



**ANALISIS KINERJA SIMPANG ANTARA JALAN NASIONAL,  
JALAN PROVINSI DAN JALAN KABUPATEN DI KABUPATEN  
LUMAJANG MENGGUNAKAN PTV VISTRO**

**SKRIPSI**

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**JURUSAN TEKNIK SIPIL  
FAKULTAS TEKNIK  
UNIVERSITAS JEMBER  
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diajukan guna melengkapi tugas akhir dan memenuhi salah satu syarat  
untuk menyelesaikan Program Studi Strata 1 Teknik Sipil  
dan mencapai gelar Sarjana Teknik

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2016**

## PERSEMBAHAN

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9. Almamater Jurusan Teknik Sipil Fakultas Teknik Universitas Jember.

## MOTTO

Bismillahirrahmanirrahim (Dengan Menyebut Nama Allah yang Maha Pengasih Lagi  
Maha Penyayang)

Banyak orang yang datang dan pergi dalam hidupmu, beberapa mungkin membuat  
terluka tapi semuanya membuat lebih dewasa

Ayo segera bangun mimpimu atau orang lain akan mempekerjakan kamu untuk  
membangun mereka (Farrah Gray)

Bermimpilah seolah-olah hidup selamanya. Hiduplah seakan-akan inilah hari terakhir  
(James Dean)

## **PERNYATAAN**

Saya yang bertanda tangan dibawah ini:

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menyatakan dengan sesungguhnya bahwa karya ilmiah yang berjudul "Analisis Kinerja Simpang Antara Jalan Nasional, Jalan Provinsi Dan Jalan Kabupaten Di Kabupaten Lumajang Menggunakan PTV Vistro" adalah hasil karya sendiri, kecuali kutipan yang sudah saya sebutkan sumbernya, belum pernah diajukan pada institusi mana pun, dan bukan karya jiplakan. Saya bertanggung jawab penuh atas keabsahan dan kebenaran isinya sesuai dengan sikap ilmiah yang harus dijunjung tinggi.

Demikian pernyataan ini saya buat dengan sebenarnya, tanpa adanya tekanan dan paksaan dari pihak manapun serta bersedia mendapat sanksi akademik jika ternyata di kemudian hari pernyataan ini tidak benar.

Jember, 27 Mei 2016

Yang menyatakan,

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**SKRIPSI**

**ANALISIS KINERJA SIMPANG ANTARA JALAN NASIONAL,  
JALAN PROVINSI DAN JALAN KABUPATEN DI KABUPATEN  
LUMAJANG MENGGUNAKAN PTV VISTRO**

Oleh

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NIM 121910301099

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## RINGKASAN

**Analisis Kinerja Simpang Antara Jalan Nasional, Jalan Provinsi Dan Jalan Kabupaten Di Jabupaten Lumajang Menggunakan PTV Vistro;** Muhammad Yasthofi, 121910301099; 2016: 94 halaman; Jurusan Teknik Sipil Fakultas Teknik Universitas Jember.

Kabupaten Lumajang menjadi akses transportasi antara Kabupaten Probolinggo, Kabupaten Malang dan Kabupaten Jember, sehingga perlu penataan sistem transportasi yang baik pada simpang-simpang utama di Kabupaten Lumajang. Analisis kinerja simpang dilakukan pada 5 dan 10 tahun mendatang untuk mengetahui tingkat pelayanan jalan pada masa mendatang, sehingga dapat dijadikan acuan dalam perencanaan jaringan jalan untuk masa mendatang di Kabupaten Lumajang.

Analisis menggunakan *software* PTV Vistro bertujuan untuk meningkatkan keakuratan perhitungan dan meminimalisir terjadinya *human error* saat perhitungan. Pada penelitian ini juga dilakukan manajemen lalu lintas menggunakan optimasi waktu fase simpang. Manajemen lalu lintas yang digunakan adalah metode *v/c balancing*. Optimasi fase dilakukan untuk mendapatkan kinerja simpang yang memiliki nilai derajat kejenuhan yang seimbang di setiap lengan simpangnya.

Hasil analisis kinerja simpang tahun 2016 dan 2021 dengan optimasi waktu fase simpang menggunakan metode *v/c balancing* menunjukkan bahwa semua simpang memiliki nilai derajat kejenuhan kurang dari 1 dan memiliki nilai derajat kejenuhan yang seimbang disetiap lengan simpang. Hasil analisis kinerja tahun 2026 menunjukkan bahwa simpang Wonorejo, JLT Tukum, Yosowilangun dan Tempeh memiliki nilai derajat kejenuhan lebih dari 1, sehingga perlu dilakukan manajemen/rekayasa lalu lintas selain optimasi waktu fase.

## SUMMARY

**Analysis of Intersection Performance Between National, Province And Local Road of Lumajang Using PTV Vistro;** Muhammad Yasthofi, 121910301099; 2016: 94 pages; Department of Civil Engineering Faculty of Engineering, University of Jember.

Lumajang becomes the transportation access between Probolinggo, Malang and Jember, so it needs a good regulation of the transport system in its main intersection. Analysis of the performance of intersections performed at 5 and 10 years to determine the level of service in the future, so it can be used as a reference in planning for the future road network in Lumajang.

Intersection analysis using PTV Vistro software aims to improve calculation accuracy and minimize human error when counting. This study also carried out the management of traffic using the intersection time optimization phase. Traffic management that is used is v/c balancing method. Optimization phase intersection is done to get the performance that has the degree of saturation are balanced in each leg intersection.

The results of the intersection analysis performance in 2016 and 2021 at a phase time optimization of the intersection using v/c balancing shows that all intersections have the degree of saturation of less than 1 and their degree of saturation are balanced in each leg of the intersection. The results of the analysis of performance out in 2026 shows that the intersection Wonorejo, JLT Tukum, Yosowilangun and Tempeh has the degree of saturation of more than 1, so we need a management / traffic engineering besides phase time optimization.

## **PRAKATA**

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- B. Data Survei Volume Lalu Lintas
- C. Contoh Report PTV Vistro

## BAB.1 PENDAHULUAN

### 1.1 Latar Belakang

Secara geografis, wilayah Kabupaten Lumajang berada di bagian Timur-Selatan wilayah Provinsi Jawa Timur, tepatnya pada koordinat  $112^{\circ}53' - 113^{\circ}23'$  Bujur Timur dan  $7^{\circ}54' - 8^{\circ}23'00''$  Lintang Selatan. Untuk luas wilayahnya adalah  $1790 \text{ km}^2$  atau 3,74% luas Provinsi Jawa Timur. Kabupaten Lumajang merupakan kabupaten yang menghubungkan antara Kabupaten Probolinggo, Kabupaten Malang dan Kabupaten Jember, sehingga perlu adanya penataan sistem transportasi yang baik khususnya pada simpang-simpang utama di Kabupaten Lumajang agar tercipta kondisi lalu lintas yang tertib, aman dan tertata serta dapat terintegrasi dengan baik dengan pembangunan segala aspek Kabupaten Lumajang.

Berdasarkan data induk jaringan jalan tahun 2015 yang didapatkan dari data Dinas Perhubungan Lumajang, jalan di Kabupaten Lumajang terbagi menjadi jalan nasional, jalan provinsi, jalan kabupaten, jalan kecamatan dan jalan desa. Kondisi dari jalan-jalan tersebut adalah 76,86% kondisi baik, 8,44% kondisi sedang, 6,63% kondisi rusak dan 8,26% rusak berat.

Menurut Data Sajian Lalu Lintas dan Angkutan Jalan Kabupaten Lumajang Tahun 2015, tercatat volume simpang utama di Kabupaten Lumajang. Hasil perhitungan kinerja pada jam puncak pagi menunjukkan kondisi eksisting tahun 2015 tingkat pelayanan jalan simpang Randuagung masuk LOS D dengan tundaan rata-rata 34,12 det/smp, tingkat pelayanan jalan simpang Kedungjajang masuk LOS C dengan tundaan rata-rata 34,31 det/smp, tingkat pelayanan jalan simpang Wonorejo masuk LOS C dengan tundaan rata-rata 31,08 det/smp, tingkat pelayanan jalan simpang Wonorejo Alternatif masuk LOS C dengan tundaan rata-rata 32,78 det/smp, tingkat pelayanan jalan simpang JLT (Jalan Lingkar Timur) Yeye masuk LOS D dengan tundaan rata-rata 43,39 det/smp, tingkat pelayanan jalan simpang JLT (Jalan Lingkar Timur) Tukum masuk LOS E dengan tundaan rata-rata 70,52 det/smp, tingkat pelayanan jalan simpang Yosowilangun masuk LOS E dengan tundaan rata-rata 74,14

det/smp dan tingkat pelayanan jalan simpang Tempeh masuk LOS E dengan tundaan rata-rata 68,30 det/smp. Dari hasil perhitungan kinerja tersebut , akan dilakukan perhitungan kinerja simpang untuk 5 dan 10 tahun mendatang untuk mengetahui tingkat pelayanan jalan pada masa mendatang. Sehingga hasilnya bisa dijadikan acuan dalam perencanaan jaringan jalan untuk masa yang akan datang di Kabupaten Lumajang.

Perhitungan kinerja simpang pada penelitian ini akan menggunakan *software* PTV Vistro. Menurut Sauri dkk (2014), hasil perhitungan kinerja simpang bersinyal menggunakan PTV Vistro rata-rata lebih kecil jika dibandingkan dengan metode MKJI 1997. Namun pada perhitungan kinerja simpang tak bersinyal menunjukkan hasil acak. Menurut Rifai dkk (2014), terdapat perbedaan pada penentuan nilai arus jenuh dan kapasitas pada kedua metode, dimana PTV Vistro menghasilkan nilai kapasitas yang lebih besar dari MKJI. Hasil kinerja keluaran PTV Vistro menunjukkan nilai yang lebih rendah dari perhitungan MKJI. PTV Group (2013), *software* ini dapat digunakan untuk melakukan analisis kinerja simpang. Sebagai dasar perhitungannya, *software* ini menggunakan standar *Highway Capacity Manual* (HCM) 2010.

Berdasarkan latar belakang tersebut, maka dilakukan perhitungan kinerja simpang untuk 5 dan 10 tahun mendatang. Tujuan perhitungan kinerja simpang adalah untuk mengetahui tingkat pelayanan jalan dan diarahkan untuk menciptakan keefesiensian pergerakan lalu lintas serta pengoperasian prasarana jalan di Kabupaten Lumajang. Hasil penelitian ini nantinya bisa dijadikan acuan dalam perencanaan jaringan jalan untuk masa yang akan datang di Kabupaten Lumajang.

Penggunaan *software* PTV Vistro dilakukan untuk meningkatkan keakuratan perhitungan dan meminimalisir terjadinya *human error* saat perhitungan. Pada penelitian ini juga dilakukan manajemen lalu lintas menggunakan PTV Vistro dengan cara optimasi waktu fase simpang. Manajemen lalu lintas dilakukan pada hasil perhitungan kinerja simpang yang kurang baik agar kinerja simpang menjadi lebih baik.

## 1.2 Rumusan Masalah

Rumusan masalah dalam Tugas Akhir ini antara lain :

1. Bagaimana kondisi eksisting (tahun 2016) pergerakan lalu lintas dan kinerja simpang dengan menggunakan *software* PTV Vistro di Kabupaten Lumajang.
2. Bagaimana kinerja simpang pada tahun 2021 dan 2026 di Kabupaten Lumajang dengan menggunakan *software* PTV Vistro.
3. Apa manajemen dan rekayasa lalu lintas yang dapat dilakukan jika terdapat kinerja simpang yang buruk.

## 1.3 Tujuan

Adapun tujuan dari penulisan Tugas Akhir ini antara lain :

1. Untuk mengetahui pola pergerakan lalu lintas dan kinerja simpang utama di Kabupaten Lumajang saat ini (tahun 2016).
2. Untuk mengetahui kinerja simpang di Kabupaten Lumajang pada tahun 2021 dan 2026 dengan menggunakan *software* PTV Vistro.
3. Mendapatkan alternatif yang tepat untuk memperbaiki kinerja simpang yang buruk.

## 1.4 Manfaat

Tugas Akhir ini dapat digunakan untuk mengetahui kinerja simpang utama di Kabupaten Lumajang, sehingga nantinya bisa menjadi acuan dalam penataan sistem transportasi Kabupaten Lumajang pada masa yang akan datang.

## 1.5 Batasan Masalah

Agar pembahasan dalam Tugas Akhir sesuai dengan tujuan yang diinginkan, maka perlu batasan masalah yang meliputi :

1. Penelitian kinerja hanya dilakukan di simpang utama Kabupaten Lumajang yang dijelaskan pada bab 3.

2. Hanya menggunakan perangkat lunak PTV Vistro untuk menghitung kinerja simpang.
3. Penelitian dilakukan pada tahun eksisting (2016), 2021 dan 2026.
4. Analisis tahun 2021 dan 2026 didasarkan pada kondisi eksisting (2016).
5. Manajemen/rekayasa lalu lintas hanya dengan mengoptimasi waktu fase simpang.

## **BAB.2 TINJAUAN PUSTAKA**

### **2.1 Pengertian Jalan**

Jalan adalah prasarana transportasi darat yang meliputi segala bagian jalan, termasuk bangunan pelengkap dan perlengkapannya yang diperuntukkan bagi lalulintas yang berada permukaan tanah, diatas permukaan tanah, dibawah permukaan tanah dan atau air serta diatas permukaan air, kecuali jalan kereta api dan jalan kabel (UU No.38 tahun 2004 tentang Jalan). Bagian-bagian jalan meliputi ruang manfaat jalan, ruang milik jalan dan ruang pengawasan jalan :

1. Ruang manfaat jalan meliputi badan jalan, saluran tepi jalan, dan ambang pengamannya.
2. Ruang milik jalan meliputi ruang manfaat jalan dan sejajar tanah tertentu diluar ruang manfaat jalan.
3. Ruang pengawasan jalan merupakan ruang tertentu diluar ruang milik jalan yang ada dibawah pengawasan penyelenggara jalan.

#### **2.1.1 Klasifikasi Jalan Menurut Statusnya**

Jalan dikelompokkan kedalam jalan nasional, jalan provinsi, jalan kota, jalan kabupaten dan jalan desa (UU No.38 tahun 2004 tentang Jalan).

1. Jalan nasional merupakan jalan arteri dan jalan kolektor dalam sistem jaringan jalan primer yang menghubungkan antar ibukota propinsi, dan jalan strategis nasional, serta jalan tol. Jalan arteri primer didesain berdasarkan kecepatan rencana paling rendah 60 (enam puluh) kilometer per jam dan untuk jalan arteri sekunder didesain berdasarkan kecepatan rencana paling rendah 30 (tiga puluh) kilometer per jam dengan lebar badan jalan paling sedikit 11 (sebelas) meter.
2. Jalan provinsi merupakan jalan kolektor dalam sistem jaringan jalan primer yang menghubungkan ibukota propinsi dengan ibukota

kabupaten/kota, atau antar ibukota kabupaten/kota, dan jalan strategis propinsi. Jalan kolektor primer didesain berdasarkan kecepatan rencana paling rendah 40 (empat puluh) kilometer per jam dan jalan kolektor sekunder didesain berdasarkan kecepatan rencana paling rendah 20 (dua puluh) kilometer per jam dengan lebar badan jalan paling sedikit 9 (sembilan) meter.

3. Jalan kabupaten merupakan jalan lokal dalam sistem jaringan jalan primer yang tidak termasuk pada jalan nasional dan propinsi yang menghubungkan ibukota kabupaten dan ibukota kecamatan, antar ibukota kecamatan, dengan pusat kegiatan lokal. Jalan lokal primer didesain berdasarkan kecepatan rencana paling rendah 20 (dua puluh) kilometer per jam dan jalan lokal sekunder didesain berdasarkan kecepatan rencana paling rendah 10 (sepuluh) kilometer per jam dengan lebar badan jalan paling sedikit 7,5 (tujuh koma lima) meter.
4. Jalan kota adalah jalan umum dalam sistem jaringan jalan sekunder yang menghubungkan antar pusat pelayanan dalam kota, menghubungkan pusat pelayanan dengan persil, menghubungkan antar persil, serta menghubungkan antar pusat permukiman yang berada dalam kota.
5. Jalan desa merupakan jalan umum yang menghubungkan kawasan dan/atau antar permukiman dalam desa, serta jalan lingkungan.

## 2.2 Pengertian Simpang

Menurut PP 43 Tahun 1993 (dalam Jurnal Ilmiah Teknik Sipil Vol.15.2011:59) tentang Prasarana dan Lalu Lintas Jalan, simpang adalah pertemuan atau percabangan jalan baik yang sebidang maupun yang tidak sebidang. Simpang merupakan tempat yang rawan terhadap kecelakaan karena terjadi konflik antara pergerakan kendaraan dari arah yang berlawanan.

## 2.2.1 Klasifikasi Simpang

Berdasarkan PP 43 Tahun 1993, dibagin menjadi tiga yaitu :

1. Simpang bersinyal

Simpang bersinyal adalah suatu pertemuan antara dua ruas jalan atau lebih yang diatur dengan alat pemberi isyarat lalu lintas dengan aturan yang disampaikan oleh nyala lampu.

2. Simpang Tak Bersinyal

Simpang tak bersinyal adalah suatu pertemuan antara dua ruas jalan atau lebih dan pada pertemuan dua ruas jalan tersebut tidak diberi tanda atau isyarat untuk mengatur lalu lintasnya.

3. Bundaran

Bundaran adalah suatu pertemuan antara dua ruas jalan atau lebih yang tengahnya terdapat pulau lalu lintas yang bertindak sebagai pengontrol pembagi dan pengaruh bagi sistem lalu lintas berputar satu arah.

## 2.3 Simpang Bersinyal

Berdasarkan MKJI 1997, secara prinsip penggunaan simpang bersinyal harus mempertimbangkan efisiensi waktu dan pergerakan yang terjadi pada simpang tersebut. Penentuan pengaturan fase harus diperhatikan. Untuk melakukan evaluasi terhadap kapasits simpang dilihat berdasarkan perbandingan antara arus dengan kapasitasnya. Sedangkan untuk mengevaluasi tingkat pelayanannya didasarkan pada tundaan rata-rata yang terjadi.

Pengaturan lalu lintas dengan menggunakan sinyal digunakan untuk beberapa tujuan, yang antara lain adalah :

1. Menghindari terjadinya kemacetan pada simpang yang disebabkan oleh adanya tundaan pada kondisi lalu lintas puncak.
2. Mengurangi terjadinya kecelakaan lalu lintas akibat pertemuan kendaraan yang berlawanan arah.

### **2.3.1 Karakteristik Simpang Bersinyal**

Berdasarkan MKJI 1997, untuk sebagian besar fasilitas jalan, kapasitas dan tingkat kinerja dari fasilitas tersebut merupakan fungsi dari keadaan geometrik dan tuntutan arus lalu lintas. Dengan menggunakan sinyal lalu lintas, kapasitas simpang dapat didistribusikan pada berbagai pendekat dengan menggunakan cara memberikan alokasi waktu hijau pada tiap-tiap pendekatnya

Maksud dari penggunaan sinyal lalu lintas adalah untuk memisahkan lintasan dari gerakan-gerakan lalu lintas yang datang dari berbagai arah berlawanan. Sinyal lalu lintas juga dapat dipergunakan untuk memisahkan arus lalu lintas dengan arah lurus dengan arus lalu lintas yang melakukan pergerakan membekok dengan penjalan kaki.

### **2.3.2 Karakteristik Sinyal Lalu Lintas**

Berdasarkan MKJI 1997, dalam suatu simpang jika hanya konflik primernya saja yang dipisahkan, maka yang memungkinkan untuk mengatur sinyal lalu lintasnya adalah dengan menggunakan pengaturan dua fase. Metode seperti ini dapat digunakan apabila gerakan membekok kanan pada simpang tersebut dilarang. Di dalam simpang bersinyal dipakai isyarat lampu dengan warna yang berbeda. Pada umumnya warna lampu yang dipakai adalah merah, kuning, dan hijau. Agar mendapatkan kapasitas pengaliran dan tundaan yang optimal diperlukan pengaturan pada waktu penyalaan lampu-lampu tersebut. Beberapa istilah yang dipakai dalam pengendalian waktu penyalaan lampu lalu lintas antara lain adalah periode antar hijau, waktu merah semua, dan waktu siklus. Maksud dari periode antar hijau adalah untuk memberikan tanda bagi lalu lintas yang sedang bergerak bahwa fase sudah berakhir serta untuk menjamin agar kendaraan terakhir pada fase tersebut mempunyai cukup waktu untuk melakukan pergerakan.

## **2.4 Simpang Tak Bersinyal**

Berdasarkan MKJI 1997, simpang tak bersinyal pada dasarnya merupakan pertemuan antara dua ruas jalan atau lebih yang saling berpotongan pada satu bidang, dimana tidak dilengkapi lampu pemberi isyarat dalam pengaturan lalu lintasnya. Dalam hal pengaturan lalu lintas simpang tak bersinyal berbeda dengan pengaturan lalu lintas simpang bersinyal. Di Indonesia, pengaturan lalu lintas simpang tak bersinyal secara formal dikendalikan oleh aturan dasar lalu lintas Indonesia yaitu memberi jalan kendaraan dari kiri.

### **2.4.1 Karakteristik Simpang Tak Bersinyal**

Berdasarkan MKJI 1997, pengaturan pergerakan simpang tak bersinyal dilakukan secara komprehensif dimana kinerja yang dihasilkan sebagai acuan penentuan dan prosedur pergerakan yang akan ditetapkan dengan memperhatikan besarnya parameter tundaan, kapasitas, derajat kejenuhan, peluang antrian, dan geometrik yang ada pada simpang tersebut. Ukuran-ukuran kinerja yang menjadi parameter dalam perhitungan kinerja simpang tak bersinyal yaitu :

1. Kapasitas yaitu lalu lintas maksimum yang bisa dipertahankan pada suatu bagian jalan dalam kondisi tertentu yang dinyatakan dalam satuan kendaraan/jam atau smp/jam.
2. Derajat Kejenuhan yaitu rasio arus lalu lintas terhadap kapasitas
3. Tundaan yaitu waktu tempuh tambahan yang diperlukan untuk melewati suatu simpang dibandingkan tanpa melewati suatu simpang.
4. Peluang antrian yaitu kemungkinan terjadinya penumpukan kendaraan di sekitar lengkap simpang.

## **2.5 Kinerja Simpang berdasarkan perangkat lunak PTV Vistro**

Perhitungan kinerja simpang dengan menggunakan PTV Vistro dilakukan dengan metode HCM 2010. Sedangkan untuk perhitungan bundaran menggunakan metode *Kimberly* dan *Intersection Capacity Utilization* 1 dan 2. PTV Vistro

dikembangkan oleh PTV group dan dirilis pada bulan Januari 2013. Saat ini penggunaan PTV Vistro di Indonesia mulai diterapkan di beberapa wilayah Indonesia yaitu Pemprov DKI Jakarta, Universitas Jember, dan Konsultan di Bali.

Dengan adanya software ini, akan mempermudah untuk melakukan evaluasi dampak pembangunan wilayah, evaluasi LoS suatu simpang, dan membuat laporan dalam bentuk tabel dan gambar. Selain itu, *software* ini juga digunakan untuk melakukan analisa dampak lalu lintas.

Pada software ini jaringan jalan dapat diperoleh dari peta digital yang diambil dari *Bing Map* atau peta digital lainnya. Selain itu, pengguna juga dapat membuat simpang dan permodelan jaringan jalan sesuai dengan kebutuhan pengguna. Berikut merupakan tahapan input data pada *software* PTV Vistro :

1. Tahap pertama yaitu menentukan latar untuk sistem jaringan jalan yang akan dianalisa. Hal ini dapat dilakukan dengan dua cara yaitu menggunakan peta digital atau dengan menggunakan gambar peta yang kita miliki
2. Tahap kedua, pada tahap ini yaitu melakukan penambahan simpang yang menjadi penghubung dan kemudian akan digunakan untuk membentuk suatu jaringan jalan. Beberapa tipe simpang yang dapat dipilih dalam PTV Vistro yaitu simpang bersinyal, simpang tak bersinyal, dan bundaran.
3. Tahap selanjutnya adalah menginput data-data pada simpang yang telah dimasukkan. Data-data tersebut seperti data lebar lajur dan pergerakan membelok yang terjadi pada simpang.

### 2.5.1 Perhitungan Simpang Bersinyal

Berdasarkan PTV Vistro User Manual. Untuk perhitungan kinerja simpang bersinyal dengan menggunakan perangkat lunak PTV Vistro digunakan metode *Highway Capacity Manual* (HCM) 2010. Hal yang menjadi kata kunci dalam perhitungan dengan metode ini yaitu kondisi geometri dari simpang itu sendiri, volume lalu lintas yang bergerak pada simpang tersebut, dan penentuan waktu sinyal. Langkah-langkah perhitungan dengan metode ini dapat dijabarkan seperti berikut :

## 1. Menentukan pengelompokan lajur pergerakan

Pada langkah ini dilakukan pengelompokan terhadap lajur pergerakan kendaraan pada masing-masing pendekat. Pengelompokan lajur pergerakan yang dimaksud yaitu :

- a. Lajur belok kiri tersendiri
- b. Lajur belok kanan tersendiri
- c. Lajur lurus tersendiri
- d. Lajur kiri dan lurus berbagi
- e. Lajur lurus dan kanan berbagi
- f. Lajur kiri dan kanan berbagi
- g. Lajur kiri, lurus dan kanan berbagi

## 2. Menetukan nilai arus pada masing-masing lajur

Pada langkah ini ditentukan besarnya arus lalu lintas yang melakukan pergerakan pada masing-masing lajur.

## 3. Menentukan nilai arus pada masing-masing pendekat

Arus lalu lintas yang melakukan pergerakan pada masing-masing lajur dijumlahkan sehingga didapat arus total pada masing-masing pendekat.

## 4. Menentukan arus jenuh dasar disesuaikan

Langkah ini melakukan penentuan terhadap besarnya arus jenuh dasar dsesuaikan untuk masing-masing pendekat. Besarnya arus jenuh dasar disesuaikan didapat dengan mengalikan arus jenuh dasar dengan beberapa faktor penyesuaian sesuai dengan kondisi lapangan.

## 5. Menentukan proporsi kedatangan saat waktu hijau

Pada langkah ini ditentukan besarnya proporsi kendaraan datang saat hijau.

## 6. Menentukan waktu fase sinyal.

Pada tahap ini ditentukan durasi dari fase sinyal

## 7. Didapatkan kapasitas

## 8. Menentukan Tundaan

## 9. Menentukan Tingkat Pelayanan

Tingkat pelayanan ditentukan untuk masing-masing pendekat dan simpang secara keseluruhan. Tingkat pelayanan untuk metode HCM 2010 ditunjukkan oleh tabel 2.1 berikut :

Tabel 2.1 Tingkat Pelayanan Simpang HCM 2010

| Level of Service (LOS) | Control Delay (s/veh) |
|------------------------|-----------------------|
| LOS A                  | $\leq 10$             |
| LOS B                  | $> 10 - 20$           |
| LOS C                  | $> 20 - 35$           |
| LOS D                  | $> 35 - 55$           |
| LOS E                  | $> 55 - 80$           |
| LOS F                  | $> 80$                |

Sumber : PTV Vistro User Manual

#### 10. Menentukan Panjang Antrian

Untuk menentukan panjang antrian, dihitung dengan menjumlahkan seluruh kendaraan antri selama waktu fase.

#### 2.5.2 Perhitungan Simpang Tak Bersinyal

Untuk perhitungan simpang tak bersinyal pada perangkat lunak PTV Vistro, juga menggunakan pedoman *Highway Capacity Manual* (HCM) 2010 (PTV Vistro User Manual, 2013:181). Langkah perhitungan dijelaskan sebagai berikut :

##### 1. Menentukan prioritas pergerakan

Pada langkah ini dilakukan penentuan prioritas pergerakan pada simpang. Prioritas yang dimaksud adalah menentukan pendekat simpang yang merupakan jalur utama atau mayor dan pendekat yang merupakan jalan minor. Penentuan ini dilakukan untuk mengetahui pergerakan yang harus diutamakan dalam simpang.

##### 2. Menentukan besarnya arus lalu lintas

Pada langkah ini diinputkan besarnya jumlah kendaraan yang melakukan pergerakan pada simpang-simpang tersebut.

3. Menentukan tipe simpang dan kondisi lingkungan

Penentuan simpang didasarkan pada jumlah lengan dan jumlah pendekat mayor dan minor. Hal yang perlu diperhatikan dalam penentuan tipe simpang adalah jumlah lengan atau pendekat pada simpang tersebut.

4. Menentukan kapasitas

Langkah ini dilakukan untuk menentukan besarnya kapasitas kendaraan yang mampu ditampung oleh simpang tersebut. Besarnya kapasitas didapat dari perkalian antara nilai arus jenuh dasar dari simpang tersebut dengan beberapa faktor penyesuaian.

5. Menentukan tundaan dan peluang antrian

Pada langkah akhir dari perhitungan ini ditentukan besarnya tundaan yang terjadi di simpang tersebut. Ditentukan juga besarnya peluang antrian yang mungkin terjadi.

## 2.6 Manajemen Lalu Lintas

Manajemen lalu lintas merupakan upaya yang dilakukan dalam pengendalian lalu lintas dengan optimalisasi prasarana yang ada saat ini maupun yang direncanakan secara maksimal. Tamin (2003) menyebutkan, rekayasa manajemen lalu lintas dapat dilakukan dengan berbagai cara yang diuraikan berikut ini:

1. Perbaikan sistem lampu lalu lintas dan sistem jaringan jalan rekayasa dan menejemen lalu lintas dapat dilakukan dengan rincian berikut ini:

- Pemasangan dan pemasangan sistem lampu lalu lintas secara terisolasi dimaksud untuk mengikuti fluktuasi lalu lintas yang berbeda-beda dalam 1 jam, 1 hari, maupun 1 minggu. Sistem ini dikenal dengan *Area Traffic Control System* (ATCS).
- Perbaikan perencanaan sistem jaringan jalan yang ada, termasuk jaringan jalan KA, jalan raya, bus, dilaksanakan untuk menunjang Sistem Angkutan Umum Transportasi Perkotaan Terpadu (SAUTPT).

- Penerapan manajemen transportasi, antara lain kebijakan parkiran, perbaikan fasilitas pejalan kaki, dan jalur khusus bus.

## 2. Kebijakan Perparkiran

Kebijakan ini dilakukan untuk meningkatkan kapasitas jalan yang sudah ada. Penggunaan badan jalan sebagai tempat parkir jelas akan memperkecil kapasitas jalan karena sebagian lebar jalan telah digunakan sebagai tempat parkir. Selain itu, jika pengelolaan parkir kurang baik, cenderung akan mengakibatkan kemacetan karena adanya antrian kendaraan yang menunggu ruang kosong dapat menghambat pergerakan arus lalu lintas.

## 3. Prioritas Angkutan Umum

Angkutan umum merupakan prasarana yang lebih efisien jika dibandingkan dengan kendaraan pribadi. Sehingga perlu dilakukan beberapa hal untuk menunjang kinerja angkutan umum, yaitu:

- Jalur khusus bus dimaksudkan untuk memberikan pergerakan yang lebih leluasa pada bus, sehingga jika pada jalur kendaraan pribadi macet bus dapat bergerak dan meningkatkan efisiensi angkutan umum.
- Prioritas bus di persimpangan dengan lalu lintas. Hal ini dilakukan dengan cara memasang sensor pada setiap bus yang kemudian akan mengirimkan sinyal elektronik dan diterima oleh penerima sinyal di persimpangan yang kemudian akan diteruskan ke control lampu lalu lintas dan kemudian akan memberikan fase hijau atau memperpanjang waktu hijau. Hal ini dapat mengurangi tundaan kendaraan di persimpangan.
- Kemudahan pejalan kaki. Salah satu upaya untuk membuat masyarakat menggunakan angkutan umum adalah dengan meningkatkan fasilitas yang nyaman dan aman bagi pejalan kaki. Hal ini perlu dilakukan karena perjalanan dengan angkutan umum selalu diawali dan diakhiri dengan berjalan kaki.

### **2.6.1 Manajemen Simpang**

Pada simpang, penanganan yang dapat dilakukan diantaranya adalah:

1. Penanganan Lampu Lalu Lintas Baru

Cara ini dilakukan pada simpang yang tidak menggunakan pengaturan lampu lalu lintas. Namun karena adanya arus lalu lintas yang cukup tinggi, perlu adanya lampu lalu lintas untuk mengatur pergerakan kendaraan.

2. Pengaturan Ulang Waktu Lalu Lintas

Penanganan ini dilakukan jika waktu fase dan waktu sinyal tidak lagi sesuai dengan kondisi yang ada saat ini. Salah satu alternatif yang digunakan adalah dengan cara mengatur ulang waktu lalu lintas.

3. Perbaikan Geometrik Simpang

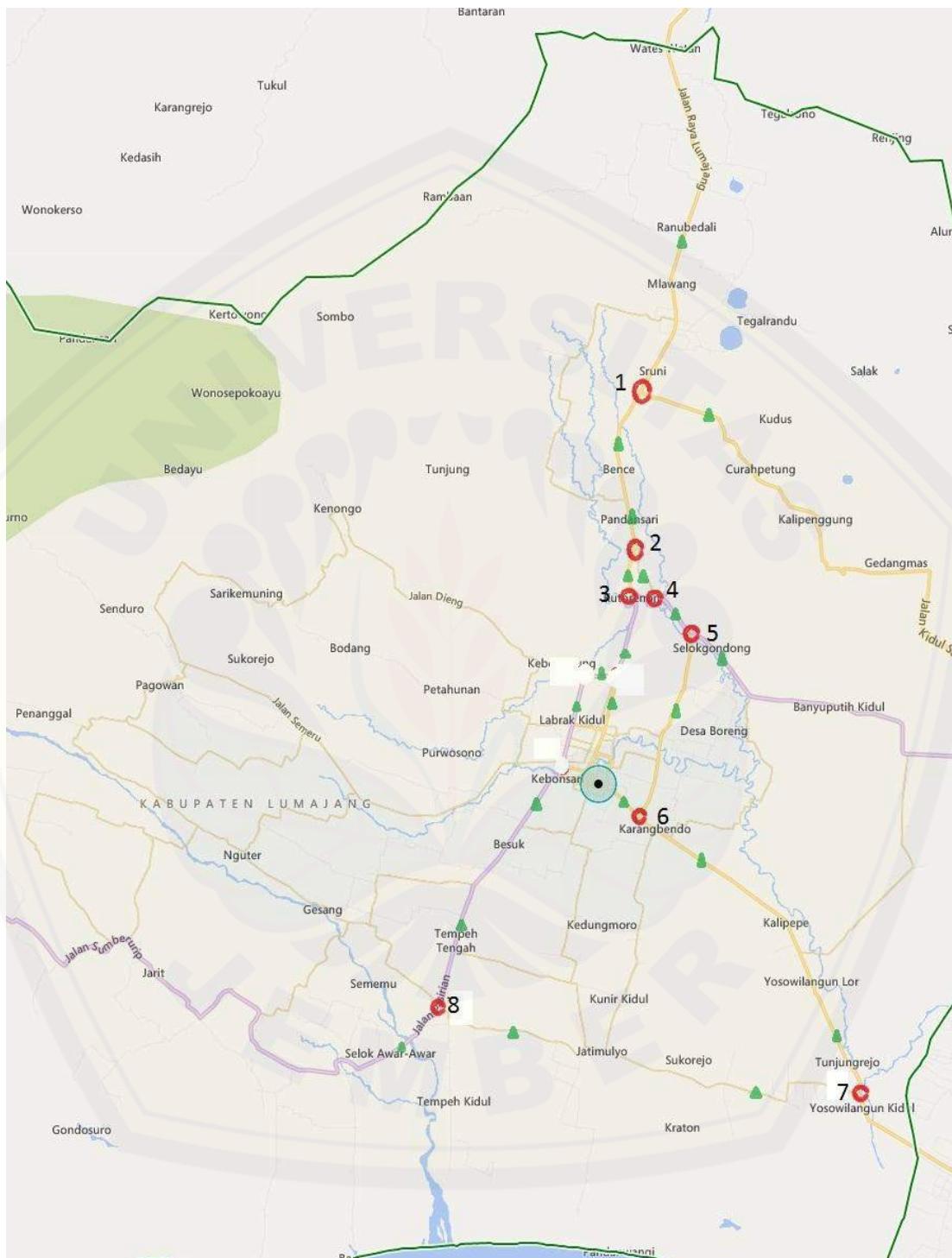
Perbaikan ini dilakukan dengan penambahan lajur kaki persimpangan, pelebaran radius sudut tikungan, pemasangan pulau lalu lintas. Hal ini dilakukan jika tundaan pada simpang tinggi.

## BAB.3 METODOLOGI

### 3.1 Lokasi Penelitian

Tahap awal adalah melakukan survei lapangan yang bertujuan untuk mengetahui kondisi eksisting simpang yang menjadi objek penelitian dalam tugas akhir ini. Pengambilan lokasi survei terletak di Kabupaten Lumajang. Berikut simpang yang dilakukan survei : (Gambar 3.1)

- Simpang :
  1. Simpang Randu Agung
  2. Simpang Kedung Jajang
  3. Simpang Wonorejo
  4. Simpang Wonorejo Alternatif
  5. Simpang JLT (Jalan Lingkar Timur) Yeye
  6. Simpang JLT (Jalan Lingkar Timur) Tukum
  7. Simpang Yosowilangun
  8. Simpang Tempeh
- Pendekat simpang, meliputi :
  1. Jl. Mayjen Soekertijo
  2. Jl. Krajan
  3. Jl. Raya Tempeh
  4. Jl. PB Sudirman
  5. Jl. Mahakam
  6. Jl. Tukum
  7. Jl. Raya Lumajang-Jember
  8. JLT (Jalan Lingkar Timur)
  9. Jl. Raya Kedung Jajang
  10. Jl. Raya Randu Agung
  11. Jl. Raya Lumajang-Probolinggo



Gambar 3.1 Peta Kab. Lumajang dan Lokasi Survei

Sumber : Bing Maps

### 3.2 Survei Pendahuluan dan Pengumpulan Data

Survei pendahuluan bertujuan untuk mengetahui kondisi simpang yang akan disurvei. Objek yang disurvei seperti gambaran awal geometri, pengaturan fase dan kondisi lingkungan serta kondisi lalu lintas setiap harinya.

- Kondisi Daerah Studi
  1. Letak atau posisi serta nama simpang
  2. Nama ruas jalan yang dihubungkan oleh simpang
  3. Keadaan lingkungan dan lalu lintas simpang
  4. Keadaan geometri simpang
- Jenis Kendaraan
  1. Kendaraan Ringan (LV)  
Contoh : mobil, minibus dan pick-up
  2. Kendaraan Berat (HV)  
Contoh : bus, truk 2 as, dan truk 3 as
  3. Sepeda Motor (MC)
  4. Kendaraan tak bermotor (UM)  
Contoh : sepeda, gerobak dan becak
- Data Primer  
Data primer ini merupakan data yang didapat dari pengamatan langsung di lokasi penelitian. Data tersebut meliputi :
  1. Geometri simpang (survei ini menggunakan alat rol meter/*walking distance*, kertas, dan alat tulis).
  2. Pengaturan Lalu Lintas (survei menggunakan alat stopwatch)
  3. Kondisi lingkungan (menghitung hambatan samping)
  4. Volume kendaraan terklasifikasi

- Data Sekunder

Data yang diperlukan untuk data sekunder ini adalah data-data penyokong yang dibutuhkan untuk melakukan perhitungan dalam prencanaan simulasi pergerakan lalu lintas yang akan dilakukan. Seperti contoh data pertumbuhan kendaraan, data kepemilikan kendaraan dan lain-lain.

### **3.3 Pelaksanaan Survei Pengambilan Data**

Tahapan-tahapan dalam pelaksanaan survei, yaitu:

- Tahap Persiapan

Adalah pengarahan tenaga surveyor dan pembagian titik bagi yang bertugas sesuai bagiannya, penetapan lokasi survei, dan alokasi waktu.

- Survei Pendahuluan

1. Menyiapkan perlengkapan survei, seperti peta lokasi, counter, alat-alat tulis, papan dada dan formulir survei.

2. Mempelajari peta lokasi dan cara pengisian formulir survei.

- Survei Sesungguhnya

Dilaksanakan pada pagi hari, siang hari, sore hari dan malam hari untuk pengambilan datanya.

### **3.4 Metode Survei**

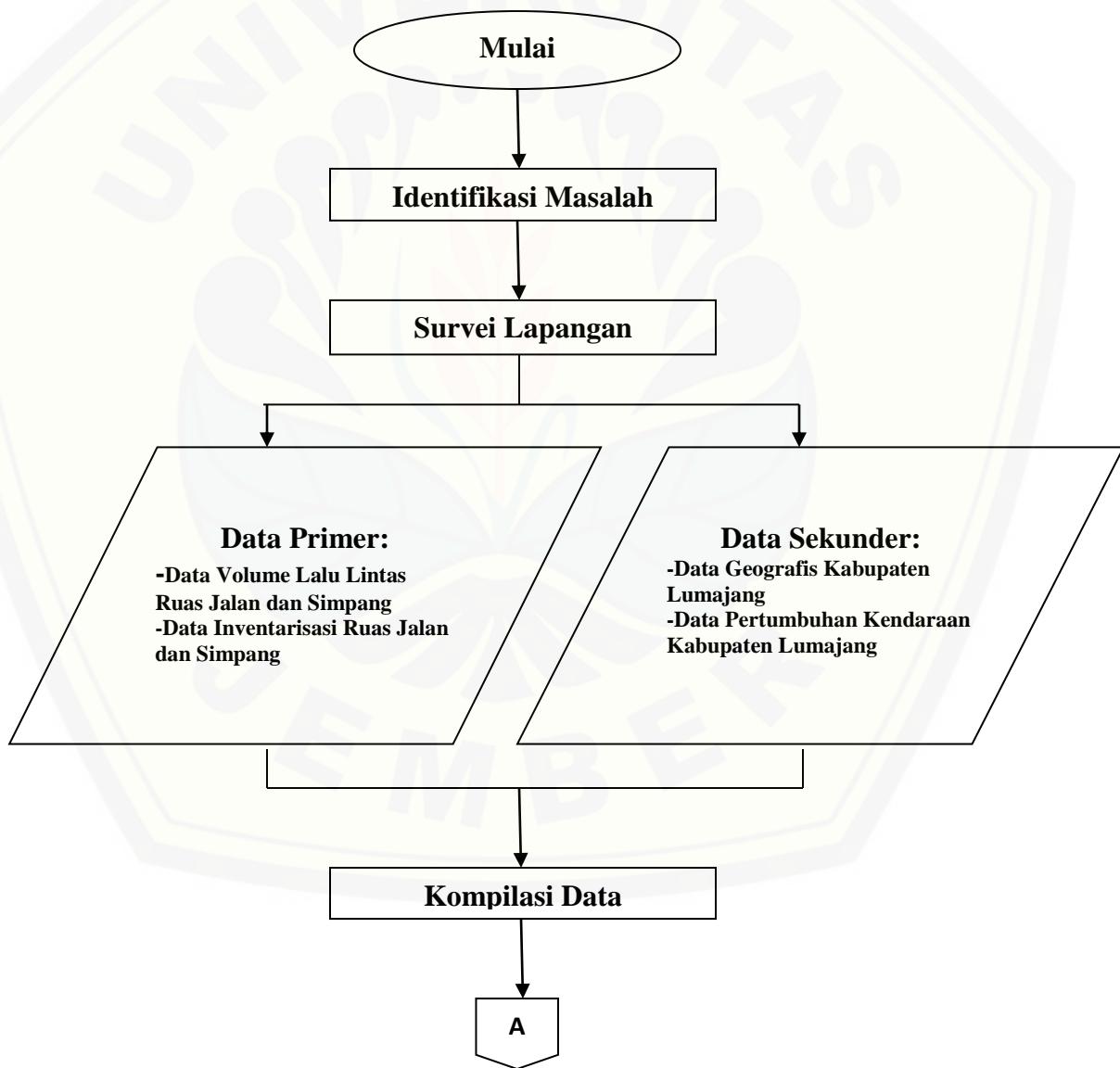
Survei volume lalu lintas adalah survei yang dilakukan dengan menghitung jumlah kendaraan yang melintas di ruas jalan pada setiap arah lalu lintas. Target data yang akan dicatat melalui formulir survei volume lalu lintas, mencakup:

- a. Kendaraan ringan / *Light Vehicle (LV)*
- b. Kendaraan berat / *Heavy Vehicle (HV)*
- c. Sepeda motor / *Motor Cycle (MC)*
- d. Kendaraan tak bermotor / *Unmotorised (UM)*

### 3.5 Perhitungan Kinerja menggunakan PTV Vistro

Perhitungan kinerja simpang menggunakan perangkat lunak PTV Vistro, data yang diperlukan untuk diinput adalah data mengenai tipe simpang, geometri dan pengaturan fase. Hasil dari perangkat lunak PTV Vistro berupa kinerja simpang di Kabupaten Lumajang untuk 5-10 tahun yang akan datang.

### 3.6 Alur Pelaksanaan





Gambar 3.2 Diagram Alur Penelitian

## BAB 5. PENUTUP

### 5.1 Kesimpulan

1. Berdasarkan hasil analisis kinerja simpang tahun 2016 menggunakan PTV Vistro menunjukkan bahwa tingkat pelayanan simpang Randuagung masuk LoS F, simpang Kedung Jajang masuk LoS D, simpang Wonorejo masuk LoS C, simpang Alternatif Wonorejo masuk LoS D, simpang JLT Yeye masuk LoS D, simpang JLT Tukum masuk LoS F, simpang Yosowilangun masuk LoS F dan simpang Tempeh masuk LoS F.
- 2.a. Berdasarkan hasil analisis kinerja simpang tahun 2021 menggunakan PTV Vistro menunjukkan bahwa tingkat pelayanan simpang Randuagung masuk LoS F, simpang Kedung Jajang masuk LoS D, simpang Wonorejo masuk LoS D, simpang Alternatif Wonorejo masuk LoS C, simpang JLT Yeye masuk LoS C, simpang JLT Tukum masuk LoS F, simpang Yosowilangun masuk LoS E dan simpang Tempeh masuk LoS F.
- 2.b. Berdasarkan hasil analisis kinerja simpang tahun 2026 menggunakan PTV Vistro menunjukkan bahwa tingkat pelayanan simpang Randuagung masuk LoS F, simpang Kedung Jajang masuk LoS F, simpang Wonorejo masuk LoS F, simpang Alternatif Wonorejo masuk LoS D, simpang JLT Yeye masuk LoS D, simpang JLT Tukum masuk LoS F, simpang Yosowilangun masuk LoS F dan simpang Tempeh masuk LoS F.
3. Manajemen dan rekayasa lalu lintas yang digunakan adalah metode *v/c balancing* yaitu dengan melakukan optimasi fase pada simpang bersinyal. Hasil analisis kinerja simpang tahun 2016 dan 2021 dengan optimasi waktu fase simpang menggunakan metode *v/c balancing* menunjukkan bahwa semua simpang memiliki nilai derajat kejenuhan kurang dari 1 dan memiliki nilai derajat kejenuhan yang seimbang disetiap lengan simpang. Hasil analisis kinerja tahun 2026 menunjukkan bahwa simpang Wonorejo, JLT Tukum, Yosowilangun dan Tempeh memiliki nilai derajat kejenuhan lebih dari 1,

sehingga perlu dilakukan manajemen/rekayasa lalu lintas selain optimasi waktu fase.

### **5.2 Saran**

1. Untuk penelitian selanjutnya jika hasil keluaran data menggunakan PTV Vistro terlalu tinggi dapat dilakukan kontrol dengan metode perhitungan MKJI 1997 ataupun *software KAJI*.
2. Perlu dilakukan pembahasan yang lebih lanjut mengenai manajemen atau rekayasa lalu lintas seperti pelebaran lajur pendekat ataupun rekayasa lalu lintas yang lainnya, karena dengan menggunakan optimasi waktu fase masih menunjukkan kinerja simpang yang kurang baik.

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**Data Status Jalan di Kabupaten Lumajang**

| No  | Keadaan                      | Status Jalan |      |                |      |                |           |            |         |
|-----|------------------------------|--------------|------|----------------|------|----------------|-----------|------------|---------|
|     |                              | Jalan Negara |      | Jalan Propinsi |      | Jalan Kab/Kota |           | Prosentase |         |
|     |                              | 2014         | 2015 | 2014           | 2015 | 2014           | 2015      | 2014       | 2015    |
| I   | <b>Jenis Permukaan</b>       |              |      |                |      |                |           |            |         |
|     | a. Diaspal                   | -            | -    | -              | -    | 1.029.437      | 1.030.162 | 97,86%     | 97,93%  |
|     | b. Kerikil                   | -            | -    | -              | -    | 16.640         | 16.640    | 1,58%      | 1,58%   |
|     | c. Tanah                     | -            | -    | -              | -    | 5.910          | 5.185     | 0,56%      | 0,49%   |
|     | d. Tidak Dirinci             | -            | -    | -              | -    | 0              | 0         | 0,00%      | 0,00%   |
|     | Jumlah I                     | -            | -    | -              | -    | 1.051.987      | 1.051.987 | 100,00%    | 100,00% |
| II  | <b>Kondisi Jalan</b>         |              |      |                |      |                |           |            |         |
|     | a. Baik                      | -            | -    | -              | -    | 783.551        | 808.601   | 74,48%     | 76,86%  |
|     | b. Sedang                    | -            | -    | -              | -    | 94.545         | 88.742    | 8,99%      | 8,44%   |
|     | c. Rusak                     | -            | -    | -              | -    | 74.319         | 69.743    | 7,06%      | 6,63%   |
|     | d. Rusak Berat               | -            | -    | -              | -    | 99.572         | 86.901    | 9,47%      | 8,26%   |
|     | Jumlah II                    | -            | -    | -              | -    | 1.051.987      | 1.053.987 | 100,00%    | 100,19% |
| III | <b>Kelas Jalan</b>           |              |      |                |      |                |           |            |         |
|     | a. Kelas Jalan I             | -            | -    | -              | -    | -              | -         | -          | -       |
|     | b. Kelas Jalan II            | -            | -    | -              | -    | -              | -         | -          | -       |
|     | c. Kelas Jalan III           | -            | -    | -              | -    | 1.051.987      | 1.051.987 | 100%       | 100%    |
|     | d. Kelas Jalan IIIA          | -            | -    | -              | -    | -              | -         | -          | -       |
|     | e. Kelas Jalan IIIB          | -            | -    | -              | -    | -              | -         | -          | -       |
|     | f. Kelas Jalan IIIC          | -            | -    | -              | -    | -              | -         | -          | -       |
|     | g. Kelas Jalan Tidak Dirinci | -            | -    | -              | -    | -              | -         | -          | -       |
|     | Jumlah III                   | -            | -    | -              | -    | 1.051.987      | 1.051.987 | 100%       | 100%    |



**SURVAI VOLUME LALU LINTAS PERGERAKAN MEMBELOK**

| WAKTU<br>SURVAI<br>( 15 menit-an ) | LIGHT VEHICLES<br>( LV ) |    |    |         |    |    |                 |   |   |             |    |              | HEAVY VEHICLES |                           |    |                     |    |              |     |        | MOTORCYCLES<br>( MC ) |     |          | UNMOTORISED<br>( UM ) |    |            | CUACA |    |  |
|------------------------------------|--------------------------|----|----|---------|----|----|-----------------|---|---|-------------|----|--------------|----------------|---------------------------|----|---------------------|----|--------------|-----|--------|-----------------------|-----|----------|-----------------------|----|------------|-------|----|--|
|                                    | Mobil/Sedan<br>Carry/Van |    |    | Pick-Up |    |    | Microlet/<br>AU |   |   | Bus<br>Kota |    | Bus<br>Besar |                | Truk Sedang<br>Bus Sedang |    | Gandeng/<br>Trailer |    | Sepeda Motor |     | Sepeda |                       |     | 1. Cerah |                       |    | 2. Gerimis |       |    |  |
|                                    | =                        | ↑  | =  | =       | ↑  | =  | =               | ↑ | = | =           | ↑  | =            | =              | ↑                         | =  | =                   | ↑  | =            | =   | ↑      | =                     | =   | ↑        | =                     | =  | ↑          | =     | =  |  |
|                                    | 1                        | 2  | 3  | 4       | 5  | 6  | 7               | 8 | 9 | 10          | 11 | 12           | 13             | 14                        | 15 | 16                  | 17 | 18           | 19  | 20     | 21                    | 22  | 23       | 24                    | 25 | 26         | 27    | 28 |  |
| 6:00:00 - 6:15:00                  | -                        | 26 | 1  | -       | 5  | 1  | -               | 1 | - | -           | 4  | -            | -              | 5                         | -  | 1                   | -  | -            | 103 | 7      | -                     | -   | -        | -                     | -  | -          | -     | 1  |  |
| 6:15:00 - 6:30:00                  | -                        | 30 | -  | -       | 7  | -  | -               | 2 | - | -           | -  | -            | -              | 3                         | -  | 4                   | 1  | -            | -   | -      | -                     | 121 | 12       | -                     | 1  | -          | 1     |    |  |
| 6:30:00 - 6:45:00                  | -                        | 32 | 2  | -       | 7  | -  | -               | - | - | -           | -  | -            | -              | 5                         | -  | 9                   | 1  | -            | 142 | 19     | -                     | -   | -        | -                     | -  | -          | -     | 1  |  |
| 6:45:00 - 7:00:00                  | -                        | 31 | -  | -       | 8  | -  | -               | - | - | -           | -  | -            | -              | 6                         | -  | 13                  | 2  | -            | 2   | -      | -                     | 151 | 14       | -                     | -  | -          | 1     |    |  |
| 7:00:00 - 7:15:00                  | -                        | 34 | -  | -       | 6  | -  | -               | 3 | - | -           | -  | -            | -              | 3                         | -  | 5                   | 1  | -            | -   | -      | -                     | 108 | 8        | -                     | -  | -          | 1     |    |  |
| 7:15:00 - 7:30:00                  | -                        | 38 | 1  | -       | 6  | -  | -               | 6 | - | -           | -  | -            | -              | 6                         | -  | 12                  | 1  | -            | 1   | -      | -                     | 100 | 18       | -                     | 1  | -          | 1     |    |  |
| 7:30:00 - 7:45:00                  | -                        | 39 | -  | -       | 5  | -  | -               | 4 | - | -           | -  | -            | -              | 4                         | -  | 6                   | 1  | -            | -   | -      | -                     | 132 | 8        | -                     | 1  | -          | 1     |    |  |
| 7:45:00 - 8:00:00                  | -                        | 50 | 2  | -       | 11 | -  | -               | - | - | -           | -  | -            | -              | 3                         | -  | 8                   | -  | -            | -   | -      | -                     | 101 | 9        | -                     | -  | 1          | 1     |    |  |
| 8:00:00 - 8:15:00                  | -                        | 34 | 1  | -       | 15 | 1  | -               | 5 | - | -           | -  | -            | -              | 3                         | -  | 9                   | 1  | -            | 1   | 1      | -                     | 138 | 15       | -                     | -  | -          | 1     |    |  |
| 8:15:00 - 8:30:00                  | -                        | 43 | -  | -       | 8  | -  | -               | 3 | - | -           | -  | -            | -              | 5                         | -  | 9                   | -  | -            | -   | -      | -                     | 137 | 13       | -                     | -  | -          | 1     |    |  |
| 8:30:00 - 8:45:00                  | -                        | 39 | 3  | -       | 6  | -  | -               | 3 | - | -           | -  | -            | -              | 4                         | -  | 8                   | -  | 1            | -   | -      | -                     | 118 | 4        | -                     | -  | -          | 1     |    |  |
| 8:45:00 - 9:00:00                  | -                        | 37 | -  | -       | 8  | -  | -               | - | - | -           | -  | -            | -              | 3                         | -  | 9                   | 1  | -            | -   | -      | -                     | 127 | 5        | -                     | -  | -          | 1     |    |  |
| 9:00:00 - 9:15:00                  | -                        | 38 | -  | -       | 11 | 2  | -               | 2 | - | -           | -  | -            | -              | 4                         | -  | 5                   | -  | 1            | 1   | -      | -                     | 117 | 6        | -                     | 1  | -          | 1     |    |  |
| 9:15:00 - 9:30:00                  | -                        | 40 | -  | -       | 5  | -  | -               | 2 | - | -           | -  | -            | -              | 2                         | -  | 4                   | 1  | -            | -   | -      | -                     | 115 | 6        | -                     | -  | 1          | 1     |    |  |
| 9:30:00 - 9:45:00                  | -                        | 46 | 2  | -       | 7  | -  | -               | 3 | - | -           | -  | -            | -              | 2                         | -  | 7                   | 2  | -            | 2   | -      | -                     | 104 | 7        | -                     | -  | -          | 1     |    |  |
| 9:45:00 - 10:00:00                 | -                        | 41 | 1  | -       | 6  | -  | -               | 3 | - | -           | -  | -            | -              | 1                         | -  | 7                   | 1  | -            | 1   | -      | -                     | 106 | 8        | -                     | 2  | -          | 1     |    |  |
| 10:00:00 - 10:15:00                | -                        | 33 | 3  | -       | 5  | 1  | -               | 4 | - | -           | -  | -            | -              | 4                         | -  | 5                   | -  | 1            | -   | -      | -                     | 121 | 4        | -                     | -  | -          | 1     |    |  |
| 10:15:00 - 10:30:00                | -                        | 31 | -  | -       | 5  | -  | -               | 3 | - | -           | -  | -            | -              | 5                         | -  | 3                   | 1  | -            | -   | -      | -                     | 109 | 11       | -                     | -  | -          | 1     |    |  |
| 10:30:00 - 10:45:00                | -                        | 38 | -  | -       | 6  | -  | -               | 2 | - | -           | -  | -            | -              | 2                         | -  | 7                   | 1  | -            | -   | -      | -                     | 99  | 7        | -                     | -  | 1          | 1     |    |  |
| 10:45:00 - 11:00:00                | -                        | 47 | -  | -       | 8  | -  | -               | - | - | -           | -  | -            | -              | 2                         | -  | 3                   | -  | 1            | -   | -      | -                     | 124 | 6        | -                     | -  | -          | 1     |    |  |
| 11:00:00 - 11:15:00                | -                        | 54 | -  | -       | 5  | -  | -               | - | - | -           | -  | -            | -              | 3                         | -  | 13                  | 2  | -            | -   | -      | -                     | 131 | 8        | -                     | 1  | -          | 1     |    |  |
| 11:15:00 - 11:30:00                | -                        | 71 | -  | -       | 7  | -  | -               | 2 | - | -           | -  | -            | -              | 5                         | -  | 12                  | -  | 2            | -   | -      | -                     | 143 | 15       | -                     | -  | 1          | 1     |    |  |
| 11:30:00 - 11:45:00                | -                        | 49 | 2  | -       | 7  | -  | -               | 5 | - | -           | -  | -            | -              | 4                         | -  | 12                  | -  | 1            | -   | -      | -                     | 102 | 9        | -                     | -  | -          | 1     |    |  |
| 11:45:00 - 12:00:00                | -                        | 61 | -  | -       | 17 | -  | -               | 5 | - | -           | -  | -            | -              | 4                         | -  | 4                   | 2  | -            | 3   | -      | -                     | 119 | 19       | -                     | -  | -          | 1     |    |  |
| 12:00:00 - 12:15:00                | -                        | 36 | -  | -       | 3  | 2  | -               | 3 | - | -           | -  | -            | -              | 5                         | -  | 3                   | -  | -            | -   | -      | -                     | 139 | 13       | -                     | -  | -          | 1     |    |  |
| 12:15:00 - 12:30:00                | -                        | 45 | 3  | -       | 9  | 1  | -               | 1 | - | -           | -  | -            | -              | 6                         | -  | 6                   | 1  | -            | 1   | -      | -                     | 116 | 8        | -                     | -  | -          | 1     |    |  |
| 12:30:00 - 12:45:00                | -                        | 52 | 1  | -       | 12 | -  | -               | 3 | - | -           | -  | -            | -              | 6                         | -  | 9                   | -  | 1            | -   | -      | -                     | 112 | 12       | -                     | 4  | -          | 1     |    |  |
| 12:45:00 - 13:00:00                | -                        | 44 | -  | -       | 8  | -  | -               | - | - | -           | -  | -            | -              | 7                         | -  | 11                  | 1  | -            | -   | -      | -                     | 110 | 9        | -                     | -  | -          | 1     |    |  |
| 13:00:00 - 13:15:00                | -                        | 45 | 1  | -       | 8  | -  | -               | - | - | -           | -  | -            | -              | 5                         | -  | 7                   | -  | -            | -   | -      | -                     | 102 | 7        | -                     | 2  | -          | 1     |    |  |
| 13:15:00 - 13:30:00                | -                        | 37 | 2  | -       | 6  | -  | -               | 2 | - | -           | -  | -            | -              | 4                         | -  | 6                   | -  | 1            | -   | -      | -                     | 109 | 5        | -                     | -  | -          | 1     |    |  |
| 13:30:00 - 13:45:00                | -                        | 35 | -  | -       | 7  | 2  | -               | 2 | - | -           | -  | -            | -              | 3                         | -  | 5                   | 1  | -            | -   | -      | -                     | 114 | 6        | -                     | -  | -          | 1     |    |  |
| 13:45:00 - 14:00:00                | -                        | 37 | 1  | -       | 9  | 2  | -               | 3 | - | -           | -  | -            | -              | 5                         | -  | 4                   | -  | 2            | -   | -      | -                     | 95  | 3        | -                     | -  | -          | 1     |    |  |
| 14:00:00 - 14:15:00                | -                        | 49 | 2  | -       | 9  | 1  | -               | 1 | - | -           | -  | -            | -              | 3                         | -  | 5                   | 1  | -            | 1   | 1      | -                     | 90  | 4        | -                     | -  | 1          | 1     |    |  |
| 14:15:00 - 14:30:00                | -                        | 40 | 1  | -       | 11 | -  | -               | 2 | - | -           | -  | -            | -              | 4                         | -  | 5                   | 1  | -            | -   | -      | -                     | 92  | 6        | -                     | 1  | -          | 1     |    |  |
| 14:30:00 - 14:45:00                | -                        | 41 | -  | -       | 5  | -  | -               | - | - | -           | -  | -            | -              | 5                         | -  | 3                   | -  | 1            | -   | -      | -                     | 95  | 3        | -                     | -  | -          | 1     |    |  |
| 14:45:00 - 15:00:00                | -                        | 49 | -  | -       | 9  | -  | -               | - | - | -           | -  | -            | -              | 4                         | -  | 4                   | -  | -            | -   | -      | -                     | 109 | 6        | -                     | -  | -          | 3     |    |  |
| 15:00:00 - 15:15:00                | -                        | 58 | 1  | -       | 9  | 3  | -               | 3 | - | -           | -  | -            | -              | 4                         | -  | 2                   | -  | 1            | -   | -      | -                     | 131 | 6        | -                     | 1  | -          | 3     |    |  |
| 15:15:00 - 15:30:00                | -                        | 57 | 1  | -       | 12 | 2  | -               | - | - | -           | -  | -            | -              | 5                         | -  | 7                   | 1  | -            | -   | -      | -                     | 120 | 11       | -                     | -  | 2          | 2     |    |  |
| 15:30:00 - 15:45:00                | -                        | 41 | -  | -       | 5  | 1  | -               | 2 | - | -           | -  | -            | -              | 3                         | -  | 9                   | -  | -            | -   | -      | -                     | 104 | 8        | -                     | -  | -          | 3     |    |  |
| 15:45:00 - 16:00:00                | -                        | 76 | -  | -       | 8  | -  | -               | 1 | - | -           | -  | -            | -              | 1                         | -  | 7                   | 1  | -            | 3   | -      | -                     | 120 | 12       | -                     | 1  | -          | 1     |    |  |
| 16:00:00 - 16:15:00                | -                        | 42 | 2  | -       | 7  | -  | -               | 5 | - | -           | -  | -            | -              | 7                         | -  | 8                   | -  | 1            | -   | -      | -                     | 164 | 14       | -                     | -  | -          | 1     |    |  |
| 16:15:00 - 16:30:00                | -                        | 38 | -  | -       | 12 | -  | -               | 3 | - | -           | -  | -            | -              | 5                         | -  | 4                   | 1  | -            | -   | -      | -                     | 139 | 15       | -                     | 1  | -          | 1     |    |  |
| 16:30:00 - 16:45:00                | -                        | 45 | 1  | -       | 7  | 1  | -               | 1 | - | -           | -  | -            | -              | 4                         | -  | 8                   | -  | 1            | -   | -      | -                     | 128 | 8        | -                     | -  | -          | 1     |    |  |
| 16:45:00 - 17:00:00                | -                        | 53 | 2  | -       | 5  | 16 | -               | 4 | - | -           | -  | -            | -              | 4                         | -  | 7                   | 1  | -            | 2   | -      | -                     | 154 | 13       | -                     | -  | -          | 1     |    |  |
| 17:00:00 - 17:15:00                | -                        | 41 | -  | -       | 7  | -  | -               | - | - | -           | -  | -            | -              | 2                         | -  | 5                   | -  | -            | -   | -      | -                     | 118 | 7        | -                     | -  | -          | 1     |    |  |
| 17:15:00 - 17:30:00                | -                        | 37 | -  | -       | 8  | 3  | -               | 1 | - | -           | -  | -            | -              | 2                         | -  | 7                   | -  | 1            | -   | -      | -                     | 100 | 5        | -                     | -  | -          | 1     |    |  |
| 17:30:00 - 17:45:00                | -                        | 36 | 1  | -       | 9  | 1  | -               | 3 | - | -           | -  | -            | -              | 3                         | -  | 3                   | 2  | -            | 1   | 1      | -                     | 95  | 4        | -                     | -  | 1          | 1     |    |  |
| 17:45:00 - 18:00:00                | -                        | 39 | 5  | -       | 7  | 3  | -               | 2 | - | -           | -  | -            | -              | 1                         | -  | 6                   | 1  | -            | -   | -      | -                     | 90  | 6        | -                     | 1  | -          | 2     |    |  |
| 18:00:00 - 18:15:00                | -                        | 45 | -  | -       | 11 | -  | -               | - | - | -           | -  | -            | -              | 1                         | -  | 5                   | -  | 2            | -   | -      | -                     | 93  | 3        | -                     | -  | -          | 1     |    |  |
| 18:15:00 - 18:30:00                | -                        | 42 | -  | -       | 14 | -  | -               | - | - | -           | -  | -            | -              | 2                         | -  | 5                   | -  | 2            | -   | -      | -                     | 80  | 4        | -                     | -  | -          | 1     |    |  |
| 18:30:00 - 18:45:00                | -                        | 40 | 12 | -       | 6  | -  | -               | 1 | - | -           | -  | -            | -              | 2                         | -  | 12                  | 1  | -            | 3   | -      | -                     | 82  | 3        | -                     | -  | -          | 1     |    |  |
| 18:45:00 - 19:00:00                | -                        | 33 | 1  | -       | 11 | -  | -               | - | - | -           | -  | -            | -              | 2                         | -  | 5                   | -  | 2            | -   | -      | -                     | 94  | 13       | -                     | 1  | -          | 1     |    |  |
| 19:00:00 - 19:15:00                | -                        | 54 | 2  | -       | 7  | -  | -               | 3 | - | -           | -  | -            | -              | 1                         | -  | 11                  | -  | 3            | -   | -      | -                     | 75  | 6        | -                     | -  | -          | 1     |    |  |
| 19:15:00 - 19:30:00                | -                        | 53 | 1  | -       | 2  | -  | -               | 2 | - | -           | -  | -            | -              | 2                         | -  | 3                   | -  | 1            | -   | -      | -                     | 66  | 9        | -                     | -  | -          | 1     |    |  |
| 19:30:00 - 19:45:00                | -                        | 30 | 1  | -       | 4  | 1  | -               | - | - | -           | -  | -            | -              | 1                         | -  | 3                   |    |              |     |        |                       |     |          |                       |    |            |       |    |  |

**SURVAI VOLUME LALU LINTAS PERGERAKAN MEMBELOK**

| WAKTU<br>SURVAI<br>( 15 menit-an ) | LIGHT VEHICLES<br>( LV ) |   |    |         |   |   |                 |   |   |             |    |    | HEAVY VEHICLES |    |    |                           |    |    |                     |    |    |              |    |    | MOTORCYCLES<br>( MC ) |    |    | UNMOTORISED<br>( UM ) |    |   | CUACA |  |  |
|------------------------------------|--------------------------|---|----|---------|---|---|-----------------|---|---|-------------|----|----|----------------|----|----|---------------------------|----|----|---------------------|----|----|--------------|----|----|-----------------------|----|----|-----------------------|----|---|-------|--|--|
|                                    | Mobil/Sedan<br>Carry/Van |   |    | Pick-Up |   |   | Microlet/<br>AU |   |   | Bus<br>Kota |    |    | Bus<br>Besar   |    |    | Truk Sedang<br>Bus Sedang |    |    | Gandeng/<br>Trailer |    |    | Sepeda Motor |    |    | Sepeda                |    |    | 1. Cerah              |    |   |       |  |  |
|                                    | =                        | ↑ | =  | =       | ↑ | = | =               | ↑ | = | =           | ↑  | =  | =              | ↑  | =  | =                         | ↑  | =  | =                   | ↑  | =  | =            | ↑  | =  | =                     | ↑  | =  | =                     | ↑  | = | =     |  |  |
|                                    | 1                        | 2 | 3  | 4       | 5 | 6 | 7               | 8 | 9 | 10          | 11 | 12 | 13             | 14 | 15 | 16                        | 17 | 18 | 19                  | 20 | 21 | 22           | 23 | 24 | 25                    | 26 | 27 | 28                    | 29 |   |       |  |  |
| 6:00:00 - 6:15:00                  | 3                        | - | 5  | 2       | - | 3 | -               | - | - | -           | -  | -  | -              | -  | -  | -                         | -  | -  | -                   | -  | -  | -            | -  | -  | -                     | -  | -  | -                     | -  | - | 1     |  |  |
| 6:15:00 - 6:30:00                  | 2                        | - | 4  | 3       | - | 3 | -               | - | 2 | -           | -  | -  | -              | -  | -  | 1                         | -  | 1  | -                   | -  | -  | -            | -  | -  | -                     | -  | -  | -                     | -  | - | 1     |  |  |
| 6:30:00 - 6:45:00                  | 4                        | - | 5  | 3       | - | 2 | -               | - | 1 | -           | -  | -  | -              | -  | -  | 1                         | -  | 1  | -                   | -  | -  | -            | -  | 31 | -                     | 33 | 5  | -                     | 2  | 1 |       |  |  |
| 6:45:00 - 7:00:00                  | 2                        | 4 | 1  | -       | 1 | - | -               | - | - | -           | -  | -  | -              | -  | -  | -                         | -  | -  | -                   | -  | -  | -            | -  | -  | -                     | -  | -  | -                     | -  | 1 |       |  |  |
| 7:00:00 - 7:15:00                  | 2                        | - | 3  | 1       | - | 1 | -               | - | 2 | -           | -  | -  | -              | -  | -  | 2                         | -  | 2  | -                   | -  | 1  | 14           | -  | 34 | 2                     | -  | -  | 1                     |    |   |       |  |  |
| 7:15:00 - 7:30:00                  | 2                        | - | 2  | 2       | - | 1 | -               | - | 1 | -           | -  | -  | -              | -  | -  | -                         | -  | -  | -                   | -  | -  | -            | -  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 7:30:00 - 7:45:00                  | 1                        | - | 8  | -       | - | 1 | -               | - | 1 | -           | -  | -  | -              | -  | -  | -                         | -  | -  | -                   | -  | -  | -            | -  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 7:45:00 - 8:00:00                  | 2                        | - | 2  | 1       | - | 2 | -               | - | 2 | -           | -  | -  | -              | -  | -  | -                         | -  | -  | -                   | -  | -  | -            | -  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 8:00:00 - 8:15:00                  | 1                        | - | 8  | 1       | - | 2 | -               | - | 5 | -           | -  | -  | -              | -  | -  | -                         | -  | -  | -                   | -  | -  | -            | -  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 8:15:00 - 8:30:00                  | 1                        | - | 7  | -       | - | 1 | -               | - | - | -           | -  | -  | -              | -  | -  | -                         | -  | -  | -                   | -  | -  | -            | -  | -  | -                     | -  | -  | 1                     |    |   |       |  |  |
| 8:30:00 - 8:45:00                  | 2                        | - | 6  | -       | - | - | -               | - | 1 | -           | -  | -  | -              | -  | -  | 1                         | -  | 3  | -                   | -  | -  | -            | -  | -  | -                     | -  | -  | 3                     | 1  |   |       |  |  |
| 8:45:00 - 9:00:00                  | 2                        | - | 4  | 1       | - | 1 | -               | - | - | -           | -  | -  | -              | -  | -  | -                         | -  | -  | -                   | -  | -  | -            | -  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 9:00:00 - 9:15:00                  | 1                        | - | 4  | -       | - | - | -               | - | - | -           | -  | -  | -              | -  | -  | -                         | -  | -  | -                   | -  | -  | -            | -  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 9:15:00 - 9:30:00                  | 2                        | - | 5  | 2       | - | 1 | -               | - | - | -           | -  | -  | -              | -  | -  | 1                         | -  | -  | -                   | -  | -  | -            | -  | -  | -                     | -  | -  | 2                     | 1  |   |       |  |  |
| 9:30:00 - 9:45:00                  | 2                        | 6 | 2  | -       | - | - | -               | - | 2 | -           | -  | -  | -              | -  | -  | 2                         | -  | -  | -                   | -  | -  | -            | -  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 9:45:00 - 10:00:00                 | 1                        | - | 4  | 1       | - | 2 | -               | - | 1 | -           | -  | -  | -              | -  | -  | 2                         | -  | -  | 7                   | -  | -  | -            | -  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 10:00:00 - 10:15:00                | 3                        | - | 7  | 2       | - | 1 | -               | - | 1 | -           | -  | -  | -              | -  | -  | 1                         | -  | 1  | -                   | -  | -  | -            | -  | -  | -                     | -  | -  | 1                     |    |   |       |  |  |
| 10:15:00 - 10:30:00                | 2                        | - | 4  | -       | - | 1 | -               | - | 2 | -           | -  | -  | -              | -  | -  | -                         | -  | -  | 2                   | -  | -  | -            | -  | -  | -                     | -  | -  | 2                     |    |   |       |  |  |
| 10:30:00 - 10:45:00                | 3                        | - | 3  | 1       | - | - | -               | - | - | -           | -  | -  | -              | -  | -  | 1                         | -  | -  | 6                   | -  | -  | -            | -  | -  | -                     | -  | -  | 1                     |    |   |       |  |  |
| 10:45:00 - 11:00:00                | 3                        | - | 6  | -       | - | - | -               | - | - | -           | -  | -  | -              | -  | -  | 1                         | -  | -  | 3                   | -  | -  | -            | -  | -  | -                     | -  | -  | 1                     |    |   |       |  |  |
| 11:00:00 - 11:15:00                | 4                        | - | 8  | 1       | - | 2 | -               | - | 1 | -           | -  | -  | -              | -  | -  | 1                         | -  | -  | 9                   | -  | -  | -            | -  | -  | -                     | -  | -  | 4                     |    |   |       |  |  |
| 11:15:00 - 11:30:00                | 2                        | - | 9  | 2       | - | - | -               | 1 | - | 2           | -  | -  | -              | -  | -  | 2                         | -  | 1  | -                   | 1  | 8  | -            | 50 | -  | -                     | 1  | -  | 1                     |    |   |       |  |  |
| 11:30:00 - 11:45:00                | 3                        | - | 9  | 1       | - | 3 | -               | - | - | -           | -  | -  | -              | -  | -  | 1                         | -  | 2  | -                   | 1  | 8  | -            | 68 | -  | -                     | 2  | -  | 1                     |    |   |       |  |  |
| 11:45:00 - 12:00:00                | 2                        | - | 5  | -       | - | 2 | -               | - | 1 | -           | -  | -  | -              | -  | -  | 1                         | -  | 1  | -                   | -  | -  | -            | -  | -  | -                     | -  | -  | 1                     |    |   |       |  |  |
| 12:00:00 - 12:15:00                | 2                        | - | 11 | 2       | - | 5 | -               | - | 2 | -           | -  | -  | -              | -  | -  | 6                         | -  | -  | 17                  | -  | -  | -            | -  | -  | -                     | -  | -  | 1                     |    |   |       |  |  |
| 12:15:00 - 12:30:00                | 3                        | - | 8  | 2       | - | 5 | -               | - | - | -           | -  | -  | -              | -  | -  | 1                         | -  | 3  | -                   | -  | -  | -            | -  | -  | -                     | -  | -  | 1                     |    |   |       |  |  |
| 12:30:00 - 12:45:00                | 1                        | - | 4  | 2       | - | 3 | -               | - | - | -           | -  | -  | -              | -  | -  | 2                         | -  | 3  | -                   | -  | -  | -            | -  | -  | -                     | -  | -  | 1                     |    |   |       |  |  |
| 12:45:00 - 13:00:00                | 3                        | - | 7  | -       | - | - | -               | 1 | - | -           | -  | -  | -              | -  | -  | 1                         | -  | 1  | -                   | -  | -  | -            | -  | -  | -                     | -  | -  | 1                     |    |   |       |  |  |
| 13:00:00 - 13:15:00                | 2                        | - | 5  | -       | - | 2 | -               | - | 1 | -           | -  | -  | -              | -  | -  | 1                         | -  | 1  | -                   | -  | -  | -            | -  | -  | -                     | -  | -  | 1                     |    |   |       |  |  |
| 13:15:00 - 13:30:00                | 2                        | - | 4  | 1       | - | 1 | -               | - | - | -           | -  | -  | -              | -  | -  | 1                         | -  | -  | 14                  | -  | -  | -            | -  | -  | -                     | -  | -  | 1                     |    |   |       |  |  |
| 13:30:00 - 13:45:00                | 1                        | - | 2  | 3       | - | 3 | -               | - | - | -           | -  | -  | -              | -  | -  | 1                         | -  | -  | 7                   | -  | -  | -            | -  | -  | -                     | -  | -  | 1                     |    |   |       |  |  |
| 13:45:00 - 14:00:00                | 1                        | - | 3  | -       | - | - | -               | 1 | - | -           | -  | -  | -              | -  | -  | 2                         | -  | 2  | -                   | -  | -  | -            | -  | -  | -                     | -  | -  | 1                     |    |   |       |  |  |
| 14:00:00 - 14:15:00                | 2                        | - | 6  | 1       | - | - | -               | 2 | - | -           | -  | -  | -              | -  | -  | 2                         | -  | -  | 8                   | -  | -  | -            | -  | -  | -                     | -  | -  | 1                     |    |   |       |  |  |
| 14:15:00 - 14:30:00                | 3                        | - | 2  | -       | 2 | - | -               | - | - | -           | -  | -  | -              | -  | -  | 1                         | -  | -  | 12                  | -  | -  | -            | -  | -  | -                     | -  | -  | 1                     |    |   |       |  |  |
| 14:30:00 - 14:45:00                | 2                        | - | 3  | -       | 1 | - | -               | - | - | -           | -  | -  | -              | -  | -  | 2                         | -  | 1  | -                   | 17 | -  | -            | -  | -  | -                     | -  | -  | 1                     |    |   |       |  |  |
| 14:45:00 - 15:00:00                | 1                        | - | 2  | -       | - | - | -               | - | - | -           | -  | -  | -              | -  | -  | 2                         | -  | -  | 22                  | -  | -  | -            | -  | -  | -                     | -  | -  | 3                     |    |   |       |  |  |
| 15:00:00 - 15:15:00                | 1                        | - | 4  | 1       | - | 1 | -               | - | - | -           | -  | -  | -              | -  | -  | 1                         | -  | 1  | -                   | 31 | -  | -            | -  | -  | -                     | -  | -  | 3                     |    |   |       |  |  |
| 15:15:00 - 15:30:00                | 2                        | - | 8  | 3       | - | 2 | -               | - | - | -           | -  | -  | -              | -  | -  | 1                         | -  | -  | 15                  | -  | -  | -            | -  | -  | -                     | -  | -  | 2                     |    |   |       |  |  |
| 15:30:00 - 15:45:00                | -                        | - | 9  | 1       | - | 2 | -               | - | 1 | -           | -  | -  | -              | -  | -  | 4                         | -  | 4  | -                   | -  | 31 | -            | 58 | -  | -                     | 1  | 3  |                       |    |   |       |  |  |
| 15:45:00 - 16:00:00                | -                        | - | 7  | -       | - | 4 | -               | - | - | -           | -  | -  | -              | -  | -  | 4                         | -  | -  | 30                  | -  | 84 | 1            | -  | -  | 1                     |    |    |                       |    |   |       |  |  |
| 16:00:00 - 16:15:00                | -                        | - | 8  | -       | - | 1 | -               | - | - | -           | -  | -  | -              | -  | -  | 1                         | -  | -  | 26                  | -  | 76 | -            | -  | -  | 1                     |    |    |                       |    |   |       |  |  |
| 16:15:00 - 16:30:00                | 1                        | - | 11 | 1       | - | 5 | -               | - | - | -           | -  | -  | -              | -  | -  | 1                         | -  | -  | 27                  | -  | 92 | -            | -  | -  | 1                     |    |    |                       |    |   |       |  |  |
| 16:30:00 - 16:45:00                | 1                        | - | 6  | 1       | - | 2 | -               | - | - | -           | -  | -  | -              | -  | -  | 3                         | -  | -  | 17                  | -  | 64 | -            | -  | -  | 1                     |    |    |                       |    |   |       |  |  |
| 16:45:00 - 17:00:00                | 3                        | - | 4  | 2       | - | 2 | -               | - | - | -           | -  | -  | -              | -  | -  | 2                         | -  | -  | 25                  | -  | 54 | -            | -  | 2  | 1                     |    |    |                       |    |   |       |  |  |
| 17:00:00 - 17:15:00                | 5                        | - | -  | -       | - | - | -               | - | - | -           | -  | -  | -              | -  | -  | 1                         | -  | -  | 19                  | -  | 41 | -            | -  | -  | 1                     |    |    |                       |    |   |       |  |  |
| 17:15:00 - 17:30:00                | 1                        | - | 3  | 2       | - | 1 | -               | - | - | -           | -  | -  | -              | -  | -  | 2                         | -  | -  | 13                  | -  | 43 | -            | -  | -  | 1                     |    |    |                       |    |   |       |  |  |
| 17:30:00 - 17:45:00                | 1                        | - | 6  | 1       | - | 1 | -               | - | - | -           | -  | -  | -              | -  | -  | 1                         | -  | -  | 12                  | -  | 30 | -            | -  | 1  | 1                     |    |    |                       |    |   |       |  |  |
| 17:45:00 - 18:00:00                | 1                        | - | 5  | -       | - | 2 | -               | - | 1 | -           | -  | -  | -              | -  | -  | 1                         | -  | -  | 7                   | -  | 34 | 1            | -  | -  | 2                     |    |    |                       |    |   |       |  |  |
| 18:00:00 - 18:15:00                | -                        | - | 2  | 1       | - | 2 | -               | - | - | -           | -  | -  | -              | -  | -  | 1                         | -  | -  | 13                  | -  | 38 | -            | -  | -  | 1                     |    |    |                       |    |   |       |  |  |
| 18:15:00 - 18:30:00                | -                        | - | 4  | -       | - | 5 | -               | - | - | -           | -  | -  | -              | -  | -  | 1                         | -  | -  | 18                  | -  | 31 | -            | -  | -  | 1                     |    |    |                       |    |   |       |  |  |
| 18:30:00 - 18:45:00                | -                        | - | 8  | -       | - | 1 | -               | - | - | -           | -  | -  | -              | -  | -  | 1                         | -  | -  | 21                  | -  | 39 | 1            | -  | 1  | 1                     |    |    |                       |    |   |       |  |  |
| 18:45:00 - 19:00:00                | 1                        | - | 7  | -       | - | 1 | -               | - | - | -           | -  | -  | -              | -  | -  | 1                         | -  | -  | 13                  | -  | 39 | -            | -  | -  | 1                     |    |    |                       |    |   |       |  |  |
| 19:00:00 - 19:15:00                | 1                        | - | 5  | -       | - | 2 | -               | - | - | -           | -  | -  | -              | -  | -  | 1                         | -  | -  | 5                   | -  | 28 | -            | -  | -  | 1                     |    |    |                       |    |   |       |  |  |
| 19:15:00 - 19:30:00                | -                        | - | 13 | -       | - | 3 | -               | - | - | -           | -  | -  | -              | -  | -  | 2                         | -  | -  | 12                  | -  | 35 | -            | -  | -  | 1                     |    |    |                       |    |   |       |  |  |
| 19:30:00 - 19:45:00                | 1                        | - | 3  | -       | - | 2 | -               | - | 1 | -           | -  | -  | -              | -  | -  | 1                         | -  | -  | 13                  | -  | 37 | -            | -  | -  | 1                     |    |    |                       |    |   |       |  |  |
| 19:45:00 - 20:00:00                | -                        | - | 11 | -       |   |   |                 |   |   |             |    |    |                |    |    |                           |    |    |                     |    |    |              |    |    |                       |    |    |                       |    |   |       |  |  |

**SURVAI VOLUME LALU LINTAS PERGERAKAN MEMBELOK**

| WAKTU<br>SURVAI<br>( 15 menit-an ) | LIGHT VEHICLES<br>( LV ) |    |   |         |    |   |                 |   |   |             |    |    | HEAVY VEHICLES |    |    |                           |    |    |                     |     |     |              |    |    | MOTORCYCLES<br>( MC ) |    |    | UNMOTORISED<br>( UM ) |    |   | CUACA |  |  |
|------------------------------------|--------------------------|----|---|---------|----|---|-----------------|---|---|-------------|----|----|----------------|----|----|---------------------------|----|----|---------------------|-----|-----|--------------|----|----|-----------------------|----|----|-----------------------|----|---|-------|--|--|
|                                    | Mobil/Sedan<br>Carry/Van |    |   | Pick-Up |    |   | Microlet/<br>AU |   |   | Bus<br>Kota |    |    | Bus<br>Besar   |    |    | Truk Sedang<br>Bus Sedang |    |    | Gandeng/<br>Trailer |     |     | Sepeda Motor |    |    | Sepeda                |    |    | 1. Cerah              |    |   |       |  |  |
|                                    | =                        | ↑  | = | =       | ↑  | = | =               | ↑ | = | =           | ↑  | =  | =              | ↑  | =  | =                         | ↑  | =  | =                   | ↑   | =   | =            | ↑  | =  | =                     | ↑  | =  | =                     | ↑  | = |       |  |  |
|                                    | 1                        | 2  | 3 | 4       | 5  | 6 | 7               | 8 | 9 | 10          | 11 | 12 | 13             | 14 | 15 | 16                        | 17 | 18 | 19                  | 20  | 21  | 22           | 23 | 24 | 25                    | 26 | 27 | 28                    | 29 |   |       |  |  |
| 6:00:00 - 6:15:00                  | 3                        | 12 | - | 3       | 6  | - | 1               | 2 | - | -           | -  | 4  | -              | 3  | 7  | -                         | -  | -  | -                   | 45  | 151 | -            | 2  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 6:15:00 - 6:30:00                  | 1                        | 9  | - | 3       | 4  | - | 2               | - | - | -           | -  | 2  | -              | 2  | 5  | -                         | -  | 2  | -                   | 39  | 212 | -            | 3  | 2  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 6:30:00 - 6:45:00                  | 4                        | 18 | - | 4       | 7  | - | 2               | 1 | - | -           | -  | 3  | -              | 3  | 7  | -                         | -  | 1  | -                   | 50  | 311 | -            | 2  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 6:45:00 - 7:00:00                  | 4                        | 22 | - | 5       | 3  | - | 3               | - | - | -           | -  | 3  | -              | 4  | 8  | -                         | -  | -  | -                   | 46  | 299 | -            | 1  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 7:00:00 - 7:15:00                  | 1                        | 20 | - | 6       | 5  | - | 4               | 4 | - | -           | -  | 4  | -              | 2  | 9  | -                         | -  | 1  | -                   | 43  | 286 | -            | 1  | 1  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 7:15:00 - 7:30:00                  | 3                        | 33 | - | 5       | 5  | - | 1               | 5 | - | -           | -  | 2  | -              | 1  | 4  | -                         | -  | 1  | -                   | 32  | 247 | -            | 1  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 7:30:00 - 7:45:00                  | 7                        | 51 | - | 4       | 15 | - | 1               | 6 | - | -           | -  | 7  | -              | 9  | -  | -                         | -  | 1  | -                   | 36  | 234 | -            | 1  | 2  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 7:45:00 - 8:00:00                  | 6                        | 38 | - | 6       | 1  | 4 | -               | - | - | -           | -  | 3  | -              | 3  | 7  | -                         | -  | 1  | -                   | 51  | 225 | -            | 1  | 2  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 8:00:00 - 8:15:00                  | 8                        | 44 | - | 1       | 7  | - | 1               | 3 | - | -           | -  | 3  | -              | 1  | 4  | -                         | -  | -  | -                   | 65  | 220 | -            | -  | 2  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 8:15:00 - 8:30:00                  | 5                        | 37 | - | 3       | 5  | - | 1               | 3 | - | -           | -  | 1  | -              | 2  | 1  | -                         | -  | 1  | -                   | 61  | 187 | -            | -  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 8:30:00 - 8:45:00                  | 9                        | 41 | - | 2       | 11 | - | 1               | 1 | - | -           | -  | 5  | -              | 1  | 7  | -                         | -  | 2  | -                   | 62  | 151 | -            | -  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 8:45:00 - 9:00:00                  | 5                        | 31 | - | 2       | 8  | - | -               | - | - | -           | -  | 4  | -              | 3  | -  | -                         | -  | -  | -                   | 46  | 139 | -            | -  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 9:00:00 - 9:15:00                  | 5                        | 28 | - | 2       | 7  | - | 1               | 2 | - | -           | -  | 3  | -              | 2  | 5  | -                         | -  | 1  | -                   | 45  | 132 | -            | -  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 9:15:00 - 9:30:00                  | 7                        | 25 | - | 3       | 7  | - | 1               | 2 | - | -           | -  | 2  | -              | 3  | 3  | -                         | -  | 2  | -                   | 46  | 118 | -            | 1  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 9:30:00 - 9:45:00                  | 8                        | 26 | - | 2       | 8  | - | 1               | 3 | - | -           | -  | 3  | -              | 4  | -  | -                         | -  | 1  | -                   | 42  | 130 | 3            | 1  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 9:45:00 - 10:00:00                 | 7                        | 28 | - | 2       | 9  | - | 1               | 1 | - | -           | -  | 2  | -              | 1  | 5  | -                         | -  | -  | -                   | 32  | 120 | 1            | 2  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 10:00:00 - 10:15:00                | 7                        | 23 | - | 3       | 7  | - | 1               | 1 | - | -           | -  | 1  | -              | 2  | 4  | -                         | -  | 1  | -                   | 33  | 116 | 1            | 1  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 10:15:00 - 10:30:00                | 6                        | 26 | - | 2       | 7  | - | 1               | 2 | - | -           | -  | 2  | -              | 6  | -  | -                         | -  | 2  | -                   | 32  | 107 | -            | 1  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 10:30:00 - 10:45:00                | 6                        | 28 | - | 2       | 7  | - | -               | - | - | -           | -  | 2  | -              | 1  | 5  | -                         | -  | -  | -                   | 31  | 102 | -            | -  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 10:45:00 - 11:00:00                | 7                        | 32 | - | 2       | 6  | - | 2               | - | - | -           | -  | 1  | -              | 2  | 4  | -                         | -  | 1  | -                   | 31  | 122 | -            | -  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 11:00:00 - 11:15:00                | 9                        | 49 | - | 4       | 14 | - | 5               | - | - | -           | -  | 1  | -              | 8  | -  | -                         | -  | 1  | -                   | 39  | 123 | -            | -  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 11:15:00 - 11:30:00                | 3                        | 55 | - | 2       | 5  | - | 5               | - | - | -           | -  | 2  | -              | 7  | -  | -                         | -  | 44 | 165                 | -   | 1   | -            | -  | -  | -                     | -  | -  | 1                     |    |   |       |  |  |
| 11:30:00 - 11:45:00                | 5                        | 54 | - | 7       | 13 | - | 3               | - | - | -           | -  | 5  | -              | 9  | -  | -                         | -  | 49 | 119                 | -   | -   | -            | -  | -  | -                     | -  | 1  |                       |    |   |       |  |  |
| 11:45:00 - 12:00:00                | 9                        | 87 | - | 5       | 21 | - | 1               | 2 | - | -           | -  | 5  | -              | 3  | 24 | -                         | -  | 2  | -                   | 73  | 176 | -            | -  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 12:00:00 - 12:15:00                | 3                        | 53 | - | 7       | 1  | 4 | -               | - | - | -           | -  | 3  | -              | 4  | 21 | -                         | -  | 1  | -                   | 88  | 146 | -            | -  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 12:15:00 - 12:30:00                | 9                        | 69 | - | 3       | 14 | - | 4               | - | - | -           | -  | 7  | -              | 3  | 6  | -                         | -  | 57 | 116                 | -   | -   | -            | -  | -  | -                     | -  | 1  |                       |    |   |       |  |  |
| 12:30:00 - 12:45:00                | 8                        | 70 | - | 1       | 8  | - | 1               | 2 | - | -           | -  | 1  | -              | 19 | -  | -                         | -  | 1  | -                   | 42  | 127 | -            | 1  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 12:45:00 - 13:00:00                | 8                        | 52 | - | 3       | 11 | - | 2               | - | - | -           | -  | 6  | -              | 2  | 13 | -                         | -  | 44 | 122                 | -   | -   | -            | -  | -  | -                     | -  | 1  |                       |    |   |       |  |  |
| 13:00:00 - 13:15:00                | 7                        | 37 | - | 2       | 7  | - | -               | - | - | -           | -  | 2  | -              | 7  | -  | -                         | -  | 1  | -                   | 30  | 106 | -            | 2  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 13:15:00 - 13:30:00                | 5                        | 37 | - | 3       | 5  | - | 1               | - | - | -           | -  | 1  | -              | 1  | 5  | -                         | -  | -  | -                   | 28  | 102 | -            | -  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 13:30:00 - 13:45:00                | 5                        | 34 | - | 3       | 6  | - | 1               | 2 | - | -           | -  | 3  | -              | 2  | 4  | -                         | -  | 1  | -                   | 27  | 101 | -            | 3  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 13:45:00 - 14:00:00                | 5                        | 33 | - | 2       | 7  | - | 1               | 2 | - | -           | -  | 4  | -              | 2  | 3  | -                         | -  | 2  | -                   | 27  | 101 | -            | 1  | 1  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 14:00:00 - 14:15:00                | 6                        | 32 | - | 2       | 8  | - | 2               | 1 | - | -           | -  | 2  | -              | 2  | 4  | -                         | -  | 2  | -                   | 27  | 102 | -            | -  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 14:15:00 - 14:30:00                | 5                        | 31 | - | 2       | 4  | - | 1               | 1 | - | -           | -  | 2  | -              | 2  | 7  | -                         | -  | 2  | -                   | 32  | 95  | 1            | -  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 14:30:00 - 14:45:00                | 6                        | 35 | - | 4       | 4  | - | -               | - | - | -           | -  | 3  | -              | 2  | 2  | -                         | -  | 1  | -                   | 41  | 94  | -            | 1  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 14:45:00 - 15:00:00                | 5                        | 32 | - | 1       | 3  | - | 1               | - | - | -           | -  | 1  | -              | 4  | -  | -                         | -  | 44 | 93                  | -   | -   | -            | 3  | -  | -                     | -  | 1  |                       |    |   |       |  |  |
| 15:00:00 - 15:15:00                | 8                        | 39 | - | 2       | 7  | - | 2               | - | - | -           | -  | 3  | -              | 5  | -  | -                         | -  | 2  | -                   | 52  | 98  | -            | -  | -  | -                     | -  | -  | -                     | 3  |   |       |  |  |
| 15:15:00 - 15:30:00                | 14                       | 68 | - | 1       | 17 | - | 2               | 1 | - | -           | -  | 2  | -              | 2  | 7  | -                         | -  | 4  | -                   | 53  | 145 | -            | -  | -  | -                     | -  | -  | -                     | 2  |   |       |  |  |
| 15:30:00 - 15:45:00                | 19                       | 83 | - | 3       | 8  | - | 1               | 2 | - | -           | -  | 4  | -              | 6  | 6  | -                         | -  | 2  | -                   | 73  | 151 | 1            | -  | -  | 3                     | -  | -  | -                     | 1  |   |       |  |  |
| 15:45:00 - 16:00:00                | 11                       | 46 | - | 1       | 11 | - | 1               | 2 | - | -           | -  | 4  | -              | 1  | 7  | -                         | -  | 1  | -                   | 61  | 156 | -            | -  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 16:00:00 - 16:15:00                | 8                        | 42 | - | 1       | 6  | - | 1               | - | - | -           | -  | 3  | -              | 11 | -  | -                         | -  | 2  | -                   | 68  | 165 | -            | 1  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 16:15:00 - 16:30:00                | 18                       | 72 | - | 2       | 14 | - | 1               | 2 | - | -           | -  | 11 | -              | 1  | 9  | -                         | -  | 4  | -                   | 60  | 159 | -            | -  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 16:30:00 - 16:45:00                | 14                       | ## | - | 4       | 12 | - | 2               | - | - | -           | -  | 7  | -              | 2  | 11 | -                         | -  | 1  | -                   | 59  | 157 | -            | -  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 16:45:00 - 17:00:00                | 3                        | 44 | - | 2       | 4  | - | 5               | - | - | -           | -  | 3  | -              | 8  | -  | -                         | -  | 4  | -                   | 43  | 115 | -            | -  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 17:00:00 - 17:15:00                | 5                        | 36 | - | 1       | 4  | - | -               | - | - | -           | -  | 2  | -              | 6  | -  | -                         | -  | 1  | -                   | 33  | 95  | 1            | -  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 17:15:00 - 17:30:00                | 5                        | 39 | - | 3       | 6  | - | 1               | - | - | -           | -  | 3  | -              | 2  | 5  | -                         | -  | 2  | -                   | 33  | 91  | -            | 1  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 17:30:00 - 17:45:00                | 6                        | 39 | - | 1       | 5  | - | 1               | - | - | -           | -  | 2  | -              | 2  | 5  | -                         | -  | 2  | -                   | 24  | 85  | -            | -  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 17:45:00 - 18:00:00                | 5                        | 40 | - | 2       | 3  | - | 1               | - | - | -           | -  | 1  | -              | 1  | 4  | -                         | -  | 2  | -                   | 26  | 92  | -            | 1  | -  | 2                     | -  | -  | -                     | 1  |   |       |  |  |
| 18:00:00 - 18:15:00                | 4                        | 42 | - | 2       | 5  | - | -               | - | - | -           | -  | 3  | -              | 3  | -  | -                         | -  | 1  | -                   | 28  | 102 | -            | -  | -  | -                     | -  | -  | -                     | 1  |   |       |  |  |
| 18:15:00 - 18:30:00                | 7                        | 41 | - | 1       | 6  | - | -               | - | - | -           | -  | 1  | -              | 5  | -  | -                         | -  | 33 | -                   | 121 | -   | -            | -  | -  | -                     | -  | -  | 1                     |    |   |       |  |  |
| 18:30:00 - 18:45:00                | 8                        | 63 | - | 1       | 5  | - | 2               | - | - | -           | -  | 2  | -              | 1  | 8  | -                         | -  | 2  | -                   | 41  | 141 | -</          |    |    |                       |    |    |                       |    |   |       |  |  |

**SURVAI VOLUME LALU LINTAS PERGERAKAN MEMBELOK**

| WAKTU<br>SURVAI<br>( 15 menit-an ) | LIGHT VEHICLES<br>( LV ) |          |   |         |    |   |                 |    |   |             |    |              | HEAVY VEHICLES |                           |    |                     |    |              |    |        |     |          | MOTORCYCLES<br>( MC ) |            |    |            | UNMOTORISED<br>( UM ) |          |    |   | CUACA |  |  |  |
|------------------------------------|--------------------------|----------|---|---------|----|---|-----------------|----|---|-------------|----|--------------|----------------|---------------------------|----|---------------------|----|--------------|----|--------|-----|----------|-----------------------|------------|----|------------|-----------------------|----------|----|---|-------|--|--|--|
|                                    | Mobil/Sedan<br>Carry/Van |          |   | Pick-Up |    |   | Microlet/<br>AU |    |   | Bus<br>Kota |    | Bus<br>Besar |                | Truk Sedang<br>Bus Sedang |    | Gandeng/<br>Trailer |    | Sepeda Motor |    | Sepeda |     | 1. Cerah |                       | 2. Gerimis |    | 3. Mendung |                       | 4. Hujan |    |   |       |  |  |  |
|                                    | ≤                        | ↑        | ≥ | ≤       | ↑  | ≥ | ≤               | ↑  | ≥ | ≤           | ↑  | ≥            | ≤              | ↑                         | ≥  | ≤                   | ↑  | ≥            | ≤  | ↑      | ≥   | ≤        | ↑                     | ≥          | ≤  | ↑          | ≥                     |          |    |   |       |  |  |  |
|                                    | 1                        | 2        | 3 | 4       | 5  | 6 | 7               | 8  | 9 | 10          | 11 | 12           | 13             | 14                        | 15 | 16                  | 17 | 18           | 19 | 20     | 21  | 22       | 23                    | 24         | 25 | 26         | 27                    | 28       | 29 |   |       |  |  |  |
| 6:00:00                            | -                        | 6:15:00  | - | -       | 18 | - | -               | 2  | - | -           | 1  | -            | -              | 2                         | -  | 1                   | -  | -            | 59 | -      | -   | 2        | -                     | -          | 1  | -          | -                     | 1        |    |   |       |  |  |  |
| 6:15:00                            | -                        | 6:30:00  | - | -       | 21 | - | -               | 2  | - | -           | 1  | -            | -              | 2                         | -  | 1                   | -  | -            | -  | -      | 62  | -        | -                     | 2          | -  | -          | 1                     | -        | -  | 1 |       |  |  |  |
| 6:30:00                            | -                        | 6:45:00  | - | -       | 26 | - | -               | 3  | - | -           | 1  | -            | -              | 2                         | -  | 2                   | -  | -            | -  | -      | 63  | 1        | -                     | -          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 6:45:00                            | -                        | 7:00:00  | - | -       | 32 | - | -               | 5  | - | -           | 1  | -            | -              | 2                         | -  | 2                   | -  | -            | -  | -      | 84  | 2        | -                     | 1          | -  | -          | 1                     | -        | -  | 1 |       |  |  |  |
| 7:00:00                            | -                        | 7:15:00  | - | -       | 30 | - | -               | 4  | - | -           | 1  | -            | -              | 4                         | -  | 2                   | -  | 1            | -  | -      | 82  | -        | -                     | -          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 7:15:00                            | -                        | 7:30:00  | - | -       | 28 | - | -               | 8  | - | -           | 1  | -            | -              | 5                         | -  | 3                   | -  | 1            | -  | -      | 100 | -        | -                     | -          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 7:30:00                            | -                        | 7:45:00  | - | -       | 35 | - | -               | 6  | - | -           | 1  | -            | -              | 3                         | -  | 3                   | -  | -            | -  | -      | 127 | -        | -                     | -          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 7:45:00                            | -                        | 8:00:00  | - | -       | 28 | - | -               | 6  | - | -           | 2  | -            | -              | 4                         | -  | 1                   | -  | -            | -  | -      | 95  | -        | -                     | -          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 8:00:00                            | -                        | 8:15:00  | - | -       | 21 | - | -               | 4  | - | -           | 3  | -            | -              | 3                         | -  | 1                   | -  | -            | -  | -      | 92  | -        | -                     | -          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 8:15:00                            | -                        | 8:30:00  | - | -       | 27 | - | -               | 4  | - | -           | 1  | -            | -              | 5                         | -  | 8                   | -  | -            | -  | -      | 104 | 3        | -                     | 1          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 8:30:00                            | -                        | 8:45:00  | - | -       | 24 | - | -               | 3  | - | -           | 2  | -            | -              | 2                         | -  | 1                   | -  | -            | -  | -      | 91  | -        | -                     | -          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 8:45:00                            | -                        | 9:00:00  | - | -       | 30 | - | -               | 2  | - | -           | 2  | -            | -              | 3                         | -  | 1                   | -  | -            | -  | -      | 94  | -        | -                     | -          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 9:00:00                            | -                        | 9:15:00  | - | -       | 20 | - | -               | 1  | - | -           | 3  | -            | -              | 3                         | -  | 2                   | -  | 1            | -  | -      | 103 | -        | -                     | -          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 9:15:00                            | -                        | 9:30:00  | - | -       | 19 | - | -               | 4  | - | -           | 1  | -            | -              | 2                         | -  | 2                   | -  | -            | -  | -      | 83  | -        | -                     | -          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 9:30:00                            | -                        | 9:45:00  | - | -       | 15 | - | -               | 5  | - | -           | 3  | -            | -              | 2                         | -  | 3                   | -  | -            | -  | -      | 97  | -        | -                     | -          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 9:45:00                            | -                        | 10:00:00 | - | -       | 17 | - | -               | 6  | - | -           | 2  | -            | -              | 4                         | -  | 1                   | -  | -            | -  | -      | 92  | -        | -                     | 1          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 10:00:00                           | -                        | 10:15:00 | - | -       | 23 | - | -               | 3  | - | -           | 2  | -            | -              | 3                         | -  | 3                   | -  | 1            | -  | -      | 104 | -        | -                     | -          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 10:15:00                           | -                        | 10:30:00 | - | -       | 22 | - | -               | 4  | - | -           | 1  | -            | -              | 2                         | -  | 2                   | -  | -            | -  | -      | 117 | -        | -                     | -          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 10:30:00                           | -                        | 10:45:00 | - | -       | 26 | - | -               | 2  | - | -           | 1  | -            | -              | 1                         | -  | 2                   | -  | -            | -  | -      | 135 | -        | -                     | -          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 10:45:00                           | -                        | 11:00:00 | - | -       | 28 | - | -               | 3  | - | -           | 1  | -            | -              | 1                         | -  | 1                   | -  | -            | -  | -      | 141 | -        | -                     | -          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 11:00:00                           | -                        | 11:15:00 | - | -       | 32 | - | -               | 2  | - | -           | 2  | -            | -              | 1                         | -  | 2                   | -  | -            | -  | -      | 160 | -        | -                     | 4          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 11:15:00                           | -                        | 11:30:00 | - | -       | 36 | - | -               | 7  | - | -           | 1  | -            | -              | 5                         | -  | 4                   | -  | 12           | -  | -      | 122 | -        | -                     | 1          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 11:30:00                           | -                        | 11:45:00 | - | -       | 37 | - | -               | 11 | - | -           | 2  | -            | -              | 3                         | -  | 4                   | -  | -            | -  | -      | 133 | -        | -                     | -          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 11:45:00                           | -                        | 12:00:00 | - | -       | 40 | - | -               | 15 | - | -           | 1  | -            | -              | 4                         | -  | 4                   | -  | 2            | -  | -      | 120 | -        | -                     | -          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 12:00:00                           | -                        | 12:15:00 | - | -       | 24 | - | -               | 7  | - | -           | 1  | -            | -              | 5                         | -  | 2                   | -  | 1            | -  | -      | 121 | -        | -                     | 1          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 12:15:00                           | -                        | 12:30:00 | - | -       | 47 | - | -               | 3  | - | -           | 2  | -            | -              | 6                         | -  | 1                   | -  | 2            | -  | -      | 76  | -        | -                     | -          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 12:30:00                           | -                        | 12:45:00 | - | -       | 49 | - | -               | 2  | - | -           | 1  | -            | -              | 3                         | -  | 5                   | -  | 1            | -  | -      | 94  | -        | -                     | -          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 12:45:00                           | -                        | 13:00:00 | - | -       | 39 | - | -               | 7  | - | -           | 1  | -            | -              | 5                         | -  | 4                   | -  | 12           | -  | -      | 132 | -        | -                     | -          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 13:00:00                           | -                        | 13:15:00 | - | -       | 36 | - | -               | 6  | - | -           | 2  | -            | -              | 2                         | -  | 4                   | -  | -            | -  | -      | 128 | -        | -                     | -          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 13:15:00                           | -                        | 13:30:00 | - | -       | 26 | - | -               | 8  | - | -           | 2  | -            | -              | 3                         | -  | 1                   | -  | -            | -  | -      | 120 | -        | -                     | -          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 13:30:00                           | -                        | 13:45:00 | - | -       | 39 | - | -               | 7  | - | -           | 1  | -            | -              | 3                         | -  | 1                   | -  | 1            | -  | -      | 126 | -        | -                     | 1          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 13:45:00                           | -                        | 14:00:00 | - | -       | 36 | - | -               | 4  | - | -           | 1  | -            | -              | 3                         | -  | 3                   | -  | -            | -  | -      | 118 | -        | -                     | -          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 14:00:00                           | -                        | 14:15:00 | - | -       | 31 | - | -               | 6  | - | -           | 2  | -            | -              | 2                         | -  | 2                   | -  | 1            | -  | -      | 128 | -        | -                     | -          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 14:15:00                           | -                        | 14:30:00 | - | -       | 33 | - | -               | 4  | - | -           | 1  | -            | -              | 1                         | -  | 4                   | -  | 1            | -  | -      | 122 | -        | -                     | -          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 14:30:00                           | -                        | 14:45:00 | - | -       | 35 | - | -               | 5  | - | -           | 2  | -            | -              | 1                         | -  | 1                   | -  | 1            | -  | -      | 131 | -        | -                     | -          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 14:45:00                           | -                        | 15:00:00 | - | -       | 39 | - | -               | 6  | - | -           | 1  | -            | -              | 3                         | -  | 1                   | -  | 1            | -  | -      | 133 | -        | -                     | -          | -  | -          | -                     | 3        | -  | - | 3     |  |  |  |
| 15:00:00                           | -                        | 15:15:00 | - | -       | 47 | - | -               | 8  | - | -           | 1  | -            | -              | 4                         | -  | 1                   | -  | -            | -  | -      | 147 | 2        | -                     | 1          | -  | -          | -                     | 3        | -  | - | 3     |  |  |  |
| 15:15:00                           | -                        | 15:30:00 | - | -       | 37 | - | -               | 8  | - | -           | 3  | -            | -              | 4                         | -  | 4                   | -  | 4            | -  | -      | 126 | -        | -                     | -          | -  | -          | -                     | 2        | -  | - | 2     |  |  |  |
| 15:30:00                           | -                        | 15:45:00 | - | -       | 41 | - | -               | 11 | - | -           | 1  | -            | -              | 3                         | -  | 5                   | -  | 5            | -  | -      | 148 | -        | -                     | 3          | -  | -          | -                     | 3        | -  | - | 3     |  |  |  |
| 15:45:00                           | -                        | 16:00:00 | - | -       | 36 | - | -               | 7  | - | -           | 4  | -            | -              | 2                         | -  | 2                   | -  | 2            | -  | -      | 126 | -        | -                     | 3          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 16:00:00                           | -                        | 16:15:00 | - | -       | 32 | - | -               | 6  | - | -           | 1  | -            | -              | 2                         | -  | 3                   | -  | 1            | -  | -      | 148 | -        | -                     | 1          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 16:15:00                           | -                        | 16:30:00 | - | -       | 37 | - | -               | 3  | - | -           | 1  | -            | -              | 1                         | -  | 4                   | -  | 1            | -  | -      | 153 | -        | -                     | -          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 16:30:00                           | -                        | 16:45:00 | - | -       | 42 | - | -               | 5  | - | -           | 1  | -            | -              | 2                         | -  | 1                   | -  | 1            | -  | -      | 107 | -        | -                     | -          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 16:45:00                           | -                        | 17:00:00 | - | -       | 33 | - | -               | 6  | - | -           | 2  | -            | -              | 1                         | -  | 3                   | -  | 2            | -  | -      | 132 | -        | -                     | 1          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 17:00:00                           | -                        | 17:15:00 | - | -       | 30 | - | -               | 6  | - | -           | 3  | -            | -              | 2                         | -  | 2                   | -  | -            | -  | -      | 118 | -        | -                     | -          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 17:15:00                           | -                        | 17:30:00 | - | -       | 27 | - | -               | 4  | - | -           | 1  | -            | -              | 3                         | -  | 3                   | -  | -            | -  | -      | 115 | -        | -                     | -          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 17:30:00                           | -                        | 17:45:00 | - | -       | 25 | - | -               | 5  | - | -           | 1  | -            | -              | 3                         | -  | 2                   | -  | 1            | -  | -      | 101 | -        | -                     | -          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 17:45:00                           | -                        | 18:00:00 | - | -       | 24 | - | -               | 6  | - | -           | 1  | -            | -              | 2                         | -  | 1                   | -  | 1            | -  | -      | 94  | -        | -                     | 2          | -  | -          | -                     | 2        | -  | - | 2     |  |  |  |
| 18:00:00                           | -                        | 18:15:00 | - | -       | 28 | - | -               | 5  | - | -           | 1  | -            | -              | 1                         | -  | 2                   | -  | 2            | -  | -      | 110 | -        | -                     | -          | -  | -          | -                     | 1        | -  | - | 1     |  |  |  |
| 18:15:00                           | -                        | 18:30:00 | - | -       | 22 | - | -               | 4  | - | -           | 2  | -            | -              | 2                         | -  | 1                   | -  | 1            | -  | -</td  |     |          |                       |            |    |            |                       |          |    |   |       |  |  |  |

**SURVAI VOLUME LALU LINTAS PERGERAKAN MEMBELOK**

| WAKTU<br>SURVAI<br>( 15 menit-an ) | LIGHT VEHICLES<br>( LV ) |   |    |         |   |   |                 |   |   |             |    |              | HEAVY VEHICLES |                           |    |                     |    |              |    |        | MOTORCYCLES<br>( MC ) |          |    |            | UNMOTORISED<br>( UM ) |            |    |          | CUACA |   |   |  |
|------------------------------------|--------------------------|---|----|---------|---|---|-----------------|---|---|-------------|----|--------------|----------------|---------------------------|----|---------------------|----|--------------|----|--------|-----------------------|----------|----|------------|-----------------------|------------|----|----------|-------|---|---|--|
|                                    | Mobil/Sedan<br>Carry/Van |   |    | Pick-Up |   |   | Microlet/<br>AU |   |   | Bus<br>Kota |    | Bus<br>Besar |                | Truk Sedang<br>Bus Sedang |    | Gandeng/<br>Trailer |    | Sepeda Motor |    | Sepeda |                       | 1. Cerah |    | 2. Gerimis |                       | 3. Mendung |    | 4. Hujan |       |   |   |  |
|                                    | =                        | ↑ | =  | =       | ↑ | = | =               | ↑ | = | =           | ↑  | =            | =              | ↑                         | =  | =                   | ↑  | =            | =  | ↑      | =                     | =        | ↑  | =          | =                     | ↑          | =  | =        | ↑     | = |   |  |
|                                    | 1                        | 2 | 3  | 4       | 5 | 6 | 7               | 8 | 9 | 10          | 11 | 12           | 13             | 14                        | 15 | 16                  | 17 | 18           | 19 | 20     | 21                    | 22       | 23 | 24         | 25                    | 26         | 27 | 28       | 29    |   |   |  |
| 6:00:00 - 6:15:00                  | -                        | - | 13 | -       | - | 2 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 1  | -      | -                     | -        | -  | -          | -                     | -          | -  | -        | -     | 1 |   |  |
| 6:15:00 - 6:30:00                  | -                        | - | 15 | -       | - | 2 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 1  | -      | -                     | 2        | -  | -          | 24                    | -          | -  | -        | -     | 1 |   |  |
| 6:30:00 - 6:45:00                  | -                        | - | 16 | -       | - | 5 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 2  | -      | -                     | -        | -  | -          | -                     | -          | -  | -        | 1     |   |   |  |
| 6:45:00 - 7:00:00                  | -                        | - | 22 | -       | - | 4 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 7  | -      | -                     | 3        | -  | -          | 52                    | -          | -  | -        | -     | 1 |   |  |
| 7:00:00 - 7:15:00                  | -                        | - | 17 | -       | - | 5 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 3  | -      | -                     | 1        | -  | -          | 43                    | -          | -  | -        | -     | 1 |   |  |
| 7:15:00 - 7:30:00                  | -                        | - | 14 | -       | - | 3 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 13 | -      | -                     | -        | -  | -          | -                     | -          | -  | -        | 1     |   |   |  |
| 7:30:00 - 7:45:00                  | -                        | - | 21 | -       | - | 2 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 5  | -      | -                     | 2        | -  | -          | 34                    | -          | -  | -        | -     | 1 |   |  |
| 7:45:00 - 8:00:00                  | -                        | - | 11 | -       | - | 4 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 4  | -      | -                     | 1        | -  | -          | 36                    | -          | -  | -        | -     | 1 |   |  |
| 8:00:00 - 8:15:00                  | -                        | - | 26 | -       | - | 5 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 11 | -      | -                     | 3        | -  | -          | 44                    | -          | -  | -        | -     | 1 |   |  |
| 8:15:00 - 8:30:00                  | -                        | - | 14 | -       | - | 6 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 6  | -      | -                     | 1        | -  | -          | 34                    | 1          | -  | 1        | -     | 1 |   |  |
| 8:30:00 - 8:45:00                  | -                        | - | 18 | -       | - | 4 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 3  | -      | -                     | 3        | -  | -          | 28                    | -          | -  | -        | -     | 1 |   |  |
| 8:45:00 - 9:00:00                  | -                        | - | 16 | -       | - | 5 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 2  | -      | -                     | 3        | -  | -          | 30                    | -          | -  | -        | -     | 1 |   |  |
| 9:00:00 - 9:15:00                  | -                        | - | 17 | -       | - | 6 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 4  | -      | -                     | 2        | 1  | -          | 33                    | -          | -  | -        | -     | 1 |   |  |
| 9:15:00 - 9:30:00                  | -                        | - | 14 | -       | - | 3 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 5  | -      | -                     | 1        | -  | -          | 34                    | -          | -  | -        | -     | 1 |   |  |
| 9:30:00 - 9:45:00                  | -                        | - | 13 | -       | - | 6 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 3  | -      | -                     | 2        | -  | -          | 35                    | -          | -  | -        | -     | 1 |   |  |
| 9:45:00 - 10:00:00                 | -                        | - | 16 | -       | - | 5 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 2  | -      | -                     | 2        | -  | -          | 26                    | -          | -  | -        | -     | 1 |   |  |
| 10:00:00 - 10:15:00                | -                        | - | 17 | -       | - | 5 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 1  | -      | -                     | -        | -  | -          | -                     | -          | -  | -        | 1     |   |   |  |
| 10:15:00 - 10:30:00                | -                        | - | 18 | -       | - | 6 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 2  | -      | -                     | 3        | -  | -          | 27                    | -          | -  | -        | -     | 1 |   |  |
| 10:30:00 - 10:45:00                | -                        | - | 16 | -       | - | 7 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 3  | -      | -                     | -        | -  | -          | -                     | -          | -  | -        | 1     |   |   |  |
| 10:45:00 - 11:00:00                | -                        | - | 22 | -       | - | 3 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 4  | -      | -                     | 3        | 2  | -          | 32                    | -          | -  | -        | -     | 1 |   |  |
| 11:00:00 - 11:15:00                | -                        | - | 23 | -       | - | 3 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 1  | -      | -                     | 4        | -  | -          | 38                    | -          | -  | -        | -     | 1 |   |  |
| 11:15:00 - 11:30:00                | -                        | - | 28 | -       | - | 7 | -               | - | 1 | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 1  | -      | -                     | 2        | -  | -          | 36                    | -          | -  | -        | -     | 1 |   |  |
| 11:30:00 - 11:45:00                | -                        | - | 28 | -       | - | 4 | -               | - | 2 | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 1  | -      | -                     | 7        | -  | -          | 1                     | 1          | -  | 25       | -     | - | 1 |  |
| 11:45:00 - 12:00:00                | -                        | - | 22 | -       | - | 7 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 5  | -      | -                     | 2        | -  | -          | 27                    | -          | -  | -        | -     | 1 |   |  |
| 12:00:00 - 12:15:00                | -                        | - | 18 | -       | - | 3 | -               | - | 1 | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 2  | -      | -                     | -        | -  | -          | -                     | -          | -  | -        | 1     |   |   |  |
| 12:15:00 - 12:30:00                | -                        | - | 19 | -       | - | 3 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 4  | -      | -                     | 3        | -  | -          | 35                    | -          | -  | -        | -     | 1 |   |  |
| 12:30:00 - 12:45:00                | -                        | - | 17 | -       | - | 2 | -               | - | - | -           | -  | 1            | -              | -                         | -  | -                   | -  | -            | 6  | -      | -                     | 1        | 1  | -          | 40                    | -          | -  | -        | -     | 1 |   |  |
| 12:45:00 - 13:00:00                | -                        | - | 22 | -       | - | 4 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 5  | -      | -                     | 1        | -  | -          | 47                    | -          | -  | -        | -     | 1 |   |  |
| 13:00:00 - 13:15:00                | -                        | - | 16 | -       | - | 2 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 3  | -      | -                     | 2        | -  | -          | 39                    | -          | -  | -        | -     | 1 |   |  |
| 13:15:00 - 13:30:00                | -                        | - | 15 | -       | - | 4 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 4  | -      | -                     | 1        | -  | -          | 38                    | -          | -  | -        | -     | 1 |   |  |
| 13:30:00 - 13:45:00                | -                        | - | 18 | -       | - | 4 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 5  | -      | -                     | 1        | 3  | -          | 28                    | -          | -  | -        | -     | 1 |   |  |
| 13:45:00 - 14:00:00                | -                        | - | 17 | -       | - | 6 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 4  | -      | -                     | 3        | -  | -          | 37                    | -          | -  | -        | -     | 1 |   |  |
| 14:00:00 - 14:15:00                | -                        | - | 17 | -       | - | 7 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 3  | -      | -                     | -        | -  | -          | -                     | -          | -  | -        | 1     |   |   |  |
| 14:15:00 - 14:30:00                | -                        | - | 16 | -       | - | 4 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 5  | -      | -                     | 3        | 2  | -          | 37                    | -          | -  | -        | -     | 1 |   |  |
| 14:30:00 - 14:45:00                | -                        | - | 19 | -       | - | 3 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 4  | -      | -                     | 1        | -  | -          | 36                    | -          | -  | -        | -     | 1 |   |  |
| 14:45:00 - 15:00:00                | -                        | - | 14 | -       | - | 2 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 4  | -      | -                     | 3        | -  | -          | 32                    | -          | -  | -        | -     | 3 |   |  |
| 15:00:00 - 15:15:00                | -                        | - | 15 | -       | - | 4 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 2  | -      | -                     | 2        | -  | -          | 1                     | -          | -  | -        | -     | 3 |   |  |
| 15:15:00 - 15:30:00                | -                        | - | 30 | -       | - | 5 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 7  | -      | -                     | 1        | -  | -          | 45                    | -          | -  | -        | -     | 2 |   |  |
| 15:30:00 - 15:45:00                | -                        | - | 32 | -       | - | 6 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 3  | -      | -                     | -        | -  | -          | -                     | -          | -  | -        | 3     |   |   |  |
| 15:45:00 - 16:00:00                | -                        | - | 30 | -       | - | 3 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 5  | -      | -                     | 2        | -  | -          | 53                    | -          | -  | -        | -     | 1 |   |  |
| 16:00:00 - 16:15:00                | -                        | - | 14 | -       | - | 3 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 2  | -      | -                     | 3        | -  | -          | 41                    | -          | -  | -        | -     | 1 |   |  |
| 16:15:00 - 16:30:00                | -                        | - | 20 | -       | - | 4 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 1  | -      | -                     | 6        | -  | -          | 44                    | -          | -  | -        | -     | 1 |   |  |
| 16:30:00 - 16:45:00                | -                        | - | 24 | -       | - | 4 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 4  | -      | -                     | -        | -  | -          | -                     | -          | -  | -        | 1     |   |   |  |
| 16:45:00 - 17:00:00                | -                        | - | 21 | -       | - | 2 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 2  | -      | -                     | 2        | -  | -          | 38                    | -          | -  | -        | -     | 1 |   |  |
| 17:00:00 - 17:15:00                | -                        | - | 14 | -       | - | 2 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 2  | -      | -                     | -        | -  | -          | -                     | -          | -  | -        | 1     |   |   |  |
| 17:15:00 - 17:30:00                | -                        | - | 16 | -       | - | 3 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 1  | -      | -                     | 4        | -  | -          | 24                    | -          | -  | -        | -     | 1 |   |  |
| 17:30:00 - 17:45:00                | -                        | - | 17 | -       | - | 4 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 3  | -      | -                     | -        | -  | -          | -                     | -          | -  | -        | 1     |   |   |  |
| 17:45:00 - 18:00:00                | -                        | - | 20 | -       | - | 1 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 4  | -      | -                     | 1        | -  | -          | 20                    | -          | -  | -        | -     | 2 |   |  |
| 18:00:00 - 18:15:00                | -                        | - | 22 | -       | - | 5 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 3  | -      | -                     | 1        | -  | -          | 26                    | -          | -  | -        | -     | 1 |   |  |
| 18:15:00 - 18:30:00                | -                        | - | 23 | -       | - | 6 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 3  | -      | -                     | -        | -  | -          | -                     | -          | -  | -        | 1     |   |   |  |
| 18:30:00 - 18:45:00                | -                        | - | 21 | -       | - | 6 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 5  | -      | -                     | 2        | -  | -          | 13                    | -          | -  | -        | -     | 1 |   |  |
| 18:45:00 - 19:00:00                | -                        | - | 15 | -       | - | 3 | -               | - | - | -           | -  | -            | -              | -                         | -  | -                   | -  | -            | 4  | -      | -                     | 1        | -  | -          | 16                    | -          | -  |          |       |   |   |  |

**SURVAI VOLUME LALU LINTAS PERGERAKAN MEMBELOK**

| WAKTU<br>SURVAI<br>( 15 menit-an ) | Gambar       |          |    |    |               |    |    |   |            |    |    |    |    |    |    | Hari |         |    |    |    |          |     |     |     |    |    |    |    |    |    |   |   |
|------------------------------------|--------------|----------|----|----|---------------|----|----|---|------------|----|----|----|----|----|----|------|---------|----|----|----|----------|-----|-----|-----|----|----|----|----|----|----|---|---|
|                                    | Nama Simpang |          |    |    | Kedung Jajang |    |    |   | sketsa     |    |    |    | U  |    |    |      | Tanggal |    |    |    | Surveyor |     |     |     |    |    |    |    |    |    |   |   |
|                                    | Kota         |          |    |    | Lumajang      |    |    |   | ruas jalan |    |    |    | 3  |    |    |      |         |    |    |    |          |     |     |     |    |    |    |    |    |    |   |   |
|                                    | Ke Arah      | 1        | 2  | 3  | 4             | 5  | 6  | 7 | 8          | 9  | 10 | 11 | 12 | 13 | 14 | 15   | 16      | 17 | 18 | 19 | 20       | 21  | 22  | 23  | 24 | 25 | 26 | 27 | 28 | 29 |   |   |
| 1                                  | 2            | 3        | 4  | 5  | 6             | 7  | 8  | 9 | 10         | 11 | 12 | 13 | 14 | 15 | 16 | 17   | 18      | 19 | 20 | 21 | 22       | 23  | 24  | 25  | 26 | 27 | 28 | 29 |    |    |   |   |
| 6:00:00                            | -            | 6:15:00  | 9  | 12 | -             | 2  | 1  | - | 1          | -  | -  | -  | 1  | -  | 2  | 2    | -       | 1  | -  | -  | 22       | 153 | -   | -   | 1  | -  | -  | 1  |    |    |   |   |
| 6:15:00                            | -            | 6:30:00  | 12 | 15 | -             | 3  | 1  | - | 1          | 2  | -  | -  | -  | 1  | 1  | -    | 1       | 2  | -  | 1  | 1        | -   | 40  | 158 | -  | -  | 2  | -  | -  | 1  |   |   |
| 6:30:00                            | -            | 6:45:00  | 14 | 19 | -             | 4  | 3  | - | 1          | 1  | -  | -  | -  | 1  | -  | 3    | 2       | -  | 1  | -  | -        | 52  | 156 | -   | -  | 1  | 1  | -  | -  | 1  |   |   |
| 6:45:00                            | -            | 7:00:00  | 11 | 20 | -             | 3  | 8  | - | 1          | 2  | -  | -  | -  | 1  | -  | 4    | 4       | -  | 1  | -  | -        | 62  | 161 | -   | -  | -  | -  | -  | -  | 1  |   |   |
| 7:00:00                            | -            | 7:15:00  | 12 | 22 | -             | 3  | 11 | - | -          | -  | -  | -  | -  | 1  | -  | 4    | 3       | -  | 2  | -  | -        | 59  | 153 | -   | -  | -  | -  | -  | -  | 1  |   |   |
| 7:15:00                            | -            | 7:30:00  | 17 | 24 | -             | 3  | 3  | - | 1          | 3  | -  | -  | -  | 1  | 2  | -    | 8       | 3  | -  | 1  | -        | -   | 60  | 154 | -  | 1  | 3  | -  | -  | 1  |   |   |
| 7:30:00                            | -            | 7:45:00  | 22 | 19 | -             | 4  | 7  | - | 1          | 2  | -  | -  | -  | 1  | -  | 3    | 5       | -  | 1  | -  | -        | 63  | 179 | -   | -  | -  | -  | -  | -  | 1  |   |   |
| 7:45:00                            | -            | 8:00:00  | 17 | 26 | -             | 3  | 5  | - | 1          | 5  | -  | -  | -  | 3  | -  | 4    | 5       | -  | 1  | -  | -        | 55  | 132 | -   | -  | -  | -  | -  | -  | 1  |   |   |
| 8:00:00                            | -            | 8:15:00  | 16 | 26 | -             | 5  | 2  | - | 3          | -  | -  | -  | -  | 3  | -  | 3    | 6       | -  | 2  | -  | -        | 66  | 149 | -   | -  | -  | -  | -  | -  | 1  |   |   |
| 8:15:00                            | -            | 8:30:00  | 24 | 25 | -             | 4  | 5  | - | 2          | -  | -  | -  | -  | 2  | -  | 3    | 1       | -  | 1  | -  | -        | 62  | 153 | -   | -  | -  | -  | -  | -  | 1  |   |   |
| 8:30:00                            | -            | 8:45:00  | 20 | 22 | -             | 2  | 2  | - | -          | -  | -  | -  | -  | 1  | 3  | -    | 2       | 2  | -  | -  | -        | 59  | 143 | -   | -  | -  | -  | -  | -  | 1  |   |   |
| 8:45:00                            | -            | 9:00:00  | 22 | 24 | -             | 2  | 3  | - | 2          | -  | -  | -  | -  | 3  | -  | 1    | 2       | -  | 1  | -  | -        | 46  | 124 | -   | -  | -  | -  | -  | -  | 1  |   |   |
| 9:00:00                            | -            | 9:15:00  | 23 | 19 | -             | 4  | 3  | - | 1          | 3  | -  | -  | -  | 2  | -  | 3    | 4       | -  | 2  | -  | -        | 36  | 129 | -   | 1  | -  | -  | -  | -  | -  | 1 |   |
| 9:15:00                            | -            | 9:30:00  | 24 | 23 | -             | 3  | 4  | - | 2          | -  | -  | -  | -  | 3  | -  | 1    | 2       | -  | 1  | -  | -        | 59  | 131 | -   | -  | -  | -  | -  | -  | 1  |   |   |
| 9:30:00                            | -            | 9:45:00  | 25 | 22 | -             | 4  | 2  | - | 3          | -  | -  | -  | -  | 2  | 1  | -    | 2       | 3  | -  | 2  | -        | -   | 56  | 109 | -  | -  | 1  | -  | -  | -  | 1 |   |
| 9:45:00                            | -            | 10:00:00 | 27 | 18 | -             | 1  | 3  | - | 1          | 2  | -  | -  | -  | 1  | -  | 1    | 2       | -  | 1  | -  | -        | 57  | 119 | -   | 1  | -  | -  | -  | -  | -  | 1 |   |
| 10:00:00                           | -            | 10:15:00 | 24 | 20 | -             | 2  | 4  | - | -          | -  | -  | -  | -  | 2  | -  | 2    | 2       | -  | 1  | -  | -        | 35  | 133 | -   | -  | 1  | -  | -  | -  | 1  |   |   |
| 10:15:00                           | -            | 10:30:00 | 22 | 24 | -             | 3  | 5  | - | 1          | -  | -  | -  | -  | 1  | 2  | -    | 2       | 3  | -  | 2  | -        | -   | 36  | 130 | -  | -  | -  | -  | -  | -  | 1 |   |
| 10:30:00                           | -            | 10:45:00 | 21 | 22 | -             | 3  | 4  | - | -          | -  | -  | -  | -  | 2  | -  | 2    | 2       | -  | 1  | -  | -        | 50  | 126 | -   | -  | -  | -  | -  | -  | 1  |   |   |
| 10:45:00                           | -            | 11:00:00 | 17 | 27 | -             | 3  | 6  | - | 2          | -  | -  | -  | -  | 1  | -  | 2    | 3       | -  | 1  | -  | -        | 57  | 135 | -   | -  | -  | -  | -  | -  | 1  |   |   |
| 11:00:00                           | -            | 11:15:00 | 28 | 35 | -             | 5  | 7  | - | 1          | -  | -  | -  | -  | 2  | -  | 4    | 1       | -  | 3  | -  | -        | 62  | 138 | -   | -  | 1  | -  | -  | -  | 1  |   |   |
| 11:15:00                           | -            | 11:30:00 | 25 | 38 | -             | 4  | 4  | - | 1          | -  | -  | -  | -  | 1  | 1  | -    | 6       | 3  | -  | -  | -        | 65  | 107 | -   | 1  | -  | -  | -  | -  | -  | 1 |   |
| 11:30:00                           | -            | 11:45:00 | 27 | 34 | -             | 5  | 5  | - | 2          | -  | -  | -  | -  | 2  | -  | 2    | 4       | -  | 5  | 3  | -        | -   | 59  | 146 | -  | -  | -  | -  | -  | -  | 1 |   |
| 11:45:00                           | -            | 12:00:00 | 27 | 27 | -             | 8  | 7  | - | 1          | -  | -  | -  | -  | 3  | -  | 7    | 1       | -  | -  | -  | -        | 45  | 124 | -   | -  | -  | -  | -  | -  | 1  |   |   |
| 12:00:00                           | -            | 12:15:00 | 32 | 54 | -             | 3  | 12 | - | 2          | -  | -  | -  | -  | 5  | -  | 5    | 13      | -  | 1  | 1  | -        | 65  | 173 | -   | -  | 1  | -  | -  | -  | 1  |   |   |
| 12:15:00                           | -            | 12:30:00 | 28 | 35 | -             | 4  | 4  | - | 2          | -  | -  | -  | -  | 1  | 4  | -    | 6       | 5  | -  | -  | 44       | 116 | -   | -   | 1  | -  | -  | -  | 1  |    |   |   |
| 12:30:00                           | -            | 12:45:00 | 32 | 62 | -             | 11 | 7  | - | 1          | 3  | -  | -  | -  | 5  | -  | 6    | 7       | -  | 1  | -  | -        | 61  | 117 | -   | -  | -  | -  | -  | -  | 1  |   |   |
| 12:45:00                           | -            | 13:00:00 | 24 | 32 | -             | 6  | 3  | - | 2          | 1  | -  | -  | -  | 3  | -  | 9    | 1       | -  | -  | -  | -        | 59  | 131 | -   | -  | -  | -  | -  | -  | 1  |   |   |
| 13:00:00                           | -            | 13:15:00 | 22 | 37 | -             | 6  | 6  | - | -          | -  | -  | -  | -  | 2  | -  | 6    | 2       | -  | -  | -  | -        | 45  | 132 | -   | -  | -  | -  | -  | -  | 1  |   |   |
| 13:15:00                           | -            | 13:30:00 | 18 | 36 | -             | 1  | 4  | - | 1          | -  | -  | -  | -  | 3  | -  | 4    | 1       | -  | 1  | -  | -        | 42  | 120 | -   | 1  | -  | -  | -  | -  | -  | 1 |   |
| 13:30:00                           | -            | 13:45:00 | 26 | 36 | -             | 4  | 3  | - | 2          | -  | -  | -  | -  | 4  | -  | 3    | 1       | -  | 1  | -  | -        | 42  | 127 | -   | -  | 1  | -  | -  | -  | 1  |   |   |
| 13:45:00                           | -            | 14:00:00 | 24 | 34 | -             | 2  | 4  | - | 1          | -  | -  | -  | -  | 2  | -  | 4    | 2       | -  | 2  | 1  | -        | 43  | 118 | -   | -  | -  | -  | -  | -  | 1  |   |   |
| 14:00:00                           | -            | 14:15:00 | 25 | 28 | -             | 3  | 5  | - | 1          | -  | -  | -  | -  | 1  | 1  | -    | 5       | 1  | -  | 2  | -        | -   | 37  | 114 | -  | 1  | -  | -  | -  | -  | - | 1 |
| 14:15:00                           | -            | 14:30:00 | 26 | 37 | -             | 4  | 6  | - | 1          | -  | -  | -  | -  | 3  | -  | 3    | 2       | -  | -  | -  | -        | 37  | 118 | -   | 1  | -  | -  | -  | -  | -  | 1 |   |
| 14:30:00                           | -            | 14:45:00 | 27 | 36 | -             | 6  | 7  | - | -          | -  | -  | -  | -  | 1  | 3  | -    | 6       | 1  | -  | 2  | -        | -   | 35  | 113 | -  | -  | -  | -  | -  | -  | 1 |   |
| 14:45:00                           | -            | 15:00:00 | 25 | 31 | -             | 6  | 7  | - | -          | -  | -  | -  | -  | 2  | -  | 5    | 3       | -  | -  | -  | -        | 40  | 122 | -   | -  | 3  | -  | -  | -  | 1  |   |   |
| 15:00:00                           | -            | 15:15:00 | 19 | 41 | -             | 11 | 6  | - | 2          | -  | -  | -  | -  | 4  | -  | 12   | 7       | -  | 3  | 1  | -        | -   | 38  | 117 | -  | 1  | -  | -  | -  | -  | - | 3 |
| 15:15:00                           | -            | 15:30:00 | 24 | 34 | -             | 7  | 6  | - | 1          | -  | -  | -  | -  | 2  | 2  | -    | 4       | 1  | -  | 1  | -        | -   | 60  | 121 | -  | -  | -  | -  | -  | -  | 2 |   |
| 15:30:00                           | -            | 15:45:00 | 30 | 66 | -             | 4  | 12 | - | 1          | 1  | -  | -  | -  | 2  | 3  | -    | 3       | 4  | -  | 3  | -        | -   | 70  | 157 | -  | -  | -  | -  | -  | -  | 3 |   |
| 15:45:00                           | -            | 16:00:00 | 32 | 43 | -             | 2  | 6  | - | 1          | 2  | -  | -  | -  | 4  | -  | 3    | 3       | -  | 1  | -  | -        | 45  | 123 | -   | -  | -  | -  | -  | -  | 1  |   |   |
| 16:00:00                           | -            | 16:15:00 | 27 | 36 | -             | 4  | 7  | - | -          | -  | -  | -  | -  | 3  | -  | 2    | 1       | -  | 1  | -  | -        | 93  | 160 | -   | -  | -  | -  | -  | -  | 1  |   |   |
| 16:15:00                           | -            | 16:30:00 | 28 | 35 | -             | 4  | 6  | - | 1          | -  | -  | -  | -  | 2  | -  | 5    | 2       | -  | 1  | -  | -        | 78  | 157 | -   | -  | 1  | -  | -  | -  | 1  |   |   |
| 16:30:00                           | -            | 16:45:00 | 32 | 47 | -             | 3  | 7  | - | -          | -  | -  | -  | -  | 1  | 3  | -    | 8       | 3  | -  | 1  | -        | -   | 79  | 149 | -  | 1  | -  | -  | -  | -  | - | 1 |
| 16:45:00                           | -            | 17:00:00 | 33 | 55 | -             | 6  | 4  | - | 1          | -  | -  | -  | -  | 1  | 3  | -    | 9       | 4  | -  | 1  | -        | -   | 75  | 148 | -  | -  | -  | -  | -  | -  | 1 |   |
| 17:00:00                           | -            | 17:15:00 | 28 | 47 | -             | 3  | 5  | - | 1          | -  | -  | -  | -  | 2  | -  | 5    | 1       | -  | -  | -  | -        | 69  | 143 | -   | -  | -  | -  | -  | -  | 1  |   |   |
| 17:15:00                           | -            | 17:30:00 | 38 | 36 | -             | 2  | 4  | - | 2          | -  | -  | -  | -  | 2  | -  | 3    | 2       | -  | 2  | -  | -        | 58  | 131 | -   | 1  | 2  | -  | -  | -  | -  | 1 |   |
| 17:30:00                           | -            | 17:45:00 | 33 | 43 | -             | 5  | 3  | - | 1          | -  | -  | -  | -  | 3  | -  | 3    | 2       | -  | 1  | 1  | -        | 71  | 124 | -   | -  | -  | -  | -  | -  | 1  |   |   |
| 17:45:00                           | -            | 18:00:00 | 34 | 38 | -             | 3  | 5  | - | -          | -  | -  | -  | -  | 3  | -  | 2    | 1       | -  | 1  | -  | -        | 57  | 129 | -   | -  | -  | -  | -  | -  | 2  |   |   |
| 18:00:00                           | -            | 18:15:00 | 36 | 36 | -             | 5  | 2  | - | 1          | -  | -  | -  | -  | 1  | 3  | -    | 2       | 3  | -  | -  | -        | 34  | 141 | -   | -  | 1  | -  | -  | -  | 1  |   |   |
| 18:15:00                           | -            | 18:30:00 | 22 | 41 | -             | 6  | 6  | - | 2          | -  | -  | -  | -  | 2  | -  | 3    | 1       | -  | 2  | -  | -        | 46  | 135 | -   | -  | -  | -  | -  |    |    |   |   |

#### **SURVAI VOLUME LALU LINTAS PERGERAKAN MEMBELOK**

|              |          |
|--------------|----------|
| Nama Simpang | Wonorejo |
| Kota         | Lumajang |
| Dari Arah    | Kota     |
| Ke Arah      |          |

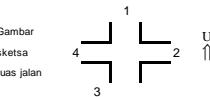
The diagram shows a sketch of a road junction. It consists of three segments meeting at a central point. Segment 1 is the vertical segment on the right. Segment 2 is the horizontal segment extending from the top of segment 1 to the left. Segment 3 is the horizontal segment extending from the bottom of segment 1 to the left. The segments are drawn with thick black lines.

Hari :  
Tanggal :  
Surveyor :

| WAKTU<br>SURVAI<br>( 15 menit-an ) | LIGHT VEHICLES<br>( LV ) |          |   |         |    |   |                 |   |    |    | HEAVY VEHICLES |    |              |    |                           |    |                     |    |              |    | MOTORCYCLES<br>( MC ) |     |        |     | UNMOTORISED<br>( UM ) |    |    |    | CUACA<br>1. Cerah<br>2. Gerimis<br>3. Mendung<br>4. Hujan |   |   |   |
|------------------------------------|--------------------------|----------|---|---------|----|---|-----------------|---|----|----|----------------|----|--------------|----|---------------------------|----|---------------------|----|--------------|----|-----------------------|-----|--------|-----|-----------------------|----|----|----|---|---|---|---|
|                                    | Mobil/Sedan<br>Carry/Van |          |   | Pick-Up |    |   | Microlet/<br>AU |   |    |    | Bus<br>Kota    |    | Bus<br>Besar |    | Truk Sedang<br>Bus Sedang |    | Gandeng/<br>Trailer |    | Sepeda Motor |    |                       |     | Sepeda |     |                       |    |    |    |   |   |   |   |
|                                    | =                        | ↑        | ⇒ | =       | ↑  | ⇒ | =               | ↑ | ⇒  | =  | =              | ↑  | ⇒            | =  | ↑                         | ⇒  | =                   | ↑  | ⇒            | =  | ↑                     | ⇒   | =      | ↑   | ⇒                     | =  |    |    |   |   |   |   |
|                                    | 2                        | 3        | 4 | 5       | 6  | 7 | 8               | 9 | 10 | 11 | 12             | 13 | 14           | 15 | 16                        | 17 | 18                  | 19 | 20           | 21 | 22                    | 23  | 24     | 25  | 26                    | 27 | 28 | 29 |   |   |   |   |
| 6:00:00                            | -                        | 6:15:00  | - | 20      | 5  | - | 3               | 2 | -  | 2  | -              | -  | -            | -  | 5                         | 2  | -                   | -  | 71           | 15 | -                     | 5   | 2      | -   | -                     | -  | -  | -  | -   |   |   |   |
| 6:15:00                            | -                        | 6:30:00  | - | 28      | 8  | - | 3               | 4 | -  | 2  | -              | -  | -            | -  | 1                         | 1  | -                   | 8  | 4            | -  | -                     | 114 | 22     | -   | 4                     | 1  | -  | -  | -   | - |   |   |
| 6:30:00                            | -                        | 6:45:00  | - | 37      | 13 | - | 6               | 5 | -  | 3  | 1              | -  | -            | -  | 2                         | -  | 9                   | 3  | -            | 2  | -                     | 152 | 34     | -   | 2                     | 1  | -  | -  | -   | - |   |   |
| 6:45:00                            | -                        | 7:00:00  | - | 38      | 12 | - | 5               | 4 | -  | 3  | -              | -  | -            | -  | 3                         | -  | 12                  | 2  | -            | -  | -                     | 154 | 35     | -   | 4                     | 2  | -  | -  | -   | - |   |   |
| 7:00:00                            | -                        | 7:15:00  | - | 27      | 7  | - | 2               | 3 | -  | 1  | -              | -  | -            | -  | 2                         | -  | 8                   | 2  | -            | -  | -                     | 149 | 28     | -   | 7                     | -  | -  | -  | -   | - |   |   |
| 7:15:00                            | -                        | 7:30:00  | - | 31      | 7  | - | 3               | 2 | 1  | -  | -              | -  | -            | -  | 3                         | 2  | -                   | 12 | 5            | -  | -                     | -   | 134    | 39  | -                     | 3  | 3  | -  | -   | - | - |   |
| 7:30:00                            | -                        | 7:45:00  | - | 30      | 6  | - | 2               | 1 | -  | 3  | -              | -  | -            | -  | 2                         | -  | 2                   | 2  | -            | -  | -                     | 148 | 43     | -   | 2                     | 2  | -  | -  | -   | - |   |   |
| 7:45:00                            | -                        | 8:00:00  | - | 26      | 8  | - | 4               | 1 | -  | 1  | 1              | -  | -            | -  | 2                         | -  | 6                   | 1  | -            | 1  | -                     | 138 | 27     | -   | 5                     | 1  | -  | -  | -   | - |   |   |
| 8:00:00                            | -                        | 8:15:00  | - | 26      | 3  | - | 4               | 1 | -  | 3  | 1              | -  | -            | -  | 2                         | -  | 8                   | 3  | -            | 2  | -                     | 161 | 37     | -   | 1                     | 1  | -  | -  | -   | - |   |   |
| 8:15:00                            | -                        | 8:30:00  | - | 31      | 11 | - | 9               | 1 | -  | 1  | 1              | -  | -            | -  | 1                         | -  | 7                   | 3  | -            | -  | -                     | 162 | 44     | -   | 1                     | -  | -  | -  | -   | - |   |   |
| 8:30:00                            | -                        | 8:45:00  | - | 64      | 9  | - | 11              | 1 | -  | 3  | -              | -  | -            | -  | 3                         | -  | 9                   | 1  | -            | -  | -                     | 173 | 56     | -   | 1                     | 1  | -  | -  | -   | - |   |   |
| 8:45:00                            | -                        | 9:00:00  | - | 26      | 9  | - | 5               | 3 | -  | 1  | 1              | -  | -            | -  | 1                         | 1  | -                   | 7  | 3            | -  | -                     | -   | 145    | 59  | -                     | 1  | 2  | -  | -   | - | - |   |
| 9:00:00                            | -                        | 9:15:00  | - | 25      | 7  | - | 3               | 3 | -  | 1  | 1              | -  | -            | -  | 2                         | -  | 4                   | 1  | -            | -  | -                     | 135 | 45     | -   | 1                     | 1  | -  | -  | -   | - |   |   |
| 9:15:00                            | -                        | 9:30:00  | - | 32      | 6  | - | 4               | 1 | -  | 1  | 1              | -  | -            | -  | 1                         | -  | 5                   | 2  | -            | 1  | -                     | 132 | 40     | -   | 2                     | 1  | -  | -  | -   | - |   |   |
| 9:30:00                            | -                        | 9:45:00  | - | 26      | 5  | - | 2               | 1 | -  | 2  | -              | -  | -            | -  | 2                         | -  | 6                   | 1  | -            | -  | -                     | 138 | 36     | -   | 3                     | 1  | -  | -  | -   | - |   |   |
| 9:45:00                            | -                        | 10:00:00 | - | 23      | 9  | - | 2               | - | 2  | -  | -              | -  | -            | -  | 2                         | -  | 7                   | 1  | -            | -  | -                     | 145 | 31     | -   | 1                     | 2  | -  | -  | -   | - |   |   |
| 10:00:00                           | -                        | 10:15:00 | - | 20      | 3  | - | 3               | 2 | -  | 1  | 1              | -  | -            | -  | 1                         | 1  | -                   | 4  | 2            | -  | 1                     | -   | 134    | 27  | -                     | 1  | -  | -  | -   | - | - |   |
| 10:15:00                           | -                        | 10:30:00 | - | 18      | 5  | - | 4               | 1 | -  | 1  | 1              | -  | -            | -  | -                         | -  | 5                   | 2  | -            | -  | -                     | 146 | 34     | -   | 2                     | 1  | -  | -  | -   | - |   |   |
| 10:30:00                           | -                        | 10:45:00 | - | 25      | 8  | - | 2               | - | 3  | -  | -              | -  | -            | -  | 1                         | -  | 6                   | 1  | -            | -  | -                     | 131 | 33     | -   | 1                     | 3  | -  | -  | -   | - |   |   |
| 10:45:00                           | -                        | 11:00:00 | - | 33      | 6  | - | 1               | - | 1  | 1  | -              | -  | -            | -  | -                         | -  | 5                   | 2  | -            | 1  | -                     | 153 | 41     | -   | 1                     | -  | -  | -  | -   | - |   |   |
| 11:00:00                           | -                        | 11:15:00 | - | 40      | 11 | - | 4               | 2 | -  | 2  | 1              | -  | -            | -  | -                         | -  | 5                   | 4  | -            | -  | -                     | 210 | 55     | -   | 4                     | -  | -  | -  | -   | - |   |   |
| 11:15:00                           | -                        | 11:30:00 | - | 21      | 5  | - | 5               | - | 3  | -  | -              | -  | -            | -  | 1                         | -  | 7                   | 1  | -            | 1  | -                     | 140 | 45     | -   | 2                     | 1  | -  | -  | -   | - |   |   |
| 11:30:00                           | -                        | 11:45:00 | - | 38      | 13 | - | 7               | 8 | -  | 3  | -              | -  | -            | -  | -                         | -  | 9                   | 1  | -            | 3  | -                     | 143 | 36     | -   | 1                     | 3  | -  | -  | -   | - |   |   |
| 11:45:00                           | -                        | 12:00:00 | - | 33      | 16 | - | 11              | 2 | -  | 4  | -              | -  | -            | -  | -                         | 2  | -                   | 6  | 1            | -  | -                     | -   | 136    | 56  | -                     | 1  | 1  | -  | -   | - | - |   |
| 12:00:00                           | -                        | 12:15:00 | - | 25      | 7  | - | 4               | 2 | -  | 3  | 1              | -  | -            | -  | -                         | -  | 1                   | 1  | -            | 5  | -                     | -   | -      | 161 | 54                    | -  | 2  | -  | -   | - | - |   |
| 12:15:00                           | -                        | 12:30:00 | - | 31      | 15 | - | 3               | 1 | -  | 5  | -              | -  | -            | -  | -                         | 2  | -                   | 6  | 2            | -  | -                     | -   | 154    | 40  | -                     | 2  | 3  | -  | -   | - | - |   |
| 12:30:00                           | -                        | 12:45:00 | - | 28      | 15 | - | 3               | - | 3  | -  | -              | -  | -            | -  | -                         | -  | 2                   | -  | 1            | -  | -                     | -   | 149    | 46  | -                     | 4  | 3  | -  | -   | - | - |   |
| 12:45:00                           | -                        | 13:00:00 | - | 23      | 11 | - | 4               | 2 | -  | -  | -              | -  | -            | -  | -                         | -  | 1                   | -  | 5            | -  | -                     | -   | 127    | 21  | -                     | 1  | 1  | -  | -   | - | - |   |
| 13:00:00                           | -                        | 13:15:00 | - | 22      | 9  | - | 3               | 1 | -  | 1  | 1              | -  | -            | -  | -                         | -  | 3                   | -  | 1            | -  | -                     | -   | 122    | 31  | -                     | 2  | -  | -  | -   | - | - |   |
| 13:15:00                           | -                        | 13:30:00 | - | 25      | 12 | - | 3               | - | 3  | -  | -              | -  | -            | -  | -                         | 1  | -                   | 4  | 3            | -  | -                     | -   | 115    | 35  | -                     | 1  | 1  | -  | -   | - | - |   |
| 13:30:00                           | -                        | 13:45:00 | - | 20      | 13 | - | 2               | 3 | -  | 2  | 1              | -  | -            | -  | -                         | -  | 5                   | -  | 1            | -  | -                     | -   | 130    | 38  | -                     | 3  | 2  | -  | -   | - | - |   |
| 13:45:00                           | -                        | 14:00:00 | - | 17      | 8  | - | 2               | 1 | -  | 2  | -              | -  | -            | -  | -                         | 1  | 1                   | -  | 2            | 1  | -                     | -   | -      | 120 | 33                    | -  | 1  | 1  | -   | - | - | - |
| 14:00:00                           | -                        | 14:15:00 | - | 22      | 11 | - | 5               | 2 | -  | 1  | 1              | -  | -            | -  | -                         | 2  | -                   | 5  | 2            | -  | -                     | -   | 127    | 37  | -                     | 1  | -  | -  | -   | - | - |   |
| 14:15:00                           | -                        | 14:30:00 | - | 25      | 15 | - | 2               | - | 2  | -  | -              | -  | -            | -  | -                         | 1  | -                   | 3  | 1            | -  | 1                     | -   | 124    | 41  | -                     | 2  | 1  | -  | -   | - | - |   |
| 14:30:00                           | -                        | 14:45:00 | - | 19      | 13 | - | 7               | 1 | -  | 3  | -              | -  | -            | -  | -                         | -  | 2                   | -  | -            | -  | -                     | 129 | 43     | -   | 2                     | 1  | -  | -  | -   | - |   |   |
| 14:45:00                           | -                        | 15:00:00 | - | 26      | 12 | - | 5               | - | 1  | -  | -              | -  | -            | -  | -                         | -  | 3                   | 1  | -            | -  | -                     | 141 | 40     | -   | 1                     | 1  | -  | -  | -   | - |   |   |
| 15:00:00                           | -                        | 15:15:00 | - | 49      | 17 | - | 5               | 2 | -  | 2  | -              | -  | -            | -  | -                         | -  | 2                   | -  | 5            | -  | -                     | -   | 165    | 45  | -                     | 2  | 5  | -  | -   | - | - |   |
| 15:15:00                           | -                        | 15:30:00 | - | 28      | 15 | - | 8               | 3 | -  | 3  | -              | -  | -            | -  | -                         | 1  | -                   | 7  | -            | -  | -                     | -   | 138    | 46  | -                     | 1  | -  | -  | -   | - | - |   |
| 15:30:00                           | -                        | 15:45:00 | - | 28      | 9  | - | 9               | 3 | -  | 5  | 1              | -  | -            | -  | -                         | 2  | -                   | 5  | 2            | -  | 1                     | -   | 158    | 45  | -                     | 4  | 3  | -  | -   | - | - |   |
| 15:45:00                           | -                        | 16:00:00 | - | 39      | 15 | - | 5               | 1 | -  | 2  | -              | -  | -            | -  | -                         | -  | 4                   | 2  | -            | 1  | -                     | -   | -      | 176 | 54                    | -  | 1  | 3  | -   | - | - | - |
| 16:00:00                           | -                        | 16:15:00 | - | 26      | 9  | - | 5               | 4 | -  | 1  | 1              | -  | -            | -  | -                         | -  | 4                   | 2  | -            | 5  | -                     | -   | -      | 207 | 75                    | -  | 6  | 2  | -   | - | - | - |
| 16:15:00                           | -                        | 16:30:00 | - | 26      | 7  | - | 5               | 1 | -  | 4  | -              | -  | -            | -  | -                         | 2  | 1                   | -  | 6            | 1  | -                     | 1   | -      | 197 | 74                    | -  | 2  | 4  | -   | - | - | - |
| 16:30:00                           | -                        | 16:45:00 | - | 27      | 17 | - | 9               | 5 | -  | 1  | 1              | -  | -            | -  | -                         | -  | 5                   | 5  | -            | -  | -                     | -   | 175    | 60  | -                     | 4  | 1  | -  | -   | - | - |   |
| 16:45:00                           | -                        | 17:00:00 | - | 24      | 13 | - | 4               | 2 | -  | 3  | -              | -  | -            | -  | -                         | 1  | -                   | 3  | -            | -  | -                     | -   | 145    | 47  | -                     | 2  | 2  | -  | -   | - | - |   |
| 17:00:00                           | -                        | 17:15:00 | - | 22      | 11 | - | 3               | 2 | -  | 2  | -              | -  | -            | -  | -                         | -  | 2                   | -  | -            | -  | -                     | -   | 136    | 43  | -                     | 1  | -  | -  | -   | - | - |   |
| 17:15:00                           | -                        | 17:30:00 | - | 19      | 9  | - | 5               | 2 | -  | 2  | -              | -  | -            | -  | -                         | -  | 2                   | -  | -            | -  | -                     | -   | 130    | 40  | -                     | 1  | 2  | -  | -   | - | - |   |
| 17:30:00                           | -                        | 17:45:00 | - | 20      | 12 | - | 4               | 1 | -  | -  | -              | -  | -            | -  | -                         | 1  | 1                   | -  | 1            | -  | -                     | -   | 124    | 38  | -                     | 1  | 1  | -  | -   | - | - |   |
| 17:45:00                           | -                        | 18:00:00 | - | 22      | 6  | - | 2               | 1 | -  | 1  | -              | -  | -            | -  | -                         | -  | 3                   | -  | -            | -  | -                     | -   | 111    | 31  | -                     | 2  | -  | -  | -   | - | - |   |
| 18:00:00                           | -                        | 18:15:00 | - | 30      | 8  | - | 1               | 3 | -  | 2  | -              | -  | -            | -  | -                         | -  | 1                   | 1  | -            | 1  | -                     | -   | -      | 133 | 39                    | -  | 1  | 1  | -   | - | - | - |
| 18:15:00                           | -                        | 18:30:00 | - | 26      | 13 | - | 3               | - | 1  | -  | -              | -  | -            | -  | -                         | -  | 1                   | -  | 1            | -  | -                     | -   | -      | 131 | 44                    | -  | 2  | -  | -   | - | - | - |
| 18:30:00                           | -                        | 18:45:00 | - | 14      | 12 | - | 1               | 1 | -  | 1  | -              | -  | -            | -  | -                         | -  | 1                   | 1  | -            | 1  | -                     | -   | -      | 107 | 38                    | -  | 1  | -  | -   | - | - | - |
| 18:45:00                           | -                        | 19:00:00 | - | 24      | 7  | - | 4               | 1 | -  | -  | -              | -  | -            | -  | -                         | -  | 1                   | 1  | -            | 1  | -                     | -   | -      | 118 | 43                    | -  | 3  | -  | -   | - | - | - |
| 19:00:00                           | -                        | 19:15:00 | - | 17      | 15 | - | 2               | 2 | -  | 2  | -              | -  | -            | -  | -                         | -  | 3                   | -  | -            | 1  | -                     | -   | -      | 97  | 43                    | -  | 1  | -  | -   | - | - | - |
| 19:15:00                           | -                        | 19:30:00 | - | 25      | 7  | - | 2               | 1 | -  | 5  | -              | -  | -            | -  | -                         | -  | 3                   | -  | 5            | -  | -                     | -   | -      | 116 | 47                    | -  | 5  | 1  | -   | - | - | - |
| 19:30:00                           | -                        | 19:45:00 | - | 21      | 11 | - | 3               | 4 | -  | 1  | -              | -  | -            | -  | -                         | -  | 1                   | -  | 1            | -  | -                     | -   | -      | 114 | 52                    | -  |    |    |   |   |   |   |

## **SURVAI VOLUME LALU LINTAS PERGERAKAN MEMBELOK**

|              |          |
|--------------|----------|
| Nama Simpang | Wonorejo |
| Kota         | Lumajang |
| Dari Arah    | Jember   |
| Ke Arah      |          |



Hari :  
Tanggal :  
Surveyor :

| WAKTU<br>SURVAI<br>( 15 menit-an ) | LIGHT VEHICLES<br>( LV ) |          |    |         |    |                 |   |   | HEAVY VEHICLES |    |              |    |                           |    |                     |    | MOTORCYCLES<br>( MC ) |    |    | UNMOTORISED<br>( UM ) |    |    | CUACA<br>1. Cerah<br>2. Gerimis<br>3. Mendung<br>4. Hujan |    |    |    |    |    |
|------------------------------------|--------------------------|----------|----|---------|----|-----------------|---|---|----------------|----|--------------|----|---------------------------|----|---------------------|----|-----------------------|----|----|-----------------------|----|----|---|----|----|----|----|----|
|                                    | Mobil/Sedan<br>Carry/Van |          |    | Pick-Up |    | Microlet/<br>AU |   |   | Bus<br>Kota    |    | Bus<br>Besar |    | Truk Sedang<br>Bus Sedang |    | Gandeng/<br>Trailer |    | Sepeda Motor          |    |    | Sepeda                |    |    |   |    |    |    |    |    |
|                                    | ≤                        | ↑        | =  | ≤       | ↑  | ⇒               | ≤ | ↑ | =              | ≤  | ↑            | =  | ≤                         | ↑  | =                   | ≤  | ↑                     | =  | ≤  | ↑                     | =  | ≤  | ↑   | =  |    |    |    |    |
| 1                                  | 2                        | 3        | 4  | 5       | 6  | 7               | 8 | 9 | 10             | 11 | 12           | 13 | 14                        | 15 | 16                  | 17 | 18                    | 19 | 20 | 21                    | 22 | 23 | 24  | 25 | 26 | 27 | 28 | 29 |
| 6:00:00                            | -                        | 6:15:00  | 5  | -       | 6  | 2               | - | 1 | -              | -  | -            | -  | -                         | -  | 2                   | 2  | -                     | -  | -  | -                     | -  | 36 | -   | 30 | 3  | -  | -  | 1  |
| 6:15:00                            | -                        | 6:30:00  | 9  | -       | 8  | 1               | - | 3 | 1              | -  | -            | -  | -                         | -  | 3                   | 3  | -                     | 1  | -  | -                     | -  | 56 | -   | 40 | 3  | -  | 1  | 1  |
| 6:30:00                            | -                        | 6:45:00  | 15 | -       | 13 | 3               | - | 3 | -              | 1  | -            | -  | -                         | -  | 3                   | 5  | -                     | 1  | 2  | -                     | -  | 65 | -   | 45 | 2  | -  | -  | 1  |
| 6:45:00                            | -                        | 7:00:00  | 14 | -       | 12 | 3               | - | 2 | 1              | -  | -            | -  | -                         | -  | 4                   | 3  | -                     | 1  | -  | -                     | -  | 60 | -   | 49 | 6  | -  | -  | 1  |
| 7:00:00                            | -                        | 7:15:00  | 8  | -       | 9  | 3               | - | 1 | 1              | -  | -            | -  | -                         | -  | 3                   | 2  | -                     | -  | -  | -                     | -  | 59 | -   | 43 | 3  | -  | -  | 1  |
| 7:15:00                            | -                        | 7:30:00  | 5  | -       | 6  | 1               | - | 1 | 1              | -  | -            | -  | -                         | -  | 2                   | 2  | -                     | -  | -  | -                     | -  | 41 | -   | 41 | 2  | -  | -  | 1  |
| 7:30:00                            | -                        | 7:45:00  | 5  | -       | 6  | 1               | - | - | 1              | -  | -            | -  | -                         | -  | 2                   | 1  | -                     | -  | -  | -                     | -  | 42 | -   | 41 | 4  | -  | -  | 1  |
| 7:45:00                            | -                        | 8:00:00  | 8  | -       | 9  | -               | - | - | -              | 1  | -            | -  | -                         | -  | 4                   | 2  | -                     | -  | -  | -                     | -  | 39 | -   | 46 | 5  | -  | -  | 1  |
| 8:00:00                            | -                        | 8:15:00  | 13 | -       | 13 | 3               | - | 1 | -              | -  | -            | -  | -                         | -  | 2                   | 5  | -                     | 2  | -  | -                     | -  | 28 | -   | 40 | 2  | -  | 1  | 1  |
| 8:15:00                            | -                        | 8:30:00  | 13 | -       | 3  | 1               | - | 3 | -              | -  | -            | -  | -                         | -  | 3                   | 1  | -                     | -  | -  | -                     | -  | 49 | -   | 38 | 3  | -  | 1  | 1  |
| 8:30:00                            | -                        | 8:45:00  | 13 | -       | 5  | -               | - | 1 | -              | -  | -            | -  | -                         | -  | 6                   | 1  | -                     | 1  | 1  | -                     | -  | 54 | -   | 40 | -  | -  | -  | 1  |
| 8:45:00                            | -                        | 9:00:00  | 12 | -       | 14 | 5               | - | 1 | 5              | -  | -            | -  | -                         | -  | 4                   | 6  | -                     | -  | -  | -                     | -  | 49 | -   | 38 | -  | -  | -  | 1  |
| 9:00:00                            | -                        | 9:15:00  | 9  | -       | 8  | 2               | - | 2 | -              | -  | -            | -  | -                         | -  | 3                   | 2  | -                     | -  | -  | -                     | -  | 43 | -   | 35 | 2  | -  | -  | 1  |
| 9:15:00                            | -                        | 9:30:00  | 8  | -       | 7  | 3               | - | 1 | 1              | -  | -            | -  | -                         | -  | 2                   | 1  | -                     | -  | -  | -                     | -  | 40 | -   | 31 | 3  | -  | -  | 1  |
| 9:30:00                            | -                        | 9:45:00  | 6  | -       | 5  | 2               | - | 1 | -              | 1  | -            | -  | -                         | -  | 3                   | 3  | -                     | 2  | -  | -                     | -  | 38 | -   | 28 | 1  | -  | -  | 1  |
| 9:45:00                            | -                        | 10:00:00 | 13 | -       | 12 | 1               | - | - | -              | -  | -            | -  | -                         | -  | 3                   | 1  | -                     | 2  | -  | -                     | -  | 41 | -   | 36 | -  | -  | 1  | 1  |
| 10:00:00                           | -                        | 10:15:00 | 8  | -       | 4  | 2               | - | 2 | 1              | -  | -            | -  | -                         | -  | 4                   | 1  | -                     | -  | -  | -                     | -  | 30 | -   | 28 | 1  | -  | -  | 1  |
| 10:15:00                           | -                        | 10:30:00 | 14 | -       | 8  | -               | - | 1 | -              | -  | -            | -  | -                         | -  | 2                   | 1  | -                     | 1  | -  | -                     | -  | 27 | -   | 33 | 3  | -  | -  | 1  |
| 10:30:00                           | -                        | 10:45:00 | 8  | -       | 9  | 2               | - | 2 | -              | -  | -            | -  | -                         | -  | 2                   | 3  | -                     | -  | -  | -                     | -  | 31 | -   | 41 | -  | -  | -  | 1  |
| 10:45:00                           | -                        | 11:00:00 | 8  | -       | 6  | 1               | - | - | -              | -  | -            | -  | -                         | -  | 3                   | 1  | -                     | -  | -  | -                     | -  | 37 | -   | 44 | -  | -  | -  | 1  |
| 11:00:00                           | -                        | 11:15:00 | 18 | -       | 9  | 2               | - | 2 | -              | 1  | -            | -  | -                         | -  | 3                   | 2  | -                     | 1  | -  | -                     | -  | 51 | -   | -  | 1  | -  | -  | 1  |
| 11:15:00                           | -                        | 11:30:00 | 9  | -       | 17 | 3               | - | 4 | -              | -  | -            | -  | -                         | -  | 5                   | 1  | -                     | 1  | -  | -                     | -  | 33 | -   | 40 | -  | -  | -  | 1  |
| 11:30:00                           | -                        | 11:45:00 | 14 | -       | 8  | -               | - | 3 | 1              | -  | -            | -  | -                         | -  | 3                   | 2  | -                     | 1  | -  | -                     | -  | 35 | -   | 43 | 2  | -  | -  | 1  |
| 11:45:00                           | -                        | 12:00:00 | 13 | -       | 15 | -               | - | 3 | 1              | -  | -            | -  | -                         | -  | 5                   | 2  | -                     | 1  | -  | -                     | -  | 41 | -   | 36 | 1  | -  | -  | 1  |
| 12:00:00                           | -                        | 12:15:00 | 4  | -       | 2  | 1               | - | 3 | -              | -  | -            | -  | -                         | -  | 3                   | 2  | -                     | 1  | -  | -                     | -  | 44 | -   | 30 | -  | -  | -  | 1  |
| 12:15:00                           | -                        | 12:30:00 | 12 | -       | 15 | 4               | - | 1 | -              | 1  | -            | -  | -                         | -  | 5                   | 4  | -                     | 2  | -  | -                     | -  | 30 | -   | 26 | -  | -  | 1  | 1  |
| 12:30:00                           | -                        | 12:45:00 | 6  | -       | 6  | 4               | - | - | 1              | -  | -            | -  | -                         | -  | 7                   | 1  | -                     | 1  | -  | -                     | -  | 41 | -   | 33 | -  | -  | -  | 1  |
| 12:45:00                           | -                        | 13:00:00 | 14 | -       | 20 | 1               | - | 2 | -              | -  | -            | -  | -                         | -  | 3                   | 1  | -                     | 2  | -  | -                     | -  | 56 | -   | 41 | -  | -  | -  | 1  |
| 13:00:00                           | -                        | 13:15:00 | 7  | -       | 14 | 2               | - | - | -              | -  | -            | -  | -                         | -  | 2                   | 2  | -                     | -  | -  | -                     | -  | 50 | -   | 33 | 1  | -  | -  | 1  |
| 13:15:00                           | -                        | 13:30:00 | 8  | -       | 12 | 2               | - | 1 | 1              | -  | -            | -  | -                         | -  | 3                   | 1  | -                     | -  | -  | -                     | -  | 47 | -   | 26 | -  | -  | -  | 1  |
| 13:30:00                           | -                        | 13:45:00 | 12 | -       | 8  | 1               | - | - | 1              | -  | -            | -  | -                         | -  | 2                   | 1  | -                     | 1  | -  | -                     | -  | 41 | -   | 31 | -  | -  | 1  | 1  |
| 13:45:00                           | -                        | 14:00:00 | 9  | -       | 9  | -               | - | 1 | -              | -  | -            | -  | -                         | -  | 1                   | 2  | -                     | 1  | -  | -                     | -  | 49 | -   | 37 | 1  | -  | -  | 1  |
| 14:00:00                           | -                        | 14:15:00 | 13 | -       | 7  | 1               | - | 2 | -              | -  | -            | -  | -                         | -  | 3                   | 1  | -                     | 2  | -  | -                     | -  | 51 | -   | 30 | -  | -  | -  | 1  |
| 14:15:00                           | -                        | 14:30:00 | 14 | -       | 13 | 2               | - | - | 1              | -  | -            | -  | -                         | -  | 2                   | 1  | -                     | -  | -  | -                     | -  | 54 | -   | 38 | 1  | -  | 1  | 1  |
| 14:30:00                           | -                        | 14:45:00 | 11 | -       | 8  | 3               | - | 2 | -              | -  | -            | -  | -                         | -  | 3                   | 2  | -                     | -  | -  | -                     | -  | 44 | -   | 43 | 1  | -  | -  | 1  |
| 14:45:00                           | -                        | 15:00:00 | 14 | -       | 7  | 1               | - | 1 | -              | -  | -            | -  | -                         | -  | 2                   | 1  | -                     | -  | -  | -                     | -  | 52 | -   | 38 | 3  | -  | -  | 1  |
| 15:00:00                           | -                        | 15:15:00 | 17 | -       | 13 | 6               | - | 1 | -              | -  | -            | -  | -                         | -  | 2                   | 2  | -                     | 1  | -  | -                     | -  | 57 | -   | 41 | 2  | -  | -  | 3  |
| 15:15:00                           | -                        | 15:30:00 | 14 | -       | 20 | 2               | - | 1 | -              | -  | -            | -  | -                         | -  | 4                   | 1  | -                     | 1  | -  | -                     | -  | 71 | -   | 58 | -  | -  | 1  | 2  |
| 15:30:00                           | -                        | 15:45:00 | 17 | -       | 7  | 1               | - | - | -              | -  | -            | -  | -                         | -  | 2                   | 5  | -                     | -  | -  | -                     | -  | 69 | -   | 50 | -  | -  | -  | 3  |
| 15:45:00                           | -                        | 16:00:00 | 14 | -       | 13 | 5               | - | 1 | -              | -  | -            | -  | -                         | -  | 3                   | 3  | -                     | 1  | -  | -                     | -  | 68 | -   | 63 | 3  | -  | 1  | 1  |
| 16:00:00                           | -                        | 16:15:00 | 12 | -       | 11 | 3               | - | - | -              | -  | -            | -  | -                         | -  | 6                   | -  | -                     | -  | -  | -                     | -  | 65 | -   | 46 | -  | -  | -  | 1  |
| 16:15:00                           | -                        | 16:30:00 | 13 | -       | 14 | 5               | - | 1 | -              | -  | -            | -  | -                         | -  | 4                   | 1  | -                     | 2  | -  | -                     | -  | 62 | -   | 51 | 1  | -  | -  | 1  |
| 16:30:00                           | -                        | 16:45:00 | 14 | -       | 4  | 4               | - | 4 | -              | -  | -            | -  | -                         | -  | 2                   | 5  | -                     | 2  | -  | -                     | -  | 55 | -   | 62 | -  | -  | -  | 1  |
| 16:45:00                           | -                        | 17:00:00 | 16 | -       | 14 | 1               | - | - | -              | -  | -            | -  | -                         | -  | 2                   | 1  | -                     | 2  | -  | -                     | -  | 58 | -   | 54 | 1  | -  | -  | 1  |
| 17:00:00                           | -                        | 17:15:00 | 13 | -       | 12 | 1               | - | 1 | -              | -  | -            | -  | -                         | -  | 1                   | 2  | -                     | -  | -  | -                     | -  | 55 | -   | 50 | -  | -  | -  | 1  |
| 17:15:00                           | -                        | 17:30:00 | 12 | -       | 9  | 2               | - | - | -              | -  | -            | -  | -                         | -  | 2                   | 1  | -                     | -  | -  | -                     | -  | 53 | -   | 45 | 3  | -  | -  | 1  |
| 17:30:00                           | -                        | 17:45:00 | 14 | -       | 5  | 3               | - | 1 | -              | -  | -            | -  | -                         | -  | 2                   | -  | -                     | -  | -  | -                     | -  | 52 | -   | 38 | -  | -  | 1  | 1  |
| 17:45:00                           | -                        | 18:00:00 | 13 | -       | 11 | 1               | - | - | -              | -  | -            | -  | -                         | -  | 1                   | 3  | -                     | 1  | -  | -                     | -  | 51 | -   | 36 | 1  | -  | 1  | 2  |
| 18:00:00                           | -                        | 18:15:00 | 15 | -       | 14 | 2               | - | 2 | -              | -  | -            | -  | -                         | -  | 3                   | 3  | -                     | 1  | -  | -                     | -  | 66 | -   | 43 | -  | -  | -  | 1  |
| 18:15:00                           | -                        | 18:30:00 | 17 | -       | 16 | 1               | - | 2 | -              | -  | -            | -  | -                         | -  | 2                   | 2  | -                     | 1  | -  | -                     | -  | 75 | -   | 49 | -  | -  | 2  | 1  |
| 18:30:00                           | -                        | 18:45:00 | 15 | -       | 6  | 2               | - | 2 | -              | -  | -            | -  | -                         | -  | 3                   | 1  | -                     | -  | -  | -                     | -  | 80 | -   | 45 | 1  | -  | -  | 1  |
| 18:45:00                           | -                        | 19:00:00 | 16 | -       | 13 | 2               | - | - | -              | -  | -            | -  | -                         | -  | 1                   | -  | -                     | -  | -  | -                     | -  | 72 | -   | 33 | -  | -  | -  | 1  |
| 19:00:00                           | -                        | 19:15:00 | 15 | -       | 22 | -               | - | 1 | -              | -  | -            | -  | -                         | -  | 2                   | -  | -                     | 1  | -  | -                     | -  | 93 | -   | 47 | -  | -  | 1  | 1  |
| 19:15:00                           | -                        | 19:30:00 | 12 | -       | 15 | 1               | - | - | -              | -  | -            | -  | -                         | -  | 2                   | -  | -                     | -  | -  | -                     | -  | 66 | -   | 51 | -  | -  | 1  | 1  |
| 19:30:00                           | -                        | 19:45:00 | 12 | -       | 14 | 1               | - | - | -              | -  | -            | -  | -                         | -  | 2                   | 2  | -                     | -  | -  | -                     | -  | 92 | -   | 47 | -  | -  | 1  | 1  |
| 19:45:00                           | -                        | 20:00:00 | 17 | -       | 6  | 1               | - | 1 | -              | -  | -            | -  | -                         | -  | 2                   | 2  | -                     | 1  | -  | -                     | -  | 98 | -   | 43 | 1  | -  | 2  | 1  |
| 20:00:00                           | -                        | 20:15:00 | 13 | -       | 8  | 2               | - | - | -              | -  | -            | -  | -                         | -  | 2                   | -  | -                     | -  | -  | -                     | -  | 88 | -   | 40 | -  | -  | -  | 1  |
| 20:15:00                           | -                        | 20:30:00 | 9  | -       | 5  | 1               | - | - | -              | -  | -            | -  | -                         | -  | 1                   | 1  | -                     | 1  | -  | -                     | -  | 82 | -   | 37 | -  | -  | -  | 1  |
| 20:30:00                           | -                        | 20:45:00 | 9  | -       | 5  | 1               | - | 1 | -              | -  | -            | -  | -                         | -  | 2                   | 1  | -                     | 1  | -  | -                     | -  | 78 | -   | 31 | -  | -  | -  | 1  |
| 20:45:00                           | -                        | 21:00:00 | 6  | -       | 6  | -               | - | 1 | -              | -  | -            | -  | -                         | -  | 2                   | 1  | -                     | -  | -  | -                     | -  | 62 | -   | 23 | -  | -  | -  | 1  |

#### **SURVAI VOLUME LALU LINTAS PERGERAKAN MEMBELOK**

|              |          |            |   |                            |                                   |
|--------------|----------|------------|---|----------------------------|-----------------------------------|
| Nama Simpang | Wonorejo | Gambar     |  | 1<br>4<br>3<br>2<br>U<br>↑ | Hari :<br>Tanggal :<br>Surveyor : |
| Kota         | Lumajang | sketsa     |   |                            |                                   |
| Dari Arah    | Klakah   | ruas jalan |   |                            |                                   |
| Ke Arah      |          |            |   |                            |                                   |

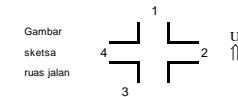
| WAKTU<br>SURVAI<br>( 15 menit-an ) | LIGHT VEHICLES<br>( LV ) |          |   |         |        |   |                 |    |    |    | HEAVY VEHICLES |    |              |    |                           |    |                     |    |              |    | MOTORCYCLES<br>( MC ) |     |        |    | UNMOTORISED<br>( UM ) |    |    |   | CUACA<br>1. Cerah<br>2. Gerimis<br>3. Mendung<br>4. Hujan |
|------------------------------------|--------------------------|----------|---|---------|--------|---|-----------------|----|----|----|----------------|----|--------------|----|---------------------------|----|---------------------|----|--------------|----|-----------------------|-----|--------|----|-----------------------|----|----|---|---|
|                                    | Mobil/Sedan<br>Carry/Van |          |   | Pick-Up |        |   | Microlet/<br>AU |    |    |    | Bus<br>Kota    |    | Bus<br>Besar |    | Truk Sedang<br>Bus Sedang |    | Gandeng/<br>Trailer |    | Sepeda Motor |    |                       |     | Sepeda |    |                       |    |    |   |   |
|                                    | =                        | ↑        | ⇒ | =       | ↑      | ⇒ | =               | ↑  | ⇒  | =  | =              | ↑  | ⇒            | =  | ↑                         | ⇒  | =                   | ↑  | ⇒            | =  | ↑                     | ⇒   | =      | ↑  | ⇒                     | =  |    |   |   |
|                                    | 2                        | 3        | 4 | 5       | 6      | 7 | 8               | 9  | 10 | 11 | 12             | 13 | 14           | 15 | 16                        | 17 | 18                  | 19 | 20           | 21 | 22                    | 23  | 24     | 25 | 26                    | 27 | 28 |   |   |
| 6:00:00                            | -                        | 6:15:00  |   | 4       | 17     | - | 1               | 5  | -  | 1  | 2              | -  | -            | 2  | 1                         | -  | 4                   | -  | 4            | -  | 20                    | 92  | -      | 2  | 5                     | -  | 1  |   |   |
| 6:15:00                            | -                        | 6:30:00  |   | 6       | 26     | - | 9               | -  | 2  | 2  | -              | -  | 1            | 2  | -                         | 1  | 8                   | -  | 2            | 6  | 38                    | 175 | -      | 5  | 8                     | -  | 1  |   |   |
| 6:30:00                            | -                        | 6:45:00  |   | 7       | 35     | - | 2               | 12 | -  | 2  | 1              | -  | -            | 3  | 1                         | -  | 2                   | 9  | -            | 1  | 7                     | 50  | 213    | -  | 6                     | 14 | -  | 1 |   |
| 6:45:00                            | -                        | 7:00:00  |   | 8       | 30     | - | 2               | 9  | -  | 1  | 2              | -  | -            | 3  | 2                         | -  | 8                   | -  | 1            | 7  | 44                    | 209 | -      | 2  | 8                     | -  | 1  |   |   |
| 7:00:00                            | -                        | 7:15:00  |   | 3       | 16     | - | 1               | 7  | -  | 2  | 2              | -  | -            | 2  | -                         | -  | 5                   | -  | 5            | -  | 38                    | 185 | -      | 1  | 5                     | -  | 1  |   |   |
| 7:15:00                            | -                        | 7:30:00  |   | 2       | 31     | - | 1               | 4  | -  | 1  | -              | -  | -            | 1  | 3                         | -  | 1                   | 8  | -            | 1  | 7                     | 34  | 142    | -  | 1                     | 5  | -  | 1 |   |
| 7:30:00                            | -                        | 7:45:00  |   | 3       | 15     | - | 1               | 6  | -  | 1  | -              | -  | -            | 2  | -                         | -  | 4                   | -  | 4            | -  | 43                    | 191 | -      | 4  | 4                     | -  | 1  |   |   |
| 7:45:00                            | -                        | 8:00:00  |   | 11      | 26     | - | 8               | -  | 1  | -  | -              | -  | 4            | 1  | -                         | 2  | 8                   | -  | 1            | 8  | 38                    | 204 | -      | 1  | 5                     | -  | 1  |   |   |
| 8:00:00                            | -                        | 8:15:00  |   | 5       | 28     | - | 1               | 5  | -  | 1  | -              | -  | -            | 1  | 2                         | -  | 2                   | 5  | -            | 2  | 5                     | 45  | 170    | -  | 6                     | -  | -  | 1 |   |
| 8:15:00                            | -                        | 8:30:00  |   | 3       | 28     | - | 2               | 6  | -  | 1  | 1              | -  | -            | 1  | -                         | -  | 3                   | -  | 2            | -  | 46                    | 178 | -      | 4  | 1                     | -  | 1  |   |   |
| 8:30:00                            | -                        | 8:45:00  |   | 4       | 25     | - | 1               | 3  | -  | 2  | -              | -  | -            | 2  | 2                         | -  | 3                   | -  | 1            | -  | 35                    | 200 | -      | 2  | -                     | -  | 1  |   |   |
| 8:45:00                            | -                        | 9:00:00  |   | 9       | 24     | - | 6               | -  | 1  | -  | -              | -  | 3            | 1  | -                         | 4  | -                   | 4  | -            | 42 | 173                   | -   | 1      | 1  | -                     | 1  |    |   |   |
| 9:00:00                            | -                        | 9:15:00  |   | 6       | 22     | - | 5               | -  | 1  | -  | -              | -  | 2            | -  | -                         | 2  | 3                   | -  | 3            | -  | 40                    | 165 | -      | 3  | -                     | -  | 1  |   |   |
| 9:15:00                            | -                        | 9:30:00  |   | 5       | 20     | - | 2               | 3  | -  | 1  | -              | -  | -            | 1  | 1                         | -  | 1                   | 2  | -            | 2  | -                     | 37  | 161    | -  | 1                     | 3  | -  | 1 |   |
| 9:30:00                            | -                        | 9:45:00  |   | 4       | 23     | - | 1               | 2  | -  | 1  | -              | -  | -            | 1  | -                         | -  | -                   | -  | 2            | -  | 31                    | 155 | -      | 1  | -                     | -  | 1  |   |   |
| 9:45:00                            | -                        | 10:00:00 |   | 3       | 26     | - | 1               | 4  | -  | 1  | -              | -  | -            | 2  | 1                         | -  | 1                   | 4  | -            | 1  | -                     | 33  | 150    | -  | 1                     | 2  | -  | 1 |   |
| 10:00:00                           | -                        | 10:15:00 |   | 2       | 27     | - | 6               | -  | 1  | 2  | -              | -  | -            | 2  | 2                         | -  | -                   | 1  | 1            | -  | 28                    | 143 | -      | 1  | -                     | -  | 1  |   |   |
| 10:15:00                           | -                        | 10:30:00 |   | 3       | 19     | - | 7               | -  | 3  | -  | -              | -  | 3            | -  | -                         | 1  | 1                   | -  | 1            | -  | 37                    | 128 | -      | 4  | 2                     | -  | 1  |   |   |
| 10:30:00                           | -                        | 10:45:00 |   | 4       | 30     | - | 1               | 6  | -  | 1  | -              | -  | -            | 2  | 1                         | -  | 1                   | 3  | -            | 1  | -                     | 39  | 153    | -  | 1                     | 1  | -  | 1 |   |
| 10:45:00                           | -                        | 11:00:00 |   | 5       | 36     | - | 8               | -  | 1  | -  | -              | -  | 1            | -  | -                         | 1  | -                   | 1  | -            | 41 | 168                   | -   | 3      | -  | -                     | 1  |    |   |   |
| 11:00:00                           | -                        | 11:15:00 |   | 7       | 42     | - | 9               | -  | 2  | -  | -              | -  | 1            | 2  | -                         | 1  | 9                   | -  | 1            | -  | 47                    | 185 | -      | 1  | 3                     | -  | 1  |   |   |
| 11:15:00                           | -                        | 11:30:00 |   | 2       | 51     | - | 2               | 6  | -  | 1  | -              | -  | -            | 1  | -                         | -  | 3                   | 6  | -            | 1  | -                     | 50  | 140    | -  | 1                     | 1  | -  | 1 |   |
| 11:30:00                           | -                        | 11:45:00 |   | 6       | 25     | - | 4               | -  | 1  | 2  | -              | -  | -            | 1  | -                         | -  | 1                   | 3  | -            | -  | -                     | 38  | 157    | -  | 3                     | -  | -  | 1 |   |
| 11:45:00                           | -                        | 12:00:00 |   | 11      | 40     | - | 5               | -  | 2  | 5  | -              | -  | -            | 3  | 1                         | -  | 1                   | 4  | -            | 1  | -                     | 35  | 141    | -  | 2                     | 1  | -  | 1 |   |
| 12:00:00                           | -                        | 12:15:00 |   | 7       | 50     | - | 12              | -  | 4  | -  | -              | -  | -            | 3  | -                         | -  | 2                   | 18 | -            | 1  | -                     | 45  | 162    | -  | 2                     | 3  | -  | 1 |   |
| 12:15:00                           | -                        | 12:30:00 |   | 5       | 41     | - | 1               | 6  | -  | 1  | 5              | -  | -            | 4  | -                         | -  | 1                   | 12 | -            | 1  | -                     | 46  | 169    | -  | 3                     | -  | -  | 1 |   |
| 12:30:00                           | -                        | 12:45:00 |   | 9       | 36     | - | 8               | -  | 4  | -  | -              | -  | -            | 5  | -                         | -  | 8                   | -  | -            | -  | -                     | 37  | 155    | -  | 4                     | 3  | -  | 1 |   |
| 12:45:00                           | -                        | 13:00:00 |   | 11      | 46     | - | 2               | 8  | -  | 4  | -              | -  | -            | 2  | -                         | -  | 6                   | -  | -            | -  | -                     | 56  | 137    | -  | 3                     | -  | -  | 1 |   |
| 13:00:00                           | -                        | 13:15:00 |   | 8       | 43     | - | 6               | -  | 1  | -  | -              | -  | -            | 1  | -                         | -  | 4                   | -  | -            | -  | -                     | 51  | 142    | -  | -                     | -  | -  | 1 |   |
| 13:15:00                           | -                        | 13:30:00 |   | 7       | 37     | - | 5               | -  | 1  | -  | -              | -  | -            | 1  | 1                         | -  | 2                   | 5  | -            | 1  | -                     | 50  | 146    | -  | 1                     | -  | -  | 1 |   |
| 13:30:00                           | -                        | 13:45:00 |   | 5       | 40     | - | 2               | 6  | -  | 1  | -              | -  | -            | 3  | -                         | -  | 4                   | -  | -            | -  | -                     | 43  | 150    | 1  | 2                     | -  | -  | 1 |   |
| 13:45:00                           | -                        | 14:00:00 |   | 6       | 31     | - | 1               | 4  | -  | 3  | 3              | -  | -            | 2  | 1                         | -  | 1                   | 5  | -            | 1  | -                     | 38  | 136    | -  | 1                     | -  | -  | 1 |   |
| 14:00:00                           | -                        | 14:15:00 |   | 7       | 34     | - | 3               | -  | 1  | 2  | -              | -  | -            | 1  | 2                         | -  | 1                   | 6  | -            | 1  | 1                     | 40  | 155    | -  | -                     | -  | -  | 1 |   |
| 14:15:00                           | -                        | 14:30:00 |   | 4       | 28     | - | 1               | 5  | -  | 1  | -              | -  | -            | 1  | -                         | -  | 1                   | 7  | -            | -  | -                     | 33  | 159    | -  | 2                     | 1  | -  | 1 |   |
| 14:30:00                           | -                        | 14:45:00 |   | 5       | 36     | - | 3               | -  | 1  | -  | -              | -  | -            | 2  | 1                         | -  | 1                   | 5  | -            | -  | -                     | 44  | 168    | -  | 1                     | 2  | -  | 1 |   |
| 14:45:00                           | -                        | 15:00:00 |   | 7       | 38     | - | 4               | -  | 1  | -  | -              | -  | -            | 1  | -                         | -  | 3                   | -  | -            | -  | -                     | 44  | 181    | 1  | -                     | -  | 3  | - |   |
| 15:00:00                           | -                        | 15:15:00 |   | 12      | 45     | - | 1               | 3  | -  | 7  | -              | -  | -            | 3  | 1                         | -  | 8                   | -  | 1            | 1  | -                     | 62  | 173    | -  | 2                     | -  | -  | 3 |   |
| 15:15:00                           | -                        | 15:30:00 |   | 8       | 49     | - | 1               | 6  | -  | 3  | -              | -  | -            | 3  | 1                         | -  | 4                   | -  | -            | -  | -                     | 59  | 185    | -  | 2                     | 3  | -  | 2 |   |
| 15:30:00                           | -                        | 15:45:00 |   | 9       | 45     | - | 1               | 4  | -  | 9  | -              | -  | -            | 2  | -                         | -  | 1                   | 6  | -            | 1  | -                     | 62  | 230    | -  | 2                     | -  | -  | 3 |   |
| 15:45:00                           | -                        | 16:00:00 |   | 6       | 60     | - | 2               | 11 | -  | 3  | -              | -  | -            | 3  | -                         | -  | 1                   | 6  | -            | -  | -                     | 45  | 237    | -  | 3                     | -  | -  | 1 |   |
| 16:00:00                           | -                        | 16:15:00 |   | 9       | 42     | - | 2               | 12 | -  | 1  | 2              | -  | -            | 2  | 2                         | -  | 2                   | 4  | -            | -  | -                     | 75  | 279    | 1  | 5                     | -  | -  | 1 |   |
| 16:15:00                           | -                        | 16:30:00 |   | 6       | 31     | - | 5               | -  | 1  | 1  | -              | -  | -            | 3  | 1                         | -  | 3                   | -  | 1            | -  | 62                    | 211 | -      | 3  | 3                     | -  | 1  |   |   |
| 16:30:00                           | -                        | 16:45:00 |   | 4       | 37     | - | 5               | -  | 1  | -  | -              | -  | -            | 4  | 1                         | -  | 2                   | 3  | -            | -  | -                     | 55  | 205    | -  | 3                     | -  | -  | 1 |   |
| 16:45:00                           | -                        | 17:00:00 |   | 18      | 57     | - | 7               | -  | 4  | -  | -              | -  | -            | 5  | 1                         | -  | 4                   | 5  | -            | 2  | -                     | 61  | 244    | -  | 5                     | -  | -  | 1 |   |
| 17:00:00                           | -                        | 17:15:00 |   | 12      | 51     | - | 1               | 5  | -  | 2  | -              | -  | -            | 3  | -                         | -  | 4                   | -  | -            | -  | -                     | 54  | 223    | -  | 3                     | -  | -  | 1 |   |
| 17:15:00                           | -                        | 17:30:00 |   | 7       | 45     | - | 1               | 2  | -  | 1  | -              | -  | -            | 1  | 2                         | -  | 2                   | 3  | -            | -  | -                     | 45  | 206    | -  | 1                     | 2  | -  | 1 |   |
| 17:30:00                           | -                        | 17:45:00 |   | 9       | 39     | - | 2               | 3  | -  | 1  | 1              | -  | -            | 2  | 1                         | -  | 3                   | 1  | -            | 1  | -                     | 39  | 184    | -  | 1                     | 3  | -  | 1 |   |
| 17:45:00                           | -                        | 18:00:00 |   | 6       | 35     | - | 3               | -  | 1  | -  | -              | -  | -            | 1  | -                         | -  | 1                   | 1  | -            | 1  | -                     | 27  | 174    | -  | 1                     | -  | -  | 2 |   |
| 18:00:00                           | -                        | 18:15:00 |   | 5       | 49     | - | 1               | 5  | -  | 1  | -              | -  | -            | 2  | 1                         | -  | 1                   | 3  | -            | -  | -                     | 38  | 199    | 1  | 1                     | -  | -  | 1 |   |
| 18:15:00                           | -                        | 18:30:00 |   | 5       | 54     | - | 6               | -  | 2  | -  | -              | -  | -            | 2  | -                         | -  | 4                   | -  | -            | -  | -                     | 43  | 189    | 1  | -                     | -  | -  | 1 |   |
| 18:30:00                           | -                        | 18:45:00 |   | 9       | 44     | - | 1               | 4  | -  | 1  | -              | -  | -            | 1  | 1                         | -  | 3                   | 2  | -            | 1  | -                     | 38  | 187    | -  | 1                     | -  | -  | 1 |   |
| 18:45:00                           | -                        | 19:00:00 |   | 8       | 58     | - | 1               | 3  | -  | 2  | -              | -  | -            | 1  | 2                         | -  | 5                   | 6  | -            | 1  | -                     | 37  | 213    | -  | 3                     | -  | -  | 1 |   |
| 19:00:00                           | -                        | 19:15:00 |   | 11      | 43     | - | 2               | 2  | -  | 2  | -              | -  | -            | 1  | 1                         | -  | 1                   | -  | 1            | -  | 52                    | 204 | -      | 1  | 2                     | -  | 1  |   |   |
| 19:15:00                           | -                        | 19:30:00 |   | 7       | 42     | - | -               | -  | 1  | -  | -              | -  | -            | 5  | 1                         | -  | 2                   | -  | -            | -  | -                     | 45  | 215    | -  | -                     | -  | -  | 1 |   |
| 19:30:00                           | -                        | 19:45:00 |   | 6       | 36     | - | 1               | 1  | -  | 1  | -              | -  | -            | -  | 1                         | -  | 1                   | 1  | -            | 1  | -                     | 54  | 224    | -  | 2                     | 1  | -  | 1 |   |
| 19:45:00                           | -                        | 20:00:00 |   | 9       | 47     | - | 2               | 2  | -  | 2  | -              | -  | -            | 3  | 1                         | -  | 1                   | -  | 1            | -  | 43                    | 209 | -      | 3  | -                     | -  | 1  |   |   |
| 20:00:00                           | -                        | 20:15:00 |   | 8       | 33     | - | 2               | 3  | -  | -  | -              | -  | -            | 2  | -                         | -  | 1                   | 2  | -            | -  | -                     | 40  | 193    | -  | -                     | -  | -  | 1 |   |
| 20:15:00                           | -                        | 20:30:00 |   | 6       | 27     | - | 1               | -  | -  | -  | -              | -  | -            | 2  | 1                         | -  | 2                   | 1  | -            | 1  | -                     | 35  | 143    | -  | -                     | -  | -  | 1 |   |
| 20:30:00                           | -                        | 20:45:00 |   | 3       | 19</td |   |                 |    |    |    |                |    |              |    |                           |    |                     |    |              |    |                       |     |        |    |                       |    |    |   |   |

**SURVAI VOLUME LALU LINTAS PERGERAKAN MEMBELOK**

| WAKTU<br>SURVAI<br>( 15 menit-an ) | LIGHT VEHICLES<br>( LV ) |          |   |         |    |    |                 |   |    |             |    |              | HEAVY VEHICLES |                           |    |                     |    |              |    |        | MOTORCYCLES<br>( MC ) |          |    |            | UNMOTORISED<br>( UM ) |            |    |          | CUACA |   |   |  |
|------------------------------------|--------------------------|----------|---|---------|----|----|-----------------|---|----|-------------|----|--------------|----------------|---------------------------|----|---------------------|----|--------------|----|--------|-----------------------|----------|----|------------|-----------------------|------------|----|----------|-------|---|---|--|
|                                    | Mobil/Sedan<br>Carry/Van |          |   | Pick-Up |    |    | Microlet/<br>AU |   |    | Bus<br>Kota |    | Bus<br>Besar |                | Truk Sedang<br>Bus Sedang |    | Gandeng/<br>Trailer |    | Sepeda Motor |    | Sepeda |                       | 1. Cerah |    | 2. Gerimis |                       | 3. Mendung |    | 4. Hujan |       |   |   |  |
|                                    | ≤                        | ↑        | ≥ | ≤       | ↑  | ≥  | ≤               | ↑ | ≥  | ≤           | ↑  | ≥            | ≤              | ↑                         | ≥  | ≤                   | ↑  | ≥            | ≤  | ↑      | ≥                     | ≤        | ↑  | ≥          | ≤                     | ↑          | ≥  | ≤        | ↑     | ≥ |   |  |
|                                    | 1                        | 2        | 3 | 4       | 5  | 6  | 7               | 8 | 9  | 10          | 11 | 12           | 13             | 14                        | 15 | 16                  | 17 | 18           | 19 | 20     | 21                    | 22       | 23 | 24         | 25                    | 26         | 27 | 28       | 29    |   |   |  |
| 6:00:00                            | -                        | 6:15:00  | - | -       | 14 | 3  | -               | 2 | 3  | -           | -  | -            | -              | -                         | 2  | -                   | -  | 1            | 4  | -      | -                     | -        | -  | -          | 59                    | 28         | -  | -        | -     | 1 |   |  |
| 6:15:00                            | -                        | 6:30:00  | - | -       | 24 | 5  | -               | 4 | 2  | -           | -  | -            | -              | -                         | 3  | -                   | 3  | 8            | -  | -      | -                     | -        | -  | -          | 94                    | 31         | -  | -        | -     | 1 |   |  |
| 6:30:00                            | -                        | 6:45:00  | - | -       | 28 | 9  | -               | 7 | 6  | -           | -  | -            | -              | -                         | 4  | -                   | 2  | 12           | -  | -      | -                     | -        | -  | -          | 101                   | 37         | -  | 3        | -     | 1 |   |  |
| 6:45:00                            | -                        | 7:00:00  | - | -       | 21 | 8  | -               | 3 | 5  | -           | -  | -            | -              | -                         | 3  | -                   | 1  | 6            | -  | -      | -                     | -        | -  | -          | 95                    | 32         | -  | -        | -     | 1 |   |  |
| 7:00:00                            | -                        | 7:15:00  | - | -       | 18 | 9  | -               | 4 | 4  | -           | -  | -            | -              | -                         | 2  | 1                   | -  | 3            | -  | -      | -                     | -        | -  | -          | 90                    | 30         | -  | 5        | -     | 1 |   |  |
| 7:15:00                            | -                        | 7:30:00  | - | -       | 9  | 16 | -               | 1 | 5  | -           | -  | -            | -              | -                         | 4  | -                   | -  | 9            | -  | -      | -                     | -        | -  | -          | 74                    | 32         | -  | -        | -     | 1 |   |  |
| 7:30:00                            | -                        | 7:45:00  | - | -       | 19 | 20 | -               | 1 | 3  | -           | -  | -            | -              | -                         | 3  | -                   | -  | 1            | 4  | -      | -                     | -        | -  | -          | -                     | 63         | 37 | -        | -     | - | 1 |  |
| 7:45:00                            | -                        | 8:00:00  | - | -       | 21 | 14 | -               | 6 | -  | -           | -  | -            | -              | -                         | 2  | -                   | 4  | 7            | -  | -      | -                     | -        | -  | -          | 51                    | 45         | -  | 3        | -     | 1 |   |  |
| 8:00:00                            | -                        | 8:15:00  | - | -       | 13 | 21 | -               | 1 | 3  | -           | -  | -            | -              | -                         | 3  | -                   | -  | 3            | -  | -      | -                     | -        | -  | -          | 61                    | 38         | -  | -        | -     | 1 |   |  |
| 8:15:00                            | -                        | 8:30:00  | - | -       | 21 | 18 | -               | 1 | 6  | -           | -  | -            | -              | -                         | 6  | -                   | 2  | 4            | -  | -      | -                     | -        | -  | -          | 63                    | 36         | -  | -        | -     | 1 |   |  |
| 8:30:00                            | -                        | 8:45:00  | - | -       | 24 | 14 | -               | 3 | 4  | -           | -  | -            | -              | -                         | 5  | -                   | 2  | 4            | -  | -      | -                     | -        | -  | -          | 69                    | 37         | -  | -        | -     | 1 |   |  |
| 8:45:00                            | -                        | 9:00:00  | - | -       | 22 | 13 | -               | 2 | 3  | -           | -  | -            | -              | -                         | 4  | -                   | -  | 3            | -  | -      | -                     | -        | -  | -          | 47                    | 36         | -  | -        | -     | 1 |   |  |
| 9:00:00                            | -                        | 9:15:00  | - | -       | 20 | 17 | -               | 5 | 5  | -           | -  | -            | -              | -                         | 3  | -                   | -  | 2            | -  | -      | -                     | -        | -  | -          | 82                    | 35         | -  | -        | -     | 1 |   |  |
| 9:15:00                            | -                        | 9:30:00  | - | -       | 18 | 12 | -               | 6 | 2  | -           | -  | -            | -              | -                         | 5  | 1                   | -  | 2            | 4  | -      | -                     | -        | -  | -          | -                     | 80         | 36 | -        | 1     | - | 1 |  |
| 9:30:00                            | -                        | 9:45:00  | - | -       | 22 | 11 | -               | 4 | 3  | -           | -  | -            | -              | -                         | 2  | -                   | -  | 5            | -  | -      | -                     | -        | -  | -          | 74                    | 38         | -  | -        | -     | 1 |   |  |
| 9:45:00                            | -                        | 10:00:00 | - | -       | 25 | 8  | -               | 3 | 4  | -           | -  | -            | -              | -                         | 3  | -                   | 5  | 4            | -  | -      | -                     | -        | -  | -          | 57                    | 45         | -  | -        | -     | 1 |   |  |
| 10:00:00                           | -                        | 10:15:00 | - | -       | 22 | 22 | -               | 5 | 5  | -           | -  | -            | -              | -                         | 1  | -                   | 2  | 4            | -  | -      | -                     | -        | -  | -          | 59                    | 36         | -  | 1        | -     | 1 |   |  |
| 10:15:00                           | -                        | 10:30:00 | - | -       | 20 | 12 | -               | 2 | 4  | -           | -  | -            | -              | -                         | 3  | 1                   | -  | 1            | 5  | -      | -                     | -        | -  | -          | -                     | 80         | 33 | -        | 3     | - | 1 |  |
| 10:30:00                           | -                        | 10:45:00 | - | -       | 21 | 19 | -               | 1 | 3  | -           | -  | -            | -              | -                         | 5  | -                   | 2  | 4            | -  | -      | -                     | -        | -  | -          | 57                    | 34         | -  | -        | -     | 1 |   |  |
| 10:45:00                           | -                        | 11:00:00 | - | -       | 21 | 21 | -               | 7 | 8  | -           | -  | -            | -              | -                         | 4  | -                   | 3  | 3            | -  | -      | -                     | -        | -  | -          | 54                    | 36         | -  | -        | -     | 1 |   |  |
| 11:00:00                           | -                        | 11:15:00 | - | -       | 24 | 19 | -               | 2 | 5  | -           | -  | -            | -              | -                         | 3  | -                   | 1  | 8            | -  | -      | -                     | -        | -  | -          | 60                    | 35         | -  | -        | -     | 1 |   |  |
| 11:15:00                           | -                        | 11:30:00 | - | -       | 20 | 30 | -               | 3 | 11 | -           | -  | -            | -              | -                         | 6  | -                   | 3  | 11           | -  | -      | -                     | -        | -  | -          | 68                    | 37         | -  | -        | -     | 1 |   |  |
| 11:30:00                           | -                        | 11:45:00 | - | -       | 21 | 24 | -               | 5 | 6  | -           | -  | -            | -              | -                         | 1  | -                   | 3  | 2            | -  | -      | -                     | -        | -  | -          | 50                    | 32         | -  | 5        | -     | 1 |   |  |
| 11:45:00                           | -                        | 12:00:00 | - | -       | 20 | 23 | -               | 3 | 9  | -           | -  | -            | -              | -                         | 4  | -                   | 2  | 1            | -  | -      | -                     | -        | -  | -          | 59                    | 28         | -  | 1        | -     | 1 |   |  |
| 12:00:00                           | -                        | 12:15:00 | - | -       | 16 | 17 | -               | 2 | 5  | -           | -  | -            | -              | -                         | 4  | -                   | 3  | 2            | -  | -      | -                     | -        | -  | -          | 46                    | 26         | -  | -        | 3     | 1 |   |  |
| 12:15:00                           | -                        | 12:30:00 | - | -       | 22 | 20 | -               | 1 | 4  | -           | -  | -            | -              | -                         | 4  | -                   | 4  | 5            | -  | -      | -                     | -        | -  | -          | 49                    | 36         | -  | -        | -     | 1 |   |  |
| 12:30:00                           | -                        | 12:45:00 | - | -       | 12 | 16 | -               | 4 | 2  | -           | -  | -            | -              | -                         | 3  | -                   | 6  | 6            | -  | -      | -                     | -        | -  | -          | 55                    | 35         | -  | 1        | -     | 1 |   |  |
| 12:45:00                           | -                        | 13:00:00 | - | -       | 27 | 21 | -               | 6 | 3  | -           | -  | -            | -              | -                         | 5  | -                   | 1  | 5            | -  | -      | -                     | -        | -  | -          | 57                    | 43         | -  | -        | -     | 1 |   |  |
| 13:00:00                           | -                        | 13:15:00 | - | -       | 15 | 13 | -               | 2 | 3  | -           | -  | -            | -              | -                         | 7  | -                   | 1  | 2            | -  | -      | -                     | -        | -  | -          | 61                    | 36         | -  | -        | -     | 1 |   |  |
| 13:15:00                           | -                        | 13:30:00 | - | -       | 20 | 16 | -               | 3 | 4  | -           | -  | -            | -              | -                         | 6  | -                   | 2  | 8            | -  | -      | -                     | -        | -  | -          | 57                    | 37         | -  | 3        | -     | 1 |   |  |
| 13:30:00                           | -                        | 13:45:00 | - | -       | 22 | 12 | -               | 4 | 2  | -           | -  | -            | -              | -                         | 3  | -                   | 1  | 6            | -  | -      | -                     | -        | -  | -          | 59                    | 40         | -  | -        | -     | 1 |   |  |
| 13:45:00                           | -                        | 14:00:00 | - | -       | 21 | 12 | -               | 4 | 3  | -           | -  | -            | -              | -                         | 5  | -                   | 3  | 5            | -  | -      | -                     | -        | -  | -          | 69                    | 41         | -  | -        | -     | 1 |   |  |
| 14:00:00                           | -                        | 14:15:00 | - | -       | 24 | 11 | -               | 7 | 4  | -           | -  | -            | -              | -                         | 4  | -                   | 2  | 3            | -  | -      | -                     | -        | -  | -          | 47                    | 44         | -  | 2        | -     | 1 |   |  |
| 14:15:00                           | -                        | 14:30:00 | - | -       | 20 | 15 | -               | 3 | 7  | -           | -  | -            | -              | -                         | 3  | -                   | 3  | 2            | -  | -      | -                     | -        | -  | -          | 36                    | 41         | -  | -        | -     | 1 |   |  |
| 14:30:00                           | -                        | 14:45:00 | - | -       | 19 | 17 | -               | 3 | 3  | -           | -  | -            | -              | -                         | 2  | 1                   | 4  | 4            | -  | -      | -                     | -        | -  | -          | 71                    | 44         | -  | 1        | -     | 1 |   |  |
| 14:45:00                           | -                        | 15:00:00 | - | -       | 18 | 16 | -               | 5 | 3  | -           | -  | -            | -              | -                         | 35 | -                   | 2  | 5            | -  | -      | -                     | -        | -  | -          | 72                    | 46         | -  | 2        | 3     | 1 |   |  |
| 15:00:00                           | -                        | 15:15:00 | - | -       | 19 | 18 | -               | 4 | 2  | -           | -  | -            | -              | -                         | 2  | 1                   | 3  | 5            | -  | -      | -                     | -        | -  | -          | 70                    | 42         | -  | 1        | -     | 3 |   |  |
| 15:15:00                           | -                        | 15:30:00 | - | -       | 31 | 34 | -               | 1 | 5  | -           | -  | -            | -              | -                         | 2  | -                   | 4  | 4            | -  | -      | -                     | -        | -  | -          | 62                    | 39         | -  | 1        | -     | 2 |   |  |
| 15:30:00                           | -                        | 15:45:00 | - | -       | 24 | 23 | -               | 3 | 4  | -           | -  | -            | -              | -                         | 4  | -                   | 3  | 3            | -  | -      | -                     | -        | -  | -          | 73                    | 42         | -  | 3        | -     | 3 |   |  |
| 15:45:00                           | -                        | 16:00:00 | - | -       | 30 | 22 | -               | 3 | 1  | -           | -  | -            | -              | -                         | 3  | -                   | 2  | 4            | -  | -      | -                     | -        | -  | -          | 73                    | 50         | -  | 2        | 2     | 1 |   |  |
| 16:00:00                           | -                        | 16:15:00 | - | -       | 20 | 12 | -               | 3 | 6  | -           | -  | -            | -              | -                         | 1  | 1                   | 3  | 5            | -  | -      | -                     | -        | -  | -          | 76                    | 36         | -  | -        | 1     | 1 |   |  |
| 16:15:00                           | -                        | 16:30:00 | - | -       | 21 | 17 | -               | 9 | 5  | -           | -  | -            | -              | -                         | 1  | -                   | 1  | 3            | -  | -      | -                     | -        | -  | -          | 72                    | 46         | -  | 2        | -     | 1 |   |  |
| 16:30:00                           | -                        | 16:45:00 | - | -       | 22 | 16 | -               | 8 | 3  | -           | -  | -            | -              | -                         | 3  | -                   | 2  | 2            | -  | -      | -                     | -        | -  | -          | 73                    | 45         | -  | -        | -     | 1 |   |  |
| 16:45:00                           | -                        | 17:00:00 | - | -       | 24 | 13 | -               | 9 | 3  | -           | -  | -            | -              | -                         | 3  | -                   | 4  | 2            | -  | -      | -                     | -        | -  | -          | 80                    | 44         | -  | -        | -     | 1 |   |  |
| 17:00:00                           | -                        | 17:15:00 | - | -       | 25 | 12 | -               | 5 | 4  | -           | -  | -            | -              | -                         | 2  | -                   | 3  | 2            | -  | -      | -                     | -        | -  | -          | 71                    | 40         | -  | 3        | -     | 1 |   |  |
| 17:15:00                           | -                        | 17:30:00 | - | -       | 21 | 19 | -               | 3 | 5  | -           | -  | -            | -              | -                         | 1  | -                   | 2  | 3            | -  | -      | -                     | -        | -  | -          | 69                    | 39         | -  | -        | -     | 1 |   |  |
| 17:30:00                           | -                        | 17:45:00 | - | -       | 20 | 18 | -               | 4 | 3  | -           | -  | -            | -              | -                         | 3  | -                   | 2  | 4            | -  | -      | -                     | -        | -  | -          | 59                    | 41         | -  | -        | -     | 1 |   |  |
| 17:45:00                           | -                        | 18:00:00 | - | -       | 22 | 14 | -               | 1 | 2  | -           | -  | -            | -              | -                         | 4  | -                   | 3  | 3            | -  | -      | -                     | -        | -  | -          | 46                    | 39         | -  | 1        | -     | 2 |   |  |
| 18:00:00                           | -                        | 18:15:00 | - | -       | 20 | 22 | -               | 2 | 5  | -           | -  | -            | -              | -                         | 5  | 1                   | 2  | 2            | -  | -      | -                     | -        | -  | -          | 82                    | 44         | -  | -        | -     | 1 |   |  |
| 18:15:00                           | -                        | 18:30:00 | - | -       | 31 | 18 | -               | 4 | 4  | -           | -  | -            | -              | -                         | 3  | -                   | 1  | 3            | -  | -      | -                     | -        | -  | -          | 90                    | 33         | -  | -        | -     | 1 |   |  |
| 18:30:                             |                          |          |   |         |    |    |                 |   |    |             |    |              |                |                           |    |                     |    |              |    |        |                       |          |    |            |                       |            |    |          |       |   |   |  |

## **SURVAI VOLUME LALU LINTAS PERGERAKAN MEMBELOK**

|              |                     |
|--------------|---------------------|
| Nama Simpang | Alternatif Wonorejo |
| Kota         | Lumajang            |
| Dari Arah    | Jalan Alternatif    |
| Ke Arah      |                     |

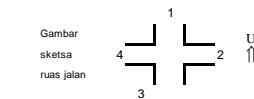


Hari :  
Tanggal :  
Surveyor :

| WAKTU<br>SURVAI<br>( 15 menit-an ) | LIGHT VEHICLES<br>( LV ) |          |    |         |   |    |                 |   |    |    | HEAVY VEHICLES |    |              |    |                           |    |                     |    |              |    | MOTORCYCLES<br>( MC ) |    |        |    | UNMOTORISED<br>( UM ) |    |    |    | CUACA<br>1. Cerah<br>2. Gerimis<br>3. Mendung<br>4. Hujan |   |   |   |
|------------------------------------|--------------------------|----------|----|---------|---|----|-----------------|---|----|----|----------------|----|--------------|----|---------------------------|----|---------------------|----|--------------|----|-----------------------|----|--------|----|-----------------------|----|----|----|---|---|---|---|
|                                    | Mobil/Sedan<br>Carry/Van |          |    | Pick-Up |   |    | Microlet/<br>AU |   |    |    | Bus<br>Kota    |    | Bus<br>Besar |    | Truk Sedang<br>Bus Sedang |    | Gandeng/<br>Trailer |    | Sepeda Motor |    |                       |    | Sepeda |    |                       |    |    |    |   |   |   |   |
|                                    | =                        | ↑        | ⇒  | =       | ↑ | ⇒  | =               | ↑ | ⇒  | =  | =              | ↑  | ⇒            | =  | ↑                         | ⇒  | =                   | ↑  | ⇒            | =  | ↑                     | ⇒  | =      | ↑  | ⇒                     | =  | ↑  | ⇒  |   |   |   |   |
|                                    | 2                        | 3        | 4  | 5       | 6 | 7  | 8               | 9 | 10 | 11 | 12             | 13 | 14           | 15 | 16                        | 17 | 18                  | 19 | 20           | 21 | 22                    | 23 | 24     | 25 | 26                    | 27 | 28 | 29 |   |   |   |   |
| 6:00:00                            | -                        | 6:15:00  | 12 | -       | 1 | 2  | -               | - | -  | -  | -              | -  | 1            | -  | 2                         | -  | -                   | 1  | -            | -  | 47                    | -  | 13     | 1  | -                     | 1  | -  | -  | -   | - |   |   |
| 6:15:00                            | -                        | 6:30:00  | 11 | -       | 3 | 1  | -               | - | -  | -  | -              | -  | -            | -  | -                         | 3  | -                   | -  | 1            | -  | -                     | 71 | -      | 22 | -                     | -  | 1  | -  | -   | - | - |   |
| 6:30:00                            | -                        | 6:45:00  | 14 | -       | 3 | -  | -               | - | -  | -  | -              | -  | 2            | -  | 5                         | -  | -                   | 2  | -            | -  | 74                    | -  | 21     | 2  | -                     | -  | -  | -  | -   | - |   |   |
| 6:45:00                            | -                        | 7:00:00  | 22 | -       | 2 | 4  | -               | - | -  | -  | -              | -  | -            | 1  | -                         | 4  | -                   | -  | 1            | -  | -                     | 73 | -      | 19 | 1                     | -  | -  | -  | -   | - | - |   |
| 7:00:00                            | -                        | 7:15:00  | 14 | -       | 3 | -  | -               | - | -  | -  | -              | -  | -            | -  | -                         | 3  | -                   | -  | 1            | -  | -                     | 70 | -      | 16 | -                     | -  | 3  | -  | -   | - | - |   |
| 7:15:00                            | -                        | 7:30:00  | 13 | -       | 1 | 3  | -               | - | -  | 1  | -              | -  | 1            | -  | 5                         | -  | -                   | 1  | -            | -  | 60                    | -  | 15     | 1  | -                     | 1  | -  | -  | -   | - |   |   |
| 7:30:00                            | -                        | 7:45:00  | 22 | -       | 4 | -  | -               | - | 1  | -  | -              | -  | 1            | -  | 4                         | -  | -                   | -  | -            | -  | -                     | 59 | -      | 23 | 2                     | -  | 2  | -  | -   | - | - |   |
| 7:45:00                            | -                        | 8:00:00  | 22 | -       | 2 | 8  | -               | - | -  | -  | -              | -  | -            | -  | 1                         | 5  | -                   | 1  | 1            | -  | -                     | 62 | -      | 12 | -                     | -  | -  | -  | -   | - | - |   |
| 8:00:00                            | -                        | 8:15:00  | 23 | -       | 4 | -  | -               | - | -  | -  | -              | -  | 1            | -  | 1                         | -  | -                   | 3  | -            | -  | 63                    | -  | 15     | 1  | -                     | 3  | -  | -  | -   | - |   |   |
| 8:15:00                            | -                        | 8:30:00  | 24 | -       | 2 | -  | -               | - | -  | -  | -              | -  | -            | -  | 5                         | -  | 1                   | 1  | -            | -  | 73                    | -  | 13     | -  | -                     | -  | -  | -  | -   | - |   |   |
| 8:30:00                            | -                        | 8:45:00  | 20 | -       | 5 | -  | -               | - | -  | -  | -              | -  | -            | -  | 1                         | -  | -                   | 1  | -            | -  | 74                    | -  | 12     | 2  | -                     | -  | -  | -  | -   | - |   |   |
| 8:45:00                            | -                        | 9:00:00  | 22 | -       | 1 | 3  | -               | - | -  | -  | -              | -  | 2            | -  | 3                         | -  | -                   | 3  | -            | -  | 59                    | -  | 14     | -  | -                     | -  | -  | -  | -   | - |   |   |
| 9:00:00                            | -                        | 9:15:00  | 21 | -       | 1 | 4  | -               | - | -  | -  | -              | -  | -            | -  | 2                         | -  | -                   | 2  | -            | -  | 71                    | -  | 13     | 2  | -                     | 2  | -  | -  | -   | - |   |   |
| 9:15:00                            | -                        | 9:30:00  | 22 | -       | 2 | 3  | -               | - | -  | -  | -              | -  | -            | -  | 4                         | -  | -                   | 1  | -            | -  | 62                    | -  | 11     | 3  | -                     | -  | -  | -  | -   | - |   |   |
| 9:30:00                            | -                        | 9:45:00  | 19 | -       | 4 | -  | -               | - | -  | -  | -              | -  | 3            | -  | 5                         | -  | -                   | 1  | -            | -  | 60                    | -  | 17     | 2  | -                     | -  | -  | -  | -   | - |   |   |
| 9:45:00                            | -                        | 10:00:00 | 18 | -       | 2 | 2  | -               | - | -  | 1  | -              | -  | -            | -  | 2                         | -  | -                   | 1  | -            | -  | 68                    | -  | 15     | 1  | -                     | 1  | -  | -  | -   | - |   |   |
| 10:00:00                           | -                        | 10:15:00 | 20 | -       | 5 | -  | -               | - | -  | -  | -              | -  | 2            | -  | 2                         | -  | -                   | -  | -            | -  | 57                    | -  | 16     | 1  | -                     | -  | -  | -  | -   | - |   |   |
| 10:15:00                           | -                        | 10:30:00 | 19 | -       | 1 | 4  | -               | - | -  | -  | -              | -  | -            | -  | 3                         | -  | -                   | 2  | -            | -  | 64                    | -  | 18     | -  | -                     | -  | -  | -  | -   | - |   |   |
| 10:30:00                           | -                        | 10:45:00 | 17 | -       | 3 | -  | -               | - | -  | -  | -              | -  | -            | -  | 3                         | -  | -                   | 1  | -            | -  | 62                    | -  | 16     | -  | -                     | 3  | -  | -  | -   | - |   |   |
| 10:45:00                           | -                        | 11:00:00 | 22 | -       | 2 | -  | -               | - | -  | -  | -              | -  | -            | -  | 4                         | -  | -                   | -  | -            | -  | 55                    | -  | 13     | -  | -                     | -  | -  | -  | -   | - |   |   |
| 11:00:00                           | -                        | 11:15:00 | 21 | -       | 2 | 2  | -               | - | -  | -  | -              | -  | -            | -  | 7                         | -  | -                   | 2  | -            | -  | 66                    | -  | 18     | -  | -                     | 1  | -  | -  | -   | - |   |   |
| 11:15:00                           | -                        | 11:30:00 | 33 | -       | 6 | 2  | -               | - | -  | -  | -              | -  | -            | -  | 1                         | -  | -                   | 1  | -            | -  | 70                    | -  | 11     | 1  | -                     | 1  | -  | -  | -   | - |   |   |
| 11:30:00                           | -                        | 11:45:00 | 37 | -       | 1 | 2  | -               | - | -  | -  | -              | -  | -            | -  | 7                         | -  | -                   | -  | -            | -  | 63                    | -  | 12     | -  | -                     | -  | -  | -  | -   | - |   |   |
| 11:45:00                           | -                        | 12:00:00 | 26 | -       | 1 | 2  | -               | - | -  | -  | -              | -  | -            | -  | 8                         | -  | -                   | -  | -            | -  | 51                    | -  | 19     | 1  | -                     | -  | -  | -  | -   | - |   |   |
| 12:00:00                           | -                        | 12:15:00 | 36 | -       | 1 | 6  | -               | - | -  | 1  | -              | -  | -            | -  | 3                         | -  | -                   | 1  | -            | -  | 78                    | -  | 23     | 1  | -                     | -  | -  | -  | -   | - |   |   |
| 12:15:00                           | -                        | 12:30:00 | 40 | -       | 5 | -  | -               | - | -  | -  | -              | -  | -            | -  | 12                        | -  | -                   | -  | -            | -  | 52                    | -  | 12     | -  | -                     | 2  | -  | -  | -   | - |   |   |
| 12:30:00                           | -                        | 12:45:00 | 33 | -       | 7 | -  | -               | - | -  | -  | -              | -  | -            | -  | 4                         | -  | -                   | -  | -            | -  | 73                    | -  | 8      | 1  | -                     | 2  | -  | -  | -   | - |   |   |
| 12:45:00                           | -                        | 13:00:00 | 27 | -       | 1 | 4  | -               | - | -  | -  | -              | -  | -            | -  | 13                        | -  | -                   | 1  | -            | -  | 49                    | -  | 25     | -  | -                     | -  | -  | -  | -   | - |   |   |
| 13:00:00                           | -                        | 13:15:00 | 24 | -       | 5 | -  | -               | - | -  | -  | -              | -  | -            | -  | 8                         | -  | -                   | 1  | -            | -  | 47                    | -  | 13     | -  | -                     | -  | -  | -  | -   | - |   |   |
| 13:15:00                           | -                        | 13:30:00 | 25 | -       | 4 | -  | -               | - | -  | -  | -              | -  | -            | -  | 6                         | -  | -                   | 1  | -            | -  | 44                    | -  | 14     | 1  | -                     | 1  | -  | -  | -   | - |   |   |
| 13:30:00                           | -                        | 13:45:00 | 24 | -       | 1 | 3  | -               | - | -  | -  | -              | -  | -            | -  | 9                         | -  | -                   | -  | -            | -  | 41                    | -  | 17     | -  | -                     | -  | -  | -  | -   | - |   |   |
| 13:45:00                           | -                        | 14:00:00 | 22 | -       | 2 | 2  | -               | - | -  | -  | -              | -  | -            | -  | 2                         | -  | -                   | 5  | -            | -  | 39                    | -  | 15     | -  | -                     | -  | -  | -  | -   | - |   |   |
| 14:00:00                           | -                        | 14:15:00 | 21 | -       | 2 | 4  | -               | - | -  | -  | -              | -  | -            | -  | 1                         | -  | -                   | 6  | -            | -  | 41                    | -  | 13     | 1  | -                     | -  | -  | -  | -   | - |   |   |
| 14:15:00                           | -                        | 14:30:00 | 20 | -       | 2 | -  | -               | - | -  | -  | -              | -  | -            | -  | 2                         | -  | -                   | 5  | -            | -  | 47                    | -  | 12     | 2  | -                     | 2  | -  | -  | -   | - |   |   |
| 14:30:00                           | -                        | 14:45:00 | 26 | -       | 5 | -  | -               | - | -  | -  | -              | -  | -            | -  | 7                         | -  | -                   | 1  | -            | -  | 51                    | -  | 19     | 1  | -                     | -  | -  | -  | -   | - |   |   |
| 14:45:00                           | -                        | 15:00:00 | 28 | -       | 2 | 7  | -               | - | -  | -  | -              | -  | -            | -  | 4                         | -  | -                   | -  | -            | -  | 49                    | -  | 20     | 1  | -                     | 1  | -  | -  | -   | - |   |   |
| 15:00:00                           | -                        | 15:15:00 | 47 | -       | 1 | 12 | -               | - | -  | -  | -              | -  | 1            | -  | 11                        | -  | -                   | 1  | -            | -  | 58                    | -  | 23     | -  | -                     | -  | -  | -  | -   | - |   |   |
| 15:15:00                           | -                        | 15:30:00 | 24 | -       | 1 | 4  | -               | - | -  | -  | -              | -  | -            | -  | 5                         | -  | -                   | 2  | -            | -  | 55                    | -  | 21     | -  | -                     | -  | -  | -  | -   | - |   |   |
| 15:30:00                           | -                        | 15:45:00 | 27 | -       | 1 | 7  | -               | - | -  | -  | -              | -  | -            | -  | 2                         | -  | -                   | 4  | -            | -  | 53                    | -  | 19     | 1  | -                     | -  | -  | -  | -   | - |   |   |
| 15:45:00                           | -                        | 16:00:00 | 50 | -       | 4 | -  | -               | - | -  | -  | -              | -  | 1            | -  | 2                         | -  | -                   | 1  | -            | -  | 87                    | -  | 42     | 3  | -                     | -  | -  | -  | -   | - |   |   |
| 16:00:00                           | -                        | 16:15:00 | 32 | -       | 7 | -  | 1               | - | -  | -  | -              | -  | -            | -  | 5                         | -  | -                   | 1  | -            | -  | 110                   | -  | 27     | 1  | -                     | -  | -  | -  | -   | - |   |   |
| 16:15:00                           | -                        | 16:30:00 | 27 | -       | 2 | 2  | -               | 2 | -  | -  | -              | -  | -            | -  | 2                         | -  | -                   | 2  | -            | -  | 72                    | -  | 22     | 1  | -                     | -  | -  | -  | -   | - |   |   |
| 16:30:00                           | -                        | 16:45:00 | 28 | -       | 3 | -  | -               | - | -  | -  | -              | -  | -            | -  | -                         | -  | -                   | -  | -            | -  | 61                    | -  | 24     | -  | -                     | -  | -  | -  | -   | - |   |   |
| 16:45:00                           | -                        | 17:00:00 | 32 | -       | 1 | 4  | -               | - | -  | -  | -              | -  | -            | -  | -                         | -  | -                   | -  | -            | -  | 59                    | -  | 25     | -  | -                     | -  | -  | -  | -   | - |   |   |
| 17:00:00                           | -                        | 17:15:00 | 34 | -       | 2 | 2  | -               | - | -  | -  | -              | -  | -            | -  | 2                         | -  | -                   | 2  | -            | -  | 47                    | -  | 19     | -  | -                     | -  | -  | -  | -   | - |   |   |
| 17:15:00                           | -                        | 17:30:00 | 27 | -       | 5 | -  | -               | - | -  | -  | -              | -  | -            | -  | 1                         | -  | -                   | 1  | -            | -  | 41                    | -  | 16     | 2  | -                     | 1  | -  | -  | -   | - |   |   |
| 17:30:00                           | -                        | 17:45:00 | 28 | -       | 2 | 3  | -               | - | -  | -  | -              | -  | -            | -  | 1                         | -  | -                   | 3  | -            | -  | -                     | -  | 36     | -  | 27                    | -  | -  | -  | -   | - | - | - |
| 17:45:00                           | -                        | 18:00:00 | 25 | -       | 1 | 4  | -               | - | -  | -  | -              | -  | -            | -  | 2                         | -  | -                   | 1  | -            | -  | 34                    | -  | 24     | 2  | -                     | -  | -  | -  | -   | - | - |   |
| 18:00:00                           | -                        | 18:15:00 | 24 | -       | 2 | -  | -               | - | -  | -  | -              | -  | -            | -  | 4                         | -  | -                   | 1  | -            | -  | 35                    | -  | 18     | 1  | -                     | 2  | -  | -  | -   | - |   |   |
| 18:15:00                           | -                        | 18:30:00 | 28 | -       | 2 | -  | -               | - | -  | -  | -              | -  | -            | -  | 2                         | -  | -                   | 2  | -            | -  | 34                    | -  | 25     | -  | -                     | -  | -  | -  | -   | - |   |   |
| 18:30:00                           | -                        | 18:45:00 | 26 | -       | 2 | 5  | -               | - | -  | -  | -              | -  | -            | -  | 5                         | -  | -                   | 2  | -            | -  | 37                    | -  | 15     | 1  | -                     | -  | -  | -  | -   | - | - |   |
| 18:45:00                           | -                        | 19:00:00 | 26 | -       | 2 | 4  | -               | - | -  | -  | -              | -  | -            | -  | 4                         | -  | -                   | 1  | -            | -  | 42                    | -  | 19     | -  | -                     | -  | -  | -  | -   | - |   |   |
| 19:00:00                           | -                        | 19:15:00 | 34 | -       | 1 | 2  | -               | - | -  | -  | -              | -  | -            | -  | 2                         | -  | -                   | 3  | -            | -  | 47                    | -  | 30     | -  | -                     | 2  | -  | -  | -   | - |   |   |
| 19:15:00                           | -                        | 19:30:00 | 55 | -       | 1 | -  | -               | - | -  | -  | -              | -  | -            | -  | 7                         | -  | -                   | 3  | -            | -  | 1                     | 61 | -      | 15 | 1                     | -  | -  | -  | -   | - | - |   |
| 19:30:00                           | -                        | 19:45:00 | 22 | -       | 1 | 4  | -               | - | -  | -  | -              | -  | -            | -  | 5                         | -  | -                   | 2  | -            | -  | 1                     | 52 | -      | 24 | -                     | -  | -  | -  | -   | - | - |   |
| 19:45:00                           | -                        | 20:00:00 | 42 | -       | 3 | 7  | -               | - | -  | -  | -              | -  | -            | -  | 7                         | -  | -                   | 1  | -            | -  | 46                    | -  | 11     | -  | -                     | 1  | -  | -  | -   | - |   |   |
| 20:00:00                           | -                        | 20:15:00 | 39 | -       | 2 | -  | -               | - | -  | -  | -              | -  | -            | -  | 2                         | -  | -                   | 6  | -            | -  | 1                     | -  | 45     | -  | 12                    | -  | -  | 1  | -   | - | - | - |
| 20:15:00                           | -                        | 20:30:00 |    |         |   |    |                 |   |    |    |                |    |              |    |                           |    |                     |    |              |    |                       |    |        |    |                       |    |    |    |   |   |   |   |

#### **SURVAI VOLUME LALU LINTAS PERGERAKAN MEMBELOK**

|              |                     |
|--------------|---------------------|
| Nama Simpang | Alternatif Wonorejo |
| Kota         | Lumajang            |
| Dari Arah    | Kota                |
| Ke Arah      |                     |



Hari :  
Tanggal :  
Surveyor :

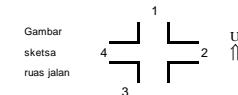
| WAKTU<br>SURVAI<br>( 15 menit-an ) | LIGHT VEHICLES<br>( LV ) |          |   |         |    |   |                 |   |   |    | HEAVY VEHICLES |    |              |    |                           |    |                     |    |              |    | MOTORCYCLES<br>( MC ) |    |        |    | UNMOTORISED<br>( UM ) |    |    |    | CUACA<br>1. Cerah<br>2. Gerimis<br>3. Mendung<br>4. Hujan |   |
|------------------------------------|--------------------------|----------|---|---------|----|---|-----------------|---|---|----|----------------|----|--------------|----|---------------------------|----|---------------------|----|--------------|----|-----------------------|----|--------|----|-----------------------|----|----|----|---|---|
|                                    | Mobil/Sedan<br>Carry/Van |          |   | Pick-Up |    |   | Microlet/<br>AU |   |   |    | Bus<br>Kota    |    | Bus<br>Besar |    | Truk Sedang<br>Bus Sedang |    | Gandeng/<br>Trailer |    | Sepeda Motor |    |                       |    | Sepeda |    |                       |    |    |    |   |   |
|                                    | =                        | ↑        | ⇒ | =       | ↑  | ⇒ | =               | ↑ | ⇒ | =  | =              | ↑  | ⇒            | =  | ↑                         | ⇒  | =                   | ↑  | ⇒            | =  | ↑                     | ⇒  | =      | ↑  | ⇒                     | =  | ↑  | ⇒  |   |   |
|                                    | 1                        | 2        | 3 | 4       | 5  | 6 | 7               | 8 | 9 | 10 | 11             | 12 | 13           | 14 | 15                        | 16 | 17                  | 18 | 19           | 20 | 21                    | 22 | 23     | 24 | 25                    | 26 | 27 | 28 | 29  |   |
| 6:00:00                            | -                        | 6:15:00  | - | 12      | -  | 2 | 2               | - | - | -  | -              | -  | -            | 1  | -                         | 1  | -                   | -  | -            | -  | -                     | -  | -      | 9  | 51                    | -  | 1  | 1  | -   | 1 |
| 6:15:00                            | -                        | 6:30:00  | - | 2       | 14 | - | 1               | 1 | - | -  | -              | -  | -            | 1  | -                         | 3  | -                   | -  | -            | -  | -                     | -  | -      | 15 | 69                    | -  | 2  | 2  | -   | 1 |
| 6:30:00                            | -                        | 6:45:00  | - | 13      | -  | 2 | -               | - | - | -  | -              | -  | -            | 1  | -                         | -  | -                   | -  | -            | -  | -                     | -  | -      | 6  | 65                    | -  | 2  | -  | -   | 1 |
| 6:45:00                            | -                        | 7:00:00  | - | 16      | -  | 3 | -               | - | - | -  | -              | -  | -            | 1  | -                         | -  | -                   | -  | -            | -  | -                     | -  | -      | 7  | 57                    | -  | 1  | -  | -   | 1 |
| 7:00:00                            | -                        | 7:15:00  | - | 11      | -  | 1 | -               | - | - | -  | -              | -  | -            | 1  | -                         | -  | -                   | -  | -            | -  | -                     | -  | -      | 5  | 52                    | -  | 2  | 1  | -   | 1 |
| 7:15:00                            | -                        | 7:30:00  | - | 1       | 7  | - | 4               | - | - | -  | -              | -  | -            | 4  | -                         | 1  | -                   | -  | -            | -  | -                     | -  | -      | 16 | 40                    | -  | 1  | 1  | -   | 1 |
| 7:30:00                            | -                        | 7:45:00  | - | 14      | -  | 2 | -               | - | - | -  | -              | -  | -            | 2  | -                         | 4  | -                   | -  | -            | -  | -                     | -  | -      | 12 | 65                    | -  | -  | 1  | -   | 1 |
| 7:45:00                            | -                        | 8:00:00  | - | 3       | 13 | - | 1               | 1 | - | -  | -              | -  | -            | 3  | -                         | -  | -                   | -  | -            | -  | -                     | -  | -      | 13 | 52                    | -  | -  | -  | -   | 1 |
| 8:00:00                            | -                        | 8:15:00  | - | 12      | -  | 1 | -               | - | - | -  | -              | -  | -            | 4  | -                         | 2  | -                   | -  | -            | -  | -                     | -  | -      | 17 | 53                    | -  | 1  | -  | -   | 1 |
| 8:15:00                            | -                        | 8:30:00  | - | 13      | -  | 1 | 4               | - | - | -  | -              | -  | -            | 1  | -                         | 5  | -                   | -  | -            | -  | -                     | -  | -      | 11 | 59                    | -  | 2  | 2  | -   | 1 |
| 8:30:00                            | -                        | 8:45:00  | - | 12      | -  | 2 | -               | - | - | -  | -              | -  | -            | 2  | -                         | 3  | -                   | -  | -            | -  | -                     | -  | -      | 12 | 57                    | -  | 2  | -  | -   | 1 |
| 8:45:00                            | -                        | 9:00:00  | - | 15      | -  | 5 | -               | - | - | -  | -              | -  | -            | 3  | -                         | -  | -                   | -  | -            | -  | -                     | -  | -      | 13 | 45                    | -  | 3  | -  | -   | 1 |
| 9:00:00                            | -                        | 9:15:00  | - | 14      | -  | 1 | 3               | - | - | -  | -              | -  | -            | 1  | -                         | 2  | -                   | -  | -            | -  | -                     | -  | -      | 13 | 49                    | -  | 2  | 1  | -   | 1 |
| 9:15:00                            | -                        | 9:30:00  | - | 2       | 16 | - | 1               | 1 | - | -  | -              | -  | -            | 1  | -                         | -  | -                   | -  | -            | -  | -                     | -  | -      | 15 | 50                    | -  | 1  | -  | -   | 1 |
| 9:30:00                            | -                        | 9:45:00  | - | 13      | -  | 2 | -               | - | - | -  | -              | -  | -            | 1  | -                         | -  | -                   | -  | -            | -  | -                     | -  | -      | 13 | 46                    | -  | 2  | -  | -   | 1 |
| 9:45:00                            | -                        | 10:00:00 | - | 1       | 9  | - | 1               | 4 | - | -  | -              | -  | -            | 3  | -                         | 3  | -                   | -  | -            | -  | -                     | -  | -      | 14 | 55                    | -  | 3  | 2  | -   | 1 |
| 10:00:00                           | -                        | 10:15:00 | - | 13      | -  | 3 | -               | - | - | -  | -              | -  | -            | 2  | -                         | -  | -                   | -  | -            | -  | -                     | -  | -      | 15 | 43                    | -  | 2  | -  | -   | 1 |
| 10:15:00                           | -                        | 10:30:00 | - | 14      | -  | 2 | 2               | - | - | -  | -              | -  | -            | 1  | -                         | 2  | -                   | -  | -            | -  | -                     | -  | -      | 12 | 40                    | -  | 2  | -  | -   | 1 |
| 10:30:00                           | -                        | 10:45:00 | - | 17      | -  | 3 | -               | - | - | -  | -              | -  | -            | 2  | -                         | -  | -                   | -  | -            | -  | -                     | -  | -      | 11 | 41                    | -  | 4  | 1  | -   | 1 |
| 10:45:00                           | -                        | 11:00:00 | - | 13      | -  | 4 | -               | - | - | -  | -              | -  | -            | 2  | -                         | -  | -                   | -  | -            | -  | -                     | -  | -      | 17 | 51                    | -  | 2  | 2  | -   | 1 |
| 11:00:00                           | -                        | 11:15:00 | - | 1       | 18 | - | 1               | 4 | - | -  | -              | -  | -            | 2  | -                         | -  | -                   | -  | -            | -  | -                     | -  | -      | 19 | 59                    | -  | 1  | 1  | -   | 1 |
| 11:15:00                           | -                        | 11:30:00 | - | 13      | -  | 1 | -               | - | - | -  | -              | -  | -            | 1  | -                         | 1  | -                   | -  | -            | -  | -                     | -  | -      | 18 | 65                    | -  | 6  | 1  | -   | 1 |
| 11:30:00                           | -                        | 11:45:00 | - | 3       | 17 | - | 1               | 6 | - | -  | -              | -  | -            | 2  | -                         | 2  | -                   | -  | -            | -  | -                     | -  | -      | 9  | 39                    | -  | 1  | 1  | -   | 1 |
| 11:45:00                           | -                        | 12:00:00 | - | 25      | -  | 3 | -               | 1 | - | -  | -              | -  | -            | 2  | -                         | 3  | -                   | -  | -            | -  | -                     | -  | -      | 24 | 62                    | -  | -  | -  | -   | 1 |
| 12:00:00                           | -                        | 12:15:00 | - | 14      | -  | 1 | -               | - | - | -  | -              | -  | -            | 3  | -                         | 1  | -                   | -  | -            | -  | -                     | -  | -      | 17 | 72                    | -  | 1  | 1  | -   | 1 |
| 12:15:00                           | -                        | 12:30:00 | - | 2       | 17 | - | 2               | - | 1 | -  | -              | -  | -            | 4  | -                         | 1  | -                   | -  | -            | -  | -                     | -  | -      | 8  | 60                    | -  | 2  | 3  | -   | 1 |
| 12:30:00                           | -                        | 12:45:00 | - | 25      | -  | - | -               | - | - | -  | -              | -  | -            | 4  | -                         | -  | -                   | -  | -            | -  | -                     | -  | -      | 19 | 62                    | -  | 2  | 1  | -   | 1 |
| 12:45:00                           | -                        | 13:00:00 | - | 1       | 27 | - | 4               | - | - | -  | -              | -  | -            | 2  | -                         | 2  | -                   | -  | -            | -  | -                     | -  | -      | 15 | 57                    | -  | 1  | 2  | -   | 1 |
| 13:00:00                           | -                        | 13:15:00 | - | 24      | -  | 2 | -               | - | - | -  | -              | -  | -            | 2  | -                         | 2  | -                   | -  | -            | -  | -                     | -  | -      | 13 | 52                    | -  | -  | 2  | -   | 1 |
| 13:15:00                           | -                        | 13:30:00 | - | 22      | -  | 4 | -               | - | - | -  | -              | -  | -            | 1  | -                         | 2  | -                   | -  | -            | -  | -                     | -  | -      | 15 | 41                    | -  | 2  | -  | -   | 1 |
| 13:30:00                           | -                        | 13:45:00 | - | 2       | 15 | - | 3               | - | - | -  | -              | -  | -            | 1  | -                         | -  | -                   | -  | -            | -  | -                     | -  | -      | 20 | 49                    | 3  | 2  | -  | -   | 1 |
| 13:45:00                           | -                        | 14:00:00 | - | 2       | 24 | - | 2               | 2 | - | -  | -              | -  | -            | 1  | -                         | 3  | -                   | -  | -            | -  | -                     | -  | -      | 20 | 51                    | -  | -  | -  | -   | 1 |
| 14:00:00                           | -                        | 14:15:00 | - | 20      | -  | 5 | -               | - | - | -  | -              | -  | -            | 2  | -                         | 2  | -                   | -  | -            | -  | -                     | -  | -      | 27 | 56                    | -  | 3  | 1  | -   | 1 |
| 14:15:00                           | -                        | 14:30:00 | - | 18      | -  | 3 | -               | - | - | -  | -              | -  | -            | 3  | -                         | 1  | -                   | -  | -            | -  | -                     | -  | -      | 19 | 51                    | -  | 2  | -  | -   | 1 |
| 14:30:00                           | -                        | 14:45:00 | - | 17      | -  | 1 | 4               | - | - | -  | -              | -  | -            | 2  | -                         | -  | -                   | -  | -            | -  | -                     | -  | -      | 20 | 57                    | -  | -  | -  | -   | 1 |
| 14:45:00                           | -                        | 15:00:00 | - | 22      | -  | 2 | -               | - | - | -  | -              | -  | -            | 1  | -                         | -  | -                   | -  | -            | -  | -                     | -  | -      | 17 | 54                    | 2  | 1  | -  | 3   | 1 |
| 15:00:00                           | -                        | 15:15:00 | - | 2       | 21 | - | 3               | - | - | -  | -              | -  | -            | 2  | -                         | 1  | -                   | -  | -            | -  | -                     | -  | -      | 17 | 61                    | -  | 1  | -  | -   | 3 |
| 15:15:00                           | -                        | 15:30:00 | - | 3       | 18 | - | 4               | - | - | -  | -              | -  | -            | 3  | -                         | 1  | -                   | -  | -            | -  | -                     | -  | -      | 13 | 63                    | -  | -  | 2  | -   | 2 |
| 15:30:00                           | -                        | 15:45:00 | - | 17      | -  | 4 | -               | - | - | -  | -              | -  | -            | 3  | -                         | 1  | -                   | -  | -            | -  | -                     | -  | -      | 16 | 60                    | -  | 3  | -  | -   | 3 |
| 15:45:00                           | -                        | 16:00:00 | - | 3       | 21 | - | 4               | - | - | -  | -              | -  | -            | 3  | -                         | 1  | -                   | -  | -            | -  | -                     | -  | -      | 23 | 59                    | -  | -  | 3  | -   | 1 |
| 16:00:00                           | -                        | 16:15:00 | - | 1       | 16 | - | 5               | - | - | -  | -              | -  | -            | 2  | -                         | 2  | -                   | -  | -            | -  | -                     | -  | -      | 15 | 83                    | -  | 2  | -  | -   | 1 |
| 16:15:00                           | -                        | 16:30:00 | - | 18      | -  | 1 | -               | - | - | -  | -              | -  | -            | 1  | -                         | 3  | -                   | -  | -            | -  | -                     | -  | -      | 17 | 73                    | -  | 4  | -  | -   | 1 |
| 16:30:00                           | -                        | 16:45:00 | - | 26      | -  | 6 | -               | - | - | -  | -              | -  | -            | 3  | -                         | 3  | -                   | -  | -            | -  | -                     | -  | -      | 23 | 102                   | -  | 1  | 2  | -   | 1 |
| 16:45:00                           | -                        | 17:00:00 | - | 18      | -  | - | -               | - | - | -  | -              | -  | -            | 2  | -                         | -  | 1                   | -  | -            | -  | -                     | -  | -      | 20 | 90                    | -  | 3  | -  | -   | 1 |
| 17:00:00                           | -                        | 17:15:00 | - | 16      | -  | 1 | -               | - | - | -  | -              | -  | -            | 1  | -                         | 2  | -                   | -  | -            | -  | -                     | -  | -      | 24 | 84                    | -  | 1  | -  | -   | 1 |
| 17:15:00                           | -                        | 17:30:00 | - | 14      | -  | 2 | 2               | - | - | -  | -              | -  | -            | 1  | -                         | 2  | -                   | -  | -            | -  | -                     | -  | -      | 13 | 82                    | -  | 1  | -  | -   | 1 |
| 17:30:00                           | -                        | 17:45:00 | - | 15      | -  | 2 | 3               | - | - | -  | -              | -  | -            | 2  | -                         | 1  | -                   | -  | -            | -  | -                     | -  | -      | 20 | 73                    | -  | -  | -  | -   | 1 |
| 17:45:00                           | -                        | 18:00:00 | - | 1       | 17 | - | 4               | - | - | -  | -              | -  | -            | 2  | -                         | 3  | -                   | -  | -            | -  | -                     | -  | -      | 12 | 71                    | -  | 1  | 3  | -   | 2 |
| 18:00:00                           | -                        | 18:15:00 | - | 1       | 25 | - | 1               | 2 | - | -  | -              | -  | -            | 2  | -                         | 2  | -                   | -  | -            | -  | -                     | -  | -      | 13 | 65                    | -  | -  | -  | -   | 1 |
| 18:15:00                           | -                        | 18:30:00 | - | 2       | 22 | - | 2               | - | - | -  | -              | -  | -            | 2  | -                         | 1  | -                   | -  | -            | -  | -                     | -  | -      | 15 | 68                    | -  | 2  | -  | -   | 1 |
| 18:30:00                           | -                        | 18:45:00 | - | 23      | -  | 1 | 3               | - | - | -  | -              | -  | -            | 2  | -                         | -  | -                   | -  | -            | -  | -                     | -  | -      | 28 | 65                    | -  | 2  | -  | -   | 1 |
| 18:45:00                           | -                        | 19:00:00 | - | 22      | -  | 2 | -               | - | - | -  | -              | -  | -            | 1  | -                         | -  | -                   | -  | -            | -  | -                     | -  | -      | 24 | 61                    | -  | -  | -  | -   | 1 |
| 19:00:00                           | -                        | 19:15:00 | - | 21      | -  | 6 | -               | - | - | -  | -              | -  | -            | 1  | -                         | 1  | -                   | -  | -            | -  | -                     | -  | -      | 25 | 58                    | -  | 1  | -  | -   | 1 |
| 19:15:00                           | -                        | 19:30:00 | - | 13      | -  | - | -               | - | - | -  | -              | -  | -            | 4  | -                         | -  | -                   | -  | -            | -  | -                     | -  | -      | 14 | 49                    | -  | -  | -  | -   | 1 |
| 19:30:00                           | -                        | 19:45:00 | - | 1       | 14 | - | 1               | 3 | - | -  | -              | -  | -            | 1  | -                         | 1  | -                   | -  | -            | -  | -                     | -  | -      | 13 | 63                    | -  | 1  | -  | -   | 1 |
| 19:45:00                           | -                        | 20:00:00 | - | 14      | -  | 2 | 2               | - | - | -  | -              | -  | -            | 3  | -                         | 2  | -                   | -  | -            | -  | -                     | -  | -      | 12 | 60                    | -  | 1  | -  | -   | 1 |
| 20:00:00                           | -                        | 20:15:00 | - | 16      | -  | 2 | -               | - | - | -  | -              | -  | -            | 4  | -                         | 1  | -                   | -  | -            | -  | -                     | -  | -      | 11 | 69                    | -  | -  | -  | -   | 1 |
| 20:15:00                           | -                        | 20:30:00 | - | 22      | -  | 2 | 2               |   |   |    |                |    |              |    |                           |    |                     |    |              |    |                       |    |        |    |                       |    |    |    |   |   |

**SURVAI VOLUME LALU LINTAS PERGERAKAN MEMBELOK**

| WAKTU<br>SURVAI<br>( 15 menit-an ) | LIGHT VEHICLES<br>( LV ) |          |   |         |    |   |                 |    |   |             |    |              | HEAVY VEHICLES |                           |    |                     |    |              |    |        |    |          | MOTORCYCLES<br>( MC ) |            |    |            | UNMOTORISED<br>( UM ) |          |    |  | CUACA |  |  |  |
|------------------------------------|--------------------------|----------|---|---------|----|---|-----------------|----|---|-------------|----|--------------|----------------|---------------------------|----|---------------------|----|--------------|----|--------|----|----------|-----------------------|------------|----|------------|-----------------------|----------|----|--|-------|--|--|--|
|                                    | Mobil/Sedan<br>Carry/Van |          |   | Pick-Up |    |   | Microlet/<br>AU |    |   | Bus<br>Kota |    | Bus<br>Besar |                | Truk Sedang<br>Bus Sedang |    | Gandeng/<br>Trailer |    | Sepeda Motor |    | Sepeda |    | 1. Cerah |                       | 2. Gerimis |    | 3. Mendung |                       | 4. Hujan |    |  |       |  |  |  |
|                                    | ≤                        | ↑        | ≥ | ≤       | ↑  | ≥ | ≤               | ↑  | ≥ | ≤           | ↑  | ≥            | ≤              | ↑                         | ≥  | ≤                   | ↑  | ≥            | ≤  | ↑      | ≥  | ≤        | ↑                     | ≥          | ≤  | ↑          | ≥                     | 4. Hujan |    |  |       |  |  |  |
|                                    | 1                        | 2        | 3 | 4       | 5  | 6 | 7               | 8  | 9 | 10          | 11 | 12           | 13             | 14                        | 15 | 16                  | 17 | 18           | 19 | 20     | 21 | 22       | 23                    | 24         | 25 | 26         | 27                    | 28       | 29 |  |       |  |  |  |
| 6:00:00                            | -                        | 6:15:00  | - | -       | 9  | 1 | -               | 7  | 2 | -           | -  | -            | -              | -                         | 2  | -                   | -  | 12           | 4  | 5      | -  | -        | 43                    | 23         | -  | 5          | 2                     | 1        |    |  |       |  |  |  |
| 6:15:00                            | -                        | 6:30:00  | - | -       | 22 | 3 | -               | 4  | - | -           | -  | -            | -              | -                         | 1  | -                   | 8  | 6            | -  | 4      | 1  | -        | 62                    | 27         | -  | 1          | 1                     | 1        |    |  |       |  |  |  |
| 6:30:00                            | -                        | 6:45:00  | - | -       | 39 | 2 | -               | 8  | 1 | -           | -  | -            | -              | -                         | 1  | -                   | 13 | 7            | -  | 2      | -  | -        | 76                    | 31         | -  | -          | 2                     | 1        |    |  |       |  |  |  |
| 6:45:00                            | -                        | 7:00:00  | - | -       | 37 | 3 | -               | 11 | 1 | -           | -  | -            | -              | -                         | 2  | -                   | 15 | 6            | -  | 7      | -  | -        | 77                    | 26         | -  | 4          | 1                     | 1        |    |  |       |  |  |  |
| 7:00:00                            | -                        | 7:15:00  | - | -       | 31 | 3 | -               | 3  | 1 | -           | -  | -            | -              | -                         | 3  | -                   | 11 | 2            | -  | 5      | -  | -        | 72                    | 24         | -  | -          | 3                     | 1        |    |  |       |  |  |  |
| 7:15:00                            | -                        | 7:30:00  | - | -       | 27 | 3 | -               | 12 | 5 | -           | -  | -            | -              | -                         | 2  | -                   | 7  | 1            | -  | 4      | -  | -        | 56                    | 17         | -  | 1          | -                     | 1        |    |  |       |  |  |  |
| 7:30:00                            | -                        | 7:45:00  | - | -       | 41 | 3 | -               | 6  | 1 | -           | -  | -            | -              | -                         | 1  | -                   | 12 | 3            | -  | 2      | -  | -        | 51                    | 30         | -  | 1          | -                     | 1        |    |  |       |  |  |  |
| 7:45:00                            | -                        | 8:00:00  | - | -       | 36 | 1 | -               | 4  | - | -           | -  | -            | -              | -                         | 3  | -                   | 14 | 1            | -  | 8      | -  | -        | 66                    | 24         | -  | 2          | -                     | 1        |    |  |       |  |  |  |
| 8:00:00                            | -                        | 8:15:00  | - | -       | 24 | 2 | -               | 4  | 2 | -           | -  | -            | -              | -                         | 3  | -                   | 6  | 5            | -  | 7      | -  | -        | 47                    | 37         | -  | 3          | -                     | 1        |    |  |       |  |  |  |
| 8:15:00                            | -                        | 8:30:00  | - | -       | 28 | 1 | -               | 5  | 1 | -           | -  | -            | -              | -                         | 3  | -                   | 8  | 2            | -  | 4      | -  | -        | 76                    | 21         | -  | 1          | -                     | 1        |    |  |       |  |  |  |
| 8:30:00                            | -                        | 8:45:00  | - | -       | 25 | 5 | -               | 3  | 2 | -           | -  | -            | -              | -                         | 2  | -                   | 5  | 1            | -  | 2      | -  | -        | 64                    | 26         | -  | -          | -                     | 1        |    |  |       |  |  |  |
| 8:45:00                            | -                        | 9:00:00  | - | -       | 20 | 1 | -               | 4  | 3 | -           | -  | -            | -              | -                         | 2  | -                   | 6  | 1            | -  | 3      | -  | -        | 57                    | 31         | -  | -          | -                     | 1        |    |  |       |  |  |  |
| 9:00:00                            | -                        | 9:15:00  | - | -       | 27 | 1 | -               | 4  | 1 | -           | -  | -            | -              | -                         | 3  | -                   | 3  | 1            | -  | 5      | 1  | -        | 50                    | 33         | -  | 2          | -                     | 1        |    |  |       |  |  |  |
| 9:15:00                            | -                        | 9:30:00  | - | -       | 30 | - | -               | 5  | 2 | -           | -  | -            | -              | -                         | 1  | -                   | 2  | 1            | -  | 1      | -  | -        | 38                    | 24         | -  | 2          | -                     | 1        |    |  |       |  |  |  |
| 9:30:00                            | -                        | 9:45:00  | - | -       | 17 | 3 | -               | 6  | - | -           | -  | -            | -              | -                         | 2  | -                   | 4  | 2            | -  | 1      | -  | -        | 45                    | 18         | -  | -          | -                     | 1        |    |  |       |  |  |  |
| 9:45:00                            | -                        | 10:00:00 | - | -       | 17 | 2 | -               | 3  | 1 | -           | -  | -            | -              | -                         | 1  | -                   | 3  | 2            | -  | 3      | -  | -        | 40                    | 23         | -  | 1          | -                     | 1        |    |  |       |  |  |  |
| 10:00:00                           | -                        | 10:15:00 | - | -       | 28 | 2 | -               | 7  | 4 | -           | -  | -            | -              | -                         | 3  | -                   | 6  | 5            | -  | 3      | -  | -        | 35                    | 26         | -  | -          | -                     | 1        |    |  |       |  |  |  |
| 10:15:00                           | -                        | 10:30:00 | - | -       | 33 | 5 | -               | 9  | 1 | -           | -  | -            | -              | -                         | 1  | -                   | 3  | 2            | -  | 2      | -  | -        | 41                    | 22         | -  | 1          | -                     | 1        |    |  |       |  |  |  |
| 10:30:00                           | -                        | 10:45:00 | - | -       | 38 | 4 | -               | 13 | 1 | -           | -  | -            | -              | -                         | 3  | -                   | 3  | 4            | -  | 4      | -  | -        | 44                    | 19         | -  | -          | -                     | 1        |    |  |       |  |  |  |
| 10:45:00                           | -                        | 11:00:00 | - | -       | 32 | 2 | -               | 12 | 2 | -           | -  | -            | -              | -                         | 2  | -                   | 4  | 2            | -  | 2      | -  | -        | 50                    | 19         | -  | -          | -                     | 1        |    |  |       |  |  |  |
| 11:00:00                           | -                        | 11:15:00 | - | -       | 41 | 8 | -               | 7  | 4 | -           | -  | -            | -              | -                         | 2  | -                   | 2  | 1            | -  | 3      | -  | -        | 45                    | 25         | -  | -          | -                     | 1        |    |  |       |  |  |  |
| 11:15:00                           | -                        | 11:30:00 | - | -       | 52 | 8 | -               | 16 | 1 | -           | -  | -            | -              | -                         | 2  | -                   | 5  | 3            | -  | 2      | -  | -        | 49                    | 40         | -  | 1          | -                     | 1        |    |  |       |  |  |  |
| 11:30:00                           | -                        | 11:45:00 | - | -       | 36 | 3 | -               | 8  | 1 | -           | -  | -            | -              | -                         | 2  | -                   | 2  | 2            | -  | 1      | -  | -        | 37                    | 12         | -  | -          | -                     | 1        |    |  |       |  |  |  |
| 11:45:00                           | -                        | 12:00:00 | - | -       | 31 | 7 | -               | 11 | 2 | -           | -  | -            | -              | -                         | 1  | -                   | 4  | 1            | -  | 1      | -  | -        | 56                    | 17         | -  | -          | -                     | 1        |    |  |       |  |  |  |
| 12:00:00                           | -                        | 12:15:00 | - | -       | 25 | 4 | -               | 8  | 2 | -           | -  | -            | -              | -                         | 1  | -                   | 7  | 3            | -  | 3      | -  | -        | 57                    | 18         | -  | -          | -                     | 1        |    |  |       |  |  |  |
| 12:15:00                           | -                        | 12:30:00 | - | -       | 41 | 3 | -               | 14 | 6 | -           | -  | -            | -              | -                         | 4  | -                   | 11 | 3            | -  | 2      | -  | -        | 61                    | 32         | -  | -          | -                     | 1        |    |  |       |  |  |  |
| 12:30:00                           | -                        | 12:45:00 | - | -       | 33 | 5 | -               | 12 | 7 | -           | -  | -            | -              | -                         | 3  | -                   | 7  | 3            | -  | 3      | -  | -        | 58                    | 28         | -  | -          | -                     | 1        |    |  |       |  |  |  |
| 12:45:00                           | -                        | 13:00:00 | - | -       | 30 | 3 | -               | 11 | 6 | -           | -  | -            | -              | -                         | 2  | -                   | 8  | 1            | -  | 2      | -  | -        | 56                    | 26         | -  | -          | -                     | 1        |    |  |       |  |  |  |
| 13:00:00                           | -                        | 13:15:00 | - | -       | 26 | 5 | -               | 6  | 3 | -           | -  | -            | -              | -                         | 1  | -                   | 13 | 2            | -  | 1      | -  | -        | 54                    | 21         | -  | -          | -                     | 1        |    |  |       |  |  |  |
| 13:15:00                           | -                        | 13:30:00 | - | -       | 23 | 2 | -               | 12 | - | -           | -  | -            | -              | -                         | 1  | -                   | 5  | 2            | -  | 1      | -  | -        | 51                    | 17         | -  | -          | 2                     | 1        |    |  |       |  |  |  |
| 13:30:00                           | -                        | 13:45:00 | - | -       | 31 | 1 | -               | 8  | 1 | -           | -  | -            | -              | -                         | 3  | -                   | 6  | 1            | -  | 2      | -  | -        | 60                    | 18         | -  | -          | -                     | 1        |    |  |       |  |  |  |
| 13:45:00                           | -                        | 14:00:00 | - | -       | 34 | 1 | -               | 5  | 2 | -           | -  | -            | -              | -                         | 2  | -                   | 8  | 1            | -  | 2      | -  | -        | 64                    | 20         | -  | 1          | 2                     | 1        |    |  |       |  |  |  |
| 14:00:00                           | -                        | 14:15:00 | - | -       | 25 | - | -               | 4  | 2 | -           | -  | -            | -              | -                         | 2  | -                   | 5  | 2            | -  | 3      | -  | -        | 52                    | 23         | -  | -          | -                     | 1        |    |  |       |  |  |  |
| 14:15:00                           | -                        | 14:30:00 | - | -       | 18 | 2 | -               | 7  | - | -           | -  | -            | -              | -                         | 1  | -                   | 9  | 3            | -  | 1      | -  | -        | 47                    | 27         | -  | 1          | -                     | 1        |    |  |       |  |  |  |
| 14:30:00                           | -                        | 14:45:00 | - | -       | 20 | 5 | -               | 14 | 2 | -           | -  | -            | -              | -                         | 1  | -                   | 4  | 1            | -  | 2      | -  | -        | 52                    | 33         | -  | -          | -                     | 1        |    |  |       |  |  |  |
| 14:45:00                           | -                        | 15:00:00 | - | -       | 25 | 6 | -               | 6  | 1 | -           | -  | -            | -              | -                         | 2  | -                   | 5  | 1            | -  | 2      | -  | -        | 54                    | 31         | -  | -          | 3                     | 1        |    |  |       |  |  |  |
| 15:00:00                           | -                        | 15:15:00 | - | -       | 30 | 7 | -               | 11 | 6 | -           | -  | -            | -              | -                         | 6  | -                   | 7  | -            | -  | 2      | -  | -        | 55                    | 38         | -  | -          | -                     | 3        |    |  |       |  |  |  |
| 15:15:00                           | -                        | 15:30:00 | - | -       | 27 | 5 | -               | 12 | 1 | -           | -  | -            | -              | -                         | 1  | -                   | 8  | 1            | -  | 2      | -  | -        | 87                    | 20         | -  | -          | -                     | 2        |    |  |       |  |  |  |
| 15:30:00                           | -                        | 15:45:00 | - | -       | 41 | 8 | -               | 8  | 5 | -           | -  | -            | -              | -                         | 5  | -                   | 3  | 2            | -  | 3      | -  | -        | 66                    | 26         | -  | -          | 1                     | 3        |    |  |       |  |  |  |
| 15:45:00                           | -                        | 16:00:00 | - | -       | 26 | 5 | -               | 5  | 6 | -           | -  | -            | -              | -                         | 3  | -                   | 12 | 2            | -  | 2      | -  | -        | 59                    | 28         | -  | 2          | -                     | 1        |    |  |       |  |  |  |
| 16:00:00                           | -                        | 16:15:00 | - | -       | 35 | 6 | -               | 6  | 2 | -           | -  | -            | -              | -                         | 3  | -                   | 6  | 1            | -  | 3      | -  | -        | 80                    | 59         | -  | -          | -                     | 1        |    |  |       |  |  |  |
| 16:15:00                           | -                        | 16:30:00 | - | -       | 23 | 6 | -               | 12 | - | -           | -  | -            | -              | -                         | 1  | -                   | 11 | 3            | -  | 2      | -  | -        | 50                    | 37         | -  | 1          | -                     | 1        |    |  |       |  |  |  |
| 16:30:00                           | -                        | 16:45:00 | - | -       | 22 | 7 | -               | 8  | - | -           | -  | -            | -              | -                         | 4  | -                   | 2  | 1            | -  | 1      | -  | -        | 56                    | 42         | -  | 1          | -                     | 1        |    |  |       |  |  |  |
| 16:45:00                           | -                        | 17:00:00 | - | -       | 26 | 6 | -               | 5  | 2 | -           | -  | -            | -              | -                         | 2  | -                   | 5  | 2            | -  | 1      | -  | -        | 47                    | 32         | -  | 1          | -                     | 1        |    |  |       |  |  |  |
| 17:00:00                           | -                        | 17:15:00 | - | -       | 18 | 2 | -               | 3  | - | -           | -  | -            | -              | -                         | 2  | -                   | 7  | 2            | -  | 2      | -  | -        | 46                    | 27         | -  | -          | -                     | 1        |    |  |       |  |  |  |
| 17:15:00                           | -                        | 17:30:00 | - | -       | 14 | 4 | -               | 7  | 1 | -           | -  | -            | -              | -                         | 1  | -                   | 3  | 1            | -  | 1      | -  | -        | 40                    | 24         | -  | 1          | -                     | 1        |    |  |       |  |  |  |
| 17:30:00                           | -                        | 17:45:00 | - | -       | 16 | 9 | -               | 3  | 1 | -           | -  | -            | -              | -                         | 1  | -                   | 3  | 1            | -  | 1      | -  | -        | 33                    | 23         | -  | -          | -                     | 1        |    |  |       |  |  |  |
| 17:45:00                           | -                        | 18:00:00 | - | -       | 27 | 4 | -               | 3  | 3 | -           | -  | -            | -              | -                         | 2  | -                   | 2  | 2            | -  | 2      | -  | -        | 25                    | 28         | -  | 3          | -                     | 2        |    |  |       |  |  |  |
| 18:00:00                           | -                        | 18:15:00 | - | -       | 20 | 5 | -               | 6  | - | -           | -  | -            | -              | -                         | 2  | -                   | 4  | 3            | -  | 1      | -  | -        | 31                    | 19         | -  | -          | -                     | 1        |    |  |       |  |  |  |
| 18:15:00                           | -                        | 18:30:00 | - | -       | 23 | 7 | -               | 4  | 1 | -           | -  | -            | -              | -                         | 4  | -                   | 7  | 4            | -  | 2      | -  | -        | 39                    | 15         | -  | -          | -                     | 1        |    |  |       |  |  |  |
| 18:30:00                           | -                        | 18:45:00 | - | -       | 28 | 6 | -               | 9  | - | -           | -  | -            | -              | -                         | 1  | -                   | 8  | -            | -  | 1      | -  | -        | 46                    | 27         | -  | -          | -                     | 1        |    |  |       |  |  |  |
| 18:45:00                           | -                        | 19:00:00 | - | -       | 28 | 6 | -               | 7  | - | -           | -  | -            | -              | -                         | 1  | -                   | 5  | -            | -  | 1      | -  | -        | 55                    | 25         | -  | -          | -                     | 1        |    |  |       |  |  |  |
| 19:00:00                           | -                        | 19:15:00 | - | -       | 37 | 8 | -               | 8  | 4 | -           | -  | -            | -              | -                         | 4  | -                   | 15 | 3            | -  | 3      |    |          |                       |            |    |            |                       |          |    |  |       |  |  |  |

## **SURVAI VOLUME LALU LINTAS PERGERAKAN MEMBELOK**

|              |          |
|--------------|----------|
| Nama Simpang | JLT Yeye |
| Kota         | Lumajang |
| Dari Arah    | Tukum    |
| Ke Arah      |          |



Hari :  
Tanggal :  
Surveyor :

| WAKTU<br>SURVA<br>( 15 menit-an ) | LIGHT VEHICLES<br>( LV ) |          |    |         |    |    |                 |   |             |    | HEAVY VEHICLES |    |                           |    |                     |    |              |    |    |    | MOTORCYCLES<br>( MC ) |    |    |     | UNMOTORISED<br>( UM ) |    |    |    | CUACA<br>1. Cerah<br>2. Gerimis<br>3. Mendung<br>4. Hujan |   |
|-----------------------------------|--------------------------|----------|----|---------|----|----|-----------------|---|-------------|----|----------------|----|---------------------------|----|---------------------|----|--------------|----|----|----|-----------------------|----|----|-----|-----------------------|----|----|----|---|---|
|                                   | Mobil/Sedan<br>Carry/Van |          |    | Pick-Up |    |    | Microlet/<br>AU |   | Bus<br>Kota |    | Bus<br>Besar   |    | Truk Sedang<br>Bus Sedang |    | Gandeng/<br>Trailer |    | Sepeda Motor |    |    |    | Sepeda                |    |    |     |                       |    |    |    |   |   |
|                                   | =                        | ↑        | ⇒  | =       | ↑  | ⇒  | =               | ↑ | ⇒           | =  | ↑              | ⇒  | =                         | ↑  | ⇒                   | =  | ↑            | ⇒  | =  | ↑  | ⇒                     | =  | ↑  | ⇒   | =                     | ↑  | ⇒  |    |   |   |
|                                   | 1                        | 2        | 3  | 4       | 5  | 6  | 7               | 8 | 9           | 10 | 11             | 12 | 13                        | 14 | 15                  | 16 | 17           | 18 | 19 | 20 | 21                    | 22 | 23 | 24  | 25                    | 26 | 27 | 28 | 29  |   |
| 6:00:00                           | -                        | 6:15:00  | 5  | -       | 4  | 1  | -               | 3 | -           | -  | -              | -  | -                         | -  | -                   | -  | 1            | -  | 2  | -  | -                     | 39 | -  | 31  | 1                     | -  | -  | 1  |   |   |
| 6:15:00                           | -                        | 6:30:00  | 5  | -       | 2  | 3  | -               | 3 | -           | -  | -              | -  | -                         | -  | -                   | -  | -            | -  | -  | -  | -                     | 44 | -  | 41  | -                     | -  | -  | 3  |   |   |
| 6:30:00                           | -                        | 6:45:00  | 7  | -       | 3  | 5  | -               | 5 | -           | -  | -              | -  | -                         | -  | -                   | -  | 1            | -  | -  | -  | 2                     | 52 | -  | 38  | 2                     | -  | 1  | 1  |   |   |
| 6:45:00                           | -                        | 7:00:00  | 9  | -       | 7  | 5  | -               | 4 | -           | -  | -              | -  | -                         | -  | -                   | -  | 2            | -  | 1  | -  | -                     | 47 | -  | 49  | -                     | -  | -  | 1  |   |   |
| 7:00:00                           | -                        | 7:15:00  | 9  | -       | 6  | 3  | -               | - | -           | -  | -              | -  | -                         | -  | -                   | -  | 3            | -  | 1  | -  | -                     | 37 | -  | 44  | -                     | -  | -  | 1  |   |   |
| 7:15:00                           | -                        | 7:30:00  | 8  | -       | 6  | 2  | -               | 1 | -           | -  | -              | -  | -                         | -  | -                   | -  | 3            | -  | 1  | -  | -                     | 32 | -  | 34  | 2                     | -  | -  | 1  |   |   |
| 7:30:00                           | -                        | 7:45:00  | 5  | -       | 5  | 2  | -               | 1 | -           | -  | -              | -  | -                         | -  | -                   | -  | 6            | -  | -  | -  | -                     | 32 | -  | 44  | 1                     | -  | -  | 1  |   |   |
| 7:45:00                           | -                        | 8:00:00  | 9  | -       | 7  | 3  | -               | 2 | -           | -  | -              | -  | -                         | -  | -                   | -  | 5            | -  | 2  | -  | -                     | 32 | -  | 41  | 2                     | -  | 1  | 1  |   |   |
| 8:00:00                           | -                        | 8:15:00  | 6  | -       | 7  | 4  | -               | 4 | -           | -  | -              | -  | -                         | -  | -                   | -  | 3            | -  | -  | -  | -                     | 33 | -  | 45  | 1                     | -  | -  | 1  |   |   |
| 8:15:00                           | -                        | 8:30:00  | 7  | -       | 4  | 3  | -               | 1 | -           | -  | -              | -  | -                         | -  | -                   | -  | 3            | -  | 4  | 1  | -                     | 38 | -  | 47  | -                     | -  | -  | 1  |   |   |
| 8:30:00                           | -                        | 8:45:00  | 6  | -       | 6  | 3  | -               | - | -           | -  | -              | -  | -                         | -  | -                   | -  | -            | -  | -  | -  | -                     | 35 | -  | 42  | -                     | -  | -  | 1  |   |   |
| 8:45:00                           | -                        | 9:00:00  | 7  | -       | 9  | 1  | -               | 2 | -           | -  | -              | -  | -                         | -  | -                   | -  | 1            | -  | 2  | -  | -                     | 29 | -  | 41  | 1                     | -  | 1  | 1  |   |   |
| 9:00:00                           | -                        | 9:15:00  | 8  | -       | 7  | 1  | -               | 1 | -           | -  | -              | -  | -                         | -  | -                   | -  | -            | -  | 2  | 1  | -                     | 25 | -  | 39  | 1                     | -  | -  | 1  |   |   |
| 9:15:00                           | -                        | 9:30:00  | 8  | -       | 6  | 2  | -               | - | -           | -  | -              | -  | -                         | -  | -                   | -  | 2            | -  | 1  | 1  | -                     | 27 | -  | 45  | -                     | -  | -  | 1  |   |   |
| 9:30:00                           | -                        | 9:45:00  | 5  | -       | 7  | 3  | -               | - | -           | -  | -              | -  | -                         | -  | -                   | -  | 2            | -  | -  | -  | -                     | 28 | -  | 32  | 2                     | -  | 2  | 1  |   |   |
| 9:45:00                           | -                        | 10:00:00 | 4  | -       | 9  | 5  | -               | 1 | -           | -  | -              | -  | -                         | -  | -                   | -  | 4            | -  | 1  | -  | -                     | 22 | -  | 42  | 1                     | -  | -  | 1  |   |   |
| 10:00:00                          | -                        | 10:15:00 | 3  | -       | 8  | 1  | -               | 1 | -           | -  | -              | -  | -                         | -  | -                   | -  | 3            | -  | 3  | 2  | -                     | 31 | -  | 43  | -                     | -  | -  | 1  |   |   |
| 10:15:00                          | -                        | 10:30:00 | 4  | -       | 10 | -  | -               | 1 | -           | -  | -              | -  | -                         | -  | -                   | -  | 2            | -  | 1  | -  | 1                     | 24 | -  | 55  | 2                     | -  | -  | 1  |   |   |
| 10:30:00                          | -                        | 10:45:00 | 3  | -       | 6  | 2  | -               | 3 | -           | -  | -              | -  | -                         | -  | -                   | -  | 1            | -  | -  | -  | -                     | 17 | -  | 48  | -                     | -  | 1  | 1  |   |   |
| 10:45:00                          | -                        | 11:00:00 | 6  | -       | 5  | 1  | -               | - | -           | -  | -              | -  | -                         | -  | -                   | -  | 3            | -  | 1  | -  | -                     | 19 | -  | 42  | -                     | -  | -  | 1  |   |   |
| 11:00:00                          | -                        | 11:15:00 | 5  | -       | 8  | 1  | -               | 1 | -           | -  | -              | -  | -                         | -  | -                   | -  | 8            | -  | 2  | -  | -                     | 14 | -  | 51  | 5                     | -  | -  | 1  |   |   |
| 11:15:00                          | -                        | 11:30:00 | 6  | -       | 13 | 3  | -               | 5 | -           | -  | -              | -  | -                         | -  | -                   | -  | 5            | -  | -  | -  | -                     | 47 | -  | 80  | -                     | -  | 2  | 1  |   |   |
| 11:30:00                          | -                        | 11:45:00 | 5  | -       | 6  | 1  | -               | 1 | -           | -  | -              | -  | -                         | -  | -                   | -  | 3            | -  | 2  | 1  | -                     | 16 | -  | 41  | -                     | -  | -  | 1  |   |   |
| 11:45:00                          | -                        | 12:00:00 | 13 | -       | 8  | 1  | -               | - | -           | -  | -              | -  | -                         | -  | -                   | -  | 7            | -  | -  | -  | 1                     | 31 | -  | 61  | 1                     | -  | 1  | 1  |   |   |
| 12:00:00                          | -                        | 12:15:00 | 3  | -       | 16 | 2  | -               | 2 | -           | -  | -              | -  | -                         | -  | -                   | -  | 2            | -  | 1  | -  | -                     | 29 | -  | 55  | -                     | -  | 2  | 1  |   |   |
| 12:15:00                          | -                        | 12:30:00 | 8  | -       | 10 | -  | -               | 1 | -           | -  | -              | -  | -                         | -  | -                   | -  | 2            | -  | 1  | -  | -                     | 33 | -  | 57  | -                     | -  | -  | 1  |   |   |
| 12:30:00                          | -                        | 12:45:00 | 5  | -       | 7  | 1  | -               | 2 | -           | -  | -              | -  | -                         | -  | -                   | -  | 3            | -  | 1  | -  | -                     | 28 | -  | 56  | 2                     | -  | -  | 1  |   |   |
| 12:45:00                          | -                        | 13:00:00 | 5  | -       | 6  | 1  | -               | 4 | -           | -  | -              | -  | -                         | -  | -                   | -  | 2            | -  | 2  | -  | -                     | 22 | -  | 51  | -                     | -  | 1  | 1  |   |   |
| 13:00:00                          | -                        | 13:15:00 | 5  | -       | 8  | -  | -               | - | -           | -  | -              | -  | -                         | -  | -                   | -  | 3            | -  | 3  | -  | -                     | 29 | -  | 54  | -                     | -  | -  | 1  |   |   |
| 13:15:00                          | -                        | 13:30:00 | 8  | -       | 9  | 2  | -               | 2 | -           | -  | -              | -  | -                         | -  | -                   | -  | 1            | -  | -  | -  | -                     | 27 | -  | 59  | 1                     | -  | -  | 1  |   |   |
| 13:30:00                          | -                        | 13:45:00 | 6  | -       | 6  | -  | -               | 1 | -           | -  | -              | -  | -                         | -  | -                   | -  | 1            | -  | 1  | -  | -                     | 1  | -  | 62  | 1                     | -  | -  | 1  |   |   |
| 13:45:00                          | -                        | 14:00:00 | 6  | -       | 5  | -  | -               | - | -           | -  | -              | -  | -                         | -  | -                   | -  | 3            | -  | 1  | 1  | -                     | 30 | -  | 56  | 2                     | -  | 1  | 1  |   |   |
| 14:00:00                          | -                        | 14:15:00 | 7  | -       | 5  | 1  | -               | 3 | -           | -  | -              | -  | -                         | -  | -                   | -  | 2            | -  | 4  | -  | -                     | 34 | -  | 49  | -                     | -  | 1  | 1  |   |   |
| 14:15:00                          | -                        | 14:30:00 | 4  | -       | 3  | 1  | -               | 1 | -           | -  | -              | -  | -                         | -  | -                   | -  | 4            | -  | 1  | -  | -                     | 21 | -  | 52  | -                     | -  | -  | 1  |   |   |
| 14:30:00                          | -                        | 14:45:00 | 5  | -       | 7  | 2  | -               | 1 | -           | -  | -              | -  | -                         | -  | -                   | -  | 2            | -  | -  | -  | -                     | 22 | -  | 51  | 1                     | -  | -  | 1  |   |   |
| 14:45:00                          | -                        | 15:00:00 | 4  | -       | 8  | 3  | -               | - | -           | -  | -              | -  | -                         | -  | -                   | -  | 3            | -  | 1  | -  | -                     | 24 | -  | 58  | -                     | -  | 3  | 1  |   |   |
| 15:00:00                          | -                        | 15:15:00 | 6  | -       | 13 | 4  | -               | 3 | -           | -  | -              | -  | -                         | -  | -                   | -  | 2            | -  | 3  | -  | -                     | 26 | -  | 54  | -                     | -  | 1  | 3  |   |   |
| 15:15:00                          | -                        | 15:30:00 | 4  | -       | 13 | 3  | -               | 1 | -           | -  | -              | -  | -                         | -  | -                   | -  | 4            | -  | 1  | -  | -                     | 28 | -  | 61  | -                     | -  | 1  | 2  |   |   |
| 15:30:00                          | -                        | 15:45:00 | 7  | -       | 12 | 5  | -               | 2 | -           | -  | -              | -  | -                         | -  | -                   | -  | 3            | -  | 3  | -  | -                     | 36 | -  | 96  | -                     | -  | 2  | 3  |   |   |
| 15:45:00                          | -                        | 16:00:00 | 10 | -       | 9  | 1  | -               | 4 | -           | -  | -              | -  | -                         | -  | -                   | -  | 1            | -  | 1  | 4  | -                     | 1  | 32 | -   | 84                    | -  | -  | 1  | 1   |   |
| 16:00:00                          | -                        | 16:15:00 | 14 | -       | 6  | 3  | -               | 2 | -           | -  | -              | -  | -                         | -  | -                   | -  | 3            | -  | 2  | 2  | -                     | 37 | -  | 95  | -                     | -  | -  | 1  |   |   |
| 16:15:00                          | -                        | 16:30:00 | 9  | -       | 8  | 3  | -               | 2 | -           | -  | -              | -  | -                         | -  | -                   | -  | 2            | -  | 5  | 1  | -                     | 29 | -  | 120 | -                     | -  | 2  | 1  |   |   |
| 16:30:00                          | -                        | 16:45:00 | 10 | -       | 10 | 5  | -               | 3 | -           | -  | -              | -  | -                         | -  | -                   | -  | 3            | -  | 3  | -  | -                     | 36 | -  | 90  | 2                     | -  | -  | 1  |   |   |
| 16:45:00                          | -                        | 17:00:00 | 7  | -       | 6  | 2  | -               | 1 | -           | -  | -              | -  | -                         | -  | -                   | -  | 2            | -  | 1  | -  | -                     | 30 | -  | 75  | -                     | -  | 1  | 1  |   |   |
| 17:00:00                          | -                        | 17:15:00 | 4  | -       | 7  | 4  | -               | 1 | -           | -  | -              | -  | -                         | -  | -                   | -  | 3            | -  | -  | -  | -                     | 32 | -  | 68  | -                     | -  | -  | 1  |   |   |
| 17:15:00                          | -                        | 17:30:00 | 4  | -       | 6  | 2  | -               | 1 | -           | -  | -              | -  | -                         | -  | -                   | -  | 1            | -  | 2  | -  | -                     | 1  | 26 | -   | 63                    | -  | -  | 1  | 1   |   |
| 17:30:00                          | -                        | 17:45:00 | 7  | -       | 3  | 1  | -               | 2 | -           | -  | -              | -  | -                         | -  | -                   | -  | 1            | -  | 1  | 1  | -                     | 21 | -  | 56  | 1                     | -  | -  | 1  |   |   |
| 17:45:00                          | -                        | 18:00:00 | 6  | -       | 4  | 2  | -               | 3 | -           | -  | -              | -  | -                         | -  | -                   | -  | 2            | -  | 1  | -  | -                     | 24 | -  | 54  | -                     | -  | 2  | 1  |   |   |
| 18:00:00                          | -                        | 18:15:00 | 8  | -       | 5  | 2  | -               | 3 | -           | -  | -              | -  | -                         | -  | -                   | -  | 4            | -  | -  | -  | -                     | 21 | -  | 50  | -                     | -  | -  | 1  |   |   |
| 18:15:00                          | -                        | 18:30:00 | 5  | -       | 6  | 3  | -               | 5 | -           | -  | -              | -  | -                         | -  | -                   | -  | 1            | -  | -  | -  | -                     | 29 | -  | 52  | -                     | -  | -  | 1  |   |   |
| 18:30:00                          | -                        | 18:45:00 | 6  | -       | 5  | 2  | -               | 2 | -           | -  | -              | -  | -                         | -  | -                   | -  | 2            | -  | -  | -  | -                     | 16 | -  | 47  | -                     | -  | -  | 1  |   |   |
| 18:45:00                          | -                        | 19:00:00 | 5  | -       | 9  | 2  | -               | 2 | -           | -  | -              | -  | -                         | -  | -                   | -  | 5            | -  | 1  | -  | -                     | 21 | -  | 39  | -                     | -  | -  | 1  |   |   |
| 19:00:00                          | -                        | 19:15:00 | 8  | -       | 8  | 4  | -               | 2 | -           | -  | -              | -  | -                         | -  | -                   | -  | 5            | -  | -  | -  | -                     | 18 | -  | 44  | -                     | -  | -  | 1  |   |   |
| 19:15:00                          | -                        | 19:30:00 | 8  | -       | 3  | 4  | -               | 2 | -           | -  | -              | -  | -                         | -  | -                   | -  | 2            | -  | -  | -  | -                     | 19 | -  | 32  | -                     | -  | -  | 1  |   |   |
| 19:30:00                          | -                        | 19:45:00 | 3  | -       | 4  | 5  | -               | 5 | -           | -  | -              | -  | -                         | -  | -                   | -  | 1            | -  | -  | -  | -                     | 15 | -  | 28  | -                     | -  | -  | 1  |   |   |
| 19:45:00                          | -                        | 20:00:00 | 4  | -       | 6  | 1  | -               | 1 | -           | -  | -              | -  | -                         | -  | -                   | -  | 2            | -  | -  | -  | -                     | 17 | -  | 27  | 1                     | -  | -  | 1  |   |   |
| 20:00:00                          | -                        | 20:15:00 | 4  | -       | 14 | 3  | -               | 2 | -           | -  | -              | -  | -                         | -  | -                   | -  | 1            | -  | 5  | -  | 1                     | -  | -  | 7   | -                     | 30 | -  | -  | -   | 1 |
| 20:15:00                          | -                        | 20:30:00 | 9  | -       | 5  | 10 | -               | 1 | -           | -  | -              | -  | -                         | -  | -                   | -  | 3            | -  | -  | -  | -                     | 15 | -  | 22  | -                     | -  | -  | 1  |   |   |
| 20:30:00                          | -                        | 20:45:00 | 9  | -       | 7  | 5  | -               | - | -           | -  | -              | -  | -                         | -  | -                   | -  | 3            | -  | -  | -  | -                     | 11 | -  | 23  | -                     | -  | -  | 1  |   |   |
| 20:45:00                          | -                        | 21:00:00 | 6  | -       | 2  | 6  | -               | 1 | -           | -  | -              | -  | -                         | -  | -                   | -  | -            | -  | -  | -  | -                     | 14 | -  | 17  | -                     | -  | -  | 1  |   |   |

**SURVAI VOLUME LALU LINTAS PERGERAKAN MEMBELOK**

| WAKTU<br>SURVAI<br>( 15 menit-an ) | LIGHT VEHICLES<br>( LV ) |    |     |         |    |   |                 |   |   |             |    |              | HEAVY VEHICLES |                           |    |                     |    |              |    |        |    |          | MOTORCYCLES<br>( MC ) |            |    |            | UNMOTORISED<br>( UM ) |          |    |   | CUACA |  |  |  |
|------------------------------------|--------------------------|----|-----|---------|----|---|-----------------|---|---|-------------|----|--------------|----------------|---------------------------|----|---------------------|----|--------------|----|--------|----|----------|-----------------------|------------|----|------------|-----------------------|----------|----|---|-------|--|--|--|
|                                    | Mobil/Sedan<br>Carry/Van |    |     | Pick-Up |    |   | Microlet/<br>AU |   |   | Bus<br>Kota |    | Bus<br>Besar |                | Truk Sedang<br>Bus Sedang |    | Gandeng/<br>Trailer |    | Sepeda Motor |    | Sepeda |    | 1. Cerah |                       | 2. Gerimis |    | 3. Mendung |                       | 4. Hujan |    |   |       |  |  |  |
|                                    | =                        | ↑  | =   | =       | ↑  | = | =               | ↑ | = | =           | ↑  | =            | =              | ↑                         | =  | =                   | ↑  | =            | =  | ↑      | =  | =        | ↑                     | =          | =  | ↑          | =                     | =        | ↑  | = |       |  |  |  |
|                                    | 1                        | 2  | 3   | 4       | 5  | 6 | 7               | 8 | 9 | 10          | 11 | 12           | 13             | 14                        | 15 | 16                  | 17 | 18           | 19 | 20     | 21 | 22       | 23                    | 24         | 25 | 26         | 27                    | 28       | 29 |   |       |  |  |  |
| 6:00:00 - 6:15:00                  | 4                        | 8  | -   | 1       | 2  | - | -               | - | - | -           | -  | 2            | -              | 3                         | 2  | -                   | -  | -            | -  | 61     | 40 | -        | 2                     | 1          | -  | -          | -                     | 1        |    |   |       |  |  |  |
| 6:15:00 - 6:30:00                  | 8                        | 17 | -   | 3       | 3  | - | -               | - | - | -           | -  | -            | -              | 1                         | 2  | -                   | -  | 1            | -  | 74     | 65 | -        | 1                     | -          | -  | -          | 1                     |          |    |   |       |  |  |  |
| 6:30:00 - 6:45:00                  | 18                       | 22 | -   | 2       | 2  | - | -               | - | - | -           | -  | 1            | -              | 5                         | -  | -                   | -  | 99           | 81 | -      | -  | 3        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 6:45:00 - 7:00:00                  | 20                       | 35 | -   | 1       | 7  | - | -               | - | - | -           | -  | 2            | -              | 6                         | -  | -                   | 2  | 97           | 76 | -      | -  | 1        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 7:00:00 - 7:15:00                  | 13                       | 26 | -   | 1       | 4  | - | -               | - | - | -           | -  | -            | 1              | 3                         | -  | -                   | 1  | 83           | 54 | -      | 1  | 2        | -                     | -          | 1  |            |                       |          |    |   |       |  |  |  |
| 7:15:00 - 7:30:00                  | 9                        | 24 | -   | 1       | 2  | - | -               | - | - | -           | -  | -            | -              | 2                         | -  | -                   | 1  | 89           | 73 | -      | 1  | 1        | -                     | -          | 1  |            |                       |          |    |   |       |  |  |  |
| 7:30:00 - 7:45:00                  | 7                        | 20 | -   | 1       | 1  | - | -               | - | - | -           | -  | -            | -              | 1                         | -  | -                   | -  | 106          | 73 | -      | 1  | -        | -                     | -          | 1  |            |                       |          |    |   |       |  |  |  |
| 7:45:00 - 8:00:00                  | 9                        | 11 | -   | 2       | 4  | - | -               | - | - | -           | -  | -            | -              | 1                         | 5  | -                   | -  | -            | 78 | 69     | -  | -        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 8:00:00 - 8:15:00                  | 14                       | 11 | -   | 2       | 4  | - | -               | - | - | -           | -  | -            | -              | 5                         | -  | 7                   | 8  | -            | 1  | 7      | -  | 91       | 72                    | -          | 1  | 1          | -                     | 1        |    |   |       |  |  |  |
| 8:15:00 - 8:30:00                  | 15                       | 35 | -   | 2       | 7  | - | -               | - | - | -           | -  | -            | -              | 3                         | 1  | 8                   | -  | -            | 87 | 74     | -  | -        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 8:30:00 - 8:45:00                  | 9                        | 31 | -   | 1       | 4  | - | -               | - | - | -           | -  | -            | -              | 2                         | 4  | -                   | -  | -            | 81 | 72     | -  | -        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 8:45:00 - 9:00:00                  | 13                       | 28 | -   | 4       | 1  | - | -               | - | - | -           | -  | -            | -              | 2                         | 3  | -                   | -  | 2            | 76 | 68     | -  | 2        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 9:00:00 - 9:15:00                  | 6                        | 24 | -   | 2       | 1  | - | -               | - | - | -           | -  | -            | -              | 6                         | -  | 1                   | 1  | -            | 75 | 66     | -  | 2        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 9:15:00 - 9:30:00                  | 6                        | 30 | -   | 2       | 3  | - | -               | - | - | -           | -  | -            | -              | 2                         | 1  | 7                   | -  | -            | 3  | 72     | 61 | -        | 1                     | 2          | -  | -          | 1                     |          |    |   |       |  |  |  |
| 9:30:00 - 9:45:00                  | 13                       | 33 | -   | 1       | 5  | - | -               | - | - | -           | -  | -            | -              | 1                         | 2  | 6                   | -  | -            | 69 | 55     | -  | -        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 9:45:00 - 10:00:00                 | 11                       | 36 | -   | 3       | 2  | - | -               | - | - | -           | -  | -            | -              | 1                         | 8  | -                   | -  | 4            | -  | 62     | 43 | -        | 1                     | -          | -  | -          | 1                     |          |    |   |       |  |  |  |
| 10:00:00 - 10:15:00                | 7                        | 27 | -   | 1       | 3  | - | -               | - | - | -           | -  | -            | -              | 3                         | 4  | -                   | -  | 1            | 65 | 49     | -  | 1        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 10:15:00 - 10:30:00                | 7                        | 35 | -   | 1       | 6  | - | -               | - | - | -           | -  | -            | -              | 1                         | 2  | 6                   | -  | -            | 54 | 41     | -  | 3        | 1                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 10:30:00 - 10:45:00                | 5                        | 39 | -   | 1       | 2  | - | -               | - | - | -           | -  | -            | -              | 1                         | 9  | -                   | -  | 2            | 43 | 44     | -  | -        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 10:45:00 - 11:00:00                | 8                        | 33 | -   | 2       | 2  | - | -               | - | - | -           | -  | -            | -              | 2                         | 12 | -                   | -  | 1            | 47 | 50     | -  | -        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 11:00:00 - 11:15:00                | 11                       | 28 | -   | 5       | 5  | - | -               | - | - | -           | -  | -            | -              | 2                         | 1  | 11                  | -  | -            | 3  | 51     | 51 | -        | 1                     | -          | -  | -          | 1                     |          |    |   |       |  |  |  |
| 11:15:00 - 11:30:00                | 13                       | 33 | -   | 4       | 3  | - | -               | - | - | -           | -  | -            | -              | 5                         | 2  | 14                  | -  | -            | 2  | 53     | 59 | -        | 3                     | -          | -  | -          | 1                     |          |    |   |       |  |  |  |
| 11:30:00 - 11:45:00                | 12                       | 37 | -   | 4       | 13 | - | -               | - | - | -           | -  | -            | -              | 1                         | 2  | 14                  | -  | -            | 3  | 66     | 53 | -        | -                     | -          | -  | -          | 1                     |          |    |   |       |  |  |  |
| 11:45:00 - 12:00:00                | 13                       | 45 | -   | 2       | 6  | - | -               | - | - | -           | -  | -            | -              | 4                         | 3  | 9                   | -  | -            | 4  | 54     | 41 | -        | 1                     | -          | -  | -          | 1                     |          |    |   |       |  |  |  |
| 12:00:00 - 12:15:00                | 7                        | 37 | -   | 1       | 1  | - | -               | - | - | -           | -  | -            | -              | 3                         | 2  | 13                  | -  | -            | 1  | 62     | 57 | -        | 2                     | -          | -  | -          | 1                     |          |    |   |       |  |  |  |
| 12:15:00 - 12:30:00                | 7                        | 36 | -   | 4       | 8  | - | -               | - | - | -           | -  | -            | -              | 6                         | 4  | 15                  | -  | -            | 1  | 60     | 49 | -        | 1                     | -          | -  | -          | 1                     |          |    |   |       |  |  |  |
| 12:30:00 - 12:45:00                | 13                       | 37 | -   | 9       | 5  | - | -               | - | - | -           | -  | -            | -              | 4                         | 4  | 9                   | -  | -            | 2  | 52     | 47 | -        | 2                     | 1          | -  | -          | 1                     |          |    |   |       |  |  |  |
| 12:45:00 - 13:00:00                | 11                       | 35 | -   | 7       | 7  | - | -               | - | - | -           | -  | -            | -              | 3                         | 4  | 11                  | -  | -            | 2  | 56     | 51 | -        | -                     | -          | -  | -          | 1                     |          |    |   |       |  |  |  |
| 13:00:00 - 13:15:00                | 7                        | 40 | -   | 3       | 7  | - | -               | - | - | -           | -  | -            | -              | 3                         | 3  | 8                   | -  | -            | 4  | 47     | 54 | -        | -                     | -          | -  | -          | 1                     |          |    |   |       |  |  |  |
| 13:15:00 - 13:30:00                | 8                        | 40 | -   | 4       | 4  | - | -               | - | - | -           | -  | -            | -              | 2                         | 2  | 7                   | -  | -            | 2  | 55     | 61 | -        | 2                     | -          | -  | -          | 1                     |          |    |   |       |  |  |  |
| 13:30:00 - 13:45:00                | 5                        | 43 | -   | 1       | 6  | - | -               | - | - | -           | -  | -            | -              | 2                         | 3  | 5                   | -  | -            | 1  | 59     | 56 | -        | -                     | 1          | -  | -          | 1                     |          |    |   |       |  |  |  |
| 13:45:00 - 14:00:00                | 5                        | 47 | -   | 1       | 8  | - | -               | - | - | -           | -  | -            | -              | 3                         | 3  | 4                   | -  | -            | 3  | 49     | 64 | -        | 1                     | -          | -  | -          | 1                     |          |    |   |       |  |  |  |
| 14:00:00 - 14:15:00                | 9                        | 44 | -   | 2       | 3  | - | -               | - | - | -           | -  | -            | -              | 1                         | 2  | 5                   | -  | -            | 1  | 56     | 68 | -        | 1                     | 2          | -  | -          | 1                     |          |    |   |       |  |  |  |
| 14:15:00 - 14:30:00                | 8                        | 33 | -   | 2       | 4  | - | -               | - | - | -           | -  | -            | -              | 3                         | 3  | 8                   | -  | -            | 5  | 51     | 58 | -        | -                     | -          | -  | -          | 1                     |          |    |   |       |  |  |  |
| 14:30:00 - 14:45:00                | 14                       | 27 | -   | 3       | 3  | - | -               | - | - | -           | -  | -            | -              | 2                         | 1  | 6                   | -  | -            | 2  | 46     | 50 | -        | -                     | -          | -  | -          | 1                     |          |    |   |       |  |  |  |
| 14:45:00 - 15:00:00                | 9                        | 35 | -   | 3       | 3  | - | -               | - | - | -           | -  | -            | -              | 2                         | 2  | 3                   | -  | -            | 3  | 59     | 49 | -        | -                     | -          | -  | -          | 3                     |          |    |   |       |  |  |  |
| 15:00:00 - 15:15:00                | 13                       | 31 | -   | 5       | 4  | - | -               | - | - | -           | -  | -            | -              | 1                         | 1  | 4                   | -  | -            | 5  | 65     | 44 | -        | -                     | -          | -  | -          | 3                     |          |    |   |       |  |  |  |
| 15:15:00 - 15:30:00                | 16                       | 50 | -   | 7       | 8  | - | -               | - | - | -           | -  | -            | -              | 3                         | 1  | 8                   | -  | -            | 6  | 63     | 60 | -        | -                     | -          | -  | -          | 2                     |          |    |   |       |  |  |  |
| 15:30:00 - 15:45:00                | 9                        | 46 | -   | 4       | 5  | - | -               | - | - | -           | -  | -            | -              | 4                         | 2  | 11                  | -  | -            | 2  | 64     | 72 | -        | -                     | 1          | -  | -          | 3                     |          |    |   |       |  |  |  |
| 15:45:00 - 16:00:00                | 15                       | 24 | -   | 3       | 3  | - | -               | - | - | -           | -  | -            | -              | 4                         | 1  | 12                  | -  | -            | 2  | 42     | 66 | -        | -                     | -          | -  | -          | 1                     |          |    |   |       |  |  |  |
| 16:00:00 - 16:15:00                | 15                       | 44 | -   | 5       | 8  | - | -               | - | - | -           | -  | -            | -              | 2                         | 4  | 8                   | -  | -            | 2  | 75     | 83 | -        | -                     | 2          | -  | -          | 1                     |          |    |   |       |  |  |  |
| 16:15:00 - 16:30:00                | 8                        | 31 | -   | 2       | 8  | - | -               | - | - | -           | -  | -            | -              | 5                         | 1  | 11                  | -  | -            | 1  | 61     | 58 | -        | -                     | 1          | -  | -          | 1                     |          |    |   |       |  |  |  |
| 16:30:00 - 16:45:00                | 3                        | 25 | -   | 1       | 9  | - | -               | - | - | -           | -  | -            | -              | 4                         | 2  | 6                   | -  | -            | 9  | 65     | 70 | -        | -                     | 1          | -  | -          | 1                     |          |    |   |       |  |  |  |
| 16:45:00 - 17:00:00                | 4                        | 32 | -   | 1       | 7  | - | -               | - | - | -           | -  | -            | -              | 5                         | 1  | 7                   | -  | -            | 3  | 63     | 64 | -        | -                     | -          | -  | -          | 1                     |          |    |   |       |  |  |  |
| 17:00:00 - 17:15:00                | 6                        | 36 | -   | 8       | -  | - | -               | - | - | -           | -  | -            | -              | 4                         | 3  | 7                   | -  | -            | 3  | 62     | 63 | -        | -                     | -          | -  | -          | 1                     |          |    |   |       |  |  |  |
| 17:15:00 - 17:30:00                | 5                        | 40 | -   | 2       | 4  | - | -               | - | - | -           | -  | -            | -              | 2                         | 3  | 9                   | -  | -            | 2  | 51     | 50 | -        | -                     | -          | -  | -          | 1                     |          |    |   |       |  |  |  |
| 17:30:00 - 17:45:00                | 8                        | 31 | -   | 1       | 4  | - | -               | - | - | -           | -  | -            | -              | 1                         | 2  | 5                   | -  | -            | 3  | 50     | 52 | -        | -                     | -          | -  | -          | 1                     |          |    |   |       |  |  |  |
| 17:45:00 - 18:00:00                | 12                       | 30 | -   | 1       | 5  | - | -               | - | - | -           | -  | -            | -              | 2                         | 3  | 6                   | -  | -            | 1  | 55     | 44 | -        | -                     | -          | -  | -          | 2                     |          |    |   |       |  |  |  |
| 18:00:00 - 18:15:00                | 17                       | 34 | -   | 3       | 3  | - | -               | - | - | -           | -  | -            | -              | 1                         | 1  | 3                   | -  | -            | 1  | 61     | 55 | -        | -                     | -          | -  | -          | 1                     |          |    |   |       |  |  |  |
| 18:15:00 - 18:30:00                | 18                       | 41 | -   | 1       | 2  | - | -               | - | - | -           | -  | -            | -              | 1                         | 4  | 4                   | -  | -            | 2  | 64     | 58 | -        | -                     | -          | -  | -          | 1                     |          |    |   |       |  |  |  |
| 18:30:00 - 18:45:00                | 23                       | 46 | -   | 3       | 5  | - | -               | - | - | -           | -  | -            | -              | 2                         | 6  | 7                   | -  | -            | 3  | 62     | 63 | -        | -                     | -          | -  | -          | 1                     |          |    |   |       |  |  |  |
| 18:45:00 - 19:00:00                | 20                       | 44 | -   | 1       | 4  | - | -               | - | - | -           | -  | -            | -              | 2                         | 5  | 8                   | -  | -            | 2  | 53     | 60 | -        | -                     | -          | -  | -          | 1                     |          |    |   |       |  |  |  |
| 19:00:00 - 19:15:00                | 22                       | 43 | -   | 5       | -  | - | -               | - | - | -           | -  | -            | -              | 1                         | 2  | 11                  | -  | -            | 3  | 45     | 42 | -        | -                     | -          | -  | -          | 1                     |          |    |   |       |  |  |  |
| 19:15:00 - 19:30:00                | 8                        | 26 | -   | 4       | -  | - | -               | - | - | -           | -  | -            | -              | 2                         | 5  | 1                   | -  | -            | 1  | 44     | 47 | -        | -                     | -          | -  | -          | 1                     |          |    |   |       |  |  |  |
| 19:30:00 - 19:45:00                | 9                        | 42 | -</ |         |    |   |                 |   |   |             |    |              |                |                           |    |                     |    |              |    |        |    |          |                       |            |    |            |                       |          |    |   |       |  |  |  |

**SURVAI VOLUME LALU LINTAS PERGERAKAN MEMBELOK**

| WAKTU<br>SURVAI<br>( 15 menit-an ) | LIGHT VEHICLES<br>( LV ) |    |   |         |    |   |                 |   |   |             |    |              | HEAVY VEHICLES |                           |    |                     |    |              |    |        |    |          | MOTORCYCLES<br>( MC ) |            |    |            | UNMOTORISED<br>( UM ) |          |    |   | CUACA |  |  |  |
|------------------------------------|--------------------------|----|---|---------|----|---|-----------------|---|---|-------------|----|--------------|----------------|---------------------------|----|---------------------|----|--------------|----|--------|----|----------|-----------------------|------------|----|------------|-----------------------|----------|----|---|-------|--|--|--|
|                                    | Mobil/Sedan<br>Carry/Van |    |   | Pick-Up |    |   | Microlet/<br>AU |   |   | Bus<br>Kota |    | Bus<br>Besar |                | Truk Sedang<br>Bus Sedang |    | Gandeng/<br>Trailer |    | Sepeda Motor |    | Sepeda |    | 1. Cerah |                       | 2. Gerimis |    | 3. Mendung |                       | 4. Hujan |    |   |       |  |  |  |
|                                    | =                        | ↑  | = | =       | ↑  | = | =               | ↑ | = | =           | ↑  | =            | =              | ↑                         | =  | =                   | ↑  | =            | =  | ↑      | =  | =        | ↑                     | =          | =  | ↑          | =                     | =        | ↑  | = |       |  |  |  |
|                                    | 1                        | 2  | 3 | 4       | 5  | 6 | 7               | 8 | 9 | 10          | 11 | 12           | 13             | 14                        | 15 | 16                  | 17 | 18           | 19 | 20     | 21 | 22       | 23                    | 24         | 25 | 26         | 27                    | 28       | 29 |   |       |  |  |  |
| 6:00:00 - 6:15:00                  | 4                        | 8  | - | 1       | 2  | - | -               | - | - | -           | -  | 2            | -              | 3                         | 2  | -                   | -  | -            | -  | 61     | 40 | -        | 2                     | 1          | -  | -          | -                     | 1        |    |   |       |  |  |  |
| 6:15:00 - 6:30:00                  | 8                        | 17 | - | 3       | 3  | - | -               | - | - | -           | -  | -            | -              | 1                         | 2  | -                   | -  | 1            | -  | 74     | 65 | -        | 1                     | -          | -  | -          | 1                     |          |    |   |       |  |  |  |
| 6:30:00 - 6:45:00                  | 18                       | 22 | - | 2       | 2  | - | -               | - | - | -           | -  | 1            | -              | 5                         | -  | -                   | -  | 99           | 81 | -      | -  | 3        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 6:45:00 - 7:00:00                  | 20                       | 35 | - | 1       | 7  | - | -               | - | - | -           | -  | 2            | -              | 6                         | -  | -                   | 2  | 97           | 76 | -      | -  | 1        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 7:00:00 - 7:15:00                  | 13                       | 26 | - | 1       | 4  | - | -               | - | - | -           | -  | -            | 1              | 3                         | -  | -                   | 1  | 83           | 54 | -      | 1  | 2        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 7:15:00 - 7:30:00                  | 9                        | 24 | - | 1       | 2  | - | -               | - | - | -           | -  | -            | -              | 2                         | -  | -                   | 1  | 89           | 73 | -      | 1  | 1        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 7:30:00 - 7:45:00                  | 7                        | 20 | - | 1       | 1  | - | -               | - | - | -           | -  | -            | -              | 1                         | -  | -                   | -  | 106          | 73 | -      | -  | 1        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 7:45:00 - 8:00:00                  | 9                        | 11 | - | 2       | 4  | - | -               | - | - | -           | -  | -            | -              | 1                         | 5  | -                   | -  | -            | 78 | 69     | -  | -        | -                     | -          | -  | -          | 1                     |          |    |   |       |  |  |  |
| 8:00:00 - 8:15:00                  | 14                       | 11 | - | 2       | 4  | - | -               | - | - | -           | -  | 5            | -              | 7                         | 8  | -                   | 1  | 7            | 91 | 72     | -  | 1        | 1                     | -          | -  | -          | 1                     |          |    |   |       |  |  |  |
| 8:15:00 - 8:30:00                  | 15                       | 35 | - | 2       | 7  | - | -               | - | - | -           | -  | 3            | -              | 1                         | 8  | -                   | -  | 87           | 74 | -      | -  | -        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 8:30:00 - 8:45:00                  | 9                        | 31 | - | 1       | 4  | - | -               | - | - | -           | -  | 2            | -              | 2                         | 4  | -                   | -  | -            | 81 | 72     | -  | -        | -                     | -          | -  | -          | 1                     |          |    |   |       |  |  |  |
| 8:45:00 - 9:00:00                  | 13                       | 28 | - | 4       | 1  | - | -               | - | - | -           | -  | 2            | -              | 2                         | 3  | -                   | 2  | 76           | 68 | -      | 2  | -        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 9:00:00 - 9:15:00                  | 6                        | 24 | - | 2       | 1  | - | -               | - | - | -           | -  | -            | -              | 6                         | -  | 1                   | 1  | 75           | 66 | -      | 2  | -        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 9:15:00 - 9:30:00                  | 6                        | 30 | - | 2       | 3  | - | -               | - | - | -           | -  | 2            | -              | 1                         | 7  | -                   | -  | 3            | 72 | 61     | -  | 1        | 2                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 9:30:00 - 9:45:00                  | 13                       | 33 | - | 1       | 5  | - | -               | - | - | -           | -  | 1            | -              | 2                         | 6  | -                   | -  | -            | 69 | 55     | -  | -        | -                     | -          | -  | -          | 1                     |          |    |   |       |  |  |  |
| 9:45:00 - 10:00:00                 | 11                       | 36 | - | 3       | 2  | - | -               | - | - | -           | -  | 1            | -              | 1                         | 8  | -                   | 4  | -            | 62 | 43     | -  | 1        | -                     | -          | -  | -          | 1                     |          |    |   |       |  |  |  |
| 10:00:00 - 10:15:00                | 7                        | 27 | - | 1       | 3  | - | -               | - | - | -           | -  | 3            | -              | 4                         | -  | -                   | 1  | 65           | 49 | -      | 1  | -        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 10:15:00 - 10:30:00                | 7                        | 35 | - | 1       | 6  | - | -               | - | - | -           | -  | 1            | -              | 2                         | 6  | -                   | -  | -            | 54 | 41     | -  | 3        | 1                     | -          | -  | -          | 1                     |          |    |   |       |  |  |  |
| 10:30:00 - 10:45:00                | 5                        | 39 | - | 1       | 2  | - | -               | - | - | -           | -  | 1            | -              | 1                         | 9  | -                   | 2  | 43           | 44 | -      | -  | -        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 10:45:00 - 11:00:00                | 8                        | 33 | - | 2       | 2  | - | -               | - | - | -           | -  | 2            | -              | 12                        | -  | -                   | 1  | 47           | 50 | -      | -  | -        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 11:00:00 - 11:15:00                | 11                       | 28 | - | 5       | 5  | - | -               | - | - | -           | -  | 2            | -              | 1                         | 11 | -                   | 3  | 51           | 51 | -      | 1  | -        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 11:15:00 - 11:30:00                | 13                       | 33 | - | 4       | 3  | - | -               | - | - | -           | -  | 5            | -              | 2                         | 14 | -                   | 2  | 53           | 59 | -      | 3  | -        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 11:30:00 - 11:45:00                | 12                       | 37 | - | 4       | 13 | - | -               | - | - | -           | -  | 1            | -              | 2                         | 14 | -                   | 3  | 66           | 53 | -      | -  | -        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 11:45:00 - 12:00:00                | 13                       | 45 | - | 2       | 6  | - | -               | - | - | -           | -  | 4            | -              | 3                         | 9  | -                   | 4  | 54           | 41 | -      | 1  | -        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 12:00:00 - 12:15:00                | 7                        | 37 | - | 1       | 1  | - | -               | - | - | -           | -  | 3            | -              | 2                         | 13 | -                   | 1  | 62           | 57 | -      | 2  | -        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 12:15:00 - 12:30:00                | 7                        | 36 | - | 4       | 8  | - | -               | - | - | -           | -  | 6            | -              | 4                         | 15 | -                   | 1  | 60           | 49 | -      | 1  | -        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 12:30:00 - 12:45:00                | 13                       | 37 | - | 9       | 5  | - | -               | - | - | -           | -  | 4            | -              | 4                         | 9  | -                   | 2  | 52           | 47 | -      | 2  | 1        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 12:45:00 - 13:00:00                | 11                       | 35 | - | 7       | 7  | - | -               | - | - | -           | -  | 3            | -              | 4                         | 11 | -                   | 2  | 56           | 51 | -      | -  | -        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 13:00:00 - 13:15:00                | 7                        | 40 | - | 3       | 7  | - | -               | - | - | -           | -  | 3            | -              | 3                         | 8  | -                   | 4  | 47           | 54 | -      | -  | -        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 13:15:00 - 13:30:00                | 8                        | 40 | - | 4       | 4  | - | -               | - | - | -           | -  | 2            | -              | 2                         | 7  | -                   | 2  | 55           | 61 | -      | 2  | -        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 13:30:00 - 13:45:00                | 5                        | 43 | - | 1       | 6  | - | -               | - | - | -           | -  | 2            | -              | 3                         | 5  | -                   | 1  | 59           | 56 | -      | 1  | -        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 13:45:00 - 14:00:00                | 5                        | 47 | - | 1       | 8  | - | -               | - | - | -           | -  | 3            | -              | 3                         | 4  | -                   | 3  | 49           | 64 | -      | 1  | -        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 14:00:00 - 14:15:00                | 9                        | 44 | - | 2       | 3  | - | -               | - | - | -           | -  | 1            | -              | 2                         | 5  | -                   | 1  | 3            | 56 | 68     | -  | 1        | 2                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 14:15:00 - 14:30:00                | 8                        | 33 | - | 2       | 4  | - | -               | - | - | -           | -  | 3            | -              | 3                         | 8  | -                   | 5  | 51           | 58 | -      | -  | -        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 14:30:00 - 14:45:00                | 14                       | 27 | - | 3       | 3  | - | -               | - | - | -           | -  | 2            | -              | 1                         | 6  | -                   | 2  | 46           | 50 | -      | -  | -        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 14:45:00 - 15:00:00                | 9                        | 35 | - | 3       | 3  | - | -               | - | - | -           | -  | 2            | -              | 2                         | 3  | -                   | 3  | 59           | 49 | -      | -  | -        | -                     | -          | -  | 3          |                       |          |    |   |       |  |  |  |
| 15:00:00 - 15:15:00                | 13                       | 31 | - | 5       | 4  | - | -               | - | - | -           | -  | 1            | -              | 1                         | 4  | -                   | 5  | 65           | 44 | -      | -  | -        | -                     | -          | -  | 3          |                       |          |    |   |       |  |  |  |
| 15:15:00 - 15:30:00                | 16                       | 50 | - | 7       | 8  | - | -               | - | - | -           | -  | 3            | -              | 1                         | 8  | -                   | 6  | 63           | 60 | -      | -  | -        | -                     | -          | -  | 2          |                       |          |    |   |       |  |  |  |
| 15:30:00 - 15:45:00                | 9                        | 46 | - | 4       | 5  | - | -               | - | - | -           | -  | 4            | -              | 2                         | 11 | -                   | 2  | 64           | 72 | -      | 1  | -        | -                     | -          | -  | 3          |                       |          |    |   |       |  |  |  |
| 15:45:00 - 16:00:00                | 15                       | 24 | - | 3       | 3  | - | -               | - | - | -           | -  | 4            | -              | 1                         | 12 | -                   | 2  | 42           | 66 | -      | -  | -        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 16:00:00 - 16:15:00                | 15                       | 44 | - | 5       | 8  | - | -               | - | - | -           | -  | 2            | -              | 4                         | 8  | -                   | 2  | 7            | 75 | 83     | -  | 2        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 16:15:00 - 16:30:00                | 8                        | 31 | - | 2       | 8  | - | -               | - | - | -           | -  | 5            | -              | 1                         | 11 | -                   | 1  | 61           | 58 | -      | 1  | -        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 16:30:00 - 16:45:00                | 3                        | 25 | - | 1       | 9  | - | -               | - | - | -           | -  | 4            | -              | 2                         | 6  | -                   | 9  | 65           | 70 | -      | 1  | -        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 16:45:00 - 17:00:00                | 4                        | 32 | - | 1       | 7  | - | -               | - | - | -           | -  | 5            | -              | 1                         | 7  | -                   | 3  | 63           | 64 | -      | -  | -        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 17:00:00 - 17:15:00                | 6                        | 36 | - | 8       | -  | - | -               | - | - | -           | -  | 4            | -              | 3                         | 7  | -                   | 3  | 59           | 59 | -      | -  | -        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 17:15:00 - 17:30:00                | 5                        | 40 | - | 2       | 4  | - | -               | - | - | -           | -  | 2            | -              | 3                         | 9  | -                   | 2  | 51           | 50 | -      | -  | -        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 17:30:00 - 17:45:00                | 8                        | 31 | - | 1       | 4  | - | -               | - | - | -           | -  | 1            | -              | 2                         | 5  | -                   | 3  | 50           | 52 | -      | -  | -        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 17:45:00 - 18:00:00                | 12                       | 30 | - | 1       | 5  | - | -               | - | - | -           | -  | 2            | -              | 3                         | 6  | -                   | 1  | 55           | 44 | -      | -  | -        | -                     | -          | -  | 2          |                       |          |    |   |       |  |  |  |
| 18:00:00 - 18:15:00                | 17                       | 34 | - | 3       | 3  | - | -               | - | - | -           | -  | 1            | -              | 1                         | 3  | -                   | 1  | 61           | 55 | -      | -  | -        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 18:15:00 - 18:30:00                | 18                       | 41 | - | 1       | 2  | - | -               | - | - | -           | -  | 1            | -              | 4                         | 4  | -                   | 2  | 64           | 58 | -      | -  | -        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 18:30:00 - 18:45:00                | 23                       | 46 | - | 3       | 5  | - | -               | - | - | -           | -  | 2            | -              | 6                         | 7  | -                   | 3  | 62           | 63 | -      | -  | -        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 18:45:00 - 19:00:00                | 20                       | 44 | - | 1       | 4  | - | -               | - | - | -           | -  | 2            | -              | 5                         | 8  | -                   | 2  | 53           | 60 | -      | -  | -        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 19:00:00 - 19:15:00                | 22                       | 43 | - | 5       | -  | - | -               | - | - | -           | -  | 1            | -              | 2                         | 11 | -                   | 3  | 45           | 42 | -      | -  | -        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 19:15:00 - 19:30:00                | 8                        | 26 | - | 4       | -  | - | -               | - | - | -           | -  | 2            | -              | 5                         | -  | -                   | 1  | 44           | 47 | -      | -  | -        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 19:30:00 - 19:45:00                | 9                        | 42 | - | 7       | -  | - | -               | - | - | -           | -  | 2            | -              | 3                         | 14 | -                   | 4  | 38           | 31 | -      | -  | -        | -                     | -          | -  | 1          |                       |          |    |   |       |  |  |  |
| 19:45:                             |                          |    |   |         |    |   |                 |   |   |             |    |              |                |                           |    |                     |    |              |    |        |    |          |                       |            |    |            |                       |          |    |   |       |  |  |  |

## **SURVAI VOLUME LALU LINTAS PERGERAKAN MEMBELOK**

|              |           |            |   |          |   |
|--------------|-----------|------------|---|----------|---|
| Nama Simpang | JLT Tukum | Gambar     |  | Hari     | : |
| Kota         | Lumajang  | sketsa     |   | Tanggal  | : |
| Dari Arah    | Yeye      | ruas jalan |   | Surveyor | : |
| Ke Arah      |           |            |   |          |   |

**SURVAI VOLUME LALU LINTAS PERGERAKAN MEMBELOK**

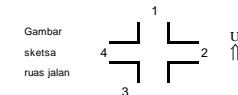
| WAKTU<br>SURVAI<br>( 15 menit-an ) | LIGHT VEHICLES<br>( LV ) |    |   |               |    |   |             |   |              |    |                           |    | HEAVY VEHICLES      |    |              |    |        |    |          |     | MOTORCYCLES<br>( MC ) |     |            |    | UNMOTORISED<br>( UM ) |    |    |    | CUACA |  |  |  |
|------------------------------------|--------------------------|----|---|---------------|----|---|-------------|---|--------------|----|---------------------------|----|---------------------|----|--------------|----|--------|----|----------|-----|-----------------------|-----|------------|----|-----------------------|----|----|----|-------|--|--|--|
|                                    | Mobil/Sedan<br>Carry/Van |    |   | Pick-Up<br>AU |    |   | Bus<br>Kota |   | Bus<br>Besar |    | Truk Sedang<br>Bus Sedang |    | Gandeng/<br>Trailer |    | Sepeda Motor |    | Sepeda |    | 1. Cerah |     | 2. Gerimis            |     | 3. Mendung |    | 4. Hujan              |    |    |    |       |  |  |  |
|                                    | ≤                        | ↑  | ⇒ | ≤             | ↑  | ⇒ | ≤           | ↑ | ⇒            | ≤  | ↑                         | ⇒  | ≤                   | ↑  | ⇒            | ≤  | ↑      | ⇒  | ≤        | ↑   | ⇒                     | ≤   | ↑          | ⇒  | ≤                     | ↑  | ⇒  |    |       |  |  |  |
|                                    | 1                        | 2  | 3 | 4             | 5  | 6 | 7           | 8 | 9            | 10 | 11                        | 12 | 13                  | 14 | 15           | 16 | 17     | 18 | 19       | 20  | 21                    | 22  | 23         | 24 | 25                    | 26 | 27 | 28 | 29    |  |  |  |
| 6:00:00 - 6:15:00                  | 5                        | 13 | - | 1             | -  | - | -           | - | -            | -  | -                         | -  | -                   | -  | -            | -  | -      | -  | -        | -   | -                     | -   | -          | -  | -                     | -  | -  | -  | 1     |  |  |  |
| 6:15:00 - 6:30:00                  | 9                        | 16 | - | -             | 1  | - | -           | - | -            | -  | -                         | -  | -                   | -  | -            | 1  | -      | -  | 1        | -   | -                     | 27  | 126        | -  | -                     | 1  | -  | 1  |       |  |  |  |
| 6:30:00 - 6:45:00                  | 14                       | 17 | - | 2             | -  | - | -           | 1 | -            | -  | -                         | -  | -                   | -  | -            | -  | -      | -  | -        | 34  | 129                   | -   | -          | 1  | -                     | 1  |    |    |       |  |  |  |
| 6:45:00 - 7:00:00                  | 8                        | 12 | - | 1             | -  | - | -           | - | -            | -  | -                         | -  | -                   | -  | -            | -  | -      | -  | -        | 30  | 152                   | 1   | 2          | -  | 1                     | 1  |    |    |       |  |  |  |
| 7:00:00 - 7:15:00                  | 7                        | 11 | - | -             | 3  | - | -           | 2 | -            | -  | -                         | -  | 1                   | -  | -            | 1  | -      | -  | 22       | 139 | -                     | -   | 3          | -  | 1                     |    |    |    |       |  |  |  |
| 7:15:00 - 7:30:00                  | 1                        | 15 | - | -             | 2  | - | -           | 1 | -            | -  | -                         | -  | -                   | -  | -            | 2  | 1      | -  | 1        | -   | 26                    | 133 | -          | 4  | 2                     | -  | 1  |    |       |  |  |  |
| 7:30:00 - 7:45:00                  | 7                        | 11 | - | -             | 1  | - | -           | - | -            | -  | -                         | -  | -                   | -  | -            | -  | -      | -  | -        | 30  | 130                   | -   | 1          | 5  | -                     | 1  |    |    |       |  |  |  |
| 7:45:00 - 8:00:00                  | 4                        | 7  | - | -             | 4  | - | -           | 1 | -            | -  | -                         | -  | -                   | -  | -            | 1  | 5      | -  | 2        | -   | 24                    | 162 | -          | -  | 4                     | -  | 1  |    |       |  |  |  |
| 8:00:00 - 8:15:00                  | 3                        | 8  | - | -             | 8  | - | -           | - | -            | -  | -                         | -  | 1                   | -  | 3            | -  | -      | 1  | -        | 19  | 140                   | -   | 1          | 11 | -                     | 1  |    |    |       |  |  |  |
| 8:15:00 - 8:30:00                  | 4                        | 13 | - | -             | 7  | - | -           | 2 | -            | -  | -                         | -  | 2                   | -  | 7            | 3  | -      | -  | -        | 31  | 165                   | -   | 4          | 5  | -                     | 1  |    |    |       |  |  |  |
| 8:30:00 - 8:45:00                  | 2                        | 8  | - | 1             | 3  | - | -           | - | -            | -  | -                         | -  | -                   | -  | -            | -  | -      | -  | -        | 24  | 142                   | -   | -          | 3  | -                     | 1  |    |    |       |  |  |  |
| 8:45:00 - 9:00:00                  | 3                        | 6  | - | -             | 3  | - | -           | - | -            | -  | -                         | -  | 1                   | -  | -            | -  | -      | -  | -        | 24  | 140                   | 2   | 2          | -  | 1                     | 1  |    |    |       |  |  |  |
| 9:00:00 - 9:15:00                  | 3                        | 8  | - | -             | 3  | - | -           | - | -            | -  | -                         | -  | -                   | -  | -            | -  | -      | -  | -        | 23  | 142                   | -   | -          | 4  | -                     | 1  |    |    |       |  |  |  |
| 9:15:00 - 9:30:00                  | 6                        | 13 | - | 2             | 2  | - | -           | 2 | -            | -  | -                         | -  | -                   | -  | 1            | 1  | -      | -  | -        | 22  | 142                   | -   | 3          | 4  | -                     | 1  |    |    |       |  |  |  |
| 9:30:00 - 9:45:00                  | 2                        | 17 | - | 2             | 1  | - | -           | - | -            | -  | -                         | -  | -                   | -  | -            | -  | -      | -  | -        | 21  | 152                   | -   | 5          | -  | 1                     | 1  |    |    |       |  |  |  |
| 9:45:00 - 10:00:00                 | 2                        | 16 | - | -             | 3  | - | -           | - | -            | -  | -                         | -  | -                   | -  | -            | 1  | -      | -  | 33       | 132 | -                     | 4   | 6          | -  | 1                     |    |    |    |       |  |  |  |
| 10:00:00 - 10:15:00                | 2                        | 14 | - | 1             | 1  | - | -           | 2 | -            | -  | -                         | -  | -                   | -  | -            | 2  | -      | -  | 24       | 129 | -                     | 3   | -          | 1  | 1                     |    |    |    |       |  |  |  |
| 10:15:00 - 10:30:00                | 1                        | 12 | - | 2             | 4  | - | -           | - | -            | -  | -                         | -  | -                   | -  | -            | -  | -      | -  | 28       | 131 | -                     | 3   | 4          | -  | 1                     |    |    |    |       |  |  |  |
| 10:30:00 - 10:45:00                | 3                        | 22 | - | -             | 1  | - | -           | - | -            | -  | -                         | -  | 2                   | -  | 2            | -  | -      | -  | 22       | 137 | -                     | 6   | -          | 1  | 1                     |    |    |    |       |  |  |  |
| 10:45:00 - 11:00:00                | 4                        | 18 | - | 1             | 1  | - | -           | 1 | -            | -  | -                         | -  | -                   | -  | -            | 1  | -      | -  | 22       | 157 | -                     | 2   | 7          | -  | 1                     |    |    |    |       |  |  |  |
| 11:00:00 - 11:15:00                | 7                        | 24 | - | 2             | 11 | - | -           | 1 | -            | -  | -                         | -  | 1                   | -  | 2            | 2  | -      | -  | 16       | 183 | -                     | 1   | 7          | -  | 1                     |    |    |    |       |  |  |  |
| 11:15:00 - 11:30:00                | 4                        | 39 | - | 4             | 6  | - | -           | - | -            | -  | -                         | -  | 1                   | -  | 3            | 6  | -      | -  | 17       | 191 | -                     | 14  | -          | 1  | 1                     |    |    |    |       |  |  |  |
| 11:30:00 - 11:45:00                | 5                        | 28 | - | 1             | 6  | - | -           | 1 | -            | -  | -                         | -  | 2                   | -  | 3            | 3  | -      | -  | 19       | 204 | -                     | 13  | -          | 1  | 1                     |    |    |    |       |  |  |  |
| 11:45:00 - 12:00:00                | 5                        | 31 | - | 1             | 7  | - | -           | 1 | -            | -  | -                         | -  | -                   | -  | 3            | -  | 1      | -  | 20       | 206 | -                     | 1   | 13         | -  | 1                     |    |    |    |       |  |  |  |
| 12:00:00 - 12:15:00                | 3                        | 36 | - | 3             | 5  | - | -           | - | -            | -  | -                         | -  | 1                   | -  | 2            | -  | 2      | -  | 27       | 189 | -                     | 3   | 17         | -  | 1                     |    |    |    |       |  |  |  |
| 12:15:00 - 12:30:00                | 6                        | 26 | - | 1             | 6  | - | -           | 1 | -            | -  | -                         | -  | 1                   | -  | 2            | -  | -      | -  | 21       | 202 | -                     | 2   | 4          | -  | 1                     |    |    |    |       |  |  |  |
| 12:30:00 - 12:45:00                | 8                        | 28 | - | 4             | 3  | - | -           | 2 | -            | -  | -                         | -  | 1                   | -  | 4            | -  | 1      | -  | 24       | 207 | -                     | 2   | 11         | -  | 1                     |    |    |    |       |  |  |  |
| 12:45:00 - 13:00:00                | 3                        | 20 | - | 2             | 5  | - | -           | 1 | -            | -  | -                         | -  | 1                   | -  | 3            | -  | 1      | -  | 34       | 194 | -                     | 1   | 11         | -  | 1                     |    |    |    |       |  |  |  |
| 13:00:00 - 13:15:00                | 2                        | 18 | - | 1             | 2  | - | -           | - | -            | -  | -                         | -  | -                   | -  | -            | -  | -      | -  | 27       | 188 | -                     | 1   | -          | 1  | 1                     |    |    |    |       |  |  |  |
| 13:15:00 - 13:30:00                | 3                        | 15 | - | 2             | 2  | - | -           | - | -            | -  | -                         | -  | -                   | -  | -            | -  | -      | -  | 23       | 177 | -                     | 2   | 5          | -  | 1                     |    |    |    |       |  |  |  |
| 13:30:00 - 13:45:00                | 4                        | 15 | - | 2             | 3  | - | -           | 1 | -            | -  | -                         | -  | -                   | -  | 2            | -  | 1      | -  | 24       | 162 | -                     | 6   | -          | 1  | 1                     |    |    |    |       |  |  |  |
| 13:45:00 - 14:00:00                | 5                        | 16 | - | 2             | 4  | - | -           | - | -            | -  | -                         | -  | 2                   | -  | -            | -  | -      | -  | 27       | 175 | -                     | 3   | 3          | -  | 1                     |    |    |    |       |  |  |  |
| 14:00:00 - 14:15:00                | 2                        | 17 | - | 2             | 3  | - | -           | - | -            | -  | -                         | -  | 2                   | -  | -            | -  | -      | -  | 20       | 188 | -                     | 7   | -          | 1  | 1                     |    |    |    |       |  |  |  |
| 14:15:00 - 14:30:00                | 4                        | 25 | - | 3             | 2  | - | -           | 1 | -            | -  | -                         | -  | -                   | -  | 1            | -  | 2      | -  | 17       | 165 | 3                     | 3   | -          | 1  | 1                     |    |    |    |       |  |  |  |
| 14:30:00 - 14:45:00                | 9                        | 26 | - | 1             | 2  | - | -           | 2 | -            | -  | -                         | -  | -                   | -  | -            | 2  | -      | -  | 24       | 176 | -                     | 4   | 6          | -  | 1                     |    |    |    |       |  |  |  |
| 14:45:00 - 15:00:00                | 5                        | 23 | - | 4             | 3  | - | -           | - | -            | -  | -                         | -  | 2                   | -  | -            | 2  | -      | -  | 22       | 169 | -                     | 3   | -          | 3  | -                     |    |    |    |       |  |  |  |
| 15:00:00 - 15:15:00                | 15                       | 35 | - | 3             | 7  | - | -           | - | -            | -  | -                         | 1  | -                   | 1  | 4            | -  | -      | -  | 22       | 180 | 1                     | 6   | -          | 3  | -                     |    |    |    |       |  |  |  |
| 15:15:00 - 15:30:00                | 9                        | 28 | - | 2             | 7  | - | -           | - | -            | -  | -                         | 1  | -                   | 4  | 1            | -  | 1      | -  | 43       | 218 | -                     | 1   | 11         | -  | 2                     |    |    |    |       |  |  |  |
| 15:30:00 - 15:45:00                | 6                        | 17 | - | 2             | 8  | - | -           | 1 | -            | -  | -                         | 2  | -                   | 2  | 4            | -  | -      | -  | 22       | 219 | -                     | 2   | 5          | -  | 3                     |    |    |    |       |  |  |  |
| 15:45:00 - 16:00:00                | 3                        | 28 | - | 1             | 11 | - | -           | - | -            | -  | -                         | 1  | -                   | -  | 1            | -  | -      | -  | 46       | 250 | 1                     | 6   | -          | 1  | 1                     |    |    |    |       |  |  |  |
| 16:00:00 - 16:15:00                | 3                        | 22 | - | 3             | 9  | - | -           | 1 | -            | -  | -                         | 1  | -                   | 3  | -            | 1  | -      | -  | 31       | 345 | -                     | 2   | 9          | -  | 1                     |    |    |    |       |  |  |  |
| 16:15:00 - 16:30:00                | 7                        | 37 | - | 2             | 6  | - | -           | 1 | -            | -  | -                         | -  | 2                   | 6  | -            | -  | -      | -  | 37       | 315 | -                     | 17  | -          | 1  | 1                     |    |    |    |       |  |  |  |
| 16:30:00 - 16:45:00                | 6                        | 40 | - | 2             | 8  | - | -           | - | -            | -  | 1                         | -  | 2                   | 7  | -            | -  | -      | -  | 38       | 313 | -                     | 12  | -          | 1  | 1                     |    |    |    |       |  |  |  |
| 16:45:00 - 17:00:00                | 8                        | 34 | - | 1             | 5  | - | -           | - | -            | -  | -                         | 2  | -                   | 4  | -            | -  | -      | -  | 28       | 283 | -                     | 4   | -          | 1  | 1                     |    |    |    |       |  |  |  |
| 17:00:00 - 17:15:00                | 8                        | 34 | - | 1             | 3  | - | -           | 2 | -            | -  | -                         | -  | -                   | -  | -            | -  | -      | -  | 18       | 267 | -                     | 3   | -          | 1  | 1                     |    |    |    |       |  |  |  |
| 17:15:00 - 17:30:00                | 7                        | 27 | - | 2             | 4  | - | -           | - | -            | -  | -                         | 2  | -                   | -  | -            | -  | -      | -  | 20       | 273 | -                     | 4   | -          | 1  | 1                     |    |    |    |       |  |  |  |
| 17:30:00 - 17:45:00                | 8                        | 24 | - | 2             | 4  | - | -           | 2 | -            | -  | -                         | -  | 2                   | -  | 1            | -  | -      | -  | 22       | 247 | -                     | 3   | -          | 1  | 1                     |    |    |    |       |  |  |  |
| 17:45:00 - 18:00:00                | 9                        | 22 | - | 1             | 4  | - | -           | - | -            | -  | -                         | 1  | -                   | -  | -            | -  | -      | -  | 23       | 235 | -                     | 4   | -          | 2  | -                     |    |    |    |       |  |  |  |
| 18:00:00 - 18:15:00                | 4                        | 23 | - | 1             | 3  | - | -           | - | -            | -  | -                         | -  | 2                   | -  | 2            | -  | -      | -  | 23       | 233 | -                     | 4   | 3          | -  | 1                     |    |    |    |       |  |  |  |
| 18:15:00 - 18:30:00                | 5                        | 20 | - | 1             | 3  | - | -           | - | -            | -  | -                         | -  | -                   | -  | -            | -  | -      | -  | 17       | 264 | -                     | -   | -          | -  | 1                     |    |    |    |       |  |  |  |
| 18:30:00 - 18:45:00                | 7                        | 24 | - | 2             | 3  | - | -           | - | -            | -  | -                         | 1  | -                   | 2  | -            | -  | -      | -  | 24       | 288 | -                     | 1   | 2          | -  | 1                     |    |    |    |       |  |  |  |
| 18:45:00 - 19:00:00                | 6                        | 27 | - | 2             | 5  | - | -           | - | -            | -  | -                         | 2  | -                   | 1  | -            | -  | -      | -  | 23       | 228 | -                     | 2   | -          | 1  | 1                     |    |    |    |       |  |  |  |
| 19:00:00 - 19:15:00                | 1                        | 18 | - | 1             | 2  | - | -           | - | -            | -  | -                         | -  | -                   | -  | -            | -  | -      | -  | 24       | 191 | 1                     | 3   | -          | 1  | 1                     |    |    |    |       |  |  |  |
| 19:15:00 - 19:30:00                | 1                        | 19 | - | 2             | 6  | - | -           | - | -            | -  | -                         | 1  | -                   | 1  | -            | -  | -      | -  | 27       | 155 | -                     | 2   | 3          | -  | 1                     |    |    |    |       |  |  |  |
| 19:30:00 - 19:45:00                | 3                        | 39 | - | 2             | 3  | - | -           | 2 | -            | -  | -                         | -  | -                   | -  | -            | 1  | -      | -  | 17       | 184 | -                     | 1   | 2          | -  | 1                     |    |    |    |       |  |  |  |
| 19:45:00 - 20:00:00                | 8                        | 36 | - | 1             | 2  | - | -           | - | -            | -  | -                         | -  | -                   | -  | -            | -  | -      | -  | 9        | 189 | -                     | 3   | -          | 1  | 1                     |    |    |    |       |  |  |  |
| 20:00:00 - 20:15:00                | 5                        | 23 | - | 2             | 2  | - | -           | - | -            | -  | -                         | 1  | -                   | -  | -            | -  | -      | -  | 7        |     |                       |     |            |    |                       |    |    |    |       |  |  |  |

**SURVAI VOLUME LALU LINTAS PERGERAKAN MEMBELOK**

| WAKTU<br>SURVAI<br>( 15 menit-an ) | LIGHT VEHICLES<br>( LV ) |          |   |         |    |   |                 |   |   |             |    |    | HEAVY VEHICLES |    |    |                           |    |    |                     |    |    |              |    |    | MOTORCYCLES<br>( MC ) |    |    | UNMOTORISED<br>( UM ) |    |   | CUACA |  |  |
|------------------------------------|--------------------------|----------|---|---------|----|---|-----------------|---|---|-------------|----|----|----------------|----|----|---------------------------|----|----|---------------------|----|----|--------------|----|----|-----------------------|----|----|-----------------------|----|---|-------|--|--|
|                                    | Mobil/Sedan<br>Carry/Van |          |   | Pick-Up |    |   | Microlet/<br>AU |   |   | Bus<br>Kota |    |    | Bus<br>Besar   |    |    | Truk Sedang<br>Bus Sedang |    |    | Gandeng/<br>Trailer |    |    | Sepeda Motor |    |    | Sepeda                |    |    | 1. Cerah              |    |   |       |  |  |
|                                    | =                        | ↑        | = | =       | ↑  | = | =               | ↑ | = | =           | ↑  | =  | =              | ↑  | =  | =                         | ↑  | =  | =                   | ↑  | =  | =            | ↑  | =  | =                     | ↑  | =  | =                     | ↑  | = |       |  |  |
|                                    | 1                        | 2        | 3 | 4       | 5  | 6 | 7               | 8 | 9 | 10          | 11 | 12 | 13             | 14 | 15 | 16                        | 17 | 18 | 19                  | 20 | 21 | 22           | 23 | 24 | 25                    | 26 | 27 | 28                    | 29 |   |       |  |  |
| 6:00:00                            | -                        | 6:15:00  | - | -       | 2  | - | -               | 3 | - | -           | -  | -  | -              | -  | -  | -                         | -  | -  | -                   | -  | -  | -            | -  | -  | -                     | -  | -  | -                     | -  | - | 1     |  |  |
| 6:15:00                            | -                        | 6:30:00  | - | -       | 4  | 1 | -               | 1 | 2 | -           | -  | -  | -              | -  | -  | 1                         | -  | -  | 2                   | -  | -  | -            | -  | -  | 79                    | 17 | -  | 3                     | 2  | - | 1     |  |  |
| 6:30:00                            | -                        | 6:45:00  | - | -       | 13 | - | -               | 1 | - | -           | -  | -  | -              | -  | 1  | -                         | 1  | -  | -                   | -  | -  | -            | -  | -  | 119                   | 39 | -  | 3                     | 4  | - | 1     |  |  |
| 6:45:00                            | -                        | 7:00:00  | - | -       | 16 | 3 | -               | 6 | 1 | -           | -  | -  | -              | -  | -  | 1                         | -  | 6  | 1                   | -  | -  | -            | -  | -  | 134                   | 55 | -  | 8                     | 3  | - | 1     |  |  |
| 7:00:00                            | -                        | 7:15:00  | - | -       | 15 | 3 | -               | 3 | 1 | -           | -  | -  | -              | -  | 1  | -                         | 5  | 1  | -                   | -  | -  | -            | -  | -  | 131                   | 52 | -  | 7                     | 3  | - | 1     |  |  |
| 7:15:00                            | -                        | 7:30:00  | - | -       | 18 | 1 | -               | 5 | 1 | -           | -  | -  | -              | -  | 1  | -                         | 8  | -  | -                   | -  | -  | -            | -  | -  | 115                   | 45 | -  | 3                     | 3  | - | 1     |  |  |
| 7:30:00                            | -                        | 7:45:00  | - | -       | 15 | 7 | -               | 8 | - | -           | -  | -  | -              | -  | 1  | -                         | 3  | -  | -                   | -  | -  | -            | -  | -  | 114                   | 46 | -  | 7                     | 4  | - | 1     |  |  |
| 7:45:00                            | -                        | 8:00:00  | - | -       | 15 | 4 | -               | 1 | 2 | -           | -  | -  | -              | -  | 1  | -                         | 3  | -  | -                   | -  | -  | -            | -  | -  | 147                   | 47 | -  | 6                     | 1  | - | 1     |  |  |
| 8:00:00                            | -                        | 8:15:00  | - | -       | 11 | 1 | -               | 6 | 4 | -           | -  | -  | -              | -  | 1  | -                         | 5  | -  | -                   | -  | -  | -            | -  | -  | 124                   | 53 | -  | 7                     | 3  | - | 1     |  |  |
| 8:15:00                            | -                        | 8:30:00  | - | -       | 16 | 3 | -               | 6 | 2 | -           | -  | -  | -              | -  | 1  | -                         | 4  | 1  | -                   | -  | -  | -            | -  | -  | 137                   | 54 | -  | 5                     | 4  | - | 1     |  |  |
| 8:30:00                            | -                        | 8:45:00  | - | -       | 9  | 2 | -               | 3 | - | -           | -  | -  | -              | -  | 1  | -                         | 3  | -  | -                   | -  | -  | -            | -  | -  | 117                   | 43 | -  | 2                     | 2  | - | 1     |  |  |
| 8:45:00                            | -                        | 9:00:00  | - | -       | 8  | 2 | -               | 3 | 1 | -           | -  | -  | -              | -  | 1  | -                         | 2  | 1  | -                   | -  | -  | -            | -  | -  | 83                    | 34 | -  | 2                     | 1  | - | 1     |  |  |
| 9:00:00                            | -                        | 9:15:00  | - | -       | 8  | 2 | -               | 4 | 2 | -           | -  | -  | -              | -  | 1  | -                         | 2  | -  | 1                   | -  | -  | -            | -  | -  | 108                   | 33 | -  | 3                     | 1  | - | 1     |  |  |
| 9:15:00                            | -                        | 9:30:00  | - | -       | 8  | 3 | -               | 3 | 2 | -           | -  | -  | -              | -  | 2  | -                         | 3  | 2  | -                   | -  | -  | -            | -  | -  | 95                    | 32 | -  | 2                     | 1  | - | 1     |  |  |
| 9:30:00                            | -                        | 9:45:00  | - | -       | 7  | 2 | -               | 3 | 2 | -           | -  | -  | -              | -  | 1  | -                         | 3  | -  | 1                   | 1  | -  | 70           | 32 | -  | 2                     | 2  | -  | 1                     |    |   |       |  |  |
| 9:45:00                            | -                        | 10:00:00 | - | -       | 7  | 2 | -               | 3 | 1 | -           | -  | -  | -              | -  | 1  | -                         | 3  | 2  | -                   | -  | -  | -            | -  | -  | 92                    | 31 | -  | 1                     | 2  | - | 1     |  |  |
| 10:00:00                           | -                        | 10:15:00 | - | -       | 11 | 1 | -               | 2 | 3 | -           | -  | -  | -              | -  | 2  | -                         | 1  | 1  | -                   | 74 | 33 | -            | 2  | 2  | -                     | 1  |    |                       |    |   |       |  |  |
| 10:15:00                           | -                        | 10:30:00 | - | -       | 12 | 1 | -               | 2 | 2 | -           | -  | -  | -              | -  | 1  | -                         | 2  | 1  | -                   | -  | -  | -            | -  | -  | 80                    | 33 | -  | 3                     | 3  | - | 1     |  |  |
| 10:30:00                           | -                        | 10:45:00 | - | -       | 9  | 1 | -               | 1 | - | -           | -  | -  | -              | -  | 2  | -                         | 1  | -  | -                   | -  | -  | -            | -  | -  | 79                    | 34 | -  | 3                     | 1  | - | 1     |  |  |
| 10:45:00                           | -                        | 11:00:00 | - | -       | 11 | 3 | -               | 3 | 2 | -           | -  | -  | -              | -  | 2  | -                         | 2  | -  | 2                   | -  | -  | -            | -  | -  | 92                    | 42 | -  | 4                     | 2  | - | 1     |  |  |
| 11:00:00                           | -                        | 11:15:00 | - | -       | 17 | 5 | -               | 5 | 2 | -           | -  | -  | -              | -  | 2  | -                         | 3  | 1  | -                   | 1  | -  | -            | -  | -  | 124                   | 69 | -  | 7                     | 3  | - | 1     |  |  |
| 11:15:00                           | -                        | 11:30:00 | - | -       | 16 | 5 | -               | 1 | 1 | -           | -  | -  | -              | -  | 1  | -                         | 3  | -  | -                   | -  | -  | -            | -  | -  | 116                   | 45 | -  | 5                     | 5  | - | 1     |  |  |
| 11:30:00                           | -                        | 11:45:00 | - | -       | 19 | 5 | -               | 3 | 1 | -           | -  | -  | -              | -  | 1  | -                         | 9  | 2  | -                   | -  | -  | -            | -  | -  | 141                   | 58 | -  | 5                     | 3  | - | 1     |  |  |
| 11:45:00                           | -                        | 12:00:00 | - | -       | 23 | 3 | -               | 4 | 4 | -           | -  | -  | -              | -  | 2  | -                         | 9  | -  | -                   | -  | -  | -            | -  | -  | 80                    | 38 | -  | 3                     | 2  | - | 1     |  |  |
| 12:00:00                           | -                        | 12:15:00 | - | -       | 19 | 5 | -               | 5 | 1 | -           | -  | -  | -              | -  | 2  | -                         | 3  | -  | 1                   | -  | -  | -            | -  | -  | 79                    | 49 | -  | 3                     | 2  | - | 1     |  |  |
| 12:15:00                           | -                        | 12:30:00 | - | -       | 18 | 1 | -               | 4 | - | -           | -  | -  | -              | -  | 2  | -                         | 2  | -  | 1                   | -  | -  | -            | -  | -  | 97                    | 49 | -  | 3                     | 1  | - | 1     |  |  |
| 12:30:00                           | -                        | 12:45:00 | - | -       | 21 | 2 | -               | 2 | - | -           | -  | -  | -              | -  | 2  | -                         | 3  | -  | -                   | -  | -  | -            | -  | -  | 74                    | 36 | -  | 2                     | 3  | - | 1     |  |  |
| 12:45:00                           | -                        | 13:00:00 | - | -       | 16 | 5 | -               | 1 | - | -           | -  | -  | -              | -  | 3  | -                         | 3  | -  | -                   | -  | -  | -            | -  | -  | 91                    | 31 | -  | 5                     | 1  | - | 1     |  |  |
| 13:00:00                           | -                        | 13:15:00 | - | -       | 15 | 2 | -               | - | - | -           | -  | -  | -              | -  | 1  | -                         | 3  | -  | -                   | -  | -  | -            | -  | -  | 74                    | 21 | -  | 3                     | -  | - | 1     |  |  |
| 13:15:00                           | -                        | 13:30:00 | - | -       | 15 | 2 | -               | 2 | 1 | -           | -  | -  | -              | -  | 1  | -                         | 3  | 2  | -                   | 1  | -  | -            | -  | -  | 81                    | 31 | -  | -                     | 1  | - | 1     |  |  |
| 13:30:00                           | -                        | 13:45:00 | - | -       | 14 | 1 | -               | 2 | 1 | -           | -  | -  | -              | -  | 2  | -                         | 2  | -  | 1                   | -  | -  | -            | -  | -  | 69                    | 22 | -  | 4                     | 1  | - | 1     |  |  |
| 13:45:00                           | -                        | 14:00:00 | - | -       | 14 | 2 | -               | 3 | 2 | -           | -  | -  | -              | -  | 2  | -                         | 2  | 1  | -                   | 1  | -  | -            | -  | -  | 83                    | 34 | -  | 2                     | 2  | - | 1     |  |  |
| 14:00:00                           | -                        | 14:15:00 | - | -       | 18 | 2 | -               | 2 | 2 | -           | -  | -  | -              | -  | 2  | -                         | 3  | -  | -                   | -  | -  | -            | -  | -  | 96                    | 30 | -  | 2                     | 2  | - | 1     |  |  |
| 14:15:00                           | -                        | 14:30:00 | - | -       | 16 | - | -               | - | - | -           | -  | -  | -              | -  | -  | -                         | -  | -  | -                   | -  | -  | -            | -  | -  | 108                   | 33 | -  | 2                     | -  | - | 1     |  |  |
| 14:30:00                           | -                        | 14:45:00 | - | -       | 39 | 6 | -               | 5 | 1 | -           | -  | -  | -              | -  | 1  | -                         | 5  | -  | -                   | -  | -  | -            | -  | -  | 138                   | 47 | -  | 7                     | 2  | - | 1     |  |  |
| 14:45:00                           | -                        | 15:00:00 | - | -       | 18 | 1 | -               | 2 | 2 | -           | -  | -  | -              | -  | 2  | -                         | 3  | -  | -                   | -  | -  | -            | -  | -  | 91                    | 23 | -  | 2                     | 3  | - | 3     |  |  |
| 15:00:00                           | -                        | 15:15:00 | - | -       | 16 | 7 | -               | 5 | 2 | -           | -  | -  | -              | -  | 2  | -                         | 1  | 1  | -                   | -  | -  | -            | -  | -  | 116                   | 56 | -  | 3                     | 3  | - | 3     |  |  |
| 15:15:00                           | -                        | 15:30:00 | - | -       | 16 | 4 | -               | 5 | 2 | -           | -  | -  | -              | -  | 1  | -                         | 5  | -  | 1                   | -  | -  | -            | -  | -  | 94                    | 63 | -  | 3                     | 1  | - | 2     |  |  |
| 15:30:00                           | -                        | 15:45:00 | - | -       | 18 | 3 | -               | 5 | 1 | -           | -  | -  | -              | -  | 2  | -                         | 2  | -  | 1                   | -  | -  | -            | -  | -  | 98                    | 58 | -  | 1                     | -  | - | 3     |  |  |
| 15:45:00                           | -                        | 16:00:00 | - | -       | 8  | 5 | -               | 7 | 3 | -           | -  | -  | -              | -  | 1  | -                         | 2  | 1  | -                   | 1  | -  | -            | -  | -  | 99                    | 49 | -  | 4                     | -  | - | 1     |  |  |
| 16:00:00                           | -                        | 16:15:00 | - | -       | 28 | 3 | -               | 5 | 1 | -           | -  | -  | -              | -  | 2  | -                         | 3  | -  | -                   | -  | -  | -            | -  | -  | 115                   | 52 | -  | 1                     | 3  | - | 1     |  |  |
| 16:15:00                           | -                        | 16:30:00 | - | -       | 13 | 2 | -               | 4 | 2 | -           | -  | -  | -              | -  | 1  | -                         | 3  | -  | 1                   | -  | -  | -            | -  | -  | 114                   | 50 | -  | 3                     | 1  | - | 1     |  |  |
| 16:30:00                           | -                        | 16:45:00 | - | -       | 11 | 3 | -               | 4 | - | -           | -  | -  | -              | -  | 2  | -                         | 1  | 1  | -                   | 1  | -  | -            | -  | -  | 103                   | 43 | -  | 2                     | 1  | - | 1     |  |  |
| 16:45:00                           | -                        | 17:00:00 | - | -       | 9  | 2 | -               | 2 | 1 | -           | -  | -  | -              | -  | 1  | -                         | 2  | -  | 2                   | -  | -  | -            | -  | -  | 100                   | 40 | -  | 1                     | -  | - | 1     |  |  |
| 17:00:00                           | -                        | 17:15:00 | - | -       | 14 | 2 | -               | 2 | 1 | -           | -  | -  | -              | -  | 2  | -                         | 1  | -  | -                   | -  | -  | -            | -  | -  | 84                    | 35 | -  | 2                     | 1  | - | 1     |  |  |
| 17:15:00                           | -                        | 17:30:00 | - | -       | 13 | 2 | -               | 2 | 1 | -           | -  | -  | -              | -  | 2  | -                         | 1  | -  | 1                   | -  | -  | -            | -  | -  | 93                    | 36 | -  | 2                     | 2  | - | 1     |  |  |
| 17:30:00                           | -                        | 17:45:00 | - | -       | 12 | 2 | -               | 2 | 2 | -           | -  | -  | -              | -  | 2  | -                         | 1  | 2  | -                   | 1  | -  | -            | -  | -  | 90                    | 35 | -  | 1                     | -  | - | 1     |  |  |
| 17:45:00                           | -                        | 18:00:00 | - | -       | 11 | 3 | -               | 2 | - | -           | -  | -  | -              | -  | 1  | -                         | 2  | -  | 2                   | -  | 1  | -            | -  | -  | 83                    | 34 | -  | 1                     | 1  | - | 2     |  |  |
| 18:00:00                           | -                        | 18:15:00 | - | -       | 9  | 3 | -               | 1 | 2 | -           | -  | -  | -              | -  | 1  | -                         | 2  | 1  | -                   | 2  | -  | -            | -  | -  | 87                    | 33 | -  | 3                     | 1  | - | 1     |  |  |
| 18:15:00                           | -                        | 18:30:00 | - | -       | 9  | 2 | -</             |   |   |             |    |    |                |    |    |                           |    |    |                     |    |    |              |    |    |                       |    |    |                       |    |   |       |  |  |

## **SURVAI VOLUME LALU LINTAS PERGERAKAN MEMBELOK**

|              |              |
|--------------|--------------|
| Nama Simpang | Yosowilangun |
| Kota         | Lumajang     |
| Dari Arah    | Tempeh       |
| Ke Arah      |              |



Hari :  
Tanggal :  
Surveyor :

| WAKTU<br>SURVAI<br>( 15 menit-an ) | LIGHT VEHICLES<br>( LV ) |          |         |   |                 |   |             |   | HEAVY VEHICLES |    |                           |    |                     |    |              |    | MOTOR CYCLES<br>( MC ) |    |    |    | UNMOTORISED<br>( UM ) |    |    |     | CUACA    |          |    |    |    |
|------------------------------------|--------------------------|----------|---------|---|-----------------|---|-------------|---|----------------|----|---------------------------|----|---------------------|----|--------------|----|------------------------|----|----|----|-----------------------|----|----|-----|----------|----------|----|----|----|
|                                    | Mobil/Sedan<br>Carry/Van |          | Pick-Up |   | Microlet/<br>AU |   | Bus<br>Kota |   | Bus<br>Besar   |    | Truk Sedang<br>Bus Sedang |    | Gandeng/<br>Trailer |    | Sepeda Motor |    | Sepeda                 |    |    |    |                       |    |    |     |          | 1. Cerah |    |    |    |
|                                    | =                        | ↑        | ⇒       | = | ↑               | ⇒ | =           | ↑ | ⇒              | =  | ↑                         | ⇒  | =                   | ↑  | ⇒            | =  | ↑                      | ⇒  | =  | ↑  | ⇒                     | =  | ↑  | ⇒   | 1. Cerah |          |    |    |    |
|                                    | 1                        | 2        | 3       | 4 | 5               | 6 | 7           | 8 | 9              | 10 | 11                        | 12 | 13                  | 14 | 15           | 16 | 17                     | 18 | 19 | 20 | 21                    | 22 | 23 | 24  | 25       | 26       | 27 | 28 | 29 |
| 6:00:00                            | -                        | 6:15:00  | 1       | - | 2               | 1 | -           | 3 | -              | -  | -                         | -  | -                   | -  | -            | -  | 1                      | -  | 2  | -  | -                     | -  | 41 | -   | 72       | 4        | -  | 3  | 1  |
| 6:15:00                            | -                        | 6:30:00  | 2       | - | 4               | - | -           | 1 | -              | -  | -                         | -  | -                   | -  | -            | -  | 1                      | -  | 1  | -  | -                     | -  | 49 | -   | 88       | 2        | -  | 3  | 1  |
| 6:30:00                            | -                        | 6:45:00  | 1       | - | 8               | 1 | -           | - | -              | -  | -                         | -  | -                   | -  | -            | 2  | -                      | 2  | -  | -  | -                     | 50 | -  | 97  | 1        | -        | 3  | 1  |    |
| 6:45:00                            | -                        | 7:00:00  | 4       | - | 14              | 1 | -           | 4 | -              | -  | -                         | -  | -                   | -  | -            | 2  | -                      | 3  | -  | -  | -                     | 57 | -  | 102 | 5        | -        | 4  | 1  |    |
| 7:00:00                            | -                        | 7:15:00  | 3       | - | 12              | 1 | -           | 6 | -              | -  | -                         | -  | -                   | -  | -            | 1  | -                      | 2  | -  | -  | -                     | 54 | -  | 100 | 5        | -        | 2  | 1  |    |
| 7:15:00                            | -                        | 7:30:00  | 2       | - | 9               | 2 | -           | 3 | -              | -  | -                         | -  | -                   | -  | -            | -  | 6                      | -  | -  | -  | -                     | 50 | -  | 90  | 2        | -        | 2  | 1  |    |
| 7:30:00                            | -                        | 7:45:00  | 3       | - | 12              | 1 | -           | 4 | -              | -  | -                         | -  | -                   | -  | -            | 2  | -                      | 4  | -  | -  | -                     | 53 | -  | 91  | 7        | -        | 2  | 1  |    |
| 7:45:00                            | -                        | 8:00:00  | 1       | - | 12              | 2 | -           | 5 | -              | -  | -                         | -  | -                   | -  | -            | 1  | -                      | -  | -  | -  | -                     | 58 | -  | 80  | 5        | -        | 7  | 1  |    |
| 8:00:00                            | -                        | 8:15:00  | 4       | - | 12              | 1 | -           | 2 | -              | -  | -                         | -  | -                   | -  | -            | -  | 2                      | -  | -  | -  | -                     | 53 | -  | 90  | 6        | -        | 3  | 1  |    |
| 8:15:00                            | -                        | 8:30:00  | 5       | - | 16              | 3 | -           | 1 | -              | -  | -                         | -  | -                   | -  | -            | 1  | -                      | 2  | -  | -  | -                     | 68 | -  | 111 | 1        | -        | 2  | 1  |    |
| 8:30:00                            | -                        | 8:45:00  | 2       | - | 7               | 1 | -           | - | -              | -  | -                         | -  | -                   | -  | -            | -  | -                      | -  | -  | -  | -                     | 35 | -  | 93  | 1        | -        | 3  | 1  |    |
| 8:45:00                            | -                        | 9:00:00  | 2       | - | 5               | 2 | -           | 2 | -              | -  | -                         | -  | -                   | -  | -            | -  | -                      | -  | -  | -  | -                     | 37 | -  | 69  | 2        | -        | 2  | 1  |    |
| 9:00:00                            | -                        | 9:15:00  | 3       | - | 5               | 2 | -           | 4 | -              | -  | -                         | -  | -                   | -  | -            | 1  | -                      | 2  | -  | -  | -                     | 39 | -  | 70  | 3        | -        | 2  | 1  |    |
| 9:15:00                            | -                        | 9:30:00  | 2       | - | 4               | 1 | -           | 3 | -              | -  | -                         | -  | -                   | -  | -            | -  | -                      | -  | -  | -  | -                     | 40 | -  | 64  | 3        | -        | 3  | 1  |    |
| 9:30:00                            | -                        | 9:45:00  | 1       | - | 3               | - | -           | - | -              | -  | -                         | -  | -                   | -  | -            | 2  | -                      | 2  | -  | -  | -                     | 31 | -  | 62  | 2        | -        | 4  | 1  |    |
| 9:45:00                            | -                        | 10:00:00 | 3       | - | 4               | 3 | -           | 2 | -              | -  | -                         | -  | -                   | -  | -            | -  | -                      | -  | -  | -  | -                     | 32 | -  | 81  | 2        | -        | 2  | 1  |    |
| 10:00:00                           | -                        | 10:15:00 | 3       | - | 2               | 2 | -           | 1 | -              | -  | -                         | -  | -                   | -  | -            | 1  | -                      | 2  | -  | -  | -                     | 33 | -  | 57  | 2        | -        | 1  | 1  |    |
| 10:15:00                           | -                        | 10:30:00 | 3       | - | 2               | 2 | -           | 1 | -              | -  | -                         | -  | -                   | -  | -            | 1  | -                      | -  | -  | -  | -                     | 34 | -  | 80  | 1        | -        | 1  | 1  |    |
| 10:30:00                           | -                        | 10:45:00 | 4       | - | 5               | 3 | -           | 1 | -              | -  | -                         | -  | -                   | -  | -            | -  | -                      | -  | -  | -  | -                     | 42 | -  | 76  | 3        | -        | 2  | 1  |    |
| 10:45:00                           | -                        | 11:00:00 | 2       | - | 5               | - | -           | 2 | -              | -  | -                         | -  | -                   | -  | -            | 3  | -                      | -  | -  | -  | -                     | 44 | -  | 91  | 2        | -        | 2  | 1  |    |
| 11:00:00                           | -                        | 11:15:00 | 6       | - | 9               | 1 | -           | 5 | -              | -  | -                         | -  | -                   | -  | -            | 2  | -                      | -  | -  | -  | -                     | 68 | -  | 100 | 6        | -        | 1  | 1  |    |
| 11:15:00                           | -                        | 11:30:00 | 4       | - | 12              | - | -           | 3 | -              | -  | -                         | -  | -                   | -  | -            | -  | -                      | 4  | -  | -  | -                     | 53 | -  | 107 | 2        | -        | 2  | 1  |    |
| 11:30:00                           | -                        | 11:45:00 | 3       | - | 12              | 1 | -           | 4 | -              | -  | -                         | -  | -                   | -  | -            | 1  | -                      | 6  | -  | -  | -                     | 65 | -  | 106 | 3        | -        | 4  | 1  |    |
| 11:45:00                           | -                        | 12:00:00 | 3       | - | 5               | - | -           | 1 | -              | -  | -                         | -  | -                   | -  | -            | -  | -                      | -  | -  | -  | -                     | 61 | -  | 110 | 9        | -        | 2  | 1  |    |
| 12:00:00                           | -                        | 12:15:00 | 5       | - | 9               | 3 | -           | 1 | -              | -  | -                         | -  | -                   | -  | -            | 6  | -                      | 6  | -  | -  | -                     | 72 | -  | 94  | 6        | -        | 4  | 1  |    |
| 12:15:00                           | -                        | 12:30:00 | 3       | - | 7               | - | -           | 2 | -              | -  | -                         | -  | -                   | -  | -            | 1  | -                      | 3  | -  | -  | -                     | 61 | -  | 78  | 1        | -        | 1  | 1  |    |
| 12:30:00                           | -                        | 12:45:00 | 7       | - | 16              | 2 | -           | 4 | -              | -  | -                         | -  | -                   | -  | -            | 1  | -                      | -  | -  | -  | -                     | 52 | -  | 102 | 2        | -        | 1  | 1  |    |
| 12:45:00                           | -                        | 13:00:00 | 5       | - | 8               | 2 | -           | 5 | -              | -  | -                         | -  | -                   | -  | -            | -  | -                      | -  | -  | -  | -                     | 47 | -  | 93  | 5        | -        | 1  | 1  |    |
| 13:00:00                           | -                        | 13:15:00 | 2       | - | 6               | - | -           | 2 | -              | -  | -                         | -  | -                   | -  | -            | -  | -                      | -  | -  | -  | -                     | 39 | -  | 69  | -        | -        | 2  | 1  |    |
| 13:15:00                           | -                        | 13:30:00 | 4       | - | 5               | 1 | -           | 2 | -              | -  | -                         | -  | -                   | -  | -            | -  | -                      | 2  | -  | -  | -                     | 33 | -  | 78  | 1        | -        | 1  | 1  |    |
| 13:30:00                           | -                        | 13:45:00 | 3       | - | 4               | 2 | -           | 3 | -              | -  | -                         | -  | -                   | -  | -            | 1  | -                      | 2  | -  | -  | -                     | 36 | -  | 74  | 2        | -        | 2  | 1  |    |
| 13:45:00                           | -                        | 14:00:00 | 3       | - | 5               | 2 | -           | 1 | -              | -  | -                         | -  | -                   | -  | -            | -  | -                      | 1  | -  | -  | -                     | 41 | -  | 73  | 2        | -        | 1  | 1  |    |
| 14:00:00                           | -                        | 14:15:00 | 2       | - | 5               | 1 | -           | 3 | -              | -  | -                         | -  | -                   | -  | -            | 2  | -                      | 3  | -  | -  | -                     | 44 | -  | 71  | -        | -        | 1  | 1  |    |
| 14:15:00                           | -                        | 14:30:00 | 2       | - | 7               | - | -           | 2 | -              | -  | -                         | -  | -                   | -  | -            | -  | -                      | 1  | -  | -  | -                     | 32 | -  | 73  | -        | -        | 2  | 1  |    |
| 14:30:00                           | -                        | 14:45:00 | 1       | - | 4               | 1 | -           | 5 | -              | -  | -                         | -  | -                   | -  | -            | -  | 2                      | -  | 7  | -  | -                     | -  | 62 | -   | 92       | 2        | -  | 3  | 1  |
| 14:45:00                           | -                        | 15:00:00 | 2       | - | 6               | 2 | -           | 3 | -              | -  | -                         | -  | -                   | -  | -            | -  | -                      | 3  | -  | -  | -                     | 40 | -  | 78  | 1        | -        | 2  | 3  |    |
| 15:00:00                           | -                        | 15:15:00 | 4       | - | 6               | 2 | -           | 3 | -              | -  | -                         | -  | -                   | -  | -            | -  | -                      | 2  | -  | -  | -                     | 37 | -  | 86  | 9        | -        | 3  | 3  |    |
| 15:15:00                           | -                        | 15:30:00 | 1       | - | 8               | 1 | -           | 2 | -              | -  | -                         | -  | -                   | -  | -            | -  | -                      | -  | -  | -  | -                     | 58 | -  | 119 | 6        | -        | 2  | 2  |    |
| 15:30:00                           | -                        | 15:45:00 | 6       | - | 9               | - | -           | 4 | -              | -  | -                         | -  | -                   | -  | -            | 2  | -                      | 6  | -  | -  | -                     | 51 | -  | 109 | 5        | -        | 3  | 3  |    |
| 15:45:00                           | -                        | 16:00:00 | 8       | - | 11              | 1 | -           | 5 | -              | -  | -                         | -  | -                   | -  | -            | 1  | -                      | 1  | -  | -  | -                     | 43 | -  | 78  | 1        | -        | 1  | 1  |    |
| 16:00:00                           | -                        | 16:15:00 | -       | - | 7               | - | -           | 5 | -              | -  | -                         | -  | -                   | -  | -            | -  | 6                      | -  | -  | -  | -                     | 43 | -  | 124 | -        | -        | 1  | 1  |    |
| 16:15:00                           | -                        | 16:30:00 | 1       | - | 6               | 1 | -           | 2 | -              | -  | -                         | -  | -                   | -  | -            | 1  | -                      | 4  | -  | -  | -                     | 56 | -  | 120 | 5        | -        | 3  | 1  |    |
| 16:30:00                           | -                        | 16:45:00 | -       | - | 5               | - | -           | 3 | -              | -  | -                         | -  | -                   | -  | -            | -  | 1                      | -  | 4  | -  | -                     | -  | 52 | -   | 101      | -        | -  | 1  | 1  |
| 16:45:00                           | -                        | 17:00:00 | 2       | - | 5               | 2 | -           | 2 | -              | -  | -                         | -  | -                   | -  | -            | -  | 3                      | -  | -  | -  | -                     | 47 | -  | 96  | -        | -        | 1  | 1  |    |
| 17:00:00                           | -                        | 17:15:00 | 3       | - | 2               | - | -           | 1 | -              | -  | -                         | -  | -                   | -  | -            | -  | 2                      | -  | -  | -  | -                     | 41 | -  | 95  | -        | -        | 1  | 1  |    |
| 17:15:00                           | -                        | 17:30:00 | 2       | - | 4               | 1 | -           | 2 | -              | -  | -                         | -  | -                   | -  | -            | 1  | -                      | 2  | -  | -  | -                     | 43 | -  | 100 | 2        | -        | 1  | 1  |    |
| 17:30:00                           | -                        | 17:45:00 | 1       | - | 3               | 1 | -           | 1 | -              | -  | -                         | -  | -                   | -  | -            | -  | 2                      | -  | -  | -  | -                     | 31 | -  | 106 | 1        | -        | 2  | 1  |    |
| 17:45:00                           | -                        | 18:00:00 | 3       | - | 2               | 2 | -           | 2 | -              | -  | -                         | -  | -                   | -  | -            | 2  | -                      | 3  | -  | -  | -                     | 51 | -  | 117 | -        | -        | 2  | 2  |    |
| 18:00:00                           | -                        | 18:15:00 | 2       | - | 2               | 2 | -           | 1 | -              | -  | -                         | -  | -                   | -  | -            | -  | 1                      | -  | 4  | -  | -                     | -  | 42 | -   | 113      | 1        | -  | 2  | 1  |
| 18:15:00                           | -                        | 18:30:00 | 3       | - | 3               | - | -           | 1 | -              | -  | -                         | -  | -                   | -  | -            | -  | -                      | -  | -  | -  | -                     | 44 | -  | 119 | 1        | -        | 1  | 1  |    |
| 18:30:00                           | -                        | 18:45:00 | 5       | - | 3               | 1 | -           | 1 | -              | -  | -                         | -  | -                   | -  | -            | 1  | -                      | 3  | -  | -  | -                     | 56 | -  | 134 | 2        | -        | 1  | 1  |    |
| 18:45:00                           | -                        | 19:00:00 | 11      | - | 5               | 2 | -           | 2 | -              | -  | -                         | -  | -                   | -  | -            | -  | -                      | -  | -  | -  | -                     | 88 | -  | 143 | -        | -        | 1  | 1  |    |
| 19:00:00                           | -                        | 19:15:00 | 3       | - | 11              | - | -           | 6 | -              | -  | -                         | -  | -                   | -  | -            | -  | 3                      | -  | -  | -  | -                     | 98 | -  | 152 | 3        | -        | 1  | 1  |    |
| 19:15:00                           | -                        | 19:30:00 | 4       | - | 9               | 1 | -           | 5 | -              | -  | -                         | -  | -                   | -  | -            | 2  | -                      | 1  | -  | -  | -                     | 82 | -  | 153 | 1        | -        | 1  | 1  |    |
| 19:30:00                           | -                        | 19:45:00 | 2       | - | 7               | - | -           | 7 | -              | -  | -                         | -  | -                   | -  | -            | 1  | -                      | 2  | -  | -  | -                     | 85 | -  | 130 | 1        | -        | 1  | 1  |    |
| 19:45:00                           | -                        | 20:00:00 | -       | - | 11              | 2 | -           | 8 | -              | -  | -                         | -  | -                   | -  | -            | -  | 2                      | -  | -  | -  | -                     | 92 | -  | 146 | 2        | -        | 1  | 1  |    |
| 20:00:00                           | -                        | 20:15:00 | 2       | - | 8               | 2 | -           | 5 | -              | -  | -                         | -  | -                   | -  | -            | -  | -                      | 1  | -  | -  | -                     | 61 | -  | 115 | 3        | -        | 3  | 1  |    |
| 20:15:00                           | -                        | 20:30:00 | 2       | - | 12              | 2 | -           | 3 | -              | -  | -                         | -  | -                   | -  | -            | 1  | -                      | 2  | -  | -  | -                     | 90 | -  | 127 | 2        | -        | 1  | 1  |    |
| 20:30:00                           | -                        | 20:45:00 | -       | - | 6               | 1 | -           | 3 | -              | -  | -                         | -  | -                   | -  | -            | -  | 2                      | -  | -  | -  | -                     | 80 | -  | 104 | -        | -        | 1  | 1  |    |
| 20:45:00                           | -                        | 21:00:00 | 2       | - | 5               | - | -           | 1 | -              | -  | -                         | -  | -                   | -  | -            | -  | 1                      | -  | -  | -  | -                     | 73 | -  | 92  | 1        | -        | -  | 1  |    |

**SURVAI VOLUME LALU LINTAS PERGERAKAN MEMBELOK**

| WAKTU<br>SURVAI<br>( 15 menit-an ) | LIGHT VEHICLES<br>( LV ) |    |   |               |    |   |             |   |              |    |                           |    | HEAVY VEHICLES      |    |              |    |    |        |    |    |          |     | MOTORCYCLES<br>( MC ) |    |            |    | UNMOTORISED<br>( UM ) |    |     |   | CUACA |  |  |  |
|------------------------------------|--------------------------|----|---|---------------|----|---|-------------|---|--------------|----|---------------------------|----|---------------------|----|--------------|----|----|--------|----|----|----------|-----|-----------------------|----|------------|----|-----------------------|----|-----|---|-------|--|--|--|
|                                    | Mobil/Sedan<br>Carry/Van |    |   | Pick-Up<br>AU |    |   | Bus<br>Kota |   | Bus<br>Besar |    | Truk Sedang<br>Bus Sedang |    | Gandeng/<br>Trailer |    | Sepeda Motor |    |    | Sepeda |    |    | 1. Cerah |     | 2. Gerimis            |    | 3. Mendung |    | 4. Hujan              |    |     |   |       |  |  |  |
|                                    | ≤                        | ↑  | ⇒ | ≤             | ↑  | ⇒ | ≤           | ↑ | ⇒            | ≤  | ↑                         | ⇒  | ≤                   | ↑  | ⇒            | ≤  | ↑  | ⇒      | ≤  | ↑  | ⇒        | ≤   | ↑                     | ⇒  | 4. Hujan   |    |                       |    |     |   |       |  |  |  |
|                                    | 1                        | 2  | 3 | 4             | 5  | 6 | 7           | 8 | 9            | 10 | 11                        | 12 | 13                  | 14 | 15           | 16 | 17 | 18     | 19 | 20 | 21       | 22  | 23                    | 24 | 25         | 26 | 27                    | 28 | 29  |   |       |  |  |  |
| 6:00:00 - 6:15:00                  | 2                        | 5  | - | 2             | 1  | - | -           | - | -            | -  | -                         | -  | -                   | -  | -            | -  | -  | -      | -  | -  | -        | -   | -                     | -  | -          | -  | -                     | -  | 1   |   |       |  |  |  |
| 6:15:00 - 6:30:00                  | 4                        | 8  | - | 3             | 3  | - | -           | - | -            | -  | -                         | -  | -                   | -  | -            | 1  | 3  | -      | -  | 1  | -        | 72  | 97                    | -  | 2          | 4  | -                     | -  | 1   |   |       |  |  |  |
| 6:30:00 - 6:45:00                  | 6                        | 9  | - | 1             | 2  | - | -           | - | -            | -  | -                         | -  | -                   | 1  | -            | 3  | -  | -      | -  | -  | -        | 96  | 128                   | -  | 1          | 5  | -                     | -  | 1   |   |       |  |  |  |
| 6:45:00 - 7:00:00                  | 9                        | 13 | - | 3             | 3  | - | -           | - | -            | -  | -                         | -  | -                   | -  | 3            | 4  | -  | -      | -  | -  | -        | 119 | 157                   | 7  | 3          | -  | -                     | 1  |     |   |       |  |  |  |
| 7:00:00 - 7:15:00                  | 6                        | 14 | - | 2             | 2  | - | -           | - | -            | -  | -                         | -  | 1                   | -  | 4            | 7  | -  | -      | 1  | -  | 107      | 145 | -                     | 2  | 1          | -  | -                     | 1  |     |   |       |  |  |  |
| 7:15:00 - 7:30:00                  | 6                        | 16 | - | 1             | 4  | - | -           | - | -            | -  | -                         | -  | -                   | 1  | -            | 3  | 7  | -      | -  | 1  | -        | 114 | 142                   | -  | 4          | 5  | -                     | -  | 1   |   |       |  |  |  |
| 7:30:00 - 7:45:00                  | 6                        | 14 | - | 3             | 3  | - | -           | - | -            | -  | -                         | -  | -                   | -  | -            | -  | -  | -      | -  | -  | -        | 99  | 150                   | -  | -          | 4  | -                     | -  | 1   |   |       |  |  |  |
| 7:45:00 - 8:00:00                  | 8                        | 12 | - | 1             | 2  | - | -           | - | -            | -  | -                         | -  | -                   | 2  | -            | 1  | 6  | -      | -  | -  | -        | 100 | 157                   | -  | 3          | 1  | -                     | -  | 1   |   |       |  |  |  |
| 8:00:00 - 8:15:00                  | 7                        | 15 | - | 2             | 4  | - | -           | - | -            | -  | -                         | -  | -                   | 1  | -            | 1  | 2  | -      | -  | -  | -        | 106 | 164                   | -  | 5          | -  | -                     | -  | 1   |   |       |  |  |  |
| 8:15:00 - 8:30:00                  | 7                        | 16 | - | 4             | 1  | - | -           | - | -            | -  | -                         | -  | -                   | 1  | -            | 4  | 5  | -      | -  | -  | -        | 135 | 183                   | -  | -          | 3  | -                     | -  | 1   |   |       |  |  |  |
| 8:30:00 - 8:45:00                  | 5                        | 13 | - | 3             | 2  | - | -           | - | -            | -  | -                         | -  | -                   | 1  | -            | -  | -  | -      | -  | -  | -        | 106 | 174                   | -  | -          | 2  | -                     | -  | 1   |   |       |  |  |  |
| 8:45:00 - 9:00:00                  | 4                        | 12 | - | 2             | 3  | - | -           | - | -            | -  | -                         | -  | -                   | 2  | -            | -  | -  | -      | -  | -  | -        | 104 | 151                   | 3  | -          | -  | -                     | -  | 1   |   |       |  |  |  |
| 9:00:00 - 9:15:00                  | 6                        | 7  | - | 3             | 2  | - | -           | - | -            | -  | -                         | -  | -                   | 2  | -            | 2  | 3  | -      | -  | -  | -        | 92  | 153                   | -  | 2          | 2  | -                     | -  | 1   |   |       |  |  |  |
| 9:15:00 - 9:30:00                  | 4                        | 7  | - | 4             | 2  | - | -           | - | -            | -  | -                         | -  | -                   | 1  | -            | 3  | 4  | -      | -  | -  | -        | 90  | 139                   | -  | 3          | 3  | -                     | -  | 1   |   |       |  |  |  |
| 9:30:00 - 9:45:00                  | 4                        | 8  | - | 3             | 3  | - | -           | - | -            | -  | -                         | -  | -                   | 2  | 3            | -  | -  | 1      | -  | -  | -        | 94  | 145                   | 4  | 2          | -  | -                     | -  | 1   |   |       |  |  |  |
| 9:45:00 - 10:00:00                 | 3                        | 9  | - | 3             | 2  | - | -           | - | -            | -  | -                         | -  | -                   | 1  | -            | 3  | 1  | -      | -  | -  | -        | 95  | 157                   | -  | 3          | 1  | -                     | -  | 1   |   |       |  |  |  |
| 10:00:00 - 10:15:00                | 5                        | 9  | - | 2             | 1  | - | -           | - | -            | -  | -                         | -  | -                   | 2  | -            | 1  | 2  | -      | -  | 1  | -        | 76  | 116                   | -  | 2          | 2  | -                     | -  | 1   |   |       |  |  |  |
| 10:15:00 - 10:30:00                | 5                        | 8  | - | 3             | 1  | - | -           | - | -            | -  | -                         | -  | -                   | 1  | 2            | -  | -  | -      | -  | -  | -        | 69  | 106                   | -  | 2          | 2  | -                     | -  | 1   |   |       |  |  |  |
| 10:30:00 - 10:45:00                | 4                        | 11 | - | 4             | 2  | - | -           | - | -            | -  | -                         | -  | -                   | 2  | 3            | -  | -  | -      | -  | -  | -        | 94  | 100                   | -  | 2          | 3  | -                     | -  | 1   |   |       |  |  |  |
| 10:45:00 - 11:00:00                | 4                        | 11 | - | 3             | 3  | - | -           | - | -            | -  | -                         | -  | -                   | 2  | 1            | -  | -  | -      | -  | -  | -        | 106 | 99                    | -  | 1          | 2  | -                     | -  | 1   |   |       |  |  |  |
| 11:00:00 - 11:15:00                | 7                        | 19 | - | 4             | 2  | - | -           | - | -            | -  | -                         | -  | -                   | 4  | 4            | -  | -  | -      | -  | -  | -        | 139 | 152                   | -  | -          | 4  | -                     | -  | 1   |   |       |  |  |  |
| 11:15:00 - 11:30:00                | 12                       | 9  | - | 5             | 12 | - | -           | - | -            | -  | -                         | -  | -                   | 2  | -            | 6  | 4  | -      | -  | 1  | -        | 96  | 133                   | -  | -          | 3  | -                     | -  | 1   |   |       |  |  |  |
| 11:30:00 - 11:45:00                | 5                        | 17 | - | 2             | 3  | - | -           | - | -            | -  | -                         | -  | -                   | 3  | -            | 2  | 7  | -      | -  | 1  | -        | 132 | 111                   | -  | 2          | 2  | -                     | -  | 1   |   |       |  |  |  |
| 11:45:00 - 12:00:00                | 6                        | 9  | - | 3             | 4  | - | -           | - | -            | -  | -                         | -  | -                   | 1  | -            | 3  | 4  | -      | -  | 1  | -        | 99  | 131                   | -  | 4          | 3  | -                     | -  | 1   |   |       |  |  |  |
| 12:00:00 - 12:15:00                | 17                       | 15 | - | 3             | 1  | - | -           | - | -            | -  | -                         | -  | -                   | 2  | 3            | -  | -  | -      | -  | -  | -        | 97  | 126                   | -  | 1          | 1  | -                     | -  | 1   |   |       |  |  |  |
| 12:15:00 - 12:30:00                | 5                        | 8  | - | 3             | 1  | - | -           | - | -            | -  | -                         | -  | -                   | 1  | -            | 4  | 2  | -      | -  | -  | -        | 80  | 113                   | 1  | 2          | -  | -                     | -  | 1   |   |       |  |  |  |
| 12:30:00 - 12:45:00                | 7                        | 19 | - | 2             | 12 | - | -           | - | -            | -  | -                         | -  | -                   | 1  | -            | 2  | 2  | -      | -  | 1  | -        | 70  | 103                   | -  | 2          | 4  | -                     | -  | 1   |   |       |  |  |  |
| 12:45:00 - 13:00:00                | 14                       | 15 | - | 2             | 5  | - | -           | - | -            | -  | -                         | -  | -                   | 2  | -            | 2  | 4  | -      | -  | 3  | -        | 99  | 120                   | -  | 3          | 2  | -                     | -  | 1   |   |       |  |  |  |
| 13:00:00 - 13:15:00                | 9                        | 11 | - | 2             | 3  | - | -           | - | -            | -  | -                         | -  | -                   | 1  | -            | 1  | 2  | -      | -  | 1  | -        | 81  | 106                   | -  | 3          | 2  | -                     | -  | 1   |   |       |  |  |  |
| 13:15:00 - 13:30:00                | 8                        | 9  | - | 3             | 4  | - | -           | - | -            | -  | -                         | -  | -                   | 2  | -            | 2  | 2  | -      | -  | -  | -        | 83  | 104                   | -  | 3          | 1  | -                     | -  | 1   |   |       |  |  |  |
| 13:30:00 - 13:45:00                | 7                        | 9  | - | 3             | 3  | - | -           | - | -            | -  | -                         | -  | -                   | 1  | -            | 2  | 1  | -      | -  | 1  | -        | 85  | 99                    | -  | 4          | 2  | -                     | -  | 1   |   |       |  |  |  |
| 13:45:00 - 14:00:00                | 6                        | 8  | - | 2             | 3  | - | -           | - | -            | -  | -                         | -  | -                   | 3  | 1            | -  | -  | -      | -  | -  | -        | 73  | 104                   | -  | 5          | 2  | -                     | -  | 1   |   |       |  |  |  |
| 14:00:00 - 14:15:00                | 7                        | 7  | - | 2             | 3  | - | -           | - | -            | -  | -                         | -  | -                   | 1  | -            | 1  | 2  | -      | -  | -  | -        | 74  | 101                   | -  | 2          | 3  | -                     | -  | 1   |   |       |  |  |  |
| 14:15:00 - 14:30:00                | 8                        | 15 | - | -             | 2  | - | -           | - | -            | -  | -                         | -  | -                   | 3  | 4            | -  | -  | -      | -  | -  | -        | 69  | 117                   | 2  | 1          | -  | -                     | -  | 1   |   |       |  |  |  |
| 14:30:00 - 14:45:00                | 14                       | 21 | - | 3             | 8  | - | -           | - | -            | -  | -                         | -  | -                   | 1  | -            | 4  | 8  | -      | -  | 2  | -        | 92  | 135                   | -  | 2          | 7  | -                     | -  | 1   |   |       |  |  |  |
| 14:45:00 - 15:00:00                | 9                        | 13 | - | 2             | 3  | - | -           | - | -            | -  | -                         | -  | -                   | 1  | -            | 3  | 3  | -      | -  | -  | -        | 63  | 118                   | -  | -          | 2  | -                     | -  | 3   |   |       |  |  |  |
| 15:00:00 - 15:15:00                | 14                       | 25 | - | 5             | 3  | - | -           | - | -            | -  | -                         | -  | -                   | 1  | -            | 4  | 5  | -      | -  | -  | -        | 76  | 103                   | -  | 3          | -  | -                     | -  | 3   |   |       |  |  |  |
| 15:15:00 - 15:30:00                | 11                       | 20 | - | 4             | 7  | - | -           | - | -            | -  | -                         | -  | -                   | 1  | -            | 3  | 3  | -      | -  | 2  | -        | 115 | 116                   | -  | 5          | 1  | -                     | -  | 2   |   |       |  |  |  |
| 15:30:00 - 15:45:00                | 18                       | 20 | - | 4             | 8  | - | -           | - | -            | -  | -                         | -  | -                   | 2  | -            | 2  | 3  | -      | -  | 1  | -        | 99  | 111                   | -  | 3          | 1  | -                     | -  | 3   |   |       |  |  |  |
| 15:45:00 - 16:00:00                | 17                       | 24 | - | 4             | 6  | - | -           | - | -            | -  | -                         | -  | -                   | 1  | -            | 4  | 2  | -      | -  | 1  | -        | 89  | 107                   | -  | 1          | 1  | -                     | -  | 1   |   |       |  |  |  |
| 16:00:00 - 16:15:00                | 9                        | 24 | - | 7             | 4  | - | -           | - | -            | -  | -                         | -  | -                   | 1  | -            | 4  | 4  | -      | -  | -  | -        | 77  | 127                   | -  | 3          | 1  | -                     | -  | 1   |   |       |  |  |  |
| 16:15:00 - 16:30:00                | 5                        | 12 | - | 4             | 3  | - | -           | - | -            | -  | -                         | -  | -                   | 1  | -            | 4  | 1  | -      | -  | -  | -        | 78  | 112                   | -  | 1          | 1  | -                     | -  | 1   |   |       |  |  |  |
| 16:30:00 - 16:45:00                | 6                        | 11 | - | 3             | 3  | - | -           | - | -            | -  | -                         | -  | -                   | 3  | 2            | -  | -  | 1      | -  | 72 | 117      | -   | -                     | -  | -          | -  | -                     | 1  |     |   |       |  |  |  |
| 16:45:00 - 17:00:00                | 6                        | 8  | - | 4             | 3  | - | -           | - | -            | -  | -                         | -  | -                   | 2  | 1            | -  | 1  | -      | -  | -  | -        | 62  | 100                   | -  | -          | -  | -                     | -  | -   | 1 |       |  |  |  |
| 17:00:00 - 17:15:00                | 5                        | 7  | - | 1             | 3  | - | -           | - | -            | -  | -                         | -  | -                   | 1  | -            | 2  | 1  | -      | -  | -  | -        | 71  | 103                   | 2  | 1          | -  | -                     | -  | 1   |   |       |  |  |  |
| 17:15:00 - 17:30:00                | 7                        | 9  | - | 3             | 1  | - | -           | - | -            | -  | -                         | -  | -                   | 2  | 1            | -  | 1  | -      | 1  | -  | -        | 92  | 97                    | -  | 1          | 1  | -                     | -  | 1   |   |       |  |  |  |
| 17:30:00 - 17:45:00                | 6                        | 11 | - | 1             | 2  | - | -           | - | -            | -  | -                         | -  | -                   | 1  | -            | 1  | 2  | -      | -  | -  | -        | 92  | 96                    | -  | 2          | 1  | -                     | -  | 1   |   |       |  |  |  |
| 17:45:00 - 18:00:00                | 5                        | 9  | - | 2             | 3  | - | -           | - | -            | -  | -                         | -  | -                   | 2  | -            | 1  | 1  | -      | 1  | -  | -        | 73  | 94                    | -  | 1          | 2  | -                     | -  | 2   |   |       |  |  |  |
| 18:00:00 - 18:15:00                | 7                        | 8  | - | 2             | 2  | - | -           | - | -            | -  | -                         | -  | -                   | 1  | -            | 1  | 1  | -      | -  | -  | -        | 93  | 74                    | -  | 2          | 2  | -                     | -  | 1   |   |       |  |  |  |
| 18:15:00 - 18:30:00                | 5                        | 8  | - | 3             | 4  | - | -           | - | -            | -  | -                         | -  | -                   | 2  | 1            | -  | 1  | -      | 1  | -  | -        | 84  | 104                   | -  | 1          | 1  | -                     | -  | 1   |   |       |  |  |  |
| 18:30:00 - 18:45:00                | 6                        | 12 | - | 2             | -  | - | -           | - | -            | -  | -                         | -  | -                   | 1  | -            | 2  | 3  | -      | -  | -  | -        | 92  | 133                   | -  | 1          | -  | -                     | -  | 1</ |   |       |  |  |  |

**SURVAI VOLUME LALU LINTAS PERGERAKAN MEMBELOK**

| WAKTU<br>SURVAI<br>( 15 menit-an ) | LIGHT VEHICLES<br>( LV ) |    |   |         |    |   |                 |   |   |             |    |    | HEAVY VEHICLES |    |    |                           |    |    |                     |    |     |              |    |    | MOTORCYCLES<br>( MC ) |    |    | UNMOTORISED<br>( UM ) |    |   | CUACA |  |  |
|------------------------------------|--------------------------|----|---|---------|----|---|-----------------|---|---|-------------|----|----|----------------|----|----|---------------------------|----|----|---------------------|----|-----|--------------|----|----|-----------------------|----|----|-----------------------|----|---|-------|--|--|
|                                    | Mobil/Sedan<br>Carry/Van |    |   | Pick-Up |    |   | Microlet/<br>AU |   |   | Bus<br>Kota |    |    | Bus<br>Besar   |    |    | Truk Sedang<br>Bus Sedang |    |    | Gandeng/<br>Trailer |    |     | Sepeda Motor |    |    | Sepeda                |    |    | 1. Cerah              |    |   |       |  |  |
|                                    | =                        | ↑  | = | =       | ↑  | = | =               | ↑ | = | =           | ↑  | =  | =              | ↑  | =  | =                         | ↑  | =  | =                   | ↑  | =   | =            | ↑  | =  | =                     | ↑  | =  | =                     | ↑  | = |       |  |  |
|                                    | 1                        | 2  | 3 | 4       | 5  | 6 | 7               | 8 | 9 | 10          | 11 | 12 | 13             | 14 | 15 | 16                        | 17 | 18 | 19                  | 20 | 21  | 22           | 23 | 24 | 25                    | 26 | 27 | 28                    | 29 |   |       |  |  |
| 6:00:00 - 6:15:00                  | 2                        | 24 | - | -       | 3  | - | 2               | - | - | -           | -  | -  | -              | -  | 1  | 3                         | -  | -  | 1                   | -  | 92  | 132          | -  | 3  | 4                     | -  | -  | 1                     |    |   |       |  |  |
| 6:15:00 - 6:30:00                  | 4                        | 26 | - | 1       | 1  | - | 1               | 2 | - | -           | -  | -  | -              | -  | 1  | 3                         | -  | -  | -                   | -  | 130 | 154          | -  | 7  | 5                     | -  | -  | 1                     |    |   |       |  |  |
| 6:30:00 - 6:45:00                  | 3                        | 31 | - | 1       | 4  | - | 3               | - | - | -           | -  | -  | -              | -  | 2  | 7                         | -  | -  | -                   | -  | 149 | 15           | -  | 8  | 5                     | -  | -  | 1                     |    |   |       |  |  |
| 6:45:00 - 7:00:00                  | 5                        | 27 | - | 2       | 2  | - | 2               | - | - | -           | -  | -  | -              | -  | 2  | 9                         | -  | -  | 2                   | -  | 141 | 161          | -  | 12 | 6                     | -  | -  | 1                     |    |   |       |  |  |
| 7:00:00 - 7:15:00                  | 3                        | 33 | - | 4       | 6  | - | 1               | 3 | - | -           | -  | -  | -              | -  | 3  | 8                         | -  | -  | 1                   | -  | 118 | 171          | -  | 9  | 7                     | -  | -  | 1                     |    |   |       |  |  |
| 7:15:00 - 7:30:00                  | 6                        | 30 | - | 2       | 3  | - | 2               | - | - | -           | -  | -  | -              | -  | 2  | 12                        | -  | 1  | -                   | -  | 121 | 165          | -  | 6  | 3                     | -  | -  | 1                     |    |   |       |  |  |
| 7:30:00 - 7:45:00                  | 5                        | 26 | - | 1       | 5  | - | 3               | - | - | -           | -  | -  | -              | -  | 4  | 6                         | -  | -  | 1                   | -  | 103 | 149          | -  | 4  | 4                     | -  | -  | 1                     |    |   |       |  |  |
| 7:45:00 - 8:00:00                  | 4                        | 23 | - | 2       | 8  | - | 3               | - | - | -           | -  | -  | -              | -  | 1  | 5                         | -  | -  | -                   | -  | 107 | 143          | -  | 5  | 3                     | -  | -  | 1                     |    |   |       |  |  |
| 8:00:00 - 8:15:00                  | 2                        | 19 | - | 3       | 11 | - | 2               | 2 | - | -           | -  | -  | -              | -  | 1  | 4                         | -  | -  | -                   | -  | 101 | 156          | -  | 15 | 4                     | -  | -  | 1                     |    |   |       |  |  |
| 8:15:00 - 8:30:00                  | 4                        | 13 | - | 3       | 6  | - | 2               | - | - | -           | -  | -  | -              | -  | 3  | 13                        | -  | -  | 1                   | -  | 141 | 138          | -  | 9  | 6                     | -  | -  | 1                     |    |   |       |  |  |
| 8:30:00 - 8:45:00                  | 2                        | 14 | - | -       | 6  | - | 5               | - | - | -           | -  | -  | -              | -  | 6  | 6                         | -  | -  | -                   | -  | 120 | 153          | -  | 8  | 3                     | -  | -  | 1                     |    |   |       |  |  |
| 8:45:00 - 9:00:00                  | 6                        | 14 | - | 2       | 6  | - | 1               | 4 | - | -           | -  | -  | -              | -  | 1  | 6                         | -  | -  | -                   | -  | 142 | 134          | -  | 8  | 1                     | -  | -  | 1                     |    |   |       |  |  |
| 9:00:00 - 9:15:00                  | 6                        | 15 | - | 1       | 4  | - | 2               | - | - | -           | -  | -  | -              | -  | 2  | 6                         | -  | -  | 1                   | -  | 131 | 142          | -  | 5  | 4                     | -  | -  | 1                     |    |   |       |  |  |
| 9:15:00 - 9:30:00                  | 8                        | 17 | - | -       | 4  | - | 1               | - | - | -           | -  | -  | -              | -  | 2  | 8                         | -  | 1  | -                   | -  | 134 | 139          | -  | 5  | 1                     | -  | -  | 1                     |    |   |       |  |  |
| 9:30:00 - 9:45:00                  | 7                        | 16 | - | 1       | 3  | - | 3               | - | - | -           | -  | -  | -              | -  | 1  | 4                         | -  | -  | -                   | -  | 122 | 128          | -  | 3  | 4                     | -  | -  | 1                     |    |   |       |  |  |
| 9:45:00 - 10:00:00                 | 4                        | 18 | - | -       | 1  | - | 1               | - | - | -           | -  | -  | -              | -  | 1  | 5                         | -  | -  | 1                   | -  | 115 | 123          | -  | 6  | 2                     | -  | -  | 1                     |    |   |       |  |  |
| 10:00:00 - 10:15:00                | 2                        | 15 | - | 1       | 5  | - | 2               | - | - | -           | -  | -  | -              | -  | 1  | 6                         | -  | -  | -                   | -  | 106 | 124          | -  | 4  | 5                     | -  | -  | 1                     |    |   |       |  |  |
| 10:15:00 - 10:30:00                | 5                        | 13 | - | 1       | 4  | - | 1               | - | - | -           | -  | -  | -              | -  | 2  | 6                         | -  | -  | -                   | -  | 101 | 117          | -  | 4  | 3                     | -  | -  | 1                     |    |   |       |  |  |
| 10:30:00 - 10:45:00                | 6                        | 11 | - | 2       | 2  | - | 2               | - | - | -           | -  | -  | -              | -  | 3  | 7                         | -  | 1  | -                   | -  | 97  | 122          | -  | 6  | 4                     | -  | -  | 1                     |    |   |       |  |  |
| 10:45:00 - 11:00:00                | 8                        | 17 | - | 2       | 3  | - | 2               | - | - | -           | -  | -  | -              | -  | 3  | 9                         | -  | -  | -                   | -  | 93  | 146          | -  | 5  | 3                     | -  | -  | 1                     |    |   |       |  |  |
| 11:00:00 - 11:15:00                | 7                        | 17 | - | 1       | 3  | - | 2               | - | - | -           | -  | -  | -              | -  | 1  | 15                        | -  | -  | -                   | -  | 104 | 130          | -  | 6  | 2                     | -  | -  | 1                     |    |   |       |  |  |
| 11:15:00 - 11:30:00                | 5                        | 21 | - | 1       | 16 | - | 1               | - | - | -           | -  | -  | -              | -  | 1  | 12                        | -  | -  | -                   | -  | 110 | 152          | -  | 2  | 3                     | -  | -  | 1                     |    |   |       |  |  |
| 11:30:00 - 11:45:00                | 6                        | 22 | - | 4       | 14 | - | 3               | - | - | -           | -  | -  | -              | -  | 4  | 9                         | -  | -  | -                   | -  | 117 | 101          | -  | 5  | 6                     | -  | -  | 1                     |    |   |       |  |  |
| 11:45:00 - 12:00:00                | 8                        | 18 | - | 9       | 9  | - | 3               | - | - | -           | -  | -  | -              | -  | 4  | 15                        | -  | 1  | -                   | -  | 98  | 103          | -  | 8  | 3                     | -  | -  | 1                     |    |   |       |  |  |
| 12:00:00 - 12:15:00                | 9                        | 16 | - | 2       | 8  | - | 4               | - | - | -           | -  | -  | -              | -  | 1  | 11                        | -  | -  | -                   | -  | 91  | 106          | -  | 4  | 5                     | -  | -  | 1                     |    |   |       |  |  |
| 12:15:00 - 12:30:00                | 7                        | 25 | - | 3       | 5  | - | 2               | - | - | -           | -  | -  | -              | -  | 1  | 7                         | -  | 1  | -                   | -  | 97  | 116          | -  | 2  | 6                     | -  | -  | 1                     |    |   |       |  |  |
| 12:30:00 - 12:45:00                | 6                        | 25 | - | 1       | 4  | - | 2               | - | - | -           | -  | -  | -              | -  | 2  | 5                         | -  | -  | -                   | -  | 100 | 112          | -  | 3  | 4                     | -  | -  | 1                     |    |   |       |  |  |
| 12:45:00 - 13:00:00                | 4                        | 18 | - | 1       | 4  | - | 2               | 3 | - | -           | -  | -  | -              | -  | 4  | 4                         | -  | -  | -                   | -  | 89  | 113          | -  | 9  | 3                     | -  | -  | 1                     |    |   |       |  |  |
| 13:00:00 - 13:15:00                | 3                        | 15 | - | 1       | 3  | - | 2               | - | - | -           | -  | -  | -              | -  | 1  | 3                         | -  | -  | 1                   | -  | 91  | 110          | -  | 6  | 4                     | -  | -  | 1                     |    |   |       |  |  |
| 13:15:00 - 13:30:00                | 5                        | 13 | - | 2       | 4  | - | 2               | - | - | -           | -  | -  | -              | -  | 1  | 3                         | -  | -  | -                   | -  | 94  | 118          | -  | 4  | 3                     | -  | -  | 1                     |    |   |       |  |  |
| 13:30:00 - 13:45:00                | 4                        | 9  | - | 2       | 3  | - | 1               | - | - | -           | -  | -  | -              | -  | 3  | 5                         | -  | -  | -                   | -  | 82  | 123          | -  | 7  | 4                     | -  | -  | 1                     |    |   |       |  |  |
| 13:45:00 - 14:00:00                | 4                        | 16 | - | 1       | 2  | - | 1               | - | - | -           | -  | -  | -              | -  | 2  | 3                         | -  | -  | 1                   | -  | 76  | 119          | -  | 6  | 3                     | -  | -  | 1                     |    |   |       |  |  |
| 14:00:00 - 14:15:00                | 3                        | 18 | - | -       | 5  | - | 1               | - | - | -           | -  | -  | -              | -  | 1  | 4                         | -  | -  | -                   | -  | 88  | 128          | -  | 5  | 3                     | -  | -  | 1                     |    |   |       |  |  |
| 14:15:00 - 14:30:00                | 5                        | 11 | - | 1       | 4  | - | 3               | - | - | -           | -  | -  | -              | -  | 1  | 2                         | -  | -  | 1                   | -  | 94  | 115          | -  | 3  | 3                     | -  | -  | 1                     |    |   |       |  |  |
| 14:30:00 - 14:45:00                | 4                        | 8  | - | 1       | 1  | - | 2               | - | - | -           | -  | -  | -              | -  | 2  | 6                         | -  | -  | -                   | -  | 101 | 122          | -  | 7  | 1                     | -  | -  | 1                     |    |   |       |  |  |
| 14:45:00 - 15:00:00                | 3                        | 12 | - | -       | 2  | - | 1               | - | - | -           | -  | -  | -              | -  | 1  | 4                         | -  | -  | -                   | -  | 90  | 127          | -  | 6  | 1                     | -  | 3  | -                     | 1  |   |       |  |  |
| 15:00:00 - 15:15:00                | 1                        | 14 | - | -       | 3  | - | 3               | - | - | -           | -  | -  | -              | -  | 3  | 3                         | -  | -  | -                   | -  | 88  | 124          | -  | 4  | 2                     | -  | -  | 3                     | -  | 1 |       |  |  |
| 15:15:00 - 15:30:00                | 2                        | 15 | - | -       | 5  | - | 1               | - | - | -           | -  | -  | -              | -  | 3  | 4                         | -  | -  | -                   | -  | 96  | 130          | -  | 7  | 3                     | -  | -  | 2                     | -  | 1 |       |  |  |
| 15:30:00 - 15:45:00                | 4                        | 19 | - | 5       | 11 | - | 2               | - | - | -           | -  | -  | -              | -  | 2  | 4                         | -  | -  | -                   | -  | 101 | 136          | -  | 7  | 6                     | -  | 3  | -                     | 1  |   |       |  |  |
| 15:45:00 - 16:00:00                | 7                        | 17 | - | 3       | 6  | - | 1               | - | - | -           | -  | -  | -              | -  | 4  | 3                         | -  | -  | 1                   | -  | 99  | 115          | -  | 4  | 2                     | -  | -  | 1                     |    |   |       |  |  |
| 16:00:00 - 16:15:00                | 8                        | 18 | - | 1       | 8  | - | 1               | 2 | - | -           | -  | -  | -              | -  | 4  | 5                         | -  | -  | -                   | -  | 103 | 178          | -  | 7  | 6                     | -  | -  | 1                     |    |   |       |  |  |
| 16:15:00 - 16:30:00                | 9                        | 23 | - | 1       | 9  | - | 3               | - | - | -           | -  | -  | -              | -  | 2  | 1                         | -  | -  | -                   | -  | 117 | 155          | -  | 14 | 4                     | -  | -  | 1                     |    |   |       |  |  |
| 16:30:00 - 16:45:00                | 4                        | 21 | - | 3       | 1  | - | 2               | - | - | -           | -  | -  | -              | -  | 2  | 6                         | -  | 1  | -                   | -  | 99  | 118          | -  | 12 | 2                     | -  | -  | 1                     |    |   |       |  |  |
| 16:45:00 - 17:00:00                | 3                        | 15 | - | 2       | 1  | - | 2               | - | - | -           | -  | -  | -              | -  | 2  | 2                         | -  | -  | -                   | -  | 91  | 130          | -  | 3  | 4                     | -  | -  | 1                     |    |   |       |  |  |
| 17:00:00 - 17:15:00                | 2                        | 19 | - | -       | 2  | - | 1               | - | - | -           | -  | -  | -              | -  | 1  | 3                         | -  | -  | -                   | -  | 87  | 126          | -  | 4  | 2                     | -  | -  | 1                     |    |   |       |  |  |
| 17:15:00 - 17:30:00                | 2                        | 17 | - | 1       | 3  | - | 1               | - | - | -           | -  | -  | -              | -  | 2  | 3                         | -  | -  | -                   | -  | 94  | 111          | -  | 3  | 4                     | -  | -  | 1                     |    |   |       |  |  |
| 17:30:00 - 17:45:00                | 5                        | 13 | - | -       | 2  | - | 1               | - | - | -           | -  | -  | -              | -  | 1  | 4                         | -  | -  | -                   | -  | 98  | 120          | -  | 5  | 3                     | -  | -  | 1                     |    |   |       |  |  |
| 17:45:00 - 18:00:00                | 2                        | 20 | - | -       | 1  | - | 1               | - | - | -           | -  | -  | -              | -  | 2  | 4                         | -  | -  | 1                   | -  | 103 | 113          | -  | 3  | 1                     | -  | 2  | -                     | 1  |   |       |  |  |
| 18:00:00 - 18:15:00                | 4                        | 9  | - | 2       | 2  | - | 1               | - | - | -           | -  | -  | -              | -  | 2  | 4                         | -  | -  | -                   | -  | 136 | 115          | -  | 6  | 1                     | -  | 1  | -                     | 1  |   |       |  |  |
| 18:15:00 - 18:30:00                | 3                        | 17 | - | 1       | 4  | - | 1               | - | - | -           | -  | -  | -              | -  | 2  | 3                         | -  | -  | 1                   | -  | 160 | 121          | -  | 4  | 3                     | -  | -  | 1                     |    |   |       |  |  |
| 18:30:00 - 18:45:00                | 7                        | 13 | - | 3       | 2  | - | 1               | - | - | -           | -  | -  | -              | -  | 1  | 1                         | -  | 1  | -                   | -  | 148 | 131          | -  | 5  | 1                     | -  | -  | 1                     |    |   |       |  |  |
| 18:45:00 - 19:00:00                | 5                        | 13 | - | -       | 2  | - | 1               | - | - | -           | -  | -  | -              | -  | 4  |                           |    |    |                     |    |     |              |    |    |                       |    |    |                       |    |   |       |  |  |

**SURVAI VOLUME LALU LINTAS PERGERAKAN MEMBELOK**

| WAKTU<br>SURVA<br>( 15 menit-an ) | LIGHT VEHICLES<br>( LV ) |          |    |         |    |   |                 |   |   |             |    |    |              |    |    | HEAVY VEHICLES            |    |    |                     |    |    |              |     |    |        | MOTORCYCLES<br>( MC ) |    |          | UNMOTORISED<br>( UM ) |   |   | CUACA |  |  |
|-----------------------------------|--------------------------|----------|----|---------|----|---|-----------------|---|---|-------------|----|----|--------------|----|----|---------------------------|----|----|---------------------|----|----|--------------|-----|----|--------|-----------------------|----|----------|-----------------------|---|---|-------|--|--|
|                                   | Mobil/Sedan<br>Carry/Van |          |    | Pick-Up |    |   | Microlet/<br>AU |   |   | Bus<br>Kota |    |    | Bus<br>Besar |    |    | Truk Sedang<br>Bus Sedang |    |    | Gandeng/<br>Trailer |    |    | Sepeda Motor |     |    | Sepeda |                       |    | 1. Cerah |                       |   |   |       |  |  |
|                                   | =                        | ↑        | =  | =       | ↑  | = | =               | ↑ | = | =           | ↑  | =  | =            | ↑  | =  | =                         | ↑  | =  | =                   | ↑  | =  | =            | ↑   | =  | =      | ↑                     | =  | =        | ↑                     | = | = |       |  |  |
|                                   | 1                        | 2        | 3  | 4       | 5  | 6 | 7               | 8 | 9 | 10          | 11 | 12 | 13           | 14 | 15 | 16                        | 17 | 18 | 19                  | 20 | 21 | 22           | 23  | 24 | 25     | 26                    | 27 | 28       | 29                    |   |   |       |  |  |
| 6:00:00                           | -                        | 6:15:00  | 3  | -       | 2  | 1 | -               | 2 | - | -           | -  | -  | -            | -  | -  | 2                         | -  | 1  | 1                   | -  | 44 | -            | 102 | 2  | -      | 5                     | 1  |          |                       |   |   |       |  |  |
| 6:15:00                           | -                        | 6:30:00  | 3  | -       | 4  | 4 | -               | 2 | - | 1           | -  | -  | -            | -  | -  | 3                         | -  | 2  | -                   | -  | 65 | -            | 153 | 2  | -      | 5                     | 1  |          |                       |   |   |       |  |  |
| 6:30:00                           | -                        | 6:45:00  | 4  | -       | 5  | 5 | -               | 3 | 1 | -           | -  | -  | -            | -  | -  | 4                         | -  | 2  | -                   | -  | 92 | -            | 165 | 4  | -      | 8                     | 1  |          |                       |   |   |       |  |  |
| 6:45:00                           | -                        | 7:00:00  | 4  | 7       | 2  | - | 2               | - | - | -           | -  | -  | -            | -  | -  | 2                         | -  | 3  | -                   | -  | 76 | -            | 156 | 3  | -      | 6                     | 1  |          |                       |   |   |       |  |  |
| 7:00:00                           | -                        | 7:15:00  | 6  | -       | 3  | 5 | -               | 4 | - | 1           | -  | -  | -            | -  | -  | 1                         | -  | 1  | -                   | 1  | 79 | -            | 141 | 5  | -      | 5                     | 1  |          |                       |   |   |       |  |  |
| 7:15:00                           | -                        | 7:30:00  | 5  | -       | 4  | 4 | -               | 2 | - | -           | -  | -  | -            | -  | -  | 2                         | -  | 2  | -                   | -  | 72 | -            | 136 | 2  | -      | 7                     | 1  |          |                       |   |   |       |  |  |
| 7:30:00                           | -                        | 7:45:00  | 8  | -       | 2  | 2 | -               | 1 | - | -           | -  | -  | -            | -  | -  | 1                         | -  | 1  | -                   | -  | 58 | -            | 131 | 1  | -      | 6                     | 1  |          |                       |   |   |       |  |  |
| 7:45:00                           | -                        | 8:00:00  | 4  | -       | 2  | 1 | -               | 1 | - | -           | -  | -  | -            | -  | -  | 2                         | -  | 1  | -                   | -  | 51 | -            | 126 | 2  | -      | 4                     | 1  |          |                       |   |   |       |  |  |
| 8:00:00                           | -                        | 8:15:00  | 9  | -       | 1  | 1 | -               | 4 | 1 | -           | -  | -  | -            | -  | -  | 1                         | -  | 1  | 1                   | -  | 49 | -            | 122 | 1  | -      | 5                     | 1  |          |                       |   |   |       |  |  |
| 8:15:00                           | -                        | 8:30:00  | 13 | -       | 5  | 1 | -               | 1 | - | -           | -  | -  | -            | -  | -  | 1                         | -  | 1  | -                   | 1  | 39 | -            | 123 | 5  | -      | 8                     | 1  |          |                       |   |   |       |  |  |
| 8:30:00                           | -                        | 8:45:00  | 8  | -       | 1  | 2 | -               | 3 | - | 1           | -  | -  | -            | -  | -  | 3                         | -  | 2  | -                   | 1  | 51 | -            | 113 | 7  | -      | 4                     | 1  |          |                       |   |   |       |  |  |
| 8:45:00                           | -                        | 9:00:00  | 3  | -       | 7  | 3 | -               | 2 | - | 2           | -  | -  | -            | -  | -  | 2                         | -  | 2  | -                   | -  | 57 | -            | 120 | 5  | -      | 8                     | 1  |          |                       |   |   |       |  |  |
| 9:00:00                           | -                        | 9:15:00  | 3  | -       | 4  | 3 | -               | 3 | - | 1           | -  | -  | -            | -  | -  | 1                         | -  | 1  | -                   | 1  | 43 | -            | 114 | 3  | -      | 5                     | 1  |          |                       |   |   |       |  |  |
| 9:15:00                           | -                        | 9:30:00  | 4  | -       | 3  | 2 | -               | 2 | - | -           | -  | -  | -            | -  | -  | 2                         | -  | 2  | -                   | 1  | 36 | -            | 109 | 2  | -      | 4                     | 1  |          |                       |   |   |       |  |  |
| 9:30:00                           | -                        | 9:45:00  | 3  | 4       | 4  | - | 3               | - | - | -           | -  | -  | -            | -  | -  | 1                         | -  | 2  | -                   | -  | 38 | -            | 101 | 1  | -      | 6                     | 1  |          |                       |   |   |       |  |  |
| 9:45:00                           | -                        | 10:00:00 | 3  | -       | 3  | 2 | -               | 1 | - | 1           | -  | -  | -            | -  | -  | 1                         | -  | 2  | -                   | 1  | 31 | -            | 96  | 3  | -      | 3                     | 1  |          |                       |   |   |       |  |  |
| 10:00:00                          | -                        | 10:15:00 | 4  | -       | 2  | 1 | -               | 2 | 1 | -           | -  | -  | -            | -  | -  | 2                         | -  | 3  | -                   | -  | 34 | -            | 93  | 2  | -      | 2                     | 1  |          |                       |   |   |       |  |  |
| 10:15:00                          | -                        | 10:30:00 | 5  | -       | 3  | 2 | -               | 2 | - | -           | -  | -  | -            | -  | -  | 1                         | -  | 1  | 1                   | -  | 28 | -            | 99  | 2  | -      | 2                     | 1  |          |                       |   |   |       |  |  |
| 10:30:00                          | -                        | 10:45:00 | 3  | -       | 2  | 4 | -               | 1 | - | -           | -  | -  | -            | -  | -  | 3                         | -  | 2  | -                   | -  | 36 | -            | 97  | 1  | -      | 1                     | 1  |          |                       |   |   |       |  |  |
| 10:45:00                          | -                        | 11:00:00 | 2  | -       | 1  | 2 | -               | 3 | - | -           | -  | -  | -            | -  | -  | 2                         | -  | 2  | -                   | -  | 23 | -            | 109 | 2  | -      | 1                     | 1  |          |                       |   |   |       |  |  |
| 11:00:00                          | -                        | 11:15:00 | 3  | -       | 3  | 2 | -               | 3 | - | 2           | -  | -  | -            | -  | -  | 2                         | -  | 3  | -                   | -  | 26 | -            | 122 | 1  | -      | 2                     | 1  |          |                       |   |   |       |  |  |
| 11:15:00                          | -                        | 11:30:00 | 2  | -       | 3  | 7 | -               | 7 | - | -           | -  | -  | -            | -  | -  | 2                         | -  | 2  | -                   | -  | 40 | -            | 85  | 1  | -      | 2                     | 1  |          |                       |   |   |       |  |  |
| 11:30:00                          | -                        | 11:45:00 | 9  | -       | 3  | 4 | -               | 1 | - | -           | -  | -  | -            | -  | -  | 2                         | -  | 1  | -                   | -  | 37 | -            | 98  | 1  | -      | 2                     | 1  |          |                       |   |   |       |  |  |
| 11:45:00                          | -                        | 12:00:00 | 11 | -       | 7  | 4 | -               | 1 | 1 | -           | -  | -  | -            | -  | -  | 3                         | -  | 3  | -                   | -  | 32 | -            | 62  | 1  | -      | -                     | 1  |          |                       |   |   |       |  |  |
| 12:00:00                          | -                        | 12:15:00 | 3  | -       | 3  | 2 | -               | 2 | - | -           | -  | -  | -            | -  | -  | 4                         | -  | 3  | -                   | -  | 30 | -            | 77  | 4  | -      | 2                     | 1  |          |                       |   |   |       |  |  |
| 12:15:00                          | -                        | 12:30:00 | 7  | -       | 3  | 2 | -               | 5 | - | -           | -  | -  | -            | -  | -  | 3                         | -  | 1  | -                   | -  | 36 | -            | 103 | 6  | -      | 1                     | 1  |          |                       |   |   |       |  |  |
| 12:30:00                          | -                        | 12:45:00 | 7  | -       | 2  | 6 | -               | 2 | - | -           | -  | -  | -            | -  | -  | 4                         | -  | 2  | 1                   | -  | 33 | -            | 81  | 1  | -      | 1                     | 1  |          |                       |   |   |       |  |  |
| 12:45:00                          | -                        | 13:00:00 | 3  | -       | 4  | 3 | -               | 1 | - | -           | -  | -  | -            | -  | -  | 3                         | -  | 3  | -                   | -  | 27 | -            | 100 | 2  | -      | 3                     | 1  |          |                       |   |   |       |  |  |
| 13:00:00                          | -                        | 13:15:00 | 3  | -       | 4  | 2 | -               | 2 | - | -           | -  | -  | -            | -  | -  | 2                         | -  | 2  | -                   | -  | 24 | -            | 97  | 2  | -      | -                     | 1  |          |                       |   |   |       |  |  |
| 13:15:00                          | -                        | 13:30:00 | 5  | -       | 3  | 2 | -               | 3 | 1 | -           | -  | -  | -            | -  | -  | 2                         | -  | 2  | -                   | -  | 27 | -            | 102 | 2  | -      | 3                     | 1  |          |                       |   |   |       |  |  |
| 13:30:00                          | -                        | 13:45:00 | 7  | -       | 5  | 1 | -               | 1 | - | -           | -  | -  | -            | -  | -  | 3                         | -  | 1  | 1                   | -  | 31 | -            | 92  | 1  | -      | -                     | 1  |          |                       |   |   |       |  |  |
| 13:45:00                          | -                        | 14:00:00 | 3  | -       | 2  | 3 | -               | 2 | - | -           | -  | -  | -            | -  | -  | 1                         | -  | 1  | -                   | 1  | 33 | -            | 88  | 2  | -      | 1                     | 1  |          |                       |   |   |       |  |  |
| 14:00:00                          | -                        | 14:15:00 | 6  | -       | 2  | 2 | -               | 1 | - | -           | -  | -  | -            | -  | -  | 1                         | -  | 3  | -                   | -  | 39 | -            | 94  | 3  | -      | 1                     | 1  |          |                       |   |   |       |  |  |
| 14:15:00                          | -                        | 14:30:00 | 6  | -       | 3  | 2 | -               | 2 | - | -           | -  | -  | -            | -  | -  | 3                         | -  | 1  | 1                   | -  | 42 | -            | 97  | 1  | -      | 2                     | 1  |          |                       |   |   |       |  |  |
| 14:30:00                          | -                        | 14:45:00 | 5  | -       | 1  | 4 | -               | 3 | - | -           | -  | -  | -            | -  | -  | 2                         | -  | 1  | -                   | -  | 30 | -            | 100 | 2  | -      | -                     | 1  |          |                       |   |   |       |  |  |
| 14:45:00                          | -                        | 15:00:00 | 4  | -       | 2  | 1 | -               | 1 | - | -           | -  | -  | -            | -  | -  | 1                         | -  | 1  | -                   | -  | 26 | -            | 102 | 1  | -      | -                     | 3  |          |                       |   |   |       |  |  |
| 15:00:00                          | -                        | 15:15:00 | 6  | -       | 4  | 2 | -               | 2 | - | -           | -  | -  | -            | -  | -  | 3                         | -  | 2  | -                   | -  | 24 | -            | 96  | 2  | -      | -                     | 3  |          |                       |   |   |       |  |  |
| 15:15:00                          | -                        | 15:30:00 | 7  | -       | 3  | 3 | -               | 3 | - | -           | -  | -  | -            | -  | -  | 2                         | -  | 3  | -                   | -  | 33 | -            | 104 | 2  | -      | -                     | 2  |          |                       |   |   |       |  |  |
| 15:30:00                          | -                        | 15:45:00 | 8  | -       | 8  | 2 | -               | 3 | 4 | -           | -  | -  | -            | -  | -  | 3                         | -  | 5  | -                   | -  | 36 | -            | 115 | 2  | -      | 1                     | 3  |          |                       |   |   |       |  |  |
| 15:45:00                          | -                        | 16:00:00 | 11 | -       | 9  | 1 | -               | 3 | - | -           | -  | -  | -            | -  | -  | 1                         | -  | 2  | -                   | 1  | 51 | -            | 97  | 1  | -      | -                     | 1  |          |                       |   |   |       |  |  |
| 16:00:00                          | -                        | 16:15:00 | 9  | -       | 14 | 4 | -               | 2 | - | 1           | -  | -  | -            | -  | -  | 5                         | -  | 3  | -                   | -  | 27 | -            | 90  | 1  | -      | -                     | 1  |          |                       |   |   |       |  |  |
| 16:15:00                          | -                        | 16:30:00 | 7  | -       | 5  | 2 | -               | 1 | - | -           | -  | -  | -            | -  | -  | 1                         | -  | 1  | -                   | -  | 30 | -            | 95  | 3  | -      | 3                     | 1  |          |                       |   |   |       |  |  |
| 16:30:00                          | -                        | 16:45:00 | 7  | -       | 4  | 2 | -               | 1 | - | -           | -  | -  | -            | -  | -  | 3                         | -  | 2  | -                   | -  | 42 | -            | 98  | 2  | -      | 4                     | 1  |          |                       |   |   |       |  |  |
| 16:45:00                          | -                        | 17:00:00 | 1  | -       | 3  | 1 | -               | 2 | 1 | -           | -  | -  | -            | -  | -  | 1                         | -  | 1  | -                   | -  | 28 | -            | 96  | 1  | -      | 3                     | 1  |          |                       |   |   |       |  |  |
| 17:00:00                          | -                        | 17:15:00 | 2  | -       | 3  | 2 | -               | 1 | - | -           | -  | -  | -            | -  | -  | 2                         | -  | 2  | 1                   | -  | 24 | -            | 91  | 2  | -      | -                     | 1  |          |                       |   |   |       |  |  |
| 17:15:00                          | -                        | 17:30:00 | 3  | -       | 2  | 2 | -               | 2 | - | -           | -  | -  | -            | -  | -  | 2                         | -  | 2  | -                   | -  | 27 | -            | 89  | 2  | -      | 2                     | 1  |          |                       |   |   |       |  |  |
| 17:30:00                          | -                        | 17:45:00 | 2  | -       | 3  | 1 | -               | 1 | - | -           | -  | -  | -            | -  | -  | 1                         | -  | 1  | -                   | -  | 33 | -            | 94  | 1  | -      | 2                     | 1  |          |                       |   |   |       |  |  |
| 17:45:00                          | -                        | 18:00:00 | 1  | -       | 2  | 1 | -               | 1 | - | -           | -  | -  | -            | -  | -  | 1                         | -  | 1  | 1                   | -  | 22 | -            | 82  | 1  | -      | -                     | 2  |          |                       |   |   |       |  |  |
| 18:00:00                          | -                        | 18:15:00 | 4  | -       | 5  | 3 | -               | 2 | - | -           | -  | -  | -            | -  | -  | 3                         | -  | 3  | -                   | -  | 32 | -            | 165 | 2  | -      | 1                     | 1  |          |                       |   |   |       |  |  |
| 18:15:00                          | -                        | 18:30:00 | 2  | -       | 7  | 2 | -               | 3 | - | -           | -  | -  | -            | -  | -  | 2                         | -  | 1  | -                   | -  | 27 | -            | 177 | 1  | -      | -                     | 1  |          |                       |   |   |       |  |  |
| 18:30:00                          | -                        | 18:45:00 | 5  | -       | 6  | 1 | -               | 1 | 1 | -           | -  | -  | -            | -  | -  | 2                         | -  | 1  | 1                   | -  | 34 | -            | 185 | 1  | -      | 3                     | 1  |          |                       |   |   |       |  |  |
| 18:45:00                          | -                        | 19:00:00 |    |         |    |   |                 |   |   |             |    |    |              |    |    |                           |    |    |                     |    |    |              |     |    |        |                       |    |          |                       |   |   |       |  |  |

**SURVAI VOLUME LALU LINTAS PERGERAKAN MEMBELOK**

| WAKTU<br>SURVAI<br>( 15 menit-an ) | LIGHT VEHICLES<br>( LV ) |          |   |         |    |   |                 |   |   |             |    |              | HEAVY VEHICLES |                           |    |                     |    |              |    |        |    |          | MOTORCYCLES<br>( MC ) |            |    |            | UNMOTORISED<br>( UM ) |          |    |   | CUACA |   |  |  |
|------------------------------------|--------------------------|----------|---|---------|----|---|-----------------|---|---|-------------|----|--------------|----------------|---------------------------|----|---------------------|----|--------------|----|--------|----|----------|-----------------------|------------|----|------------|-----------------------|----------|----|---|-------|---|--|--|
|                                    | Mobil/Sedan<br>Carry/Van |          |   | Pick-Up |    |   | Microlet/<br>AU |   |   | Bus<br>Kota |    | Bus<br>Besar |                | Truk Sedang<br>Bus Sedang |    | Gandeng/<br>Trailer |    | Sepeda Motor |    | Sepeda |    | 1. Cerah |                       | 2. Gerimis |    | 3. Mendung |                       | 4. Hujan |    |   |       |   |  |  |
|                                    | ≤                        | ↑        | ≥ | ≤       | ↑  | ≥ | ≤               | ↑ | ≥ | ≤           | ↑  | ≥            | ≤              | ↑                         | ≥  | ≤                   | ↑  | ≥            | ≤  | ↑      | ≥  | ≤        | ↑                     | ≥          | ≤  | ↑          | ≥                     |          |    |   |       |   |  |  |
|                                    | 1                        | 2        | 3 | 4       | 5  | 6 | 7               | 8 | 9 | 10          | 11 | 12           | 13             | 14                        | 15 | 16                  | 17 | 18           | 19 | 20     | 21 | 22       | 23                    | 24         | 25 | 26         | 27                    | 28       | 29 |   |       |   |  |  |
| 6:00:00                            | -                        | 6:15:00  | - | -       | 17 | 2 | -               | 3 | - | 2           | -  | -            | -              | -                         | -  | 2                   | -  | 2            | -  | 80     | 22 | -        | 2                     | 2          | -  | 1          | -                     | -        | -  |   |       |   |  |  |
| 6:15:00                            | -                        | 6:30:00  | - | -       | 25 | 2 | -               | 2 | 1 | -           | 2  | 1            | -              | -                         | -  | -                   | 3  | 1            | -  | -      | -  | 103      | 24                    | -          | 4  | 2          | -                     | 1        | -  | - | -     |   |  |  |
| 6:30:00                            | -                        | 6:45:00  | - | -       | 33 | 3 | -               | 4 | 2 | -           | 3  | 1            | -              | -                         | -  | -                   | 4  | 2            | -  | -      | -  | 145      | 37                    | -          | 4  | 3          | -                     | 1        | -  | - | -     |   |  |  |
| 6:45:00                            | -                        | 7:00:00  | - | -       | 27 | 6 | -               | 6 | - | 3           | -  | -            | -              | -                         | -  | -                   | 6  | 2            | -  | 1      | -  | 152      | 44                    | -          | 3  | 2          | -                     | 1        | -  | - | -     |   |  |  |
| 7:00:00                            | -                        | 7:15:00  | - | -       | 23 | 7 | -               | 5 | 1 | -           | 2  | -            | -              | -                         | -  | -                   | 7  | 1            | -  | -      | -  | 139      | 39                    | -          | 1  | 1          | -                     | 1        | -  | - | -     |   |  |  |
| 7:15:00                            | -                        | 7:30:00  | - | -       | 20 | 3 | -               | 6 | - | 1           | -  | -            | -              | -                         | -  | -                   | 7  | 1            | -  | -      | -  | 135      | 36                    | -          | 2  | -          | -                     | 1        | -  | - | -     |   |  |  |
| 7:30:00                            | -                        | 7:45:00  | - | -       | 17 | 4 | -               | 3 | - | 2           | -  | -            | -              | -                         | -  | -                   | 2  | 2            | -  | -      | -  | 131      | 27                    | -          | 1  | 1          | -                     | 1        | -  | - | -     |   |  |  |
| 7:45:00                            | -                        | 8:00:00  | - | -       | 19 | 2 | -               | 1 | - | 1           | -  | -            | -              | -                         | -  | -                   | 3  | -            | -  | -      | -  | 121      | 23                    | -          | 2  | -          | -                     | 1        | -  | - | -     |   |  |  |
| 8:00:00                            | -                        | 8:15:00  | - | -       | 18 | 5 | -               | 2 | 3 | -           | 3  | -            | -              | -                         | -  | -                   | 2  | 2            | -  | 1      | -  | 114      | 19                    | -          | 2  | -          | -                     | 1        | -  | - | -     |   |  |  |
| 8:15:00                            | -                        | 8:30:00  | - | -       | 19 | 3 | -               | 1 | 1 | -           | 2  | 2            | -              | -                         | -  | -                   | 3  | 5            | -  | -      | -  | 97       | 18                    | -          | 4  | -          | -                     | 1        | -  | - | -     |   |  |  |
| 8:30:00                            | -                        | 8:45:00  | - | -       | 14 | 3 | -               | 6 | 1 | -           | 3  | -            | -              | -                         | -  | -                   | 5  | 2            | -  | 1      | -  | 128      | 15                    | -          | 1  | -          | -                     | 1        | -  | - | -     |   |  |  |
| 8:45:00                            | -                        | 9:00:00  | - | -       | 22 | 5 | -               | 3 | - | 1           | -  | -            | -              | -                         | -  | -                   | 6  | 3            | -  | -      | -  | 112      | 35                    | -          | 1  | -          | -                     | 1        | -  | - | -     |   |  |  |
| 9:00:00                            | -                        | 9:15:00  | - | -       | 21 | 2 | -               | 3 | - | 2           | -  | -            | -              | -                         | -  | -                   | 2  | 1            | -  | -      | -  | 102      | 31                    | -          | -  | -          | -                     | 1        | -  | - | -     |   |  |  |
| 9:15:00                            | -                        | 9:30:00  | - | -       | 20 | 4 | -               | 2 | 1 | -           | 2  | -            | -              | -                         | -  | -                   | 3  | 2            | -  | -      | -  | 97       | 27                    | -          | 1  | 1          | -                     | 1        | -  | - | -     |   |  |  |
| 9:30:00                            | -                        | 9:45:00  | - | -       | 24 | 3 | -               | 4 | - | 1           | -  | -            | -              | -                         | -  | -                   | 2  | 3            | -  | -      | -  | 91       | 22                    | -          | -  | -          | -                     | 1        | -  | - | -     |   |  |  |
| 9:45:00                            | -                        | 10:00:00 | - | -       | 27 | 3 | -               | 2 | 2 | -           | 2  | -            | -              | -                         | -  | -                   | 4  | 1            | -  | 2      | 1  | -        | 88                    | 26         | -  | 2          | 1                     | -        | 1  | - | -     | - |  |  |
| 10:00:00                           | -                        | 10:15:00 | - | -       | 22 | 2 | -               | 1 | 2 | -           | 3  | 1            | -              | -                         | -  | -                   | 5  | -            | -  | -      | -  | 93       | 28                    | -          | 1  | -          | -                     | 1        | -  | - | -     |   |  |  |
| 10:15:00                           | -                        | 10:30:00 | - | -       | 19 | 3 | -               | 3 | - | 1           | -  | -            | -              | -                         | -  | -                   | 4  | 1            | -  | 1      | -  | 85       | 33                    | -          | 1  | -          | -                     | 1        | -  | - | -     |   |  |  |
| 10:30:00                           | -                        | 10:45:00 | - | -       | 16 | 2 | -               | 2 | - | 2           | -  | -            | -              | -                         | -  | -                   | 3  | 2            | -  | -      | -  | 97       | 31                    | -          | 2  | -          | -                     | 1        | -  | - | -     |   |  |  |
| 10:45:00                           | -                        | 11:00:00 | - | -       | 20 | 2 | -               | 2 | - | 1           | -  | -            | -              | -                         | -  | -                   | 5  | 1            | -  | -      | -  | 100      | 30                    | -          | 3  | -          | -                     | 1        | -  | - | -     |   |  |  |
| 11:00:00                           | -                        | 11:15:00 | - | -       | 26 | 3 | -               | 3 | 2 | -           | 1  | -            | -              | -                         | -  | -                   | 8  | 3            | -  | -      | -  | 102      | 37                    | -          | 4  | -          | -                     | 1        | -  | - | -     |   |  |  |
| 11:15:00                           | -                        | 11:30:00 | - | -       | 15 | 6 | -               | 3 | - | 2           | -  | -            | -              | -                         | -  | -                   | 8  | -            | -  | -      | -  | 112      | 24                    | -          | 1  | 1          | -                     | 1        | -  | - | -     |   |  |  |
| 11:30:00                           | -                        | 11:45:00 | - | -       | 24 | 3 | -               | 7 | - | 1           | 1  | -            | -              | -                         | -  | -                   | 6  | 4            | -  | -      | -  | 109      | 34                    | -          | 1  | -          | -                     | 1        | -  | - | -     |   |  |  |
| 11:45:00                           | -                        | 12:00:00 | - | -       | 41 | 5 | -               | 2 | 1 | -           | 2  | -            | -              | -                         | -  | -                   | 8  | -            | 1  | -      | -  | 108      | 26                    | -          | 4  | -          | -                     | 1        | -  | - | -     |   |  |  |
| 12:00:00                           | -                        | 12:15:00 | - | -       | 27 | 4 | -               | 2 | - | 2           | -  | -            | -              | -                         | -  | -                   | 4  | -            | 3  | -      | -  | 88       | 21                    | -          | -  | -          | -                     | 1        | -  | - | -     |   |  |  |
| 12:15:00                           | -                        | 12:30:00 | - | -       | 13 | 8 | -               | 8 | - | 1           | -  | -            | -              | -                         | -  | -                   | 7  | -            | -  | -      | -  | 110      | 17                    | -          | 3  | -          | -                     | 1        | -  | - | -     |   |  |  |
| 12:30:00                           | -                        | 12:45:00 | - | -       | 28 | 2 | -               | 4 | 2 | -           | 2  | -            | -              | -                         | -  | -                   | 5  | 7            | -  | 1      | -  | 91       | 18                    | -          | 1  | -          | -                     | 1        | -  | - | -     |   |  |  |
| 12:45:00                           | -                        | 13:00:00 | - | -       | 66 | 6 | -               | 4 | - | 1           | -  | -            | -              | -                         | -  | -                   | 4  | 11           | -  | -      | -  | 114      | 16                    | -          | 3  | -          | -                     | 1        | -  | - | -     |   |  |  |
| 13:00:00                           | -                        | 13:15:00 | - | -       | 37 | 4 | -               | 3 | - | 2           | -  | -            | -              | -                         | -  | -                   | 6  | -            | -  | -      | -  | 119      | 15                    | -          | 3  | -          | -                     | 1        | -  | - | -     |   |  |  |
| 13:15:00                           | -                        | 13:30:00 | - | -       | 30 | 3 | -               | 4 | - | 1           | -  | -            | -              | -                         | -  | -                   | 2  | 1            | -  | 1      | -  | 123      | 19                    | -          | 2  | -          | -                     | 1        | -  | - | -     |   |  |  |
| 13:30:00                           | -                        | 13:45:00 | - | -       | 27 | 2 | -               | 2 | 2 | -           | 1  | -            | -              | -                         | -  | -                   | 3  | 3            | -  | -      | -  | 128      | 22                    | -          | 1  | -          | -                     | 1        | -  | - | -     |   |  |  |
| 13:45:00                           | -                        | 14:00:00 | - | -       | 33 | 4 | -               | 2 | 1 | -           | 1  | 1            | -              | -                         | -  | -                   | 1  | 3            | -  | 1      | -  | 133      | 26                    | -          | -  | 1          | -                     | -        | -  | - | -     | - |  |  |
| 14:00:00                           | -                        | 14:15:00 | - | -       | 25 | 4 | -               | 5 | - | 2           | -  | -            | -              | -                         | -  | -                   | 5  | 2            | -  | 1      | -  | 114      | 31                    | -          | 1  | -          | -                     | 1        | -  | - | -     |   |  |  |
| 14:15:00                           | -                        | 14:30:00 | - | -       | 18 | 3 | -               | 3 | 1 | 2           | -  | -            | -              | -                         | -  | -                   | 4  | -            | 1  | -      | -  | 120      | 33                    | -          | 2  | 1          | -                     | 1        | -  | - | -     |   |  |  |
| 14:30:00                           | -                        | 14:45:00 | - | -       | 20 | 2 | -               | 4 | 1 | -           | 1  | -            | -              | -                         | -  | -                   | 7  | 1            | -  | -      | -  | 124      | 37                    | -          | 2  | -          | -                     | 1        | -  | - | -     |   |  |  |
| 14:45:00                           | -                        | 15:00:00 | - | -       | 20 | 5 | -               | 2 | - | 2           | -  | -            | -              | -                         | -  | -                   | 5  | -            | 1  | -      | -  | 118      | 31                    | -          | -  | -          | -                     | 3        | -  | - | -     |   |  |  |
| 15:00:00                           | -                        | 15:15:00 | - | -       | 22 | 3 | -               | 2 | - | -           | -  | -            | -              | -                         | -  | -                   | 9  | -            | -  | -      | -  | 114      | 38                    | -          | -  | -          | -                     | 3        | -  | - | -     |   |  |  |
| 15:15:00                           | -                        | 15:30:00 | - | -       | 18 | 4 | -               | 3 | - | 1           | -  | -            | -              | -                         | -  | -                   | 7  | -            | 1  | -      | -  | 122      | 33                    | -          | -  | -          | -                     | 2        | -  | - | -     |   |  |  |
| 15:30:00                           | -                        | 15:45:00 | - | -       | 17 | 6 | -               | 4 | 2 | -           | 1  | -            | -              | -                         | -  | -                   | 18 | 3            | -  | -      | -  | 134      | 43                    | -          | 2  | -          | -                     | 3        | -  | - | -     |   |  |  |
| 15:45:00                           | -                        | 16:00:00 | - | -       | 15 | 2 | -               | 1 | 1 | -           | 1  | -            | -              | -                         | -  | -                   | 14 | 2            | -  | 1      | -  | 143      | 32                    | -          | 2  | 1          | -                     | 1        | -  | - | -     |   |  |  |
| 16:00:00                           | -                        | 16:15:00 | - | -       | 20 | 6 | -               | 5 | 4 | -           | 1  | -            | -              | -                         | -  | -                   | 4  | 1            | -  | 1      | -  | 120      | 31                    | -          | -  | -          | -                     | 1        | -  | - | -     |   |  |  |
| 16:15:00                           | -                        | 16:30:00 | - | -       | 14 | 2 | -               | 8 | 4 | -           | 1  | -            | -              | -                         | -  | -                   | 1  | 1            | -  | -      | -  | 136      | 34                    | -          | 1  | -          | -                     | 1        | -  | - | -     |   |  |  |
| 16:30:00                           | -                        | 16:45:00 | - | -       | 21 | 1 | -               | 4 | 3 | -           | 1  | -            | -              | -                         | -  | -                   | 12 | 1            | -  | 1      | -  | 112      | 46                    | -          | 3  | -          | -                     | 1        | -  | - | -     |   |  |  |
| 16:45:00                           | -                        | 17:00:00 | - | -       | 21 | 3 | -               | 4 | 1 | -           | 1  | -            | -              | -                         | -  | -                   | 4  | 2            | -  | -      | -  | 92       | 22                    | -          | -  | 1          | -                     | 1        | -  | - | -     |   |  |  |
| 17:00:00                           | -                        | 17:15:00 | - | -       | 20 | 2 | -               | 2 | - | -           | -  | -            | -              | -                         | -  | -                   | 3  | -            | -  | -      | -  | 74       | 25                    | -          | -  | -          | -                     | 1        | -  | - | -     |   |  |  |
| 17:15:00                           | -                        | 17:30:00 | - | -       | 17 | 4 | -               | 3 | 1 | -           | 1  | -            | -              | -                         | -  | -                   | 1  | 2            | -  | -      | -  | 78       | 27                    | -          | 2  | -          | -                     | 1        | -  | - | -     |   |  |  |
| 17:30:00                           | -                        | 17:45:00 | - | -       | 15 | 3 | -               | 2 | 1 | -           | 1  | -            | -              | -                         | -  | -                   | 3  | 2            | -  | 1      | -  | 73       | 20                    | -          | -  | -          | -                     | 1        | -  | - | -     |   |  |  |
| 17:45:00                           | -                        | 18:00:00 | - | -       | 13 | 3 | -               | 1 | - | 1           | -  | -            | -              | -                         | -  | -                   | 2  | 1            | -  | 1      | -  | 80       | 23                    | -          | -  | 1          | -                     | 2        | -  | - | -     |   |  |  |
| 18:00:00                           | -                        | 18:15:00 | - | -       | 20 | 4 | -               | 2 | - | -           | -  | -            | -              | -                         | -  | -                   | 1  | -            | -  | -      | -  | 165      | 39                    | -          | 1  |            |                       |          |    |   |       |   |  |  |



## Intersection Analysis Summary

| ID | Intersection Name           | Control Type | Method   | Worst Mvmt | V/C   | Delay (s/veh) | LOS |
|----|-----------------------------|--------------|----------|------------|-------|---------------|-----|
| 1  | Simpang Randu Agung         | Two-way stop | HCM 2010 | NEB Right  | 0,153 | 41,0          | E   |
| 2  | Simpang Kedung Jajang       | Signalized   | HCM 2010 | NWB Left   | 0,535 | 35,4          | D   |
| 3  | Simpang Wonorejo            | Signalized   | HCM 2010 | WB Right   | 0,608 | 32,9          | C   |
| 4  | Simpang Wonorejo Alternatif | Signalized   | HCM 2010 | EB Left    | 0,398 | 33,6          | C   |
| 5  | Simpang JLT Yeye            | Signalized   | HCM 2010 | SEB Thru   | 0,365 | 46,4          | D   |
| 6  | Simpang JLT Tukum           | Signalized   | HCM 2010 | NWB Thru   | 0,464 | 84,4          | F   |
| 7  | Simpang Yosowilangun        | Signalized   | HCM 2010 | NB Left    | 0,663 | 86,1          | F   |
| 8  | Simpang Tempeh              | Signalized   | HCM 2010 | SB Left    | 0,588 | 77,1          | E   |

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. for all other control types, they are taken for the whole intersection.

## Intersection Level Of Service Report

### Intersection 1: Simpang Randu Agung

|                  |              |                           |       |
|------------------|--------------|---------------------------|-------|
| Control Type:    | Two-way stop | Delay (sec / veh):        | 41,0  |
| Analysis Method: | HCM 2010     | Level Of Service:         | E     |
| Analysis Period: | 15 minutes   | Volume to Capacity (v/c): | 0,153 |

#### Intersection Setup

| Name                   | JI Lumajang-Probolinggo |       | JI Lumajang-Probolinggo |       | JI Raya Randuagung |       |
|------------------------|-------------------------|-------|-------------------------|-------|--------------------|-------|
| Approach               | Northeastbound          |       | Southwestbound          |       | Northwestbound     |       |
| Lane Configuration     |                         |       |                         |       |                    |       |
| Turning Movement       | Thru                    | Right | Left                    | Thru  | Left               | Right |
| Lane Width [m]         | 3,30                    | 3,30  | 3,30                    | 3,30  | 3,00               | 3,00  |
| No. of Lanes in Pocket | 0                       | 0     | 0                       | 0     | 0                  | 0     |
| Pocket Length [m]      | 30,48                   | 30,48 | 30,48                   | 30,48 | 30,48              | 30,48 |
| Speed [km/h]           | 60,00                   |       | 60,00                   |       | 60,00              |       |
| Grade [%]              | 0,00                    |       | 0,00                    |       | 0,00               |       |
| Crosswalk              | Yes                     |       | Yes                     |       | Yes                |       |

#### volumes

| Name                                    | JI Lumajang-Probolinggo |        | JI Lumajang-Probolinggo |        | JI Raya Randuagung |        |
|---|-------------------------|--------|-------------------------|--------|--------------------|--------|
| Base Volume Input [veh/h]               | 490                     | 36     | 137                     | 726    | 66                 | 97     |
| Base Volume Adjustment Factor           | 1,0000                  | 1,0000 | 1,0000                  | 1,0000 | 1,0000             | 1,0000 |
| Heavy Vehicles Percentage [%]           | 18,00                   | 14,40  | 9,49                    | 8,52   | 5,92               | 6,60   |
| Growth Rate                             | 1,06                    | 1,06   | 1,06                    | 1,06   | 1,06               | 1,06   |
| In-Process Volume [veh/h]               | 0                       | 0      | 0                       | 0      | 0                  | 0      |
| Site-Generated Trips [veh/h]            | 0                       | 0      | 0                       | 0      | 0                  | 0      |
| Diverted Trips [veh/h]                  | 0                       | 0      | 0                       | 0      | 0                  | 0      |
| Pass-by Trips [veh/h]                   | 0                       | 0      | 0                       | 0      | 0                  | 0      |
| Existing Site Adjustment Volume [veh/h] | 0                       | 0      | 0                       | 0      | 0                  | 0      |
| Other Volume [veh/h]                    | 0                       | 0      | 0                       | 0      | 0                  | 0      |
| Total Hourly Volume [veh/h]             | 519                     | 38     | 145                     | 770    | 70                 | 103    |
| Peak Hour Factor                        | 1,0000                  | 1,0000 | 1,0000                  | 1,0000 | 1,0000             | 1,0000 |
| Other Adjustment Factor                 | 1,0000                  | 1,0000 | 1,0000                  | 1,0000 | 1,0000             | 1,0000 |
| Total 15-Minute Volume [veh/h]          | 130                     | 10     | 36                      | 193    | 18                 | 26     |
| Total Analysis Volume [veh/h]           | 519                     | 38     | 145                     | 770    | 70                 | 103    |
| Pedestrian Volume [ped/h]               | 0                       |        | 0                       |        | 0                  |        |

### Intersection Settings

| Priority Scheme                    | Stop | Free | Free |
|------------------------------------|------|------|------|
| Flared Lane                        |      |      |      |
| Storage Area [veh]                 | 0    | 0    | 0    |
| Two-Stage Gap Acceptance           | No   |      |      |
| Number of Storage Spaces in Median | 0    | 0    | 0    |

### Movement, Approach, & Intersection Results

|                                    |       |       |       |       |      |      |
|------------------------------------|-------|-------|-------|-------|------|------|
| V/C, Movement V/C Ratio            | 0,68  | 0,15  | 0,00  | 0,53  | 0,00 | 0,00 |
| d_M, Delay for Movement [s/veh]    | 31,28 | 40,99 | 0,00  | 10,27 | 0,00 | 0,00 |
| Movement LOS                       | D     | E     | A     | B     | A    | A    |
| 95th-Percentile Queue Length [veh] | 9,20  | 9,20  | 4,80  | 4,80  | 0,00 | 0,00 |
| 95th-Percentile Queue Length [m]   | 70,07 | 70,07 | 36,55 | 36,55 | 0,00 | 0,00 |
| d_A, Approach Delay [s/veh]        | 31,95 |       | 8,64  |       | 0,00 |      |
| Approach LOS                       | D     |       | A     |       | A    |      |
| d_I, Intersection Delay [s/veh]    |       |       | 15,62 |       |      |      |
| Intersection LOS                   |       |       | E     |       |      |      |

## Intersection Level Of Service Report

### Intersection 2: Simpang Kedung Jajang

Control Type: Signalized  
 Analysis Method: HCM 2010  
 Analysis Period: 15 minutes

Delay (sec / veh): 35,4  
 Level Of Service: D  
 Volume to Capacity (v/c): 0,535

#### Intersection Setup

| Name                   | JI Lumajang-Probolinggo |       | JI Lumajang-Probolinggo |       | JI Probolinggo-Jember Alt |       |
|------------------------|-------------------------|-------|-------------------------|-------|---------------------------|-------|
| Approach               | Northbound              |       | Southbound              |       | Northwestbound            |       |
| Lane Configuration     |                         |       |                         |       |                           |       |
| Turning Movement       | Thru                    | Right | Left                    | Thru  | Left                      | Thru  |
| Lane Width [m]         | 3,80                    | 3,80  | 3,60                    | 3,60  | 3,00                      | 3,00  |
| No. of Lanes in Pocket | 0                       | 0     | 0                       | 0     | 0                         | 0     |
| Pocket Length [m]      | 30,48                   | 30,48 | 30,48                   | 30,48 | 30,48                     | 30,48 |
| Speed [km/h]           | 60,00                   |       | 60,00                   |       | 60,00                     |       |
| Grade [%]              | 0,00                    |       | 0,00                    |       | 0,00                      |       |
| Crosswalk              | Yes                     |       | Yes                     |       | Yes                       |       |

#### volumes

| Name                                    | JI Lumajang-Probolinggo |        | JI Lumajang-Probolinggo |        | JI Probolinggo-Jember Alt |        |
|---|-------------------------|--------|-------------------------|--------|---------------------------|--------|
| Base Volume Input [veh/h]               | 377                     | 1      | 236                     | 448    | 1                         | 207    |
| Base Volume Adjustment Factor           | 1,0000                  | 1,0000 | 1,0000                  | 1,0000 | 1,0000                    | 1,0000 |
| Heavy Vehicles Percentage [%]           | 11,69                   | 2,00   | 10,98                   | 7,62   | 2,00                      | 21,78  |
| Growth Rate                             | 1,06                    | 1,06   | 1,06                    | 1,06   | 1,06                      | 1,06   |
| In-Process Volume [veh/h]               | 0                       | 0      | 0                       | 0      | 0                         | 0      |
| Site-Generated Trips [veh/h]            | 0                       | 0      | 0                       | 0      | 0                         | 0      |
| Diverted Trips [veh/h]                  | 0                       | 0      | 0                       | 0      | 0                         | 0      |
| Pass-by Trips [veh/h]                   | 0                       | 0      | 0                       | 0      | 0                         | 0      |
| Existing Site Adjustment Volume [veh/h] | 0                       | 0      | 0                       | 0      | 0                         | 0      |
| Other Volume [veh/h]                    | 0                       | 0      | 0                       | 0      | 0                         | 0      |
| Left-Turn on Red Volume [veh/h]         | 0                       | 0      | 0                       | 0      | 0                         | 0      |
| Total Hourly Volume [veh/h]             | 400                     | 1      | 250                     | 475    | 1                         | 219    |
| Peak Hour Factor                        | 1,0000                  | 1,0000 | 1,0000                  | 1,0000 | 1,0000                    | 1,0000 |
| Other Adjustment Factor                 | 1,0000                  | 1,0000 | 1,0000                  | 1,0000 | 1,0000                    | 1,0000 |
| Total 15-Minute Volume [veh/h]          | 100                     | 0      | 63                      | 119    | 0                         | 55     |
| Total Analysis Volume [veh/h]           | 400                     | 1      | 250                     | 475    | 1                         | 219    |
| Presence of On-Street Parking           | No                      | No     | No                      | No     | No                        | No     |
| On-Street Parking Maneuver Rate [/h]    | 0                       | 0      | 0                       | 0      | 0                         | 0      |
| Local Bus Stopping Rate [/h]            | 0                       | 0      | 0                       | 0      | 0                         | 0      |
| Pedestrian Volume [ped/h]               | 0                       |        | 0                       |        | 0                         |        |
| Bicycle Volume [bicycles/h]             | 0                       |        | 0                       |        | 0                         |        |

### Intersection Settings

|                           |              |  |  |  |  |  |
|---------------------------|--------------|--|--|--|--|--|
| Located in CBD            | Yes          |  |  |  |  |  |
| Signal Coordination Group | -            |  |  |  |  |  |
| Cycle Length [s]          | 90           |  |  |  |  |  |
| Coordination Type         | Free Running |  |  |  |  |  |
| Actuation Type            | Fixed time   |  |  |  |  |  |
| Offset [s]                | 0,0          |  |  |  |  |  |
| Offset Reference          | LeadGreen    |  |  |  |  |  |
| Permissive Mode           | SingleBand   |  |  |  |  |  |
| Lost time [s]             | 12,00        |  |  |  |  |  |

### Phasing & Timing

| Control Type                 | Permissive | Permissive | Permissive | Permissive | Permissive | Permissive |
|------------------------------|------------|------------|------------|------------|------------|------------|
| Signal group                 | 1          | 0          | 0          | 2          | 0          | 3          |
| Auxiliary Signal Groups      |            |            |            |            |            |            |
| Lead / Lag                   | -          | -          | -          | -          | -          | -          |
| Minimum Green [s]            | 10         | 0          | 0          | 10         | 0          | 10         |
| Maximum Green [s]            | 38         | 0          | 0          | 38         | 0          | 19         |
| Amber [s]                    | 2,0        | 0,0        | 0,0        | 2,0        | 0,0        | 2,0        |
| All red [s]                  | 2,0        | 0,0        | 0,0        | 2,0        | 0,0        | 2,0        |
| Split [s]                    | 0          | 0          | 0          | 0          | 0          | 0          |
| Vehicle Extension [s]        | 3,0        | 0,0        | 0,0        | 3,0        | 0,0        | 3,0        |
| Walk [s]                     | 5          | 0          | 0          | 5          | 0          | 5          |
| Pedestrian Clearance [s]     | 10         | 0          | 0          | 10         | 0          | 10         |
| I1, Start-Up Lost Time [s]   | 2,0        | 0,0        | 0,0        | 2,0        | 0,0        | 2,0        |
| I2, Clearance Lost Time [s]  | 2,0        | 0,0        | 0,0        | 2,0        | 0,0        | 2,0        |
| Minimum Recall               | No         |            |            | No         |            | No         |
| Maximum Recall               | No         |            |            | No         |            | No         |
| Pedestrian Recall            | No         |            |            | No         |            | No         |
| Detector Location [m]        | 0,0        | 0,0        | 0,0        | 0,0        | 0,0        | 0,0        |
| Detector Length [m]          | 0,0        | 0,0        | 0,0        | 0,0        | 0,0        | 0,0        |
| I, Upstream Filtering Factor | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       |

### Exclusive Pedestrian Phase

|                          |   |  |  |  |  |  |
|--------------------------|---|--|--|--|--|--|
| Pedestrian Signal Group  | 0 |  |  |  |  |  |
| Pedestrian Walk [s]      | 0 |  |  |  |  |  |
| Pedestrian Clearance [s] | 0 |  |  |  |  |  |

## Lane Group Calculations

| Lane Group                              | C     | C     | C     | C     | C     | C     |
|---|-------|-------|-------|-------|-------|-------|
| L, Total Lost Time per Cycle [s]        | 4,00  | 4,00  | 4,00  | 4,00  | 4,00  | 4,00  |
| I1_p, Permitted Start-Up Lost Time [s]  | 0,00  | 0,00  | 0,00  | 0,00  | 0,00  | 0,00  |
| I2, Clearance Lost Time [s]             | 2,00  | 2,00  | 2,00  | 2,00  | 2,00  | 2,00  |
| g_i, Effective Green Time [s]           | 38    | 38    | 38    | 38    | 19    | 19    |
| g / C, Green / Cycle                    | 0,36  | 0,36  | 0,36  | 0,36  | 0,18  | 0,18  |
| (v / s)_i Volume / Saturation Flow Rate | 0,14  | 0,14  | 0,26  | 0,23  | 0,08  | 0,08  |
| s, saturation flow rate [veh/h]         | 1393  | 1531  | 1417  | 1589  | 1346  | 1348  |
| c, Capacity [veh/h]                     | 495   | 544   | 503   | 564   | 239   | 239   |
| d1, Uniform Delay [s]                   | 25,78 | 25,78 | 29,90 | 28,82 | 39,41 | 39,40 |
| k, delay calibration                    | 0,50  | 0,50  | 0,50  | 0,50  | 0,50  | 0,50  |
| I, Upstream Filtering Factor            | 1,00  | 1,00  | 1,00  | 1,00  | 1,00  | 1,00  |
| d2, Incremental Delay [s]               | 2,27  | 2,07  | 8,63  | 5,54  | 6,26  | 6,23  |
| d3, Initial Queue Delay [s]             | 0,00  | 0,00  | 0,00  | 0,00  | 0,00  | 0,00  |
| Rp, platoon ratio                       | 1,00  | 1,00  | 1,00  | 1,00  | 1,00  | 1,00  |
| PF, progression factor                  | 1,00  | 1,00  | 1,00  | 1,00  | 1,00  | 1,00  |

## Lane Group Results

|                                    |       |       |        |       |       |       |
|------------------------------------|-------|-------|--------|-------|-------|-------|
| X, volume / capacity               | 0,39  | 0,39  | 0,72   | 0,64  | 0,46  | 0,46  |
| d, Delay for Lane Group [s/veh]    | 28,05 | 27,85 | 38,53  | 34,36 | 45,67 | 45,64 |
| Lane Group LOS                     | C     | C     | D      | C     | D     | D     |
| Critical Lane Group                | No    | Yes   | Yes    | No    | Yes   | No    |
| 50th-Percentile Queue Length [veh] | 3,84  | 4,19  | 8,98   | 8,36  | 2,96  | 2,96  |
| 50th-Percentile Queue Length [m]   | 29,29 | 31,95 | 68,41  | 63,71 | 22,55 | 22,53 |
| 95th-Percentile Queue Length [veh] | 6,92  | 7,55  | 13,89  | 13,10 | 5,33  | 5,32  |
| 95th-Percentile Queue Length [m]   | 52,73 | 57,52 | 105,86 | 99,84 | 40,58 | 40,56 |

### Movement, Approach, & Intersection Results

|                                 |       |       |       |       |       |       |
|---------------------------------|-------|-------|-------|-------|-------|-------|
| d_M, Delay for Movement [s/veh] | 27,95 | 27,85 | 38,53 | 35,35 | 45,67 | 45,65 |
| Movement LOS                    | C     | C     | D     | D     | D     | D     |
| d_A, Approach Delay [s/veh]     | 27,95 |       | 36,45 |       | 45,65 |       |
| Approach LOS                    | C     |       | D     |       | D     |       |
| d_I, Intersection Delay [s/veh] |       | 35,42 |       |       |       |       |
| Intersection LOS                |       | D     |       |       |       |       |
| Intersection V/C                |       | 0,535 |       |       |       |       |

### Sequence

|        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ring 1 | 1 | 2 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ring 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ring 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ring 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |



## Intersection Level Of Service Report

### Intersection 3: Simpang Wonorejo

|                  |            |                           |       |
|------------------|------------|---------------------------|-------|
| Control Type:    | Signalized | Delay (sec / veh):        | 32,9  |
| Analysis Method: | HCM 2010   | Level Of Service:         | C     |
| Analysis Period: | 15 minutes | Volume to Capacity (v/c): | 0,608 |

#### Intersection Setup

| Name                   | JI Sukarno-Hatta  |       | JI Lumajang-Probolinggo  |       | JI Lumajang-Jember  |       |
|------------------------|---|-------|--|-------|---|-------|
| Approach               | Northbound  |       | Southbound   |       | Westbound   |       |
| Lane Configuration     |  |       |  |       |  |       |
| Turning Movement       | Thru  | Right | Left   | Thru  | Left  | Right |
| Lane Width [m]         | 9,60  | 9,60  | 9,60   | 9,60  | 9,00  | 9,00  |
| No. of Lanes in Pocket | 0   | 0     | 0  | 0     | 0   | 0     |
| Pocket Length [m]      | 30,48   | 30,48 | 30,48  | 30,48 | 30,48   | 30,48 |
| Speed [km/h]           | 60,00   |       | 60,00  |       | 60,00   |       |
| Grade [%]              | 0,00  |       | 0,00   |       | 0,00  |       |
| Crosswalk              | Yes   |       | Yes  |       | Yes   |       |

#### volumes

| Name                                    | JI Sukarno-Hatta |        | JI Lumajang-Probolinggo |        | JI Lumajang-Jember |        |
|---|------------------|--------|-------------------------|--------|--------------------|--------|
| Base Volume Input [veh/h]               | 499              | 130    | 156                     | 658    | 209                | 157    |
| Base Volume Adjustment Factor           | 1,0000           | 1,0000 | 1,0000                  | 1,0000 | 1,0000             | 1,0000 |
| Heavy Vehicles Percentage [%]           | 12,78            | 12,13  | 17,58                   | 16,58  | 11,65              | 14,07  |
| Growth Rate                             | 1,06             | 1,06   | 1,06                    | 1,06   | 1,06               | 1,06   |
| In-Process Volume [veh/h]               | 0                | 0      | 0                       | 0      | 0                  | 0      |
| Site-Generated Trips [veh/h]            | 0                | 0      | 0                       | 0      | 0                  | 0      |
| Diverted Trips [veh/h]                  | 0                | 0      | 0                       | 0      | 0                  | 0      |
| Pass-by Trips [veh/h]                   | 0                | 0      | 0                       | 0      | 0                  | 0      |
| Existing Site Adjustment Volume [veh/h] | 0                | 0      | 0                       | 0      | 0                  | 0      |
| Other Volume [veh/h]                    | 0                | 0      | 0                       | 0      | 0                  | 0      |
| Left-Turn on Red Volume [veh/h]         | 0                | 0      | 165                     | 0      | 222                | 0      |
| Total Hourly Volume [veh/h]             | 529              | 138    | 0                       | 697    | 0                  | 166    |
| Peak Hour Factor                        | 1,0000           | 1,0000 | 1,0000                  | 1,0000 | 1,0000             | 1,0000 |
| Other Adjustment Factor                 | 1,0000           | 1,0000 | 1,0000                  | 1,0000 | 1,0000             | 1,0000 |
| Total 15-Minute Volume [veh/h]          | 132              | 35     | 0                       | 174    | 0                  | 42     |
| Total Analysis Volume [veh/h]           | 529              | 138    | 0                       | 697    | 0                  | 166    |
| Presence of On-Street Parking           | No               | No     | No                      | No     | No                 | No     |
| On-Street Parking Maneuver Rate [/h]    | 0                | 0      | 0                       | 0      | 0                  | 0      |
| Local Bus Stopping Rate [/h]            | 0                | 0      | 0                       | 0      | 0                  | 0      |
| Pedestrian Volume [ped/h]               | 0                |        | 0                       |        | 0                  |        |
| Bicycle Volume [bicycles/h]             | 0                |        | 0                       |        | 0                  |        |

### Intersection Settings

|                           |              |  |  |  |  |  |
|---------------------------|--------------|--|--|--|--|--|
| Located in CBD            | Yes          |  |  |  |  |  |
| Signal Coordination Group | -            |  |  |  |  |  |
| Cycle Length [s]          | 90           |  |  |  |  |  |
| Coordination Type         | Free Running |  |  |  |  |  |
| Actuation Type            | Fixed time   |  |  |  |  |  |
| Offset [s]                | 0,0          |  |  |  |  |  |
| Offset Reference          | LeadGreen    |  |  |  |  |  |
| Permissive Mode           | SingleBand   |  |  |  |  |  |
| Lost time [s]             | 12,00        |  |  |  |  |  |

### Phasing & Timing

| Control Type                 | Permissive | Permissive | Permissive | Permissive | Permissive | Permissive |
|------------------------------|------------|------------|------------|------------|------------|------------|
| Signal group                 | 1          | 0          | 0          | 2          | 0          | 3          |
| Auxiliary Signal Groups      |            |            |            |            |            |            |
| Lead / Lag                   | -          | -          | -          | -          | -          | Lead       |
| Minimum Green [s]            | 10         | 0          | 0          | 10         | 0          | 10         |
| Maximum Green [s]            | 40         | 0          | 0          | 27         | 0          | 12         |
| Amber [s]                    | 2,0        | 0,0        | 0,0        | 2,0        | 0,0        | 2,0        |
| All red [s]                  | 2,0        | 0,0        | 0,0        | 2,0        | 0,0        | 2,0        |
| Split [s]                    | 0          | 0          | 0          | 0          | 0          | 0          |
| Vehicle Extension [s]        | 3,0        | 0,0        | 0,0        | 3,0        | 0,0        | 3,0        |
| Walk [s]                     | 5          | 0          | 0          | 5          | 0          | 5          |
| Pedestrian Clearance [s]     | 10         | 0          | 0          | 10         | 0          | 10         |
| I1, Start-Up Lost Time [s]   | 2,0        | 0,0        | 0,0        | 2,0        | 0,0        | 2,0        |
| I2, Clearance Lost Time [s]  | 2,0        | 0,0        | 0,0        | 2,0        | 0,0        | 2,0        |
| Minimum Recall               | No         |            |            | No         |            | No         |
| Maximum Recall               | No         |            |            | No         |            | No         |
| Pedestrian Recall            | No         |            |            | No         |            | No         |
| Detector Location [m]        | 0,0        | 0,0        | 0,0        | 0,0        | 0,0        | 0,0        |
| Detector Length [m]          | 0,0        | 0,0        | 0,0        | 0,0        | 0,0        | 0,0        |
| I, Upstream Filtering Factor | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       |

### Exclusive Pedestrian Phase

|                          |   |  |  |  |  |  |
|--------------------------|---|--|--|--|--|--|
| Pedestrian Signal Group  | 0 |  |  |  |  |  |
| Pedestrian Walk [s]      | 0 |  |  |  |  |  |
| Pedestrian Clearance [s] | 0 |  |  |  |  |  |

### Lane Group Calculations

| Lane Group                              | C     | R     | L    | C     | L    | R     |
|---|-------|-------|------|-------|------|-------|
| L, Total Lost Time per Cycle [s]        | 4,00  | 4,00  | 4,00 | 4,00  | 4,00 | 4,00  |
| I1_p, Permitted Start-Up Lost Time [s]  | 0,00  | 0,00  | 0,00 | 0,00  | 0,00 | 0,00  |
| I2, Clearance Lost Time [s]             | 2,00  | 2,00  | 2,00 | 2,00  | 2,00 | 2,00  |
| g_i, Effective Green Time [s]           | 40    | 40    | 27   | 27    | 12   | 12    |
| g / C, Green / Cycle                    | 0,44  | 0,44  | 0,30 | 0,30  | 0,13 | 0,13  |
| (v / s)_i Volume / Saturation Flow Rate | 0,18  | 0,09  | 0,00 | 0,24  | 0,00 | 0,11  |
| s, saturation flow rate [veh/h]         | 3002  | 1510  | 1286 | 2905  | 1354 | 1485  |
| c, Capacity [veh/h]                     | 1320  | 664   | 381  | 862   | 179  | 196   |
| d1, Uniform Delay [s]                   | 17,35 | 15,73 | 0,00 | 29,61 | 0,00 | 38,61 |
| k, delay calibration                    | 0,50  | 0,50  | 0,50 | 0,50  | 0,50 | 0,50  |
| I, Upstream Filtering Factor            | 1,00  | 1,00  | 1,00 | 1,00  | 1,00 | 1,00  |
| d2, Incremental Delay [s]               | 0,91  | 0,71  | 0,00 | 8,08  | 0,00 | 34,17 |
| d3, Initial Queue Delay [s]             | 0,00  | 0,00  | 0,00 | 0,00  | 0,00 | 0,00  |
| Rp, platoon ratio                       | 1,00  | 1,00  | 1,00 | 1,00  | 1,00 | 1,00  |
| PF, progression factor                  | 1,00  | 1,00  | 1,00 | 1,00  | 1,00 | 1,00  |

### Lane Group Results

|                                    |       |       |      |       |      |       |
|------------------------------------|-------|-------|------|-------|------|-------|
| X, volume / capacity               | 0,40  | 0,21  | 0,00 | 0,81  | 0,00 | 0,85  |
| d, Delay for Lane Group [s/veh]    | 18,26 | 16,44 | 0,00 | 37,69 | 0,00 | 72,77 |
| Lane Group LOS                     | B     | B     | A    | D     | A    | E     |
| Critical Lane Group                | Yes   | No    | No   | Yes   | No   | Yes   |
| 50th-Percentile Queue Length [veh] | 3,68  | 1,79  | 0,00 | 7,64  | 0,00 | 5,36  |
| 50th-Percentile Queue Length [m]   | 28,07 | 13,67 | 0,00 | 58,25 | 0,00 | 40,83 |
| 95th-Percentile Queue Length [veh] | 6,63  | 3,23  | 0,00 | 12,18 | 0,00 | 9,16  |
| 95th-Percentile Queue Length [m]   | 50,52 | 24,61 | 0,00 | 92,80 | 0,00 | 69,76 |

### Movement, Approach, & Intersection Results

|                                 |       |       |       |       |       |       |
|---------------------------------|-------|-------|-------|-------|-------|-------|
| d_M, Delay for Movement [s/veh] | 18,26 | 16,44 | 0,00  | 37,69 | 0,00  | 72,77 |
| Movement LOS                    | B     | B     | A     | D     | A     | E     |
| d_A, Approach Delay [s/veh]     | 17,88 |       | 37,69 |       | 72,77 |       |
| Approach LOS                    | B     |       | D     |       | E     |       |
| d_I, Intersection Delay [s/veh] |       | 32,86 |       |       |       |       |
| Intersection LOS                |       | C     |       |       |       |       |
| Intersection V/C                |       | 0,608 |       |       |       |       |

### Sequence

|        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ring 1 | 1 | 2 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ring 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ring 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ring 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |



## Intersection Level Of Service Report

### Intersection 4: Simpang Wonorejo Alternatif

|                  |            |                           |       |
|------------------|------------|---------------------------|-------|
| Control Type:    | Signalized | Delay (sec / veh):        | 33,6  |
| Analysis Method: | HCM 2010   | Level Of Service:         | C     |
| Analysis Period: | 15 minutes | Volume to Capacity (v/c): | 0,398 |

#### Intersection Setup

| Name                   | Jl Probolinggo-Jember Alt   |       | Jl Lumajang-Jember  |       | Jl Lumajang-Jember  |       |
|------------------------|---|-------|---|-------|---|-------|
| Approach               | Southbound  |       | Eastbound   |       | Westbound   |       |
| Lane Configuration     |  |       |  |       |  |       |
| Turning Movement       | Left  | Right | Left  | Thru  | Thru  | Right |
| Lane Width [m]         | 4,50  | 4,50  | 4,50  | 4,50  | 4,50  | 4,50  |
| No. of Lanes in Pocket | 0   | 0     | 0   | 0     | 0   | 0     |
| Pocket Length [m]      | 30,48   | 30,48 | 30,48   | 30,48 | 30,48   | 30,48 |
| Speed [km/h]           | 60,00   |       | 60,00   |       | 60,00   |       |
| Grade [%]              | 0,00  |       | 0,00  |       | 0,00  |       |
| Crosswalk              | Yes   |       | Yes   |       | Yes   |       |

#### volumes

| Name                                    | Jl Probolinggo-Jember Alt |        | Jl Lumajang-Jember |        | Jl Lumajang-Jember |        |
|---|---------------------------|--------|--------------------|--------|--------------------|--------|
| Base Volume Input [veh/h]               | 244                       | 46     | 26                 | 185    | 319                | 147    |
| Base Volume Adjustment Factor           | 1,0000                    | 1,0000 | 1,0000             | 1,0000 | 1,0000             | 1,0000 |
| Heavy Vehicles Percentage [%]           | 14,99                     | 2,00   | 2,00               | 5,35   | 8,09               | 25,80  |
| Growth Rate                             | 1,06                      | 1,06   | 1,06               | 1,06   | 1,06               | 1,06   |
| In-Process Volume [veh/h]               | 0                         | 0      | 0                  | 0      | 0                  | 0      |
| Site-Generated Trips [veh/h]            | 0                         | 0      | 0                  | 0      | 0                  | 0      |
| Diverted Trips [veh/h]                  | 0                         | 0      | 0                  | 0      | 0                  | 0      |
| Pass-by Trips [veh/h]                   | 0                         | 0      | 0                  | 0      | 0                  | 0      |
| Existing Site Adjustment Volume [veh/h] | 0                         | 0      | 0                  | 0      | 0                  | 0      |
| Other Volume [veh/h]                    | 0                         | 0      | 0                  | 0      | 0                  | 0      |
| Left-Turn on Red Volume [veh/h]         | 0                         | 0      | 0                  | 0      | 0                  | 0      |
| Total Hourly Volume [veh/h]             | 259                       | 49     | 28                 | 196    | 338                | 156    |
| Peak Hour Factor                        | 1,0000                    | 1,0000 | 1,0000             | 1,0000 | 1,0000             | 1,0000 |
| Other Adjustment Factor                 | 1,0000                    | 1,0000 | 1,0000             | 1,0000 | 1,0000             | 1,0000 |
| Total 15-Minute Volume [veh/h]          | 65                        | 12     | 7                  | 49     | 85                 | 39     |
| Total Analysis Volume [veh/h]           | 259                       | 49     | 28                 | 196    | 338                | 156    |
| Presence of On-Street Parking           | No                        | No     | No                 | No     | No                 | No     |
| On-Street Parking Maneuver Rate [/h]    | 0                         | 0      | 0                  | 0      | 0                  | 0      |
| Local Bus Stopping Rate [/h]            | 0                         | 0      | 0                  | 0      | 0                  | 0      |
| Pedestrian Volume [ped/h]               | 0                         |        | 0                  |        | 0                  |        |
| Bicycle Volume [bicycles/h]             | 0                         |        | 0                  |        | 0                  |        |

### Intersection Settings

|                           |              |  |  |  |  |  |
|---------------------------|--------------|--|--|--|--|--|
| Located in CBD            | Yes          |  |  |  |  |  |
| Signal Coordination Group | -            |  |  |  |  |  |
| Cycle Length [s]          | 90           |  |  |  |  |  |
| Coordination Type         | Free Running |  |  |  |  |  |
| Actuation Type            | Fixed time   |  |  |  |  |  |
| Offset [s]                | 0,0          |  |  |  |  |  |
| Offset Reference          | LeadGreen    |  |  |  |  |  |
| Permissive Mode           | SingleBand   |  |  |  |  |  |
| Lost time [s]             | 12,00        |  |  |  |  |  |

### Phasing & Timing

| Control Type                 | Permissive | Permissive | Permissive | Permissive | Permissive | Permissive |
|------------------------------|------------|------------|------------|------------|------------|------------|
| Signal group                 | 0          | 2          | 0          | 1          | 3          | 0          |
| Auxiliary Signal Groups      |            |            |            |            |            |            |
| Lead / Lag                   | -          | Lead       | -          | -          | -          | -          |
| Minimum Green [s]            | 0          | 10         | 0          | 10         | 10         | 0          |
| Maximum Green [s]            | 0          | 22         | 0          | 11         | 30         | 0          |
| Amber [s]                    | 0,0        | 2,0        | 0,0        | 2,0        | 2,0        | 0,0        |
| All red [s]                  | 0,0        | 2,0        | 0,0        | 2,0        | 2,0        | 0,0        |
| Split [s]                    | 0          | 0          | 0          | 0          | 0          | 0          |
| Vehicle Extension [s]        | 0,0        | 3,0        | 0,0        | 3,0        | 3,0        | 0,0        |
| Walk [s]                     | 0          | 5          | 0          | 5          | 5          | 0          |
| Pedestrian Clearance [s]     | 0          | 10         | 0          | 10         | 10         | 0          |
| I1, Start-Up Lost Time [s]   | 0,0        | 2,0        | 0,0        | 2,0        | 2,0        | 0,0        |
| I2, Clearance Lost Time [s]  | 0,0        | 2,0        | 0,0        | 2,0        | 2,0        | 0,0        |
| Minimum Recall               |            | No         |            | No         | No         |            |
| Maximum Recall               |            | No         |            | No         | No         |            |
| Pedestrian Recall            |            | No         |            | No         | No         |            |
| Detector Location [m]        | 0,0        | 0,0        | 0,0        | 0,0        | 0,0        | 0,0        |
| Detector Length [m]          | 0,0        | 0,0        | 0,0        | 0,0        | 0,0        | 0,0        |
| I, Upstream Filtering Factor | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       |

### Exclusive Pedestrian Phase

|                          |   |
|--------------------------|---|
| Pedestrian Signal Group  | 0 |
| Pedestrian Walk [s]      | 0 |
| Pedestrian Clearance [s] | 0 |

## Lane Group Calculations

| Lane Group                              | L     | C     | C     | C     | C     | C     |
|---|-------|-------|-------|-------|-------|-------|
| L, Total Lost Time per Cycle [s]        | 4,00  | 4,00  | 4,00  | 4,00  | 4,00  | 4,00  |
| I1_p, Permitted Start-Up Lost Time [s]  | 0,00  | 0,00  | 0,00  | 0,00  | 0,00  | 0,00  |
| I2, Clearance Lost Time [s]             | 2,00  | 2,00  | 2,00  | 2,00  | 2,00  | 2,00  |
| g_i, Effective Green Time [s]           | 22    | 22    | 11    | 11    | 30    | 30    |
| g / C, Green / Cycle                    | 0,24  | 0,24  | 0,12  | 0,12  | 0,33  | 0,33  |
| (v / s)_i Volume / Saturation Flow Rate | 0,12  | 0,11  | 0,07  | 0,07  | 0,16  | 0,16  |
| s, saturation flow rate [veh/h]         | 1315  | 1360  | 1617  | 1688  | 1497  | 1597  |
| c, Capacity [veh/h]                     | 321   | 333   | 198   | 206   | 499   | 532   |
| d1, Uniform Delay [s]                   | 29,04 | 29,02 | 37,25 | 37,14 | 23,78 | 23,82 |
| k, delay calibration                    | 0,50  | 0,50  | 0,50  | 0,50  | 0,50  | 0,50  |
| I, Upstream Filtering Factor            | 1,00  | 1,00  | 1,00  | 1,00  | 1,00  | 1,00  |
| d2, Incremental Delay [s]               | 4,91  | 4,71  | 11,27 | 9,88  | 3,25  | 3,09  |
| d3, Initial Queue Delay [s]             | 0,00  | 0,00  | 0,00  | 0,00  | 0,00  | 0,00  |
| Rp, platoon ratio                       | 1,00  | 1,00  | 1,00  | 1,00  | 1,00  | 1,00  |
| PF, progression factor                  | 1,00  | 1,00  | 1,00  | 1,00  | 1,00  | 1,00  |

## Lane Group Results

|                                    |       |       |       |       |       |       |
|------------------------------------|-------|-------|-------|-------|-------|-------|
| X, volume / capacity               | 0,47  | 0,47  | 0,57  | 0,54  | 0,48  | 0,48  |
| d, Delay for Lane Group [s/veh]    | 33,95 | 33,73 | 48,52 | 47,02 | 27,03 | 26,91 |
| Lane Group LOS                     | C     | C     | D     | D     | C     | C     |
| Critical Lane Group                | Yes   | No    | Yes   | No    | No    | Yes   |
| 50th-Percentile Queue Length [veh] | 3,13  | 3,20  | 2,87  | 2,81  | 4,26  | 4,55  |
| 50th-Percentile Queue Length [m]   | 23,82 | 24,41 | 21,89 | 21,44 | 32,46 | 34,71 |
| 95th-Percentile Queue Length [veh] | 5,63  | 5,77  | 5,17  | 5,06  | 7,65  | 8,05  |
| 95th-Percentile Queue Length [m]   | 42,87 | 43,94 | 39,40 | 38,59 | 58,26 | 61,38 |

### Movement, Approach, & Intersection Results

|                                 |       |       |       |       |       |       |
|---------------------------------|-------|-------|-------|-------|-------|-------|
| d_M, Delay for Movement [s/veh] | 33,86 | 33,73 | 48,52 | 47,66 | 26,99 | 26,91 |
| Movement LOS                    | C     | C     | D     | D     | C     | C     |
| d_A, Approach Delay [s/veh]     | 33,84 |       | 47,77 |       | 26,97 |       |
| Approach LOS                    | C     |       | D     |       | C     |       |
| d_I, Intersection Delay [s/veh] |       | 33,57 |       |       |       |       |
| Intersection LOS                |       | C     |       |       |       |       |
| Intersection V/C                |       | 0,398 |       |       |       |       |

### Sequence

|        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ring 1 | 1 | 2 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ring 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ring 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ring 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |



## Intersection Level Of Service Report

### Intersection 5: Simpang JLT Yeye

Control Type: Signalized  
 Analysis Method: HCM 2010  
 Analysis Period: 15 minutes

Delay (sec / veh): 46,4  
 Level Of Service: D  
 Volume to Capacity (v/c): 0,365

#### Intersection Setup

| Name                   | JLT        |       | JI Lumajang-Jember |       | JI Lumajang-Jember |       |
|------------------------|------------|-------|--------------------|-------|--------------------|-------|
| Approach               | Northbound |       | Northwestbound     |       | Southeastbound     |       |
| Lane Configuration     |            |       |                    |       |                    |       |
| Turning Movement       | Left       | Right | Left               | Thru  | Thru               | Right |
| Lane Width [m]         | 12,00      | 12,00 | 10,00              | 10,00 | 3,80               | 3,80  |
| No. of Lanes in Pocket | 0          | 0     | 0                  | 0     | 0                  | 0     |
| Pocket Length [m]      | 30,48      | 30,48 | 30,48              | 30,48 | 30,48              | 30,48 |
| Speed [km/h]           | 60,00      |       | 60,00              |       | 60,00              |       |
| Grade [%]              | 0,00       |       | 0,00               |       | 0,00               |       |
| Crosswalk              | Yes        |       | Yes                |       | Yes                |       |

#### volumes

| Name                                    | JLT    |        | JI Lumajang-Jember |        | JI Lumajang-Jember |        |
|---|--------|--------|--------------------|--------|--------------------|--------|
| Base Volume Input [veh/h]               | 148    | 124    | 240                | 294    | 410                | 92     |
| Base Volume Adjustment Factor           | 1,0000 | 1,0000 | 1,0000             | 1,0000 | 1,0000             | 1,0000 |
| Heavy Vehicles Percentage [%]           | 7,92   | 7,15   | 2,00               | 12,01  | 27,54              | 22,54  |
| Growth Rate                             | 1,06   | 1,06   | 1,06               | 1,06   | 1,06               | 1,06   |
| In-Process Volume [veh/h]               | 0      | 0      | 0                  | 0      | 0                  | 0      |
| Site-Generated Trips [veh/h]            | 0      | 0      | 0                  | 0      | 0                  | 0      |
| Diverted Trips [veh/h]                  | 0      | 0      | 0                  | 0      | 0                  | 0      |
| Pass-by Trips [veh/h]                   | 0      | 0      | 0                  | 0      | 0                  | 0      |
| Existing Site Adjustment Volume [veh/h] | 0      | 0      | 0                  | 0      | 0                  | 0      |
| Other Volume [veh/h]                    | 0      | 0      | 0                  | 0      | 0                  | 0      |
| Left-Turn on Red Volume [veh/h]         | 157    | 0      | 254                | 0      | 0                  | 0      |
| Total Hourly Volume [veh/h]             | 0      | 131    | 0                  | 312    | 435                | 98     |
| Peak Hour Factor                        | 1,0000 | 1,0000 | 1,0000             | 1,0000 | 1,0000             | 1,0000 |
| Other Adjustment Factor                 | 1,0000 | 1,0000 | 1,0000             | 1,0000 | 1,0000             | 1,0000 |
| Total 15-Minute Volume [veh/h]          | 0      | 33     | 0                  | 78     | 109                | 25     |
| Total Analysis Volume [veh/h]           | 0      | 131    | 0                  | 312    | 435                | 98     |
| Presence of On-Street Parking           | No     | No     | No                 | No     | No                 | No     |
| On-Street Parking Maneuver Rate [/h]    | 0      | 0      | 0                  | 0      | 0                  | 0      |
| Local Bus Stopping Rate [/h]            | 0      | 0      | 0                  | 0      | 0                  | 0      |
| Pedestrian Volume [ped/h]               | 0      |        | 0                  |        | 0                  |        |
| Bicycle Volume [bicycles/h]             | 0      |        | 0                  |        | 0                  |        |

### Intersection Settings

|                           |              |  |  |  |  |  |
|---------------------------|--------------|--|--|--|--|--|
| Located in CBD            | Yes          |  |  |  |  |  |
| Signal Coordination Group | -            |  |  |  |  |  |
| Cycle Length [s]          | 90           |  |  |  |  |  |
| Coordination Type         | Free Running |  |  |  |  |  |
| Actuation Type            | Fixed time   |  |  |  |  |  |
| Offset [s]                | 0,0          |  |  |  |  |  |
| Offset Reference          | LeadGreen    |  |  |  |  |  |
| Permissive Mode           | SingleBand   |  |  |  |  |  |
| Lost time [s]             | 12,00        |  |  |  |  |  |

### Phasing & Timing

| Control Type                 | Permissive | Permissive | Permissive | Permissive | Permissive | Permissive |
|------------------------------|------------|------------|------------|------------|------------|------------|
| Signal group                 | 0          | 2          | 0          | 1          | 3          | 0          |
| Auxiliary Signal Groups      |            |            |            |            |            |            |
| Lead / Lag                   | -          | Lead       | -          | -          | -          | -          |
| Minimum Green [s]            | 0          | 10         | 0          | 10         | 10         | 0          |
| Maximum Green [s]            | 0          | 12         | 0          | 17         | 17         | 0          |
| Amber [s]                    | 0,0        | 3,0        | 0,0        | 3,0        | 3,0        | 0,0        |
| All red [s]                  | 0,0        | 2,0        | 0,0        | 2,0        | 2,0        | 0,0        |
| Split [s]                    | 0          | 0          | 0          | 0          | 0          | 0          |
| Vehicle Extension [s]        | 0,0        | 3,0        | 0,0        | 3,0        | 3,0        | 0,0        |
| Walk [s]                     | 0          | 5          | 0          | 5          | 5          | 0          |
| Pedestrian Clearance [s]     | 0          | 10         | 0          | 10         | 10         | 0          |
| I1, Start-Up Lost Time [s]   | 0,0        | 2,0        | 0,0        | 2,0        | 2,0        | 0,0        |
| I2, Clearance Lost Time [s]  | 0,0        | 3,0        | 0,0        | 3,0        | 3,0        | 0,0        |
| Minimum Recall               |            | No         |            | No         | No         |            |
| Maximum Recall               |            | No         |            | No         | No         |            |
| Pedestrian Recall            |            | No         |            | No         | No         |            |
| Detector Location [m]        | 0,0        | 0,0        | 0,0        | 0,0        | 0,0        | 0,0        |
| Detector Length [m]          | 0,0        | 0,0        | 0,0        | 0,0        | 0,0        | 0,0        |
| I, Upstream Filtering Factor | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       |

### Exclusive Pedestrian Phase

|                          |   |  |  |  |  |  |
|--------------------------|---|--|--|--|--|--|
| Pedestrian Signal Group  | 0 |  |  |  |  |  |
| Pedestrian Walk [s]      | 0 |  |  |  |  |  |
| Pedestrian Clearance [s] | 0 |  |  |  |  |  |

### Lane Group Calculations

| Lane Group                              | L    | R     | L    | C     | C     | R     |
|---|------|-------|------|-------|-------|-------|
| L, Total Lost Time per Cycle [s]        | 5,00 | 5,00  | 5,00 | 5,00  | 5,00  | 5,00  |
| I1_p, Permitted Start-Up Lost Time [s]  | 0,00 | 0,00  | 0,00 | 0,00  | 0,00  | 0,00  |
| I2, Clearance Lost Time [s]             | 3,00 | 3,00  | 3,00 | 3,00  | 3,00  | 3,00  |
| g_i, Effective Green Time [s]           | 12   | 12    | 17   | 17    | 17    | 17    |
| g / C, Green / Cycle                    | 0,13 | 0,13  | 0,19 | 0,19  | 0,19  | 0,19  |
| (v / s)_i Volume / Saturation Flow Rate | 0,00 | 0,04  | 0,00 | 0,10  | 0,17  | 0,07  |
| s, saturation flow rate [veh/h]         | 1401 | 3070  | 1482 | 3023  | 2553  | 1329  |
| c, Capacity [veh/h]                     | 187  | 409   | 280  | 571   | 482   | 251   |
| d1, Uniform Delay [s]                   | 0,00 | 35,31 | 0,00 | 33,01 | 35,69 | 31,96 |
| k, delay calibration                    | 0,50 | 0,50  | 0,50 | 0,50  | 0,50  | 0,50  |
| I, Upstream Filtering Factor            | 1,00 | 1,00  | 1,00 | 1,00  | 1,00  | 1,00  |
| d2, Incremental Delay [s]               | 0,00 | 2,06  | 0,00 | 3,73  | 22,70 | 4,52  |
| d3, Initial Queue Delay [s]             | 0,00 | 0,00  | 0,00 | 0,00  | 0,00  | 0,00  |
| Rp, platoon ratio                       | 1,00 | 1,00  | 1,00 | 1,00  | 1,00  | 1,00  |
| PF, progression factor                  | 1,00 | 1,00  | 1,00 | 1,00  | 1,00  | 1,00  |

### Lane Group Results

|                                    |      |       |      |       |       |       |
|------------------------------------|------|-------|------|-------|-------|-------|
| X, volume / capacity               | 0,00 | 0,32  | 0,00 | 0,55  | 0,90  | 0,39  |
| d, Delay for Lane Group [s/veh]    | 0,00 | 37,36 | 0,00 | 36,74 | 58,39 | 36,48 |
| Lane Group LOS                     | A    | D     | A    | D     | E     | D     |
| Critical Lane Group                | No   | Yes   | No   | Yes   | Yes   | No    |
| 50th-Percentile Queue Length [veh] | 0,00 | 1,38  | 0,00 | 3,26  | 5,99  | 2,12  |
| 50th-Percentile Queue Length [m]   | 0,00 | 10,51 | 0,00 | 24,87 | 45,68 | 16,16 |
| 95th-Percentile Queue Length [veh] | 0,00 | 2,48  | 0,00 | 5,88  | 10,01 | 3,82  |
| 95th-Percentile Queue Length [m]   | 0,00 | 18,92 | 0,00 | 44,77 | 76,27 | 29,08 |

### Movement, Approach, & Intersection Results

|                                 |       |       |       |       |       |       |
|---------------------------------|-------|-------|-------|-------|-------|-------|
| d_M, Delay for Movement [s/veh] | 0,00  | 37,36 | 0,00  | 36,74 | 58,39 | 36,48 |
| Movement LOS                    | A     | D     | A     | D     | E     | D     |
| d_A, Approach Delay [s/veh]     | 37,36 |       | 36,74 |       | 54,36 |       |
| Approach LOS                    | D     |       | D     |       | D     |       |
| d_I, Intersection Delay [s/veh] |       | 46,45 |       |       |       |       |
| Intersection LOS                |       | D     |       |       |       |       |
| Intersection V/C                |       | 0,365 |       |       |       |       |

### Sequence

|        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ring 1 | 1 | 2 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ring 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ring 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ring 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |



## Intersection Level Of Service Report

### Intersection 6: Simpang JLT Tukum

Control Type: Signalized  
 Analysis Method: HCM 2010  
 Analysis Period: 15 minutes

Delay (sec / veh): 84,4  
 Level Of Service: F  
 Volume to Capacity (v/c): 0,464

#### Intersection Setup

| Name                   | JLT            |       | JI Mayjen Soekertijo |       | JI Panjaitan   |       |
|------------------------|----------------|-------|----------------------|-------|----------------|-------|
| Approach               | Southwestbound |       | Northwestbound       |       | Southeastbound |       |
| Lane Configuration     |                |       |                      |       |                |       |
| Turning Movement       | Left           | Right | Thru                 | Right | Left           | Thru  |
| Lane Width [m]         | 11,20          | 11,20 | 5,00                 | 5,00  | 9,80           | 9,80  |
| No. of Lanes in Pocket | 0              | 0     | 0                    | 0     | 0              | 0     |
| Pocket Length [m]      | 30,48          | 30,48 | 30,48                | 30,48 | 30,48          | 30,48 |
| Speed [km/h]           | 60,00          |       | 60,00                |       | 60,00          |       |
| Grade [%]              | 0,00           |       | 0,00                 |       | 0,00           |       |
| Crosswalk              | Yes            |       | Yes                  |       | Yes            |       |

#### volumes

| Name                                    | JLT    |        | JI Mayjen Soekertijo |        | JI Panjaitan |        |
|---|--------|--------|----------------------|--------|--------------|--------|
| Base Volume Input [veh/h]               | 92     | 125    | 767                  | 169    | 93           | 340    |
| Base Volume Adjustment Factor           | 1,0000 | 1,0000 | 1,0000               | 1,0000 | 1,0000       | 1,0000 |
| Heavy Vehicles Percentage [%]           | 9,88   | 16,67  | 2,24                 | 14,89  | 2,81         | 2,83   |
| Growth Rate                             | 1,06   | 1,06   | 1,06                 | 1,06   | 1,06         | 1,06   |
| In-Process Volume [veh/h]               | 0      | 0      | 0                    | 0      | 0            | 0      |
| Site-Generated Trips [veh/h]            | 0      | 0      | 0                    | 0      | 0            | 0      |
| Diverted Trips [veh/h]                  | 0      | 0      | 0                    | 0      | 0            | 0      |
| Pass-by Trips [veh/h]                   | 0      | 0      | 0                    | 0      | 0            | 0      |
| Existing Site Adjustment Volume [veh/h] | 0      | 0      | 0                    | 0      | 0            | 0      |
| Other Volume [veh/h]                    | 0      | 0      | 0                    | 0      | 0            | 0      |
| Left-Turn on Red Volume [veh/h]         | 98     | 0      | 0                    | 0      | 99           | 0      |
| Total Hourly Volume [veh/h]             | 0      | 133    | 813                  | 179    | 0            | 360    |
| Peak Hour Factor                        | 1,0000 | 1,0000 | 1,0000               | 1,0000 | 1,0000       | 1,0000 |
| Other Adjustment Factor                 | 1,0000 | 1,0000 | 1,0000               | 1,0000 | 1,0000       | 1,0000 |
| Total 15-Minute Volume [veh/h]          | 0      | 33     | 203                  | 45     | 0            | 90     |
| Total Analysis Volume [veh/h]           | 0      | 133    | 813                  | 179    | 0            | 360    |
| Presence of On-Street Parking           | No     | No     | No                   | No     | No           | No     |
| On-Street Parking Maneuver Rate [/h]    | 0      | 0      | 0                    | 0      | 0            | 0      |
| Local Bus Stopping Rate [/h]            | 0      | 0      | 0                    | 0      | 0            | 0      |
| Pedestrian Volume [ped/h]               | 0      |        | 0                    |        | 0            |        |
| Bicycle Volume [bicycles/h]             | 0      |        | 0                    |        | 0            |        |

### Intersection Settings

|                           |              |  |  |  |  |  |
|---------------------------|--------------|--|--|--|--|--|
| Located in CBD            | Yes          |  |  |  |  |  |
| Signal Coordination Group | -            |  |  |  |  |  |
| Cycle Length [s]          | 90           |  |  |  |  |  |
| Coordination Type         | Free Running |  |  |  |  |  |
| Actuation Type            | Fixed time   |  |  |  |  |  |
| Offset [s]                | 0,0          |  |  |  |  |  |
| Offset Reference          | LeadGreen    |  |  |  |  |  |
| Permissive Mode           | SingleBand   |  |  |  |  |  |
| Lost time [s]             | 12,00        |  |  |  |  |  |

### Phasing & Timing

| Control Type                 | Permissive | Permissive | Permissive | Permissive | Permissive | Permissive |
|------------------------------|------------|------------|------------|------------|------------|------------|
| Signal group                 | 0          | 2          | 3          | 0          | 0          | 1          |
| Auxiliary Signal Groups      |            |            |            |            |            |            |
| Lead / Lag                   | -          | Lead       | -          | -          | -          | -          |
| Minimum Green [s]            | 0          | 10         | 10         | 0          | 0          | 10         |
| Maximum Green [s]            | 0          | 14         | 19         | 0          | 0          | 18         |
| Amber [s]                    | 0,0        | 2,0        | 2,0        | 0,0        | 0,0        | 2,0        |
| All red [s]                  | 0,0        | 2,0        | 2,0        | 0,0        | 0,0        | 2,0        |
| Split [s]                    | 0          | 0          | 0          | 0          | 0          | 0          |
| Vehicle Extension [s]        | 0,0        | 3,0        | 3,0        | 0,0        | 0,0        | 3,0        |
| Walk [s]                     | 0          | 5          | 5          | 0          | 0          | 5          |
| Pedestrian Clearance [s]     | 0          | 10         | 10         | 0          | 0          | 10         |
| I1, Start-Up Lost Time [s]   | 0,0        | 2,0        | 2,0        | 0,0        | 0,0        | 2,0        |
| I2, Clearance Lost Time [s]  | 0,0        | 2,0        | 2,0        | 0,0        | 0,0        | 2,0        |
| Minimum Recall               |            | No         | No         |            |            | No         |
| Maximum Recall               |            | No         | No         |            |            | No         |
| Pedestrian Recall            |            | No         | No         |            |            | No         |
| Detector Location [m]        | 0,0        | 0,0        | 0,0        | 0,0        | 0,0        | 0,0        |
| Detector Length [m]          | 0,0        | 0,0        | 0,0        | 0,0        | 0,0        | 0,0        |
| I, Upstream Filtering Factor | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       |

### Exclusive Pedestrian Phase

|                          |   |
|--------------------------|---|
| Pedestrian Signal Group  | 0 |
| Pedestrian Walk [s]      | 0 |
| Pedestrian Clearance [s] | 0 |

### Lane Group Calculations

| Lane Group                              | L    | R     | C     | R     | L    | C     |
|---|------|-------|-------|-------|------|-------|
| L, Total Lost Time per Cycle [s]        | 4,00 | 4,00  | 4,00  | 4,00  | 4,00 | 4,00  |
| I1_p, Permitted Start-Up Lost Time [s]  | 0,00 | 0,00  | 0,00  | 0,00  | 0,00 | 0,00  |
| I2, Clearance Lost Time [s]             | 2,00 | 2,00  | 2,00  | 2,00  | 2,00 | 2,00  |
| g_i, Effective Green Time [s]           | 14   | 14    | 19    | 19    | 18   | 18    |
| g / C, Green / Cycle                    | 0,16 | 0,16  | 0,21  | 0,21  | 0,20 | 0,20  |
| (v / s)_i Volume / Saturation Flow Rate | 0,00 | 0,05  | 0,25  | 0,12  | 0,00 | 0,11  |
| s, saturation flow rate [veh/h]         | 1376 | 2819  | 3312  | 1474  | 1470 | 3293  |
| c, Capacity [veh/h]                     | 214  | 439   | 699   | 311   | 294  | 659   |
| d1, Uniform Delay [s]                   | 0,00 | 33,68 | 35,50 | 31,88 | 0,00 | 32,34 |
| k, delay calibration                    | 0,50 | 0,50  | 0,50  | 0,50  | 0,50 | 0,50  |
| I, Upstream Filtering Factor            | 1,00 | 1,00  | 1,00  | 1,00  | 1,00 | 1,00  |
| d2, Incremental Delay [s]               | 0,00 | 1,78  | 88,48 | 7,53  | 0,00 | 3,24  |
| d3, Initial Queue Delay [s]             | 0,00 | 0,00  | 0,00  | 0,00  | 0,00 | 0,00  |
| Rp, platoon ratio                       | 1,00 | 1,00  | 1,00  | 1,00  | 1,00 | 1,00  |
| PF, progression factor                  | 1,00 | 1,00  | 1,00  | 1,00  | 1,00 | 1,00  |

### Lane Group Results

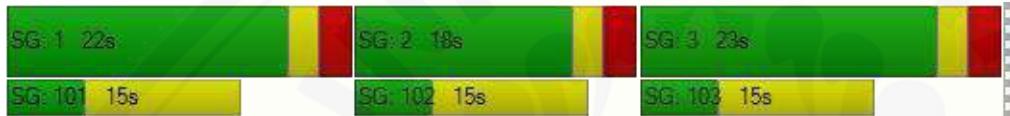
|                                    |      |       |        |       |      |       |
|------------------------------------|------|-------|--------|-------|------|-------|
| X, volume / capacity               | 0,00 | 0,30  | 1,16   | 0,58  | 0,00 | 0,55  |
| d, Delay for Lane Group [s/veh]    | 0,00 | 35,45 | 123,98 | 39,41 | 0,00 | 35,58 |
| Lane Group LOS                     | A    | D     | F      | D     | A    | D     |
| Critical Lane Group                | No   | Yes   | Yes    | No    | No   | Yes   |
| 50th-Percentile Queue Length [veh] | 0,00 | 1,36  | 15,91  | 4,01  | 0,00 | 3,69  |
| 50th-Percentile Queue Length [m]   | 0,00 | 10,34 | 121,22 | 30,59 | 0,00 | 28,11 |
| 95th-Percentile Queue Length [veh] | 0,00 | 2,44  | 24,24  | 7,23  | 0,00 | 6,64  |
| 95th-Percentile Queue Length [m]   | 0,00 | 18,62 | 184,68 | 55,06 | 0,00 | 50,60 |

### Movement, Approach, & Intersection Results

|                                 |       |       |        |       |       |       |
|---------------------------------|-------|-------|--------|-------|-------|-------|
| d_M, Delay for Movement [s/veh] | 0,00  | 35,45 | 123,98 | 39,41 | 0,00  | 35,58 |
| Movement LOS                    | A     | D     | F      | D     | A     | D     |
| d_A, Approach Delay [s/veh]     | 35,45 |       | 108,72 |       | 35,58 |       |
| Approach LOS                    | D     |       | F      |       | D     |       |
| d_I, Intersection Delay [s/veh] |       |       | 84,43  |       |       |       |
| Intersection LOS                |       |       | F      |       |       |       |
| Intersection V/C                |       |       | 0,464  |       |       |       |

### Sequence

|        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ring 1 | 1 | 2 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ring 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ring 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ring 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |



SG 1 22s      SG 2 18s      SG 3 23s

SG 101 15s

SG 102 15s

SG 103 15s

SG 100 15s

SG 104 15s

SG 105 15s

SG 106 15s

SG 107 15s

SG 108 15s

SG 109 15s

SG 110 15s

SG 111 15s

SG 112 15s

SG 113 15s

SG 114 15s

SG 115 15s

SG 116 15s

SG 117 15s

SG 118 15s

SG 119 15s

SG 120 15s

SG 121 15s

SG 122 15s

SG 123 15s

SG 124 15s

SG 125 15s

SG 126 15s

SG 127 15s

SG 128 15s

SG 129 15s

SG 130 15s

SG 131 15s

SG 132 15s

SG 133 15s

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SG 313 15s

SG 314 15s

SG 315 15s

SG 316 15s

SG 317 15s

SG 318 15s

SG 319 15s

SG 320 15s

SG 321 15s

SG 322 15s

SG 323 15s

SG 324 15s

SG 325 15s

SG 326 15s

SG 327 15s

SG 328 15s

SG 329 15s

## Intersection Level Of Service Report

### Intersection 7: Simpang Yosowilangun

Control Type: Signalized  
 Analysis Method: HCM 2010  
 Analysis Period: 15 minutes

Delay (sec / veh): 86,1  
 Level Of Service: F  
 Volume to Capacity (v/c): 0,663

#### Intersection Setup

| Name                   | JI Mayjen Soerkertijo |       | JI Mayjen Soekertijo |       | JI PB Sudirman |       |
|------------------------|-----------------------|-------|----------------------|-------|----------------|-------|
| Approach               | Northbound            |       | Southbound           |       | Eastbound      |       |
| Lane Configuration     |                       |       |                      |       |                |       |
| Turning Movement       | Left                  | Thru  | Thru                 | Right | Left           | Right |
| Lane Width [m]         | 4,40                  | 4,40  | 3,20                 | 3,20  | 8,80           | 8,80  |
| No. of Lanes in Pocket | 0                     | 0     | 0                    | 0     | 0              | 0     |
| Pocket Length [m]      | 30,48                 | 30,48 | 30,48                | 30,48 | 30,48          | 30,48 |
| Speed [km/h]           | 60,00                 |       | 60,00                |       | 60,00          |       |
| Grade [%]              | 0,00                  |       | 0,00                 |       | 0,00           |       |
| Crosswalk              | Yes                   |       | Yes                  |       | Yes            |       |

#### volumes

| Name                                    | JI Mayjen Soerkertijo |        | JI Mayjen Soekertijo |        | JI PB Sudirman |        |
|---|-----------------------|--------|----------------------|--------|----------------|--------|
| Base Volume Input [veh/h]               | 273                   | 395    | 376                  | 132    | 144            | 272    |
| Base Volume Adjustment Factor           | 1,0000                | 1,0000 | 1,0000               | 1,0000 | 1,0000         | 1,0000 |
| Heavy Vehicles Percentage [%]           | 5,69                  | 9,08   | 9,21                 | 5,78   | 4,53           | 7,17   |
| Growth Rate                             | 1,06                  | 1,06   | 1,06                 | 1,06   | 1,06           | 1,06   |
| In-Process Volume [veh/h]               | 0                     | 0      | 0                    | 0      | 0              | 0      |
| Site-Generated Trips [veh/h]            | 0                     | 0      | 0                    | 0      | 0              | 0      |
| Diverted Trips [veh/h]                  | 0                     | 0      | 0                    | 0      | 0              | 0      |
| Pass-by Trips [veh/h]                   | 0                     | 0      | 0                    | 0      | 0              | 0      |
| Existing Site Adjustment Volume [veh/h] | 0                     | 0      | 0                    | 0      | 0              | 0      |
| Other Volume [veh/h]                    | 0                     | 0      | 0                    | 0      | 0              | 0      |
| Left-Turn on Red Volume [veh/h]         | 0                     | 0      | 0                    | 0      | 0              | 0      |
| Total Hourly Volume [veh/h]             | 289                   | 419    | 399                  | 140    | 153            | 288    |
| Peak Hour Factor                        | 1,0000                | 1,0000 | 1,0000               | 1,0000 | 1,0000         | 1,0000 |
| Other Adjustment Factor                 | 1,0000                | 1,0000 | 1,0000               | 1,0000 | 1,0000         | 1,0000 |
| Total 15-Minute Volume [veh/h]          | 72                    | 105    | 100                  | 35     | 38             | 72     |
| Total Analysis Volume [veh/h]           | 289                   | 419    | 399                  | 140    | 153            | 288    |
| Presence of On-Street Parking           | No                    | No     | No                   | No     | No             | No     |
| On-Street Parking Maneuver Rate [/h]    | 0                     | 0      | 0                    | 0      | 0              | 0      |
| Local Bus Stopping Rate [/h]            | 0                     | 0      | 0                    | 0      | 0              | 0      |
| Pedestrian Volume [ped/h]               | 0                     |        | 0                    |        | 0              |        |
| Bicycle Volume [bicycles/h]             | 0                     |        | 0                    |        | 0              |        |

### Intersection Settings

|                           |              |  |  |  |  |  |
|---------------------------|--------------|--|--|--|--|--|
| Located in CBD            | Yes          |  |  |  |  |  |
| Signal Coordination Group | -            |  |  |  |  |  |
| Cycle Length [s]          | 90           |  |  |  |  |  |
| Coordination Type         | Free Running |  |  |  |  |  |
| Actuation Type            | Fixed time   |  |  |  |  |  |
| Offset [s]                | 0,0          |  |  |  |  |  |
| Offset Reference          | LeadGreen    |  |  |  |  |  |
| Permissive Mode           | SingleBand   |  |  |  |  |  |
| Lost time [s]             | 12,00        |  |  |  |  |  |

### Phasing & Timing

| Control Type                 | Permissive | Permissive | Permissive | Permissive | Permissive | Permissive |
|------------------------------|------------|------------|------------|------------|------------|------------|
| Signal group                 | 0          | 1          | 3          | 0          | 0          | 2          |
| Auxiliary Signal Groups      |            |            |            |            |            |            |
| Lead / Lag                   | -          | -          | -          | -          | -          | Lead       |
| Minimum Green [s]            | 0          | 10         | 10         | 0          | 0          | 10         |
| Maximum Green [s]            | 0          | 20         | 19         | 0          | 0          | 13         |
| Amber [s]                    | 0,0        | 2,0        | 2,0        | 0,0        | 0,0        | 2,0        |
| All red [s]                  | 0,0        | 2,0        | 2,0        | 0,0        | 0,0        | 2,0        |
| Split [s]                    | 0          | 0          | 0          | 0          | 0          | 0          |
| Vehicle Extension [s]        | 0,0        | 3,0        | 3,0        | 0,0        | 0,0        | 3,0        |
| Walk [s]                     | 0          | 5          | 5          | 0          | 0          | 5          |
| Pedestrian Clearance [s]     | 0          | 10         | 10         | 0          | 0          | 10         |
| I1, Start-Up Lost Time [s]   | 0,0        | 2,0        | 2,0        | 0,0        | 0,0        | 2,0        |
| I2, Clearance Lost Time [s]  | 0,0        | 2,0        | 2,0        | 0,0        | 0,0        | 2,0        |
| Minimum Recall               |            | No         | No         |            |            | No         |
| Maximum Recall               |            | No         | No         |            |            | No         |
| Pedestrian Recall            |            | No         | No         |            |            | No         |
| Detector Location [m]        | 0,0        | 0,0        | 0,0        | 0,0        | 0,0        | 0,0        |
| Detector Length [m]          | 0,0        | 0,0        | 0,0        | 0,0        | 0,0        | 0,0        |
| I, Upstream Filtering Factor | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       |

### Exclusive Pedestrian Phase

|                          |   |  |  |  |  |  |
|--------------------------|---|--|--|--|--|--|
| Pedestrian Signal Group  | 0 |  |  |  |  |  |
| Pedestrian Walk [s]      | 0 |  |  |  |  |  |
| Pedestrian Clearance [s] | 0 |  |  |  |  |  |

## Lane Group Calculations

| Lane Group                              | C     | C     | C     | C     | C     | R     |
|---|-------|-------|-------|-------|-------|-------|
| L, Total Lost Time per Cycle [s]        | 4,00  | 4,00  | 4,00  | 4,00  | 4,00  | 4,00  |
| I1_p, Permitted Start-Up Lost Time [s]  | 0,00  | 0,00  | 0,00  | 0,00  | 0,00  | 0,00  |
| I2, Clearance Lost Time [s]             | 2,00  | 2,00  | 2,00  | 2,00  | 2,00  | 2,00  |
| g_i, Effective Green Time [s]           | 20    | 20    | 19    | 19    | 13    | 13    |
| g / C, Green / Cycle                    | 0,22  | 0,22  | 0,21  | 0,21  | 0,14  | 0,14  |
| (v / s)_i Volume / Saturation Flow Rate | 0,25  | 0,22  | 0,18  | 0,18  | 0,14  | 0,14  |
| s, saturation flow rate [veh/h]         | 1425  | 1630  | 1425  | 1528  | 1492  | 1580  |
| c, Capacity [veh/h]                     | 317   | 362   | 301   | 322   | 216   | 228   |
| d1, Uniform Delay [s]                   | 35,00 | 34,77 | 34,24 | 34,28 | 38,46 | 38,46 |
| k, delay calibration                    | 0,50  | 0,50  | 0,50  | 0,50  | 0,50  | 0,50  |
| I, Upstream Filtering Factor            | 1,00  | 1,00  | 1,00  | 1,00  | 1,00  | 1,00  |
| d2, Incremental Delay [s]               | 86,20 | 41,87 | 26,34 | 25,49 | 59,80 | 57,90 |
| d3, Initial Queue Delay [s]             | 0,00  | 0,00  | 0,00  | 0,00  | 0,00  | 0,00  |
| Rp, platoon ratio                       | 1,00  | 1,00  | 1,00  | 1,00  | 1,00  | 1,00  |
| PF, progression factor                  | 1,00  | 1,00  | 1,00  | 1,00  | 1,00  | 1,00  |

## Lane Group Results

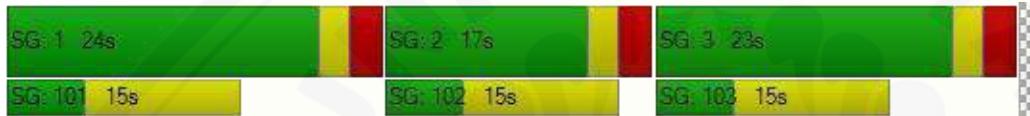
|                                    |        |        |       |       |       |        |
|------------------------------------|--------|--------|-------|-------|-------|--------|
| X, volume / capacity               | 1,12   | 0,98   | 0,86  | 0,87  | 0,99  | 0,99   |
| d, Delay for Lane Group [s/veh]    | 121,20 | 76,64  | 60,58 | 59,77 | 98,26 | 96,36  |
| Lane Group LOS                     | F      | E      | E     | E     | F     | F      |
| Critical Lane Group                | Yes    | No     | No    | Yes   | Yes   | No     |
| 50th-Percentile Queue Length [veh] | 14,19  | 11,55  | 7,44  | 7,93  | 8,13  | 8,48   |
| 50th-Percentile Queue Length [m]   | 108,14 | 88,03  | 56,68 | 60,43 | 61,92 | 64,65  |
| 95th-Percentile Queue Length [veh] | 21,59  | 17,13  | 11,91 | 12,55 | 12,80 | 13,26  |
| 95th-Percentile Queue Length [m]   | 164,55 | 130,50 | 90,76 | 95,63 | 97,55 | 101,05 |

### Movement, Approach, & Intersection Results

|                                 |        |       |       |       |       |       |
|---------------------------------|--------|-------|-------|-------|-------|-------|
| d_M, Delay for Movement [s/veh] | 121,20 | 83,55 | 60,30 | 59,77 | 98,26 | 96,79 |
| Movement LOS                    | F      | F     | E     | E     | F     | F     |
| d_A, Approach Delay [s/veh]     | 98,92  |       | 60,16 |       | 97,29 |       |
| Approach LOS                    | F      |       | E     |       | F     |       |
| d_I, Intersection Delay [s/veh] |        | 86,12 |       |       |       |       |
| Intersection LOS                |        | F     |       |       |       |       |
| Intersection V/C                |        | 0,663 |       |       |       |       |

### Sequence

|        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ring 1 | 1 | 2 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ring 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ring 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ring 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |



## Intersection Level Of Service Report

### Intersection 8: Simpang Tempeh

|                  |            |                           |       |
|------------------|------------|---------------------------|-------|
| Control Type:    | Signalized | Delay (sec / veh):        | 77,1  |
| Analysis Method: | HCM 2010   | Level Of Service:         | E     |
| Analysis Period: | 15 minutes | Volume to Capacity (v/c): | 0,588 |

#### Intersection Setup

| Name                   | JI Slamet Wardoyo |       | JI PB Sudirman |       | JI Raya Tempeh |       |
|------------------------|-------------------|-------|----------------|-------|----------------|-------|
| Approach               | Southbound        |       | Westbound      |       | Northeastbound |       |
| Lane Configuration     |                   |       |                |       |                |       |
| Turning Movement       | Left              | Thru  | Thru           | Right | Thru           | Right |
| Lane Width [m]         | 3,50              | 3,50  | 3,40           | 3,40  | 3,10           | 3,10  |
| No. of Lanes in Pocket | 0                 | 0     | 0              | 0     | 0              | 0     |
| Pocket Length [m]      | 30,48             | 30,48 | 30,48          | 30,48 | 30,48          | 30,48 |
| Speed [km/h]           | 60,00             |       | 60,00          |       | 60,00          |       |
| Grade [%]              | 0,00              |       | 0,00           |       | 0,00           |       |
| Crosswalk              | Yes               |       | Yes            |       | Yes            |       |

#### volumes

| Name                                    | JI Slamet Wardoyo |        | JI PB Sudirman |        | JI Raya Tempeh |        |
|---|-------------------|--------|----------------|--------|----------------|--------|
| Base Volume Input [veh/h]               | 326               | 456    | 213            | 353    | 271            | 74     |
| Base Volume Adjustment Factor           | 1,0000            | 1,0000 | 1,0000         | 1,0000 | 1,0000         | 1,0000 |
| Heavy Vehicles Percentage [%]           | 4,35              | 11,64  | 5,50           | 3,65   | 7,62           | 5,94   |
| Growth Rate                             | 1,06              | 1,06   | 1,06           | 1,06   | 1,06           | 1,06   |
| In-Process Volume [veh/h]               | 0                 | 0      | 0              | 0      | 0              | 0      |
| Site-Generated Trips [veh/h]            | 0                 | 0      | 0              | 0      | 0              | 0      |
| Diverted Trips [veh/h]                  | 0                 | 0      | 0              | 0      | 0              | 0      |
| Pass-by Trips [veh/h]                   | 0                 | 0      | 0              | 0      | 0              | 0      |
| Existing Site Adjustment Volume [veh/h] | 0                 | 0      | 0              | 0      | 0              | 0      |
| Other Volume [veh/h]                    | 0                 | 0      | 0              | 0      | 0              | 0      |
| Left-Turn on Red Volume [veh/h]         | 0                 | 0      | 0              | 0      | 0              | 0      |
| Total Hourly Volume [veh/h]             | 346               | 483    | 226            | 374    | 287            | 78     |
| Peak Hour Factor                        | 1,0000            | 1,0000 | 1,0000         | 1,0000 | 1,0000         | 1,0000 |
| Other Adjustment Factor                 | 1,0000            | 1,0000 | 1,0000         | 1,0000 | 1,0000         | 1,0000 |
| Total 15-Minute Volume [veh/h]          | 87                | 121    | 57             | 94     | 72             | 20     |
| Total Analysis Volume [veh/h]           | 346               | 483    | 226            | 374    | 287            | 78     |
| Presence of On-Street Parking           | No                | No     | No             | No     | No             | No     |
| On-Street Parking Maneuver Rate [/h]    | 0                 | 0      | 0              | 0      | 0              | 0      |
| Local Bus Stopping Rate [/h]            | 0                 | 0      | 0              | 0      | 0              | 0      |
| Pedestrian Volume [ped/h]               | 0                 |        | 0              |        | 0              |        |
| Bicycle Volume [bicycles/h]             | 0                 |        | 0              |        | 0              |        |

### Intersection Settings

|                           |              |  |  |  |  |  |
|---------------------------|--------------|--|--|--|--|--|
| Located in CBD            | Yes          |  |  |  |  |  |
| Signal Coordination Group | -            |  |  |  |  |  |
| Cycle Length [s]          | 90           |  |  |  |  |  |
| Coordination Type         | Free Running |  |  |  |  |  |
| Actuation Type            | Fixed time   |  |  |  |  |  |
| Offset [s]                | 0,0          |  |  |  |  |  |
| Offset Reference          | LeadGreen    |  |  |  |  |  |
| Permissive Mode           | SingleBand   |  |  |  |  |  |
| Lost time [s]             | 12,00        |  |  |  |  |  |

### Phasing & Timing

| Control Type                 | Permissive | Permissive | Permissive | Permissive | Permissive | Permissive |
|------------------------------|------------|------------|------------|------------|------------|------------|
| Signal group                 | 0          | 1          | 2          | 0          | 3          | 0          |
| Auxiliary Signal Groups      |            |            |            |            |            |            |
| Lead / Lag                   | -          | -          | -          | -          | -          | -          |
| Minimum Green [s]            | 0          | 10         | 10         | 0          | 10         | 0          |
| Maximum Green [s]            | 0          | 18         | 13         | 0          | 18         | 0          |
| Amber [s]                    | 0,0        | 3,0        | 3,0        | 0,0        | 3,0        | 0,0        |
| All red [s]                  | 0,0        | 2,0        | 2,0        | 0,0        | 2,0        | 0,0        |
| Split [s]                    | 0          | 0          | 0          | 0          | 0          | 0          |
| Vehicle Extension [s]        | 0,0        | 3,0        | 3,0        | 0,0        | 3,0        | 0,0        |
| Walk [s]                     | 0          | 5          | 5          | 0          | 5          | 0          |
| Pedestrian Clearance [s]     | 0          | 10         | 10         | 0          | 10         | 0          |
| I1, Start-Up Lost Time [s]   | 0,0        | 2,0        | 2,0        | 0,0        | 2,0        | 0,0        |
| I2, Clearance Lost Time [s]  | 0,0        | 3,0        | 3,0        | 0,0        | 3,0        | 0,0        |
| Minimum Recall               |            | No         | No         |            | No         |            |
| Maximum Recall               |            | No         | No         |            | No         |            |
| Pedestrian Recall            |            | No         | No         |            | No         |            |
| Detector Location [m]        | 0,0        | 0,0        | 0,0        | 0,0        | 0,0        | 0,0        |
| Detector Length [m]          | 0,0        | 0,0        | 0,0        | 0,0        | 0,0        | 0,0        |
| I, Upstream Filtering Factor | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       | 1,00       |

### Exclusive Pedestrian Phase

|                          |   |  |  |  |  |  |
|--------------------------|---|--|--|--|--|--|
| Pedestrian Signal Group  | 0 |  |  |  |  |  |
| Pedestrian Walk [s]      | 0 |  |  |  |  |  |
| Pedestrian Clearance [s] | 0 |  |  |  |  |  |

### Lane Group Calculations

| Lane Group                              | L      | C     | C     | R     | C     | C     |
|---|--------|-------|-------|-------|-------|-------|
| L, Total Lost Time per Cycle [s]        | 5,00   | 5,00  | 5,00  | 5,00  | 5,00  | 5,00  |
| I1_p, Permitted Start-Up Lost Time [s]  | 0,00   | 0,00  | 0,00  | 0,00  | 0,00  | 0,00  |
| I2, Clearance Lost Time [s]             | 3,00   | 3,00  | 3,00  | 3,00  | 3,00  | 3,00  |
| g_i, Effective Green Time [s]           | 18     | 18    | 13    | 13    | 18    | 18    |
| g / C, Green / Cycle                    | 0,20   | 0,20  | 0,14  | 0,14  | 0,20  | 0,20  |
| (v / s)_i Volume / Saturation Flow Rate | 0,25   | 0,17  | 0,14  | 0,12  | 0,12  | 0,12  |
| s, saturation flow rate [veh/h]         | 1393   | 2916  | 1621  | 3051  | 1446  | 1557  |
| c, Capacity [veh/h]                     | 279    | 583   | 234   | 441   | 289   | 311   |
| d1, Uniform Delay [s]                   | 36,00  | 34,52 | 38,28 | 37,54 | 32,77 | 32,80 |
| k, delay calibration                    | 0,50   | 0,50  | 0,50  | 0,50  | 0,50  | 0,50  |
| I, Upstream Filtering Factor            | 1,00   | 1,00  | 1,00  | 1,00  | 1,00  | 1,00  |
| d2, Incremental Delay [s]               | 135,54 | 12,76 | 50,51 | 18,08 | 9,08  | 8,62  |
| d3, Initial Queue Delay [s]             | 0,00   | 0,00  | 0,00  | 0,00  | 0,00  | 0,00  |
| Rp, platoon ratio                       | 1,00   | 1,00  | 1,00  | 1,00  | 1,00  | 1,00  |
| PF, progression factor                  | 1,00   | 1,00  | 1,00  | 1,00  | 1,00  | 1,00  |

### Lane Group Results

|                                    |        |       |       |       |       |       |
|------------------------------------|--------|-------|-------|-------|-------|-------|
| X, volume / capacity               | 1,24   | 0,83  | 0,97  | 0,85  | 0,61  | 0,61  |
| d, Delay for Lane Group [s/veh]    | 171,54 | 47,28 | 88,78 | 55,63 | 41,85 | 41,42 |
| Lane Group LOS                     | F      | D     | F     | E     | D     | D     |
| Critical Lane Group                | Yes    | No    | Yes   | No    | No    | Yes   |
| 50th-Percentile Queue Length [veh] | 16,33  | 5,89  | 8,06  | 4,98  | 4,07  | 4,38  |
| 50th-Percentile Queue Length [m]   | 124,47 | 44,90 | 61,40 | 37,95 | 31,03 | 33,36 |
| 95th-Percentile Queue Length [veh] | 25,45  | 9,87  | 12,71 | 8,64  | 7,33  | 7,81  |
| 95th-Percentile Queue Length [m]   | 193,94 | 75,23 | 96,87 | 65,84 | 55,85 | 59,50 |

### Movement, Approach, & Intersection Results

|                                 |        |       |       |       |       |       |
|---------------------------------|--------|-------|-------|-------|-------|-------|
| d_M, Delay for Movement [s/veh] | 171,54 | 47,28 | 88,78 | 55,63 | 41,68 | 41,42 |
| Movement LOS                    | F      | D     | F     | E     | D     | D     |
| d_A, Approach Delay [s/veh]     | 99,14  |       | 68,11 |       | 41,63 |       |
| Approach LOS                    | F      |       | E     |       | D     |       |
| d_I, Intersection Delay [s/veh] |        | 77,06 |       |       |       |       |
| Intersection LOS                |        | E     |       |       |       |       |
| Intersection V/C                |        | 0,588 |       |       |       |       |

### Sequence

|        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ring 1 | 1 | 2 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ring 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ring 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ring 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |



## Turning Movement Volume: Summary

| ID | Intersection Name   | Northeastbound |       | Southwestbound |      | Northwestbound |       | Total Volume |
|----|---------------------|----------------|-------|----------------|------|----------------|-------|--------------|
|    |                     | Thru           | Right | Left           | Thru | Left           | Right |              |
| 1  | Simpang Randu Agung | 519            | 38    | 145            | 770  | 70             | 103   | 1645         |

| ID | Intersection Name     | Northbound |       | Southbound |      | Northwestbound |      | Total Volume |
|----|-----------------------|------------|-------|------------|------|----------------|------|--------------|
|    |                       | Thru       | Right | Left       | Thru | Left           | Thru |              |
| 2  | Simpang Kedung Jajang | 400        | 1     | 250        | 475  | 1              | 219  | 1346         |

| ID | Intersection Name | Northbound |       | Southbound |      | Westbound |       | Total Volume |
|----|-------------------|------------|-------|------------|------|-----------|-------|--------------|
|    |                   | Thru       | Right | Left       | Thru | Left      | Right |              |
| 3  | Simpang Wonorejo  | 529        | 138   | 165        | 697  | 222       | 166   | 1917         |

| ID | Intersection Name           | Southbound |       | Eastbound |      | Westbound |       | Total Volume |
|----|-----------------------------|------------|-------|-----------|------|-----------|-------|--------------|
|    |                             | Left       | Right | Left      | Thru | Thru      | Right |              |
| 4  | Simpang Wonorejo Alternatif | 259        | 49    | 28        | 196  | 338       | 156   | 1026         |

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| ID | Intersection Name | Northbound |       | Northwestbound |      | Southeastbound |       | Total Volume |
|----|-------------------|------------|-------|----------------|------|----------------|-------|--------------|
|    |                   | Left       | Right | Left           | Thru | Thru           | Right |              |
| 5  | Simpang JLT Yeye  | 157        | 131   | 254            | 312  | 435            | 98    | 1387         |

| ID | Intersection Name | Southwestbound |       | Northwestbound |       | Southeastbound |      | Total Volume |
|----|-------------------|----------------|-------|----------------|-------|----------------|------|--------------|
|    |                   | Left           | Right | Thru           | Right | Left           | Thru |              |
| 6  | Simpang JLT Tukum | 98             | 133   | 813            | 179   | 99             | 360  | 1682         |

| ID | Intersection Name    | Northbound |      | Southbound |       | Eastbound |       | Total Volume |
|----|----------------------|------------|------|------------|-------|-----------|-------|--------------|
|    |                      | Left       | Thru | Thru       | Right | Left      | Right |              |
| 7  | Simpang Yosowilangun | 289        | 419  | 399        | 140   | 153       | 288   | 1688         |

| ID | Intersection Name | Southbound |      | Westbound |       | Northeastbound |       | Total Volume |
|----|-------------------|------------|------|-----------|-------|----------------|-------|--------------|
|    |                   | Left       | Thru | Thru      | Right | Thru           | Right |              |
| 8  | Simpang Tempeh    | 346        | 483  | 226       | 374   | 287            | 78    | 1794         |