          |                |          | KEND.TAK BERMOTOR     |             |
|                          |         | Kendaraan Ringan (LV)                  |            |          | Kendaraan Berat (HV)                       |            |          | Sepeda Motor (MC)                          |            |          | Kendaraan Bermotor Total MV |            |          | Rasio Berbelok |          | Arus UM<br>(Kend/jam) | Rasio UM/MV |
|                          |         | emp terlindung = 1<br>emp terlawan = 1 |            |          | emp terlindung = 1,3<br>emp terlawan = 1,3 |            |          | emp terlindung = 0,2<br>emp terlawan = 0,5 |            |          |                             |            |          |                |          |                       |             |
|                          |         | kend/                                  | smp/jam    |          | kend/                                      | smp/jam    |          | kend/                                      | smp/jam    |          | kend/                       | smp/jam    |          | Terlindung     | Terlawan |                       |             |
|                          |         | jam                                    | terlindung | terlawan | jam                                        | terlindung | terlawan | jam                                        | terlindung | terlawan | jam                         | terlindung | terlawan |                |          |                       |             |
| (1)                      | (2)     | (3)                                    | (4)        | (5)      | (6)                                        | (7)        | (8)      | (9)                                        | (10)       | (11)     | (12)                        | (13)       | (14)     | (15)           | (16)     |                       |             |
| Timur                    | LT/LTOR | 203                                    | 203        | 203      | 22                                         | 29         | 29       | 1.129                                      | 226        | 565      | 1.354                       | 457        | 796      | 0,35           | 0,38     | 0                     | 0,000       |
|                          | ST      | 567                                    | 567        | 567      | 13                                         | 17         | 17       | 1.405                                      | 281        | 703      | 1.985                       | 865        | 1.286    |                |          | 0                     | 0,000       |
|                          | RT      | 0                                      | 0          | 0        | 0                                          | 0          | 0        | 0                                          | 0          | 0        | 0                           | 0          | 0        | 0,00           | 0,00     | 0                     | 0,000       |
|                          | Total   | 770                                    | 770        | 770      | 35                                         | 46         | 46       | 2.534                                      | 507        | 1.267    | 3.339                       | 1.322      | 2.083    | 0,35           | 0,38     | 0                     | 0,000       |
| Barat                    | LT/LTOR | 0                                      | 0          | 0        | 0                                          | 0          | 0        | 0                                          | 0          | 0        | 0                           | 0          | 0        | 0,00           | 0,00     | 0                     | 0,000       |
|                          | ST      | 409                                    | 409        | 409      | 60                                         | 78         | 101      | 1.209                                      | 242        | 605      | 1.678                       | 729        | 1.115    | 0              | 0        | 0                     | 0,000       |
|                          | RT      | 35                                     | 35         | 35       | 9                                          | 12         | 12       | 133                                        | 27         | 67       | 177                         | 73         | 113      | 0,09           | 0,09     | 0                     | 0,000       |
|                          | Total   | 444                                    | 444        | 444      | 69                                         | 90         | 113      | 1.342                                      | 268        | 671      | 1.855                       | 802        | 1.228    | 0,09           | 0,09     | 0                     | 0,000       |
| Timur                    | LT/LTOR | 0                                      | 0          | 0        | 0                                          | 0          | 0        | 0                                          | 0          | 0        | 0                           | 0          | 0        | 0,00           | 0,00     | 0                     | 0,000       |
|                          | ST      | 0                                      | 0          | 0        | 0                                          | 0          | 0        | 0                                          | 0          | 0        | 0                           | 0          | 0        |                |          | 0                     | 0,000       |
|                          | RT      | 0                                      | 0          | 0        | 0                                          | 0          | 0        | 0                                          | 0          | 0        | 0                           | 0          | 0        | 0,00           | 0,00     | 0                     | 0,000       |
|                          | Total   | 0                                      | 0          | 0        | 0                                          | 0          | 0        | 0                                          | 0          | 0        | 0                           | 0          | 0        | 0,00           | 0,00     | 0                     | 0,000       |
| Selatan                  | LT/LTOR | 44                                     | 44         | 44       | 3                                          | 4          | 4        | 135                                        | 27         | 68       | 182                         | 75         | 115      | 0,22           | 0,20     | 0                     | 0,000       |
|                          | ST      | 0                                      | 0          | 0        | 0                                          | 0          | 0        | 0                                          | 0          | 0        | 0                           | 0          | 0        |                |          | 0                     | 0,000       |
|                          | RT      | 99                                     | 99         | 99       | 16                                         | 21         | 21       | 694                                        | 139        | 347      | 809                         | 259        | 467      | 0,78           | 0,80     | 0                     | 0,000       |
|                          | Total   | 143                                    | 143        | 143      | 19                                         | 25         | 25       | 829                                        | 166        | 415      | 991                         | 334        | 582      | 1,00           | 1,00     | 0                     | 0,000       |
| TOTAL                    | LT/LTOR | 247                                    | 247        | 247      | 25                                         | 33         | 33       | 1.264                                      | 253        | 632      | 1.536                       | 532        | 912      | 0,22           | 0,23     | 0                     | 0,000       |
|                          | ST      | 976                                    | 976        | 976      | 73                                         | 95         | 118      | 2.614                                      | 523        | 1.307    | 3.663                       | 1.594      | 2.401    |                |          | 0                     | 0,000       |
|                          | RT      | 134                                    | 134        | 134      | 25                                         | 33         | 33       | 827                                        | 165        | 414      | 986                         | 332        | 580      | 0,14           | 0,15     | 0                     | 0,000       |
|                          | Total   | 1.357                                  | 1.357      | 1.357    | 123                                        | 160        | 183      | 4.705                                      | 941        | 2.353    | 6.185                       | 2.458      | 3.892,8  | 0,35           | 0,38     | 0                     | 0,000       |

Lampiran 5 Formulir SIG IV Kondisi Eksisting

| Kode<br>Pen-<br>dekat             | Hijau<br>dalam<br>fase<br>no. | Tipe<br>Pen-<br>dekat<br>(P / O) | Rasio<br>kendaraan<br>berbelok |                                                    |                 | Arus RT smp/j   |                  | Lebar<br>efektif<br>(m) | Arus jenuh smp/jam Hijau               |                                   |                                        |                                   |                          |                                   |                                  |                                                    | Arus<br>lalu<br>lintas<br>smp/j<br><br>Q | Rasio<br>Arus<br><br>FR = | Rasio<br>fase<br><br>PR = | Waktu<br>hijau<br>det<br><br>g | Kapa-<br>sitas<br>smp/j<br><br>C = | Derajat<br>jenuh<br><br>DS= |
|-----------------------------------|-------------------------------|----------------------------------|--------------------------------|----------------------------------------------------|-----------------|-----------------|------------------|-------------------------|----------------------------------------|-----------------------------------|----------------------------------------|-----------------------------------|--------------------------|-----------------------------------|----------------------------------|----------------------------------------------------|------------------------------------------|---------------------------|---------------------------|--------------------------------|------------------------------------|-----------------------------|
|                                   |                               |                                  |                                |                                                    |                 | Arah<br>dari    | Arah<br>law an   |                         | Nilai<br>dasar<br>smp/j<br>hijau<br>So | Faktor Penyesuaian                |                                        |                                   |                          |                                   |                                  | Nilai<br>dise-<br>suaikan<br>smp/jam<br>hijau<br>S |                                          |                           |                           |                                |                                    |                             |
|                                   |                               |                                  | P <sub>LT</sub>                | P <sub>LTD</sub>                                   | P <sub>RT</sub> | Q <sub>RT</sub> | Q <sub>RTD</sub> | W <sub>E</sub>          |                                        | Semua tipe pendekat               |                                        |                                   | Hanya tipe P             |                                   |                                  |                                                    |                                          |                           |                           |                                |                                    |                             |
|                                   |                               |                                  |                                |                                                    |                 |                 |                  |                         |                                        | Ukuran<br>kota<br>F <sub>CS</sub> | Hambatan<br>Samping<br>F <sub>SF</sub> | kelan-<br>daian<br>F <sub>G</sub> | Parkir<br>F <sub>P</sub> | Belok<br>Kanan<br>F <sub>RT</sub> | Belok<br>Kiri<br>F <sub>LT</sub> |                                                    |                                          |                           |                           |                                |                                    |                             |
| (1)                               | (2)                           | (3)                              | (4)                            | (5)                                                | (6)             | (7)             | (8)              | (9)                     | (10)                                   | (11)                              | (12)                                   | (13)                              | (14)                     | (15)                              | (16)                             | (17)                                               | (18)                                     | Q/S<br>(19)               | IFR<br>(20)               | (21)                           | Sxg/c<br>(22)                      | Q / C<br>(23)               |
|                                   |                               |                                  |                                |                                                    |                 |                 |                  |                         |                                        |                                   |                                        |                                   |                          |                                   |                                  |                                                    |                                          |                           |                           |                                |                                    |                             |
| S                                 | 2                             | P                                | 0,33                           | 0,00                                               | 0,67            | 469,70          | 0,00             | 4,00                    | 3120                                   | 0,83                              | 0,92                                   | 1,0                               | 1,00                     | 1,18                              | 0,95                             | 4084                                               | 490                                      | 0,12                      | 0,19                      | 15                             | 796                                | 0,62                        |
| T                                 | 3                             | P                                | 0,37                           | 0,00                                               | 0,00            | 0,00            | 222,20           | 5,00                    | 3900                                   | 0,83                              | 0,92                                   | 1,0                               | 1,00                     | 1,00                              | 0,94                             | 4308                                               | 1310                                     | 0,30                      | 0,49                      | 24                             | 1343                               | 0,98                        |
| B                                 | 4                             | P                                | 0,00                           | 0,00                                               | 0,16            | 222,20          | 0,00             | 5,50                    | 4290                                   | 0,83                              | 0,92                                   | 1,0                               | 1,00                     | 1,04                              | 1,00                             | 5256                                               | 1030                                     | 0,20                      | 0,32                      | 23                             | 1570                               | 0,66                        |
| Waktu hilang total<br>LTI ( det ) |                               |                                  | 15                             | Waktu siklus pra penyesuaian c <sub>ua</sub> (det) |                 |                 |                  |                         |                                        | 77,0                              |                                        |                                   |                          |                                   |                                  | IFR =                                              |                                          | Total g =                 | 62                        | 0,75                           |                                    |                             |
|                                   |                               |                                  |                                | Waktu siklus disesuaikan c (det)                   |                 |                 |                  |                         |                                        | 77                                |                                        |                                   |                          |                                   |                                  | ΣFR <sub>CRIT</sub>                                |                                          |                           |                           |                                | 0,62                               |                             |

Lampiran 6 Formulir SIG V Kondisi Eksisting

| Kode Pendekat      | Arus Lalu Lintas smp/jam Q | Kapasitas smp / jam C | Derajat Kejenuhan DS= Q/C | Rasio Hijau GR= g/c | Jumlah kendaraan antri (smp) |                 |                                            |                               | Panjang Antrian ( m ) QL                | Angka Henti stop/smp NS | Jumlah Kendaraan Terhenti smp/jam Nsv | Tundaan                                  |                                        |                                     |                             |
|--------------------|----------------------------|-----------------------|---------------------------|---------------------|------------------------------|-----------------|--------------------------------------------|-------------------------------|-----------------------------------------|-------------------------|---------------------------------------|------------------------------------------|----------------------------------------|-------------------------------------|-----------------------------|
|                    |                            |                       |                           |                     | NQ <sub>1</sub>              | NQ <sub>2</sub> | Total NQ= NQ <sub>1</sub> +NQ <sub>2</sub> | NQ <sub>MAX</sub> liat gb e22 |                                         |                         |                                       | Tundaan lalu lintas rata-rata det/smp DT | Tundaan geometrik rata-rata det/smp DG | Tundaan rata-rata det/smp D = DT+DG | Tundaan total smp.det D x Q |
| (1)                | (2)                        | (3)                   | (4)                       | (5)                 | (6)                          | (7)             | (8)                                        | (9)                           | (10)                                    | (11)                    | (12)                                  | (13)                                     | (14)                                   | (15)                                | (16)                        |
|                    |                            |                       |                           |                     |                              |                 |                                            |                               |                                         |                         |                                       |                                          |                                        |                                     |                             |
| S                  | 490                        | 796                   | 0,62                      | 0,19                | 0,3                          | 9,6             | 9,9                                        | 9,9                           | 49                                      | 0,85                    | 416                                   | 29,7                                     | 3,69                                   | 33,4                                | 16361                       |
| T                  | 1310                       | 1343                  | 0,98                      | 0,31                | 11,5                         | 27,7            | 39,2                                       | 39,2                          | 157                                     | 1,26                    | 1651                                  | 57,1                                     | 4,00                                   | 61,1                                | 80044                       |
| B                  | 1030                       | 1570                  | 0,66                      | 0,30                | 0,5                          | 19,2            | 19,7                                       | 19,7                          | 71                                      | 0,80                    | 827                                   | 24,6                                     | 3,21                                   | 27,8                                | 28618                       |
| Arus total. Q tot. |                            | 2829                  | 0,75                      |                     |                              |                 |                                            |                               | 93                                      | Total :                 |                                       | 2894                                     | Total :                                |                                     | 125022                      |
| Arus kor. Q kor.   |                            | 2829                  |                           |                     |                              |                 |                                            |                               | Kendaraan terhenti rata-rata stop/smp : |                         | 1,02                                  | Tundaan simpang rata-rata(det/smp) :     |                                        | 44,19                               |                             |

Lampiran 8 Formulir SIG IV Kondisi usulan I

Formulir SIG-IV

| <b>SIMPANG BERSINYAL</b><br><b>Formulir SIG-IV : PENENTUAN WAKTU SINYAL DAN KAPASITAS</b> |                      |                     |                          |                                       |      |                   |            |                   |                            | Tanggal :<br>Kota : KOTA KUPANG<br>Simpang : SIMPANG PULAU INDAH |                                      |            |                 |                |                                         |         |                              |                     |                        |                       |                                |                       |      |
|-------------------------------------------------------------------------------------------|----------------------|---------------------|--------------------------|---------------------------------------|------|-------------------|------------|-------------------|----------------------------|------------------------------------------------------------------|--------------------------------------|------------|-----------------|----------------|-----------------------------------------|---------|------------------------------|---------------------|------------------------|-----------------------|--------------------------------|-----------------------|------|
| Distribusi arus lalu lintas (smp/jam)                                                     |                      |                     |                          |                                       |      | Fase 1<br>        |            |                   | Fase 2<br>                 |                                                                  |                                      | Fase 3<br> |                 |                | Fase 4                                  |         |                              |                     |                        |                       |                                |                       |      |
| Kode Pendekat                                                                             | Hijau dalam Fase No. | Tipe Pendekat (P/O) | Rasio Kendaraan Berbelok |                                       |      | Arus RT (smp/jam) |            | Lebar Efektif (m) | Arus Jenuh (smp/jam) Hijau |                                                                  |                                      |            |                 |                |                                         |         | Arus Lalu Lintas (smp/jam) Q | Rasio Arus (FR) Q/S | Rasio Fase PR = Frerit | Waktu Hijau (detik) g | Kapasitas (smp/jam) (S.g /c) C | Derajat Kejenuhan Q/C |      |
|                                                                                           |                      |                     |                          |                                       |      | Arah Diri         | Arah Lawan |                   | Faktor-faktor koreksi      |                                                                  |                                      |            |                 |                | Nilai Kapasitas disesuaikan (smp/jam) S |         |                              |                     |                        |                       |                                |                       |      |
|                                                                                           |                      |                     | p LTOR                   | p LT                                  | p RT | Q RT              | Q RTO      | So                | Ukuran Kota Fcs            | Hambatan Samping Fsf                                             | Kelandaian Fg                        | Parkir Fp  | Belok Kanan FRT | Belok Kiri FLT |                                         |         |                              |                     |                        |                       |                                |                       |      |
|                                                                                           |                      |                     | (1)                      | (2)                                   | (3)  | (4)               | (5)        | (6)               | (7)                        | (8)                                                              | (9)                                  | (10)       | (11)            | (12)           | (13)                                    | (14)    | (15)                         | (16)                | (17)                   | (18)                  | (19)                           | (20)                  | (21) |
| T                                                                                         | 1                    | P                   | 0,00                     | 0,38                                  | -    | 0                 | 0,00       | 5,50              | 6.600                      | 0,83                                                             | 0,92                                 | 1,00       | 1,00            | 1,00           | 1,00                                    | 5.039,8 | 1.322                        | 0,26                | 0,51                   | 21                    | 1.886                          | 0,70                  |      |
| B                                                                                         | 3                    | P                   | 0,00                     | 0,00                                  | 0,09 | 113               | 0,09       | 5,00              | 6.000                      | 0,83                                                             | 0,92                                 | 1,00       | 1,00            | 1,00           | 1,00                                    | 4.581,6 | 802                          | 0,18                | 0,34                   | 14                    | 1.144                          | 0,70                  |      |
| S                                                                                         | 2                    | P                   | 0,00                     | 0,22                                  | 0,78 | 467               | 0,80       | 4,00              | 4.800                      | 0,83                                                             | 0,92                                 | 1,00       | 1,00            | 1,20           | 0,96                                    | 4.246,0 | 334                          | 0,08                | 0,15                   | 6                     | 476                            | 0,70                  |      |
|                                                                                           |                      |                     |                          |                                       |      |                   |            |                   |                            |                                                                  |                                      |            |                 |                |                                         |         |                              |                     |                        | 42                    |                                |                       |      |
|                                                                                           |                      |                     |                          |                                       |      |                   |            |                   |                            |                                                                  |                                      |            |                 |                |                                         |         |                              |                     |                        |                       |                                |                       |      |
| Waktu Hilang Total LTI (det)                                                              |                      |                     | 15                       | Waktu siklus pra penyesuaian Co (det) |      |                   |            |                   |                            | 57                                                               | Waktu siklus disesuaikan ( c ) (det) |            |                 |                |                                         |         | 57                           | IFR = E Frerit      | 0,52                   | 0,70                  |                                |                       |      |

Lampiran 9 Formulir SIG V Kondisi usulan I

| <b>SIMPANG BERSINYAL</b><br><b>Formulir SIG-V</b> |                                  |                           |                                   |                               | <b>PANJANG ANTRIAN</b><br><b>JUMLAH KENDARAAN TERHENTI</b><br><b>TUNDAAN</b> |       |                        |        | Tanggal                      |                                   |                                              |                                                |                                              |                                                |                                   |           |
|---------------------------------------------------|----------------------------------|---------------------------|-----------------------------------|-------------------------------|------------------------------------------------------------------------------|-------|------------------------|--------|------------------------------|-----------------------------------|----------------------------------------------|------------------------------------------------|----------------------------------------------|------------------------------------------------|-----------------------------------|-----------|
|                                                   |                                  |                           |                                   |                               |                                                                              |       |                        |        | Kota KOTA KUPANG             |                                   |                                              |                                                |                                              |                                                |                                   |           |
|                                                   |                                  |                           |                                   |                               |                                                                              |       |                        |        | Simpang SIMPANG PULAU INDAH  |                                   |                                              |                                                |                                              |                                                |                                   |           |
|                                                   |                                  |                           |                                   |                               |                                                                              |       |                        |        | Waktu Sim 57                 |                                   |                                              |                                                |                                              |                                                |                                   |           |
| Kode Pendekat                                     | Arus Lalu Lintas<br>smp/jam<br>Q | Kapasitas<br>smp/jam<br>C | Derajat Kejuhar<br>DS<br>=<br>Q/C | Rasio hijau<br>GR<br>=<br>g/c | Jumlah kendaraan antri (smp)                                                 |       |                        |        | Panjang Antrian<br>QL<br>(m) | Rasio Kendaraan<br>NS<br>stop/smp | Jumlah Kendaraan Terhenti<br>N SV<br>smp/jam | Tundaan                                        |                                              |                                                |                                   |           |
|                                                   |                                  |                           |                                   |                               | NQ1                                                                          | NQ2   | Total<br>NQ1+NQ2<br>NQ | NQ max |                              |                                   |                                              | Tundaan lalu lintas rata-rata<br>DT<br>det/smp | Tundaan geometrik rata-rata<br>DG<br>det/smp | Tundaan rata-rata<br>D =<br>DT + DG<br>det/smp | Tundaan Total<br>D x Q<br>smp.det |           |
| (1)                                               | (2)                              | (3)                       | (4)                               | (5)                           | (6)                                                                          | (7)   | (8)                    | (9)    | (10)                         | (11)                              | (12)                                         | (13)                                           | (14)                                         | (15)                                           | (16)                              |           |
| T                                                 | 1.322                            | 1.886                     | 0,70                              | 0,37                          | 0,67                                                                         | 17,70 | 18,38                  | 18,38  | 66,82                        | 0,79                              | 1048                                         | 16,36                                          | 3,25                                         | 19,61                                          | 25.931,24                         |           |
| B                                                 | 802                              | 1.144                     | 0,70                              | 0,25                          | 0,67                                                                         | 11,51 | 12,18                  | 12,18  | 48,73                        | 0,87                              | 695                                          | 21,49                                          | 3,54                                         | 25,03                                          | 20.078,36                         |           |
| S                                                 | 334                              | 476                       | 0,70                              | 0,11                          | 0,67                                                                         | 5,07  | 5,74                   | 5,74   | 28,69                        | 0,98                              | 327                                          | 29,35                                          | 4,02                                         | 33,37                                          | 11.128,48                         |           |
|                                                   |                                  |                           |                                   |                               |                                                                              |       |                        |        |                              |                                   |                                              |                                                |                                              |                                                |                                   |           |
|                                                   |                                  |                           |                                   |                               |                                                                              |       |                        |        |                              |                                   |                                              |                                                |                                              |                                                |                                   |           |
|                                                   |                                  |                           |                                   |                               |                                                                              |       |                        |        |                              |                                   |                                              |                                                |                                              |                                                |                                   |           |
| LTOR (semua)                                      | -                                |                           |                                   |                               |                                                                              |       |                        |        |                              |                                   |                                              | 0,0                                            | 6,0                                          | 6,0                                            | -                                 |           |
| Total                                             |                                  |                           |                                   |                               |                                                                              |       |                        |        |                              |                                   | 2.070                                        | Total                                          |                                              |                                                |                                   | 46.009,61 |
| Arus total Qtot 2.124                             |                                  |                           |                                   |                               |                                                                              |       |                        |        |                              |                                   | Kendaraan terhenti rata-rata stop/smp 0,97   | Tundaan simpang rata-rata (det/smp)            |                                              |                                                |                                   | 21,66     |

Lampiran 10 Formulir SIG IV Kondisi usulan II

Formulir SIG-IV

| <b>SIMPANG BERSINYAL</b><br><b>Formulir SIG-IV : PENENTUAN WAKTU SINYAL DAN KAPASITAS</b> |                      |                     |                          |      |      |                                       |            |                   | Tanggal :<br>Kota : KOTA KUPANG<br>Simpang : SIMPANG PULAU INDAH |                                  |                           |                       |                 |                                    |                                         |         |                            |                 |                                    |                     |                              |                            |      |      |      |
|-------------------------------------------------------------------------------------------|----------------------|---------------------|--------------------------|------|------|---------------------------------------|------------|-------------------|------------------------------------------------------------------|----------------------------------|---------------------------|-----------------------|-----------------|------------------------------------|-----------------------------------------|---------|----------------------------|-----------------|------------------------------------|---------------------|------------------------------|----------------------------|------|------|------|
| Distribusi arus lalu lintas (smp/jam)                                                     |                      |                     | Fase 1<br>               |      |      |                                       |            |                   | Fase 2<br>                                                       |                                  |                           |                       |                 |                                    | Fase 3                                  |         |                            | Fase 4          |                                    |                     |                              |                            |      |      |      |
| Kode Pendekat                                                                             | Hijau dalam Fase No. | Tipe Pendekat (P/O) | Rasio Kendaraan Berbelok |      |      | Arus RT (smp/jam)                     |            | Lebar Efektif (m) | Arus Jenuh (smp/jam) Hijau                                       |                                  |                           |                       |                 |                                    |                                         |         | Arus Lalu Lintas (smp/jam) | Rasio Arus (FR) | Rasio Fase PR = Fr <sub>crit</sub> | Waktu Hijau (detik) | Kapasitas (smp/jam) (S.g /c) | Derajat Kejenuhan          |      |      |      |
|                                                                                           |                      |                     |                          |      |      | Arah Diri                             | Arah Lawan |                   | Faktor-faktor koreksi                                            |                                  |                           |                       |                 |                                    | Nilai Kapasitas disesuaikan (smp/jam) S |         |                            |                 |                                    |                     |                              |                            |      |      |      |
|                                                                                           |                      |                     | p LTOR                   | p LT | p RT | Q RT                                  | Q RTO      | So                | Ukuran Kota F <sub>cs</sub>                                      | Hambatan Samping F <sub>sf</sub> | Kelandaian F <sub>g</sub> | Parkir F <sub>p</sub> | Belok Kanan FRT | Belok Kiri FLT                     |                                         |         |                            |                 |                                    |                     |                              |                            |      |      |      |
|                                                                                           |                      |                     | (1)                      | (2)  | (3)  | (4)                                   | (5)        | (6)               | (7)                                                              | (8)                              | (9)                       | (10)                  | (11)            | (12)                               | (13)                                    | (14)    | (15)                       | (16)            | (17)                               | (18)                | (19)                         | (20)                       | (21) | (22) | (23) |
| T                                                                                         | 1                    | O                   | 0,00                     | 0,38 | -    | 0                                     | 0,00       | 5,50              | 6.600                                                            | 0,83                             | 0,92                      | 1,00                  | 1,00            | 1,00                               | 1,00                                    | 5.039,8 | 2.083                      | 0,41            | 0,82                               | 25                  | 3.106                        | 0,67                       |      |      |      |
| B                                                                                         | 1                    | O                   | 0,00                     | 0,00 | 0,09 | 113                                   | 0,09       | 5,00              | 6.000                                                            | 0,83                             | 0,92                      | 1,00                  | 1,00            | 1,00                               | 1,00                                    | 4.581,6 | 1.228                      | 0,27            | 0,53                               | 25                  | 2.824                        | 0,43                       |      |      |      |
| S                                                                                         | 2                    | P                   | 0,00                     | 0,20 | 0,80 | 467                                   | 0,80       | 4,00              | 4.800                                                            | 0,83                             | 0,92                      | 1,00                  | 1,00            | 1,00                               | 1,00                                    | 3.665,3 | 334                        | 0,09            | 0,18                               | 5                   | 497                          | 0,67                       |      |      |      |
|                                                                                           |                      |                     |                          |      |      |                                       |            |                   |                                                                  |                                  |                           |                       |                 |                                    |                                         |         |                            |                 |                                    |                     |                              |                            |      |      |      |
|                                                                                           |                      |                     |                          |      |      |                                       |            |                   |                                                                  |                                  |                           |                       |                 |                                    |                                         |         |                            |                 |                                    |                     |                              |                            |      |      |      |
| Waktu Hilang Total LT LTI (det)                                                           |                      |                     | 10                       |      |      | Waktu siklus pra penyesuaian Co (det) |            |                   |                                                                  | 40                               |                           |                       |                 | Waktu siklus disesuaikan (c) (det) |                                         |         |                            | 40              |                                    |                     |                              | IFR = E Fr <sub>crit</sub> |      | 0,59 |      |

Lampiran 11 Formulir SIG V Kondisi usulan II

| <b>SIMPANG BERSINYAL</b>         |                            |                     |                          |                      |                              |       |               |        | Tanggal                     |                             |                                            |                                          |                                        |                                       |                             |           |
|----------------------------------|----------------------------|---------------------|--------------------------|----------------------|------------------------------|-------|---------------|--------|-----------------------------|-----------------------------|--------------------------------------------|------------------------------------------|----------------------------------------|---------------------------------------|-----------------------------|-----------|
| <b>Formulir SIG-V</b>            |                            |                     |                          |                      |                              |       |               |        | Kota KOTA KUPANG            |                             |                                            |                                          |                                        |                                       |                             |           |
| <b>PANJANG ANTRIAN</b>           |                            |                     |                          |                      |                              |       |               |        | Simpang SIMPANG PULAU INDAH |                             |                                            |                                          |                                        |                                       |                             |           |
| <b>JUMLAH KENDARAAN TERHENTI</b> |                            |                     |                          |                      |                              |       |               |        | Waktu Si 40                 |                             |                                            |                                          |                                        |                                       |                             |           |
| <b>TUNDAAN</b>                   |                            |                     |                          |                      |                              |       |               |        |                             |                             |                                            |                                          |                                        |                                       |                             |           |
| Kode Pendekat                    | Arus Lalu Lintas smp/jam Q | Kapasitas smp/jam C | Derajat Kejuhan DS = Q/C | Rasio hijau GR = g/c | Jumlah kendaraan antri (smp) |       |               |        | Panjang Antrian QL (m)      | Rasio Kendaraan NS stop/smp | Jumlah Kendaraan Terhenti N SV smp/jam     | Tundaan                                  |                                        |                                       |                             |           |
|                                  |                            |                     |                          |                      | NQ1                          | NQ2   | Total NQ1+NQ2 | NQ max |                             |                             |                                            | Tundaan lalu lintas rata-rata DT det/smp | Tundaan geometrik rata-rata DG det/smp | Tundaan rata-rata D = DT + DG det/smp | Tundaan Total D x Q smp.det |           |
| (1)                              | (2)                        | (3)                 | (4)                      | (5)                  | (6)                          | (7)   | (8)           | (9)    | (10)                        | (11)                        | (12)                                       | (13)                                     | (14)                                   | (15)                                  | (16)                        |           |
| T                                | 2.083                      | 3.106               | 0,67                     | 0,62                 | 0,52                         | 15,26 | 15,77         | 15,77  | 57,35                       | 0,61                        | 1267                                       | 5,66                                     | 2,58                                   | 8,24                                  | 17.159,87                   |           |
| B                                | 1.228                      | 2.824               | 0,43                     | 0,62                 | 0,00                         | 7,21  | 7,21          | 7,21   | 28,85                       | 0,47                        | 579                                        | 4,06                                     | 2,18                                   | 6,23                                  | 7.656,34                    |           |
| S                                | 334                        | 497                 | 0,67                     | 0,14                 | 0,51                         | 3,55  | 4,07          | 4,07   | 20,33                       | 0,98                        | 327                                        | 20,29                                    | 4,02                                   | 24,31                                 | 8.108,25                    |           |
|                                  |                            |                     |                          |                      |                              |       |               |        |                             |                             |                                            |                                          |                                        |                                       |                             |           |
|                                  |                            |                     |                          |                      |                              |       |               |        |                             |                             |                                            |                                          |                                        |                                       |                             |           |
|                                  |                            |                     |                          |                      |                              |       |               |        |                             |                             |                                            |                                          |                                        |                                       |                             |           |
| LTOR (semua)                     | -                          |                     |                          |                      |                              |       |               |        |                             |                             |                                            | 0,0                                      | 6,0                                    | 6,0                                   | -                           |           |
| Total                            |                            |                     |                          |                      |                              |       |               |        |                             |                             | 2.173                                      | Total                                    |                                        |                                       |                             | 32.924,47 |
| Arus total Qtot 3.644            |                            |                     |                          |                      |                              |       |               |        |                             |                             | Kendaraan terhenti rata-rata stop/smp 0,60 | Tundaan simpang rata-rata (det/smp)      |                                        |                                       |                             | 9,04      |



Lampiran 12 Formulir SIG IV Kondisi usulan III

Formulir SIG-IV

| <b>SIMPANG BERSINYAL</b><br><b>Formulir SIG-IV : PENENTUAN WAKTU SINYAL DAN KAPASITAS</b> |                      |                     |                          |                                       |      |                   |            |                   |                            | Tanggal :<br>Kota : KOTA KUPANG<br>Simpang : SIMPANG PULAU INDAH |                                      |              |        |             |                                       |         |                            |                            |                                    |                     |                              |                   |     |        |  |  |  |  |  |  |
|-------------------------------------------------------------------------------------------|----------------------|---------------------|--------------------------|---------------------------------------|------|-------------------|------------|-------------------|----------------------------|------------------------------------------------------------------|--------------------------------------|--------------|--------|-------------|---------------------------------------|---------|----------------------------|----------------------------|------------------------------------|---------------------|------------------------------|-------------------|-----|--------|--|--|--|--|--|--|
| Ditribusi arus lalu lintas (smp/jam)                                                      |                      |                     | Fase 1<br>               |                                       |      |                   |            |                   |                            | Fase 2<br>                                                       |                                      |              |        |             |                                       |         | Fase 3                     |                            |                                    |                     |                              |                   |     | Fase 4 |  |  |  |  |  |  |
| Kode Pendekat                                                                             | Hijau dalam Fase No. | Tipe Pendekat (P/O) | Rasio Kendaraan Berbelok |                                       |      | Arus RT (smp/jam) |            | Lebar Efektif (m) | Arus Jenuh (smp/jam) Hijau |                                                                  |                                      |              |        |             |                                       |         | Arus Lalu Lintas (smp/jam) | Rasio Arus (FR)            | Rasio Fase PR = Fr <sub>crit</sub> | Waktu Hijau (detik) | Kapasitas (smp/jam) (S.g /c) | Derajat Kejenuhan |     |        |  |  |  |  |  |  |
|                                                                                           |                      |                     |                          |                                       |      | Arah Diri         | Arah Lawan |                   | Faktor-faktor koreksi      |                                                                  |                                      |              |        |             | Nilai Kapasitas disesuaikan (smp/jam) |         |                            |                            |                                    |                     |                              |                   |     |        |  |  |  |  |  |  |
|                                                                                           |                      |                     | p LTOR                   | p LT                                  | p RT | Q RT              | Q RTO      | So                | Semua Tipe pendekat        |                                                                  |                                      | Hanya tipe P |        |             |                                       | S       |                            |                            |                                    |                     |                              |                   |     |        |  |  |  |  |  |  |
|                                                                                           |                      |                     |                          |                                       |      |                   |            |                   |                            | Ukuran Kota                                                      | Hambatan Sampling                    | Kelangan     | Parkir | Belok Kanan | Belok Kiri                            | FRT     |                            |                            |                                    |                     |                              |                   | FLT |        |  |  |  |  |  |  |
| (1)                                                                                       | (2)                  | (3)                 | (4)                      | (5)                                   | (6)  | (7)               | (8)        | (9)               | (10)                       | (11)                                                             | (12)                                 | (13)         | (14)   | (15)        | (16)                                  | (17)    | (18)                       | (19)                       | (20)                               | (21)                | (22)                         | (23)              |     |        |  |  |  |  |  |  |
| T                                                                                         | 1                    | O                   | 1,00                     | 0,38                                  | -    | 0                 | 0,00       | 6,00              | 6.600                      | 0,83                                                             | 0,92                                 | 1,00         | 1,00   | 1,00        | 1,00                                  | 5.039,8 | 1.286                      | 0,26                       | 0,74                               | 15                  | 2.493                        | 0,52              |     |        |  |  |  |  |  |  |
| B                                                                                         | 1                    | O                   | 0,00                     | 0,00                                  | 0,09 | 113               | 0,09       | 6,00              | 7.200                      | 0,83                                                             | 0,92                                 | 1,00         | 1,00   | 1,00        | 1,00                                  | 5.497,9 | 1.228                      | 0,22                       | 0,65                               | 15                  | 2.720                        | 0,45              |     |        |  |  |  |  |  |  |
| S                                                                                         | 2                    | P                   | 0,00                     | 0,20                                  | 0,80 | 467               | 0,80       | 4,00              | 4.800                      | 0,83                                                             | 0,92                                 | 1,00         | 1,00   | 1,00        | 1,00                                  | 3.665,3 | 334                        | 0,09                       | 0,26                               | 5                   | 646                          | 0,52              |     |        |  |  |  |  |  |  |
|                                                                                           |                      |                     |                          |                                       |      |                   |            |                   |                            |                                                                  |                                      |              |        |             |                                       |         |                            |                            |                                    |                     |                              |                   |     |        |  |  |  |  |  |  |
|                                                                                           |                      |                     |                          |                                       |      |                   |            |                   |                            |                                                                  |                                      |              |        |             |                                       |         |                            |                            |                                    |                     |                              |                   |     |        |  |  |  |  |  |  |
|                                                                                           |                      |                     |                          |                                       |      |                   |            |                   |                            |                                                                  |                                      |              |        |             |                                       |         |                            |                            |                                    |                     |                              |                   |     |        |  |  |  |  |  |  |
| Waktu Hilang Total LT LTI (det)                                                           |                      |                     | 10                       | Waktu siklus pra penyesuaian Co (det) |      |                   |            |                   |                            | 31                                                               | Waktu siklus disesuaikan ( c ) (det) |              |        |             |                                       |         | 31                         | IFR = E Fr <sub>crit</sub> | 0,35                               | 0,49                |                              |                   |     |        |  |  |  |  |  |  |

Lampiran 13 Formulir SIG V Kondisi usulan III

| <b>SIMPANG BERSINYAL</b>         |                               |                        |                             |                      |                              |      |                     |        | Tanggal                     |                             |                                            |                                          |                                        |                                       |                             |           |
|----------------------------------|-------------------------------|------------------------|-----------------------------|----------------------|------------------------------|------|---------------------|--------|-----------------------------|-----------------------------|--------------------------------------------|------------------------------------------|----------------------------------------|---------------------------------------|-----------------------------|-----------|
| <b>Formulir SIG-V</b>            |                               |                        |                             |                      |                              |      |                     |        | Kota KOTA KUPANG            |                             |                                            |                                          |                                        |                                       |                             |           |
| <b>PANJANG ANTRIAN</b>           |                               |                        |                             |                      |                              |      |                     |        | Simpang SIMPANG PULAU INDAH |                             |                                            |                                          |                                        |                                       |                             |           |
| <b>JUMLAH KENDARAAN TERHENTI</b> |                               |                        |                             |                      |                              |      |                     |        | Waktu Si 31                 |                             |                                            |                                          |                                        |                                       |                             |           |
| <b>TUNDAAN</b>                   |                               |                        |                             |                      |                              |      |                     |        |                             |                             |                                            |                                          |                                        |                                       |                             |           |
| Kode Pendekat                    | Arus Lalu Lintas smp/jam<br>Q | Kapasitas smp/jam<br>C | Derajat Kejenhuran DS = Q/C | Rasio hijau GR = g/c | Jumlah kendaraan antri (smp) |      |                     |        | Panjang Antrian QL (m)      | Rasio Kendaraan NS stop/smp | Jumlah Kendaraan Terhenti N SV smp/jam     | Tundaan                                  |                                        |                                       |                             |           |
|                                  |                               |                        |                             |                      | NQ1                          | NQ2  | Total NQ1+NQ2<br>NQ | NQ max |                             |                             |                                            | Tundaan lalu lintas rata-rata DT det/smp | Tundaan geometrik rata-rata DG det/smp | Tundaan rata-rata D = DT + DG det/smp | Tundaan Total D x Q smp.det |           |
| (1)                              | (2)                           | (3)                    | (4)                         | (5)                  | (6)                          | (7)  | (8)                 | (9)    | (10)                        | (11)                        | (12)                                       | (13)                                     | (14)                                   | (15)                                  | (16)                        |           |
| T                                | 1.286                         | 2.493                  | 0,52                        | 0,49                 | 0,03                         | 7,44 | 7,47                | 7,47   | 24,90                       | 0,61                        | 789                                        | 5,31                                     | 2,60                                   | 7,91                                  | 10.171,34                   |           |
| B                                | 1.228                         | 2.720                  | 0,45                        | 0,49                 | 0,00                         | 6,81 | 6,81                | 6,81   | 22,70                       | 0,59                        | 719                                        | 5,04                                     | 2,57                                   | 7,61                                  | 9.350,65                    |           |
| S                                | 334                           | 646                    | 0,52                        | 0,18                 | 0,03                         | 2,58 | 2,61                | 2,61   | 13,04                       | 0,83                        | 275                                        | 11,63                                    | 4,18                                   | 15,81                                 | 5.271,88                    |           |
|                                  |                               |                        |                             |                      |                              |      |                     |        |                             |                             |                                            |                                          |                                        |                                       |                             |           |
|                                  |                               |                        |                             |                      |                              |      |                     |        |                             |                             |                                            |                                          |                                        |                                       |                             |           |
|                                  |                               |                        |                             |                      |                              |      |                     |        |                             |                             |                                            |                                          |                                        |                                       |                             |           |
| LTOR (semua)                     | 457                           |                        |                             |                      |                              |      |                     |        |                             |                             |                                            | 0,0                                      | 6,0                                    | 6,0                                   | 2.744,40                    |           |
| Total                            |                               |                        |                             |                      |                              |      |                     |        |                             |                             | 1.783                                      | Total                                    |                                        |                                       |                             | 24.793,87 |
| Arus total Qtot 2.848            |                               |                        |                             |                      |                              |      |                     |        |                             |                             | Kendaraan terhenti rata-rata stop/smp 0,63 | Tundaan simpang rata-rata (det/smp)      |                                        |                                       |                             | 8,71      |

Lampiran 14 Kartu Asistensi



PTDI-STTD

KARTU ASISTENSI

PROGRAM STUDI DIPLOMA III  
MANAJEMEN TRANSPORTASI JALAN  
TAHUN AKADEMIK 2022/2023

NAMA : YUNIA ARINTAYANTI

NOTAR : 20.02.371

DOSEN : 1. YUANDA PATRIA TAMA, M.T.  
2. WIDORISNOMO, M.T.

JUDUL KKW: EVALUASI KINERJA SIMPANG TIGA BERSINYAL PULAU INDAH  
DI KOTA KUPANG

| NO | TGL      | KETERANGAN                                                                                                        | PARAF | NO       | TGL                                     | KETERANGAN | PARAF |
|----|----------|-------------------------------------------------------------------------------------------------------------------|-------|----------|-----------------------------------------|------------|-------|
| 1  | 24/12/23 | Revisi pada bagian identifikasi masalah, rumusan masalah, perubahan pada bagian kajian pustaka dan makro → mikro. |       | 26/07/23 | Usulan perubahan fase menjadi 3,5 fase. |            |       |
| 2  | 1/08/23  | Bab V<br>- Jalur Belok Kanan terpicat<br>- Perubahan fase 3 → 2 fase                                              |       | 1/08/23  | Bimbingan Bab II - bab III              |            |       |
| 3  | 7/08/23  | Bimbingan bab V                                                                                                   |       | 7/08/23  | Bimbingan bab IV - bab V                |            |       |

| NO | TGL   | KETERANGAN       | PARAF                                                                             | NO | TGL   | KETERANGAN       | PARAF                                                                               |
|----|-------|------------------|-----------------------------------------------------------------------------------|----|-------|------------------|-------------------------------------------------------------------------------------|
|    | 17/08 | Bimbingan bab VI |  |    | 14/08 | Bimbingan bab VI |  |
|    |       |                  |                                                                                   |    | 15/08 | Bimbingan PPT    |  |
|    |       |                  |                                                                                   |    | 16/08 | Bimbingan PPT    |  |
|    |       |                  |                                                                                   |    |       |                  |                                                                                     |
|    |       |                  |                                                                                   |    |       |                  |                                                                                     |
|    |       |                  |                                                                                   |    |       |                  |                                                                                     |