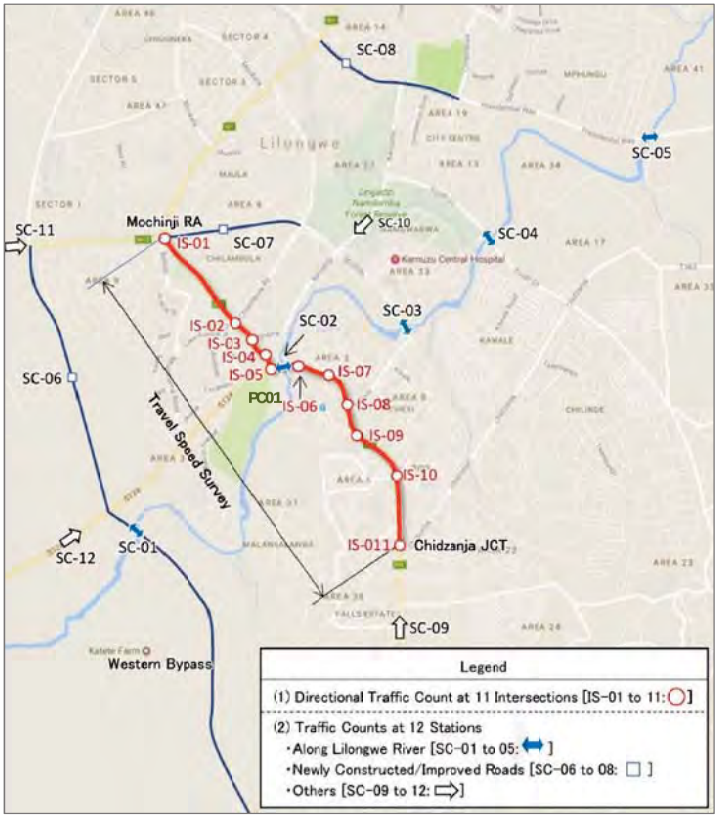
## 5. 収集資料リスト

| 番号 | 資 料 の 名 称 | 発行機関 | 発行年 |
|---|---|---|---|
| 1 | FINAL DESIGN REVIEW REPORT SOIL AND MATERIALS<br>CONSTRUCTION OF LILONGWE WESTERN BY PASS ROAD | ROADS AUTHORITY | Dec. 2011 |
| 2 | COST ESTIMATE, VOLUME 1 : BIDDING DOCUMENT<br>CONSTRUCTION OF LILONGWE WESTERN BY PASS ROAD | ROADS AUTHORITY | Mar. 2011 |
| 4 | VOLUME 2 : DRAWINGS<br>CONSTRUCTION OF LILONGWE WESTERN BY PASS ROAD | ROADS AUTHORITY | Jan. 2012 |
| 5 | MALAWI NATIONAL LAND POLICY | Ministry of Lands<br>Physical Planning Surveys | Jan. 2002 |
| 6 | TOWN AND COUNTRY PLANNING GUIDELINES AND STANDARDS | Office of President Cabinet Town and Country Planning Department | Mar. 1987 |
| 7 | LILONGWE OUTLINE ZONING SCHEME | Office of the President and cabinet | Sep. 1986 |
| 8 | BY-LAW OF BUILDING STANDARDS | Lilongwe city council | - |
| 9 | DEVELOPMENT CONTROL PROCEDURES FOR LILONGWE CITY | Housing and Planning Department | Nov. 1993 |
| 10 | APPLICATION FOR PERMISSION TO DEVELOP OR TO SUB-DIVIDED LAND | Office of the Président and Cabinet | Sep. 1991 |
| 11 | LILONGWE CITY COUNCIL APPLICAION TO BUILD UNDER BY-LAW 38 | Lilongwe city council | - |
| 12 | BUILDING HEIGHT STANDARDS FOR THE CITY OF LILONGWE | Lilongwe City council | Apr. 2013 |
| 13 | NATIONAL BUILDING REGULATION | Office of the Président and Cabinet | - |
| 14 | PHYSICAL PLANNING BILL | Ministry of Lands, Housing and Urban Development | 2011 |
| 15 | CURRENT PLANNING AND DEVELOPMENT PROCESS AT LOCAL AUTHORITY LEVEL | Ministry of Lands, Housing and Urban Development | 2009 |
| 16 | UN-HABITAT LILONGWE URBAN PROFILE | Ministry of Lands, Housing and Urban Development | 2011 |
| 17 | UN-HABITAT, URBAN HOUSING SECTOR PROFILE | Ministry of Lands, Housing and Urban Development | 2009 |
| 18 | UN-HABITAT, COUNTRYM PROGRAMME DOCUMENT HOUSING SECTOR PROFILE | United Nations Human Settlement Program | 2008-2009 |
| 19 | COUNTRY STUDY ON THE EXPERIENCE OF STRATEGIC BY URBAN LOCAL AUTHORITIES IN MALAWI | City Planning &Estates Manager | June 1999 |
| 20 | MINIMUM BUILDING HEIGHT STANDARDS FOR DEVELOPMENT 2013 | Ministry of Lands, Housing and Urban Development | Aug. 2009 |
| 21 | TRAFFIC SIGNS GUIDE MW | WORLD BANK | May. 2014 |
| 22 | GUIDELINES FOR ENVIRONMENTAL IMPACT ASSESSMENT | Environmental Affairs Department Ministry of Natural Resources, Energy and Environmental Affairs | December, 2007 |
| 23 | ADDENDUM TO SATCC CODE OF PRACTICE FOR THE GEOMETRIC DESIGN OF TRUNK ROADS | ROADS AUTHORITY | March 2015 |
| 24 | STRATEGIC AND BUSINESS PLAN | ROADS AUTHORITY | November 2017 |
| 25 | MALAWI NATIONAL TRANSPORT MASTER PLAN | WORLD BANK | 2018 |

## Appendix: Traffic Survey Results

### 1. TRAFFIC SURVEY ITEMS AND LOCATION POINTS




(1) Directional traffic counts at 11 intersections [IS-01 ~ 11]

- Number of Locations: 11
- Survey Day: One weekday at each intersection. Survey days will be confirmed by the Client upon a proposal of the Contractor. Survey shall be conducted on the typical week day and not necessary to be the same day at once.
- Survey Hours: 3hours in the morning (6:40-9:40 am) and 3 hours in the evening (3:30 – 6:30 pm)
- Type of Vehicle: 4 types (Motorcycle, Minibus, Light Vehicle, Heavy Vehicle)

(2) Traffic Counts at 12 stations [SC-01~12]

- Number of Locations: 12





Appendix: Traffic Survey Results

  - ➢ Along Lilongwe River [SC-01 to 05]
  - ➢ Newly Constructed/Improved Roads [SC-06 to 08]
  - ➢ Others [SC-09 to 12]
- Survey Days: One weekday at each 11 Locations. Seven (7) continuous days survey and one day in 2018 at SC-02
- Survey Hours: 12 hours (7am-7pm) at 11 locations [SC01,SC03-12].
  24 hours (7am-7am next day) at SC02 on two (2) days
  and 12 hours(7am-7pm) on six (6) days
- Type of Vehicle: 9 types

I. Motorcycle: 1.Motorcycle/Motorcycle Trailer[Integrated]

II. Light Vehicle: 2. Tuk-tuk (Tricycle), 3.Saloon/Pickup, 4.Minibus (Red number plate wagon), 5. Wagon[Divided], 6.Light Truck,

III. Heavy Vehicle: 7.Bus, 8.Medium Heavy Truck, 9.Heavy and Full Trailer Truck

(3) Queue length survey for 6 directions [QL-01~06]

- Number of Locations: 6
- Survey Day: One weekday at the same day as intersection survey of queue heading.
- Survey Hours: 3 hours in the morning (6:40 -9:40 am) and 3 hours in the evening (3:30- 6:30pm)
- Record the longest distance from heading intersection every 10 minutes.

(4) Travel speed survey between Mchinji Roundabout and Chizanja Junction [TS]

- Number of Survey Routes: 1
- Survey Length: 5.8 km
- Survey Day: One weekday
- Survey Hours: 12 hours(6:45am-7pm)
- Survey Times: 1 round trip an hour

(5) Pedestrian and Non-motorized Vehicle Counts on the Road [PC-01~05]

- Number of Locations: 5(2 directions along the road and crossing the road each)
- Survey Day: One weekday
- Survey Hours: 12hours at the bridge (SC02), other 4 locations for 6 hours (6:40 -9:40 am and 3:30 – 6:30 pm)

(6) Axle load survey [AL]

- Number of Locations: 1
- Random Sampling of 200 heavy trucks

## 2. TRAINING

Prior to conducting the survey, all surveyors were brought in for induction and training during the 14th and 15th November.

Initial training consisted of a virtual traffic survey, where the surveyors were put into groups and were made to watch a pre-recorded video of the Lilongwe traffic. After which, figures were compared between groups, once satisfactory results were achieved, practical training was carried out in the same group format.

Surveyors were selected based on the results on each training survey, whereas supervisors were preselected by their ability to communicate easily and lead a team.

Training in the Class

Preparing for Field Surveys

Trial Survey in the Field

Trial Survey in the Field





Traffic Counting

Roll call and Instruction in the Field

Road Side Counting (1)

Road Side Counting (2)

Road Side Counting (3)

Inter Section Traffic Count (1)

Inter Section Traffic Count (2)

Inter Section Traffic Count (3)

Survey at Night

Measuring Queue Length

Length from Intersection Marked for Queue Length Survey







## 3. SURVEY RESULTS

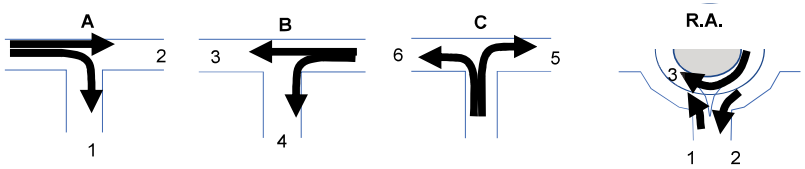

- **INTERSECTION SURVEY** 7
- **TRAFFIC COUNT** 53
- **QUEUE LENGTH SURVEY** 96
- **TRAVEL SPEED SURVEY** 103
- **PEDESTRIAN AND NON MOTORIZED VEHICLE COUNT** 116
- **AXLE LOAD SURVEY** 125

# INTERSECTION SURVEY

## IS 01 – IS 11

21/11/2017 – 22/11/2017

Intersection Survey consisted of counting the number and type of vehicle that passed a given intersection in a certain direction. Each intersection excluding roundabouts had three stations to survey the direction and type of traffic through the station. Survey was conducted for 6 hours, 6:40-9:40am & 3:30-6:30pm. Below are the type of vehicles and the type of directions recorded.




Type of vehicles surveyed:

**- Motorbike/TukTuk** **- Minibus** **- Light Vehicle** **- Heavy Truck**

A-171

DATE 21/11/2017
LOCATION IS01
STATION A

GEOCONSULT

| DIRECTION 1 | | | | | DIRECTION 2 | | | | | DIRECTION 3 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
| 6:30 - 6:40 | 0 | 14 | 18 | 0 | 6:30 - 6:40 | 0 | 9 | 33 | 0 | 6:30 - 6:40 | 0 | 8 | 22 | 0 |
| 6:40 - 6:50 | 0 | 22 | 29 | 0 | 6:40 - 6:50 | 1 | 17 | 31 | 0 | 6:40 - 6:50 | 0 | 8 | 53 | 3 |
| 6:50 - 7:00 | 1 | 26 | 53 | 0 | 6:50 - 7:00 | 1 | 14 | 54 | 2 | 6:50 - 7:00 | 1 | 21 | 63 | 1 |
| 7:00 - 7:10 | 1 | 25 | 55 | 1 | 7:00 - 7:10 | 0 | 10 | 72 | 1 | 7:00 - 7:10 | 1 | 14 | 51 | 1 |
| 7:10 - 7:20 | 0 | 13 | 72 | 1 | 7:10 - 7:20 | 0 | 7 | 61 | 0 | 7:10 - 7:20 | 0 | 7 | 32 | 0 |
| 7:20 - 7:30 | 5 | 28 | 83 | 2 | 7:20 - 7:30 | 1 | 13 | 44 | 1 | 7:20 - 7:30 | 0 | 9 | 45 | 0 |
| 7:30 - 7:40 | 2 | 32 | 43 | 1 | 7:30 - 7:40 | 2 | 10 | 42 | 0 | 7:30 - 7:40 | 0 | 10 | 22 | 0 |
| 7:40 - 7:50 | 2 | 31 | 131 | 1 | 7:40 - 7:50 | 1 | 60 | 97 | 2 | 7:40 - 7:50 | 0 | 6 | 81 | 0 |
| 7:50 - 8:00 | 2 | 30 | 9 | 1 | 7:50 - 8:00 | 3 | 19 | 8 | 0 | 7:50 - 8:00 | 0 | 12 | 5 | 0 |
| 8:00 - 8:10 | 1 | 41 | 83 | 1 | 8:00 - 8:10 | 4 | 15 | 33 | 1 | 8:00 - 8:10 | 0 | 11 | 27 | 0 |
| 8:10 - 8:20 | 3 | 30 | 68 | 3 | 8:10 - 8:20 | 1 | 15 | 33 | 3 | 8:10 - 8:20 | 0 | 15 | 4 | 1 |
| 8:20 - 8:30 | 2 | 27 | 54 | 8 | 8:20 - 8:30 | 2 | 21 | 6 | 3 | 8:20 - 8:30 | 1 | 23 | 43 | 0 |
| 8:30 - 8:40 | 1 | 27 | 57 | 3 | 8:30 - 8:40 | 1 | 11 | 44 | 4 | 8:30 - 8:40 | 4 | 11 | 4 | 0 |
| 8:40 - 8:50 | 1 | 20 | 46 | 4 | 8:40 - 8:50 | 0 | 18 | 47 | 1 | 8:40 - 8:50 | 4 | 11 | 3 | 1 |
| 8:50 - 9:00 | 0 | 11 | 46 | 0 | 8:50 - 9:00 | 2 | 4 | 45 | 0 | 8:50 - 9:00 | 1 | 10 | 9 | 3 |
| 9:00 - 9:10 | 5 | 28 | 103 | 6 | 9:00 - 9:10 | 0 | 13 | 87 | 6 | 9:00 - 9:10 | 1 | 15 | 68 | 0 |
| 9:10 - 9:20 | 3 | 24 | 64 | 1 | 9:10 - 9:20 | 2 | 19 | 66 | 3 | 9:10 - 9:20 | 4 | 31 | 3 | 2 |
| 9:20 - 9:30 | 7 | 13 | 76 | 3 | 9:20 - 9:30 | 0 | 15 | 67 | 0 | 9:20 - 9:30 | 1 | 10 | 69 | 0 |
| 9:30 - 9:40 | 1 | 22 | 109 | 4 | 9:30 - 9:40 | 3 | 6 | 97 | 3 | 9:30 - 9:40 | 2 | 3 | 73 | 0 |
| 9:40 - 9:50 | 2 | 31 | 83 | 2 | 9:40 - 9:50 | 1 | 22 | 52 | 1 | 9:40 - 9:50 | 3 | 6 | 52 | 0 |
| 9:50 - 10:00 | 2 | 8 | 46 | 1 | 9:50 - 10:00 | 1 | 9 | 16 | 1 | 9:50 - 10:00 | 3 | 6 | 55 | 0 |
| 15:30 - 15:40 | 6 | 11 | 99 | 4 | 15:30 - 15:40 | 5 | 9 | 127 | 5 | 15:30 - 15:40 | 2 | 11 | 86 | 3 |
| 15:40 - 15:50 | 4 | 7 | 100 | 3 | 15:40 - 15:50 | 1 | 10 | 113 | 5 | 15:40 - 15:50 | 2 | 9 | 74 | 1 |
| 15:50 - 16:00 | 2 | 7 | 87 | 2 | 15:50 - 16:00 | 3 | 16 | 109 | 6 | 15:50 - 16:00 | 2 | 11 | 85 | 0 |
| 16:00 - 16:10 | 2 | 9 | 96 | 3 | 16:00 - 16:10 | 4 | 6 | 85 | 6 | 16:00 - 16:10 | 2 | 6 | 72 | 1 |
| 16:10 - 16:20 | 3 | 7 | 85 | 4 | 16:10 - 16:20 | 0 | 9 | 159 | 5 | 16:10 - 16:20 | 0 | 11 | 83 | 2 |
| 16:20 - 16:30 | 4 | 17 | 99 | 5 | 16:20 - 16:30 | 3 | 9 | 105 | 5 | 16:20 - 16:30 | 3 | 8 | 125 | 2 |
| 16:30 - 16:40 | 3 | 10 | 113 | 0 | 16:30 - 16:40 | 8 | 15 | 121 | 1 | 16:30 - 16:40 | 2 | 13 | 91 | 2 |
| 16:40 - 16:50 | 1 | 15 | 130 | 1 | 16:40 - 16:50 | 0 | 3 | 125 | 3 | 16:40 - 16:50 | 2 | 15 | 89 | 1 |
| 16:50 - 17:00 | 5 | 10 | 106 | 2 | 16:50 - 17:00 | 2 | 10 | 117 | 3 | 16:50 - 17:00 | 2 | 4 | 69 | 1 |
| 17:00 - 17:10 | 3 | 6 | 90 | 4 | 17:00 - 17:10 | 2 | 14 | 180 | 1 | 17:00 - 17:10 | 2 | 6 | 105 | 1 |
| 17:10 - 17:20 | 1 | 7 | 66 | 4 | 17:10 - 17:20 | 2 | 12 | 190 | 4 | 17:10 - 17:20 | 0 | 6 | 75 | 2 |
| 17:20 - 17:30 | 2 | 5 | 110 | 2 | 17:20 - 17:30 | 2 | 3 | 79 | 1 | 17:20 - 17:30 | 11 | 4 | 185 | 2 |
| 17:30 - 17:40 | 3 | 22 | 120 | 0 | 17:30 - 17:40 | 0 | 0 | 170 | 4 | 17:30 - 17:40 | 3 | 10 | 100 | 0 |
| 17:40 - 17:50 | 1 | 13 | 105 | 1 | 17:40 - 17:50 | 2 | 4 | 86 | 0 | 17:40 - 17:50 | 0 | 8 | 85 | 0 |
| 17:50 - 18:00 | 2 | 15 | 65 | 3 | 17:50 - 18:00 | 0 | 5 | 60 | 1 | 17:50 - 18:00 | 3 | 6 | 60 | 0 |
| 18:00 - 18:10 | 7 | 12 | 95 | 0 | 18:00 - 18:10 | 5 | 7 | 70 | 4 | 18:00 - 18:10 | 4 | 4 | 130 | 1 |
| 18:10 - 18:20 | 0 | 7 | 50 | 0 | 18:10 - 18:20 | 0 | 0 | 90 | 2 | 18:10 - 18:20 | 0 | 2 | 80 | 0 |
| 18:20 - 18:30 | 2 | 10 | 85 | 2 | 18:20 - 18:30 | 1 | 12 | 85 | 1 | 18:20 - 18:30 | 1 | 12 | 65 | 1 |

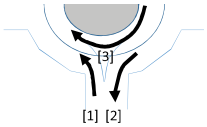
10

*Intersection Survey at IS03-2*

9

DATE 21/11/2017
LOCATION IS01
STATION C

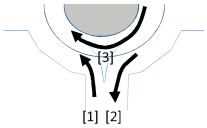
| TIME | DIRECTION 1 MOTORBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | DIRECTION 2 MOTORBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | DIRECTION 3 MOTORBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6:30 - 6:40 | 0 | 7 | 26 | 0 | 6:30 - 6:40 | 0 | 12 | 16 | 0 | 6:30 - 6:40 | 0 | 17 | 22 | 0 |
| 6:40 - 6:50 | 1 | 6 | 39 | 0 | 6:40 - 6:50 | 0 | 11 | 25 | 1 | 6:40 - 6:50 | 0 | 18 | 52 | 2 |
| 6:50 -7:00 | 3 | 9 | 78 | 3 | 6:50 -7:00 | 0 | 9 | 49 | 0 | 6:50 -7:00 | 1 | 29 | 59 | 0 |
| 7:00 - 7:10 | 3 | 5 | 145 | 6 | 7:00 - 7:10 | 0 | 3 | 80 | 0 | 7:00 - 7:10 | 1 | 11 | 95 | 2 |
| 7:10 - 7:20 | 4 | 6 | 105 | 11 | 7:10 - 7:20 | 1 | 3 | 75 | 0 | 7:10 - 7:20 | 3 | 25 | 60 | 3 |
| 7:20 - 7:30 | 1 | 1 | 70 | 3 | 7:20 - 7:30 | 0 | 1 | 85 | 0 | 7:20 - 7:30 | 3 | 19 | 47 | 2 |
| 7:30 - 7:40 | 3 | 2 | 40 | 3 | 7:30 - 7:40 | 2 | 1 | 85 | 0 | 7:30 - 7:40 | 0 | 17 | 80 | 1 |
| 7:40 - 7:50 | 2 | 1 | 33 | 3 | 7:40 - 7:50 | 0 | 2 | 36 | 0 | 7:40 - 7:50 | 1 | 22 | 57 | 3 |
| 7:50 - 8:00 | 6 | 1 | 85 | 7 | 7:50 - 8:00 | 0 | 30 | 49 | 3 | 7:50 - 8:00 | 0 | 23 | 35 | 2 |
| 8:00 - 8:10 | 2 | 2 | 61 | 6 | 8:00 - 8:10 | 3 | 14 | 90 | 5 | 8:00 - 8:10 | 1 | 17 | 65 | 6 |
| 8:10 - 8:20 | 8 | 6 | 87 | 3 | 8:10 - 8:20 | 0 | 7 | 87 | 6 | 8:10 - 8:20 | 2 | 28 | 115 | 12 |
| 8:20 - 8:30 | 2 | 1 | 80 | 6 | 8:20 - 8:30 | 1 | 4 | 85 | 7 | 8:20 - 8:30 | 9 | 12 | 80 | 9 |
| 8:30 - 8:40 | 0 | 2 | 112 | 3 | 8:30 - 8:40 | 2 | 6 | 120 | 2 | 8:30 - 8:40 | 3 | 21 | 115 | 5 |
| 8:40 - 8:50 | 4 | 2 | 115 | 10 | 8:40 - 8:50 | 3 | 12 | 84 | 2 | 8:40 - 8:50 | 2 | 4 | 76 | 5 |
| 8:50 - 9:00 | 2 | 1 | 80 | 7 | 8:50 - 9:00 | 2 | 6 | 69 | 6 | 8:50 - 9:00 | 3 | 18 | 70 | 4 |
| 9:00 - 9:10 | 0 | 6 | 120 | 10 | 9:00 - 9:10 | 0 | 6 | 120 | 8 | 9:00 - 9:10 | 4 | 23 | 135 | 2 |
| 9:10 - 9:20 | 4 | 3 | 125 | 6 | 9:10 - 9:20 | 2 | 3 | 88 | 4 | 9:10 - 9:20 | 6 | 23 | 165 | 1 |
| 9:20 - 9:30 | 5 | 2 | 147 | 6 | 9:20 - 9:30 | 2 | 6 | 110 | 7 | 9:20 - 9:30 | 3 | 11 | 149 | 6 |
| 9:30 - 9:40 | 2 | 2 | 148 | 8 | 9:30 - 9:40 | 0 | 12 | 102 | 7 | 9:30 - 9:40 | 2 | 31 | 115 | 8 |
| 9:40 - 9:50 | 7 | 3 | 135 | 12 | 9:40 - 9:50 | 3 | 6 | 95 | 2 | 9:40 - 9:50 | 4 | 21 | 125 | 8 |
| 9:50 - 10:00 | 1 | 7 | 104 | 2 | 9:50 - 10:00 | 4 | 9 | 112 | 1 | 9:50 - 10:00 | 2 | 11 | 86 | 4 |
| 15:30 - 15:40 | 4 | 1 | 85 | 2 | 15:30 - 15:40 | 2 | 4 | 100 | 3 | 15:30 - 15:40 | 15 | 15 | 0 | 6 |
| 15:40 - 15:50 | 0 | 1 | 85 | 7 | 15:40 - 15:50 | 5 | 1 | 70 | 0 | 15:40 - 15:50 | 5 | 9 | 115 | 9 |
| 15:50 - 16:00 | 1 | 2 | 105 | 5 | 15:50 - 16:00 | 0 | 0 | 90 | 2 | 15:50 - 16:00 | 7 | 15 | 110 | 11 |
| 16:00 - 16:10 | 3 | 0 | 110 | 12 | 16:00 - 16:10 | 4 | 2 | 112 | 0 | 16:00 - 16:10 | 4 | 17 | 105 | 6 |
| 16:10 - 16:20 | 1 | 3 | 95 | 7 | 16:10 - 16:20 | 2 | 1 | 95 | 2 | 16:10 - 16:20 | 5 | 13 | 95 | 7 |
| 16:20 - 16:30 | 1 | 0 | 100 | 7 | 16:20 - 16:30 | 3 | 2 | 100 | 5 | 16:20 - 16:30 | 11 | 18 | 110 | 4 |
| 16:30 - 16:40 | 4 | 0 | 130 | 12 | 16:30 - 16:40 | 3 | 2 | 100 | 1 | 16:30 - 16:40 | 8 | 13 | 95 | 2 |
| 16:40 - 16:50 | 3 | 4 | 175 | 7 | 16:40 - 16:50 | 3 | 0 | 105 | 4 | 16:40 - 16:50 | 9 | 12 | 100 | 4 |
| 16:50 - 17:00 | 7 | 2 | 157 | 6 | 16:50 - 17:00 | 3 | 1 | 105 | 4 | 16:50 - 17:00 | 8 | 23 | 125 | 6 |
| 17:00 - 17:10 | 4 | 4 | 135 | 4 | 17:00 - 17:10 | 6 | 3 | 105 | 4 | 17:00 - 17:10 | 4 | 14 | 105 | 2 |
| 17:10 - 17:20 | 2 | 3 | 135 | 8 | 17:10 - 17:20 | 2 | 1 | 85 | 3 | 17:10 - 17:20 | 12 | 16 | 130 | 12 |
| 17:20 - 17:30 | 1 | 2 | 85 | 9 | 17:20 - 17:30 | 11 | 0 | 71 | 5 | 17:20 - 17:30 | 6 | 14 | 135 | 3 |
| 17:30 - 17:40 | 1 | 1 | 77 | 4 | 17:30 - 17:40 | 2 | 4 | 55 | 4 | 17:30 - 17:40 | 9 | 18 | 87 | 6 |
| 17:40 - 17:50 | 3 | 1 | 67 | 5 | 17:40 - 17:50 | 0 | 2 | 40 | 5 | 17:40 - 17:50 | 4 | 22 | 65 | 3 |
| 17:50 - 18:00 | 2 | 0 | 43 | 0 | 17:50 - 18:00 | 3 | 0 | 36 | 3 | 17:50 - 18:00 | 2 | 8 | 80 | 4 |
| 18:00 - 18:10 | 1 | 1 | 102 | 5 | 18:00 - 18:10 | 0 | 0 | 51 | 0 | 18:00 - 18:10 | 8 | 15 | 75 | 6 |
| 18:10 - 18:20 | 2 | 2 | 57 | 3 | 18:10 - 18:20 | 2 | 7 | 67 | 2 | 18:10 - 18:20 | 7 | 15 | 105 | 2 |
| 18:20 - 18:30 | 3 | 0 | 38 | 3 | 18:20 - 18:30 | 3 | 2 | 24 | 4 | 18:20 - 18:30 | 5 | 6 | 80 | 1 |




12

DATE 21/11/2017
LOCATION IS01
STATION B

| TIME | DIRECTION 1 MOTORBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | DIRECTION 2 MOTORBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | DIRECTION 3 MOTORBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6:30 - 6:40 | 0 | 18 | 15 | 0 | 6:30 - 6:40 | 0 | 12 | 17 | 0 | 6:30 - 6:40 | 0 | 11 | 23 | 0 |
| 6:40 - 6:50 | 0 | 16 | 32 | 1 | 6:40 - 6:50 | 0 | 17 | 37 | 1 | 6:40 - 6:50 | 0 | 13 | 45 | 2 |
| 6:50 -7:00 | 0 | 17 | 38 | 0 | 6:50 -7:00 | 0 | 26 | 46 | 1 | 6:50 -7:00 | 2 | 21 | 70 | 0 |
| 7:00 - 7:10 | 1 | 21 | 46 | 1 | 7:00 - 7:10 | 0 | 36 | 80 | 3 | 7:00 - 7:10 | 4 | 32 | 120 | 0 |
| 7:10 - 7:20 | 1 | 35 | 82 | 3 | 7:10 - 7:20 | 0 | 55 | 140 | 3 | 7:10 - 7:20 | 5 | 60 | 170 | 3 |
| 7:20 - 7:30 | 12 | 61 | 195 | 2 | 7:20 - 7:30 | 3 | 55 | 175 | 2 | 7:20 - 7:30 | 10 | 55 | 165 | 2 |
| 7:30 - 7:40 | 4 | 58 | 165 | 1 | 7:30 - 7:40 | 8 | 63 | 160 | 1 | 7:30 - 7:40 | 3 | 55 | 115 | 0 |
| 7:40 - 7:50 | 14 | 50 | 185 | 1 | 7:40 - 7:50 | 3 | 51 | 154 | 4 | 7:40 - 7:50 | 8 | 35 | 147 | 5 |
| 7:50 - 8:00 | 8 | 53 | 161 | 4 | 7:50 - 8:00 | 4 | 57 | 133 | 1 | 7:50 - 8:00 | 3 | 45 | 148 | 2 |
| 8:00 - 8:10 | 6 | 33 | 83 | 0 | 8:00 - 8:10 | 4 | 101 | 165 | 2 | 8:00 - 8:10 | 3 | 52 | 162 | 0 |
| 8:10 - 8:20 | 8 | 50 | 114 | 0 | 8:10 - 8:20 | 2 | 59 | 110 | 1 | 8:10 - 8:20 | 5 | 46 | 115 | 0 |
| 8:20 - 8:30 | 6 | 40 | 121 | 1 | 8:20 - 8:30 | 7 | 40 | 112 | 2 | 8:20 - 8:30 | 7 | 25 | 160 | 0 |
| 8:30 - 8:40 | 2 | 17 | 135 | 0 | 8:30 - 8:40 | 6 | 29 | 150 | 1 | 8:30 - 8:40 | 11 | 41 | 125 | 2 |
| 8:40 - 8:50 | 6 | 31 | 115 | 1 | 8:40 - 8:50 | 5 | 25 | 90 | 0 | 8:40 - 8:50 | 3 | 45 | 120 | 0 |
| 8:50 - 9:00 | 1 | 27 | 118 | 0 | 8:50 - 9:00 | 3 | 31 | 115 | 1 | 8:50 - 9:00 | 0 | 23 | 102 | 0 |
| 9:00 - 9:10 | 2 | 38 | 115 | 2 | 9:00 - 9:10 | 4 | 26 | 114 | 0 | 9:00 - 9:10 | 3 | 29 | 120 | 1 |
| 9:10 - 9:20 | 8 | 40 | 102 | 0 | 9:10 - 9:20 | 4 | 41 | 99 | 0 | 9:10 - 9:20 | 2 | 34 | 101 | 0 |
| 9:20 - 9:30 | 2 | 25 | 165 | 1 | 9:20 - 9:30 | 4 | 32 | 106 | 0 | 9:20 - 9:30 | 8 | 23 | 97 | 0 |
| 9:30 - 9:40 | 7 | 41 | 94 | 0 | 9:30 - 9:40 | 3 | 33 | 100 | 0 | 9:30 - 9:40 | 10 | 39 | 130 | 4 |
| 9:40 - 9:50 | 3 | 49 | 113 | 2 | 9:40 - 9:50 | 4 | 42 | 126 | 0 | 9:40 - 9:50 | 10 | 50 | 155 | 0 |
| 9:50 - 10:00 | 6 | 33 | 114 | 5 | 9:50 - 10:00 | 2 | 28 | 130 | 1 | 9:50 - 10:00 | 5 | 37 | 113 | 0 |
| 15:30 - 15:40 | 21 | 43 | 175 | 2 | 15:30 - 15:40 | 2 | 15 | 95 | 2 | 15:30 - 15:40 | 1 | 10 | 90 | 0 |
| 15:40 - 15:50 | 1 | 11 | 50 | 0 | 15:40 - 15:50 | 1 | 20 | 50 | 0 | 15:40 - 15:50 | 3 | 6 | 50 | 0 |
| 15:50 - 16:00 | 5 | 17 | 35 | 0 | 15:50 - 16:00 | 1 | 25 | 64 | 0 | 15:50 - 16:00 | 4 | 16 | 60 | 0 |
| 16:00 - 16:10 | 1 | 9 | 44 | 0 | 16:00 - 16:10 | 3 | 18 | 67 | 1 | 16:00 - 16:10 | 5 | 10 | 61 | 1 |
| 16:10 - 16:20 | 3 | 9 | 41 | 1 | 16:10 - 16:20 | 3 | 8 | 68 | 2 | 16:10 - 16:20 | 1 | 13 | 70 | 0 |
| 16:20 - 16:30 | 2 | 10 | 45 | 0 | 16:20 - 16:30 | 6 | 9 | 85 | 1 | 16:20 - 16:30 | 2 | 15 | 70 | 0 |
| 16:30 - 16:40 | 1 | 15 | 46 | 0 | 16:30 - 16:40 | 4 | 9 | 72 | 0 | 16:30 - 16:40 | 8 | 14 | 71 | 0 |
| 16:40 - 16:50 | 0 | 11 | 36 | 0 | 16:40 - 16:50 | 4 | 13 | 83 | 0 | 16:40 - 16:50 | 3 | 16 | 55 | 0 |
| 16:50 - 17:00 | 3 | 7 | 43 | 0 | 16:50 - 17:00 | 4 | 12 | 69 | 0 | 16:50 - 17:00 | 3 | 12 | 53 | 2 |
| 17:00 - 17:10 | 2 | 13 | 43 | 1 | 17:00 - 17:10 | 5 | 19 | 60 | 1 | 17:00 - 17:10 | 2 | 13 | 90 | 1 |
| 17:10 - 17:20 | 2 | 19 | 56 | 0 | 17:10 - 17:20 | 4 | 9 | 64 | 1 | 17:10 - 17:20 | 2 | 18 | 55 | 0 |
| 17:20 - 17:30 | 3 | 11 | 67 | 0 | 17:20 - 17:30 | 5 | 5 | 45 | 1 | 17:20 - 17:30 | 4 | 23 | 98 | 0 |
| 17:30 - 17:40 | 2 | 11 | 55 | 1 | 17:30 - 17:40 | 1 | 20 | 80 | 0 | 17:30 - 17:40 | 4 | 18 | 59 | 1 |
| 17:40 - 17:50 | 5 | 14 | 58 | 0 | 17:40 - 17:50 | 0 | 10 | 68 | 3 | 17:40 - 17:50 | 5 | 15 | 61 | 0 |
| 17:50 - 18:00 | 3 | 11 | 56 | 2 | 17:50 - 18:00 | 3 | 4 | 58 | 1 | 17:50 - 18:00 | 4 | 11 | 69 | 0 |
| 18:00 - 18:10 | 2 | 11 | 65 | 0 | 18:00 - 18:10 | 2 | 6 | 45 | 0 | 18:00 - 18:10 | 2 | 14 | 66 | 0 |
| 18:10 - 18:20 | 3 | 14 | 52 | 0 | 18:10 - 18:20 | 1 | 7 | 55 | 0 | 18:10 - 18:20 | 1 | 14 | 40 | 0 |
| 18:20 - 18:30 | 3 | 11 | 65 | 1 | 18:20 - 18:30 | 2 | 10 | 60 | 0 | 18:20 - 18:30 | 2 | 15 | 80 | 1 |

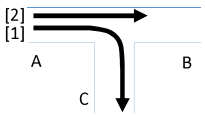



11

DATE 21/11/2017
LOCATION IS02
STATION A

GEOCONSULT

| DIRECTION 1 | | | | | DIRECTION 2 | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
| 6:30 - 6:40 | 0 | 5 | 14 | 0 | 6:30 - 6:40 | 0 | 3 | 17 | 1 |
| 6:40 - 6:50 | 3 | 4 | 12 | 0 | 6:40 - 6:50 | 0 | 5 | 21 | 0 |
| 6:50 -7:00 | 6 | 8 | 24 | 0 | 6:50 -7:00 | 1 | 7 | 27 | 0 |
| 7:00 - 7:10 | 7 | 5 | 30 | 0 | 7:00 - 7:10 | 12 | 9 | 32 | 3 |
| 7:10 - 7:20 | 11 | 5 | 36 | 0 | 7:10 - 7:20 | 3 | 8 | 41 | 0 |
| 7:20 - 7:30 | 4 | 6 | 42 | 1 | 7:20 - 7:30 | 8 | 4 | 36 | 0 |
| 7:30 - 7:40 | 13 | 9 | 65 | 0 | 7:30 - 7:40 | 5 | 3 | 52 | 1 |
| 7:40 - 7:50 | 5 | 12 | 62 | 0 | 7:40 - 7:50 | 8 | 7 | 23 | 0 |
| 7:50 - 8:00 | 4 | 6 | 56 | 0 | 7:50 - 8:00 | 4 | 6 | 31 | 1 |
| 8:00 - 8:10 | 8 | 5 | 48 | 2 | 8:00 - 8:10 | 5 | 4 | 35 | 0 |
| 8:10 - 8:20 | 4 | 3 | 32 | 0 | 8:10 - 8:20 | 4 | 7 | 24 | 0 |
| 8:20 - 8:30 | 1 | 50 | 5 | 4 | 8:20 - 8:30 | 0 | 27 | 2 | 7 |
| 8:30 - 8:40 | 3 | 7 | 40 | 1 | 8:30 - 8:40 | 5 | 5 | 40 | 3 |
| 8:40 - 8:50 | 3 | 15 | 46 | 0 | 8:40 - 8:50 | 4 | 13 | 36 | 0 |
| 8:50 - 9:00 | 7 | 12 | 45 | 0 | 8:50 - 9:00 | 3 | 7 | 30 | 0 |
| 9:00 - 9:10 | 5 | 10 | 58 | 0 | 9:00 - 9:10 | 7 | 7 | 60 | 3 |
| 9:10 - 9:20 | 3 | 9 | 47 | 0 | 9:10 - 9:20 | 1 | 5 | 33 | 0 |
| 9:20 - 9:30 | 2 | 6 | 61 | 0 | 9:20 - 9:30 | 3 | 6 | 49 | 0 |
| 9:30 - 9:40 | 4 | 10 | 53 | 0 | 9:30 - 9:40 | 4 | 2 | 37 | 0 |
| 9:40 - 9:50 | 3 | 15 | 76 | 0 | 9:40 - 9:50 | 4 | 8 | 41 | 0 |
| 9:50 - 10:00 | 5 | 16 | 81 | 0 | 9:50 - 10:00 | 8 | 10 | 68 | 0 |
| | | | | | | | | | |
| 15:30 - 15:40 | 4 | 8 | 50 | 0 | 15:30 - 15:40 | 2 | 7 | 49 | 0 |
| 15:40 - 15:50 | 2 | 5 | 54 | 0 | 15:40 - 15:50 | 4 | 12 | 41 | 0 |
| 15:50 - 16:00 | 2 | 11 | 52 | 0 | 15:50 - 16:00 | 3 | 5 | 38 | 0 |
| 16:00 - 16:10 | 3 | 14 | 46 | 0 | 16:00 - 16:10 | 2 | 11 | 52 | 0 |
| 16:10 - 16:20 | 2 | 7 | 47 | 0 | 16:10 - 16:20 | 6 | 9 | 41 | 0 |
| 16:20 - 16:30 | 1 | 12 | 38 | 0 | 16:20 - 16:30 | 4 | 11 | 55 | 0 |
| 16:30 - 16:40 | 2 | 14 | 44 | 0 | 16:30 - 16:40 | 4 | 11 | 51 | 0 |
| 16:40 - 16:50 | 4 | 9 | 41 | 0 | 16:40 - 16:50 | 6 | 6 | 44 | 0 |
| 16:50 - 17:00 | 2 | 12 | 44 | 0 | 16:50 - 17:00 | 7 | 6 | 56 | 0 |
| 17:00 - 17:10 | 5 | 18 | 39 | 0 | 17:00 - 17:10 | 3 | 4 | 53 | 0 |
| 17:10 - 17:20 | 3 | 7 | 33 | 0 | 17:10 - 17:20 | 2 | 4 | 46 | 0 |
| 17:20 - 17:30 | 5 | 17 | 35 | 0 | 17:20 - 17:30 | 1 | 10 | 50 | 0 |
| 17:30 - 17:40 | 0 | 10 | 27 | 0 | 17:30 - 17:40 | 2 | 8 | 60 | 0 |
| 17:40 - 17:50 | 2 | 12 | 27 | 0 | 17:40 - 17:50 | 3 | 7 | 65 | 0 |
| 17:50 - 18:00 | 2 | 13 | 21 | 0 | 17:50 - 18:00 | 0 | 8 | 53 | 0 |
| 18:00 - 18:10 | 4 | 7 | 72 | 0 | 18:00 - 18:10 | 1 | 5 | 22 | 0 |
| 18:10 - 18:20 | 4 | 5 | 19 | 0 | 18:10 - 18:20 | 1 | 10 | 67 | 0 |
| 18:20 - 18:30 | 3 | 6 | 31 | 0 | 18:20 - 18:30 | 2 | 9 | 42 | 0 |

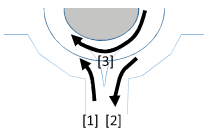





DATE 21/11/2017
LOCATION IS01
STATION D

GEOCONSULT

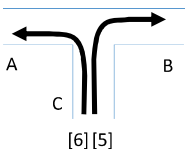
| DIRECTION 1 | | | | | DIRECTION 2 | | | | | DIRECTION 3 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
| 6:30 - 6:40 | 0 | 14 | 36 | 0 | 6:30 - 6:40 | 0 | 4 | 21 | 0 | 6:30 - 6:40 | 0 | 3 | 19 | 0 |
| 6:40 - 6:50 | 1 | 21 | 59 | 2 | 6:40 - 6:50 | 1 | 8 | 37 | 1 | 6:40 - 6:50 | 0 | 4 | 29 | 1 |
| 6:50 -7:00 | 0 | 27 | 79 | 3 | 6:50 -7:00 | 2 | 12 | 36 | 3 | 6:50 -7:00 | 2 | 8 | 38 | 0 |
| 7:00 - 7:10 | 1 | 35 | 119 | 4 | 7:00 - 7:10 | 1 | 10 | 40 | 2 | 7:00 - 7:10 | 1 | 6 | 33 | 2 |
| 7:10 - 7:20 | 0 | 13 | 67 | 2 | 7:10 - 7:20 | 3 | 14 | 81 | 1 | 7:10 - 7:20 | 4 | 7 | 60 | 0 |
| 7:20 - 7:30 | 4 | 22 | 57 | 4 | 7:20 - 7:30 | 6 | 27 | 73 | 0 | 7:20 - 7:30 | 2 | 7 | 75 | 1 |
| 7:30 - 7:40 | 1 | 15 | 42 | 0 | 7:30 - 7:40 | 6 | 35 | 95 | 2 | 7:30 - 7:40 | 2 | 3 | 70 | 1 |
| 7:40 - 7:50 | 1 | 16 | 64 | 1 | 7:40 - 7:50 | 7 | 43 | 110 | 0 | 7:40 - 7:50 | 0 | 4 | 72 | 3 |
| 7:50 - 8:00 | 0 | 21 | 56 | 0 | 7:50 - 8:00 | 0 | 24 | 96 | 1 | 7:50 - 8:00 | 3 | 7 | 64 | 1 |
| 8:00 - 8:10 | 5 | 18 | 54 | 2 | 8:00 - 8:10 | 2 | 39 | 100 | 0 | 8:00 - 8:10 | 3 | 3 | 58 | 3 |
| 8:10 - 8:20 | 1 | 5 | 38 | 0 | 8:10 - 8:20 | 1 | 15 | 53 | 2 | 8:10 - 8:20 | 3 | 2 | 30 | 2 |
| 8:20 - 8:30 | 2 | 12 | 36 | 2 | 8:20 - 8:30 | 4 | 26 | 67 | 0 | 8:20 - 8:30 | 1 | 4 | 46 | 1 |
| 8:30 - 8:40 | 4 | 21 | 55 | 3 | 8:30 - 8:40 | 3 | 28 | 62 | 2 | 8:30 - 8:40 | 3 | 2 | 52 | 5 |
| 8:40 - 8:50 | 4 | 18 | 62 | 3 | 8:40 - 8:50 | 3 | 22 | 74 | 3 | 8:40 - 8:50 | 1 | 11 | 44 | 7 |
| 8:50 - 9:00 | 1 | 24 | 74 | 1 | 8:50 - 9:00 | 2 | 28 | 95 | 1 | 8:50 - 9:00 | 1 | 4 | 58 | 4 |
| 9:00 - 9:10 | 2 | 14 | 47 | 1 | 9:00 - 9:10 | 0 | 14 | 74 | 2 | 9:00 - 9:10 | 1 | 2 | 42 | 3 |
| 9:10 - 9:20 | 5 | 13 | 61 | 2 | 9:10 - 9:20 | 3 | 15 | 66 | 0 | 9:10 - 9:20 | 3 | 6 | 65 | 6 |
| 9:20 - 9:30 | 2 | 20 | 49 | 0 | 9:20 - 9:30 | 2 | 22 | 54 | 2 | 9:20 - 9:30 | 1 | 2 | 41 | 3 |
| 9:30 - 9:40 | 3 | 11 | 62 | 1 | 9:30 - 9:40 | 6 | 16 | 85 | 1 | 9:30 - 9:40 | 6 | 1 | 49 | 5 |
| 9:30 - 9:50 | 2 | 27 | 54 | 1 | 9:30 - 9:50 | 6 | 18 | 92 | 1 | 9:30 - 9:50 | 2 | 17 | 64 | 2 |
| 9:50 - 10:00 | 1 | 31 | 80 | 3 | 9:50 - 10:00 | 5 | 21 | 94 | 0 | 9:50 - 10:00 | 1 | 3 | 60 | 2 |
| | | | | | | | | | | | | | | |
| 15:30 - 15:40 | 7 | 17 | 0 | 3 | 15:30 - 15:40 | 6 | 19 | 40 | 2 | 15:30 - 15:40 | 9 | 6 | 94 | 7 |
| 15:40 - 15:50 | 7 | 26 | 108 | 2 | 15:40 - 15:50 | 3 | 15 | 100 | 1 | 15:40 - 15:50 | 0 | 6 | 86 | 8 |
| 15:50 - 16:00 | 5 | 42 | 97 | 0 | 15:50 - 16:00 | 9 | 23 | 117 | 1 | 15:50 - 16:00 | 1 | 9 | 77 | 8 |
| 16:00 - 16:10 | 6 | 14 | 95 | 1 | 16:00 - 16:10 | 4 | 37 | 101 | 2 | 16:00 - 16:10 | 3 | 13 | 82 | 6 |
| 16:10 - 16:20 | 6 | 42 | 123 | 2 | 16:10 - 16:20 | 7 | 37 | 95 | 4 | 16:10 - 16:20 | 5 | 10 | 100 | 3 |
| 16:20 - 16:30 | 5 | 39 | 120 | 1 | 16:20 - 16:30 | 3 | 52 | 115 | 0 | 16:20 - 16:30 | 3 | 4 | 100 | 6 |
| 16:30 - 16:40 | 3 | 37 | 107 | 0 | 16:30 - 16:40 | 6 | 32 | 82 | 0 | 16:30 - 16:40 | 2 | 10 | 89 | 4 |
| 16:40 - 16:50 | 11 | 49 | 108 | 4 | 16:40 - 16:50 | 3 | 42 | 125 | 0 | 16:40 - 16:50 | 4 | 11 | 107 | 4 |
| 16:50 - 17:00 | 3 | 48 | 125 | 0 | 16:50 - 17:00 | 5 | 27 | 97 | 1 | 16:50 - 17:00 | 4 | 2 | 125 | 2 |
| 17:00 - 17:10 | 3 | 44 | 125 | 1 | 17:00 - 17:10 | 1 | 38 | 128 | 1 | 17:00 - 17:10 | 8 | 1 | 115 | 4 |
| 17:10 - 17:20 | 4 | 58 | 95 | 0 | 17:10 - 17:20 | 4 | 50 | 120 | 1 | 17:10 - 17:20 | 8 | 1 | 115 | 1 |
| 17:20 - 17:30 | 4 | 35 | 112 | 1 | 17:20 - 17:30 | 3 | 31 | 102 | 0 | 17:20 - 17:30 | 1 | 1 | 97 | 1 |
| 17:30 - 17:40 | 6 | 52 | 117 | 2 | 17:30 - 17:40 | 4 | 59 | 103 | 0 | 17:30 - 17:40 | 4 | 3 | 137 | 6 |
| 17:40 - 17:50 | 3 | 21 | 80 | 0 | 17:40 - 17:50 | 4 | 22 | 61 | 1 | 17:40 - 17:50 | 3 | 3 | 74 | 2 |
| 17:50 - 18:00 | 3 | 16 | 94 | 1 | 17:50 - 18:00 | 2 | 11 | 82 | 0 | 17:50 - 18:00 | 1 | 4 | 68 | 3 |
| 18:00 - 18:10 | 1 | 17 | 64 | 1 | 18:00 - 18:10 | 4 | 14 | 72 | 2 | 18:00 - 18:10 | 0 | 2 | 94 | 5 |
| 18:10 - 18:20 | 7 | 21 | 81 | 0 | 18:10 - 18:20 | 2 | 20 | 19 | 0 | 18:10 - 18:20 | 1 | 1 | 69 | 4 |
| 18:20 - 18:30 | 8 | 21 | 78 | 2 | 18:20 - 18:30 | 6 | 17 | 67 | 0 | 18:20 - 18:30 | 1 | 0 | 62 | 0 |



DATE 21/11/2017
LOCATION IS02
STATION C

GEOCONSULT

| DIRECTION 6 | | | | | DIRECTION 5 | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
| 6:30 - 6:40 | 0 | 6 | 12 | 0 | 6:30 - 6:40 | 0 | 3 | 34 | 0 |
| 6:40 - 6:50 | 3 | 9 | 16 | 1 | 6:40 - 6:50 | 0 | 7 | 19 | 0 |
| 6:50 -7:00 | 6 | 8 | 15 | 0 | 6:50 -7:00 | 1 | 4 | 24 | 0 |
| 7:00 - 7:10 | 8 | 8 | 28 | 0 | 7:00 - 7:10 | 10 | 11 | 37 | 0 |
| 7:10 - 7:20 | 1 | 4 | 36 | 0 | 7:10 - 7:20 | 8 | 17 | 49 | 0 |
| 7:20 - 7:30 | 5 | 16 | 79 | 0 | 7:20 - 7:30 | 17 | 28 | 73 | 1 |
| 7:30 - 7:40 | 15 | 40 | 150 | 2 | 7:30 - 7:40 | 12 | 38 | 155 | 8 |
| 7:40 - 7:50 | 3 | 10 | 120 | 0 | 7:40 - 7:50 | 2 | 11 | 147 | 0 |
| 7:50 - 8:00 | 2 | 4 | 80 | 5 | 7:50 - 8:00 | 3 | 10 | 65 | 0 |
| 8:00 - 8:10 | 3 | 12 | 70 | 0 | 8:00 - 8:10 | 4 | 16 | 65 | 0 |
| 8:10 - 8:20 | 4 | 15 | 60 | 1 | 8:10 - 8:20 | 5 | 20 | 70 | 2 |
| 8:20 - 8:30 | 3 | 13 | 57 | 0 | 8:20 - 8:30 | 2 | 13 | 50 | 0 |
| 8:30 - 8:40 | 1 | 4 | 34 | 0 | 8:30 - 8:40 | 5 | 8 | 35 | 0 |
| 8:40 - 8:50 | 6 | 7 | 53 | 0 | 8:40 - 8:50 | 4 | 20 | 48 | 0 |
| 8:50 - 9:00 | 5 | 8 | 47 | 1 | 8:50 - 9:00 | 6 | 16 | 44 | 0 |
| 9:00 - 9:10 | 4 | 6 | 49 | 0 | 9:00 - 9:10 | 5 | 12 | 48 | 0 |
| 9:10 - 9:20 | 7 | 6 | 48 | 0 | 9:10 - 9:20 | 5 | 16 | 50 | 1 |
| 9:20 - 9:30 | 1 | 8 | 40 | 1 | 9:20 - 9:30 | 4 | 8 | 51 | 0 |
| 9:30 - 9:40 | 6 | 4 | 50 | 1 | 9:30 - 9:40 | 5 | 8 | 55 | 1 |
| 9:40 - 9:50 | 1 | 5 | 67 | 0 | 9:40 - 9:50 | 5 | 10 | 63 | 2 |
| 9:50 - 10:00 | 5 | 6 | 60 | 1 | 9:50 - 10:00 | 3 | 11 | 70 | 1 |
| | | | | | | | | | |
| 15:30 - 15:40 | 3 | 4 | 45 | 0 | 15:30 - 15:40 | 8 | 8 | 55 | 0 |
| 15:40 - 15:50 | 5 | 3 | 56 | 0 | 15:40 - 15:50 | 3 | 6 | 78 | 0 |
| 15:50 - 16:00 | 4 | 11 | 51 | 2 | 15:50 - 16:00 | 3 | 8 | 56 | 0 |
| 16:00 - 16:10 | 2 | 4 | 54 | 0 | 16:00 - 16:10 | 3 | 16 | 61 | 0 |
| 16:10 - 16:20 | 7 | 8 | 53 | 1 | 16:10 - 16:20 | 5 | 10 | 50 | 0 |
| 16:20 - 16:30 | 4 | 12 | 57 | 0 | 16:20 - 16:30 | 4 | 16 | 66 | 0 |
| 16:30 - 16:40 | 1 | 9 | 40 | 0 | 16:30 - 16:40 | 7 | 11 | 64 | 0 |
| 16:40 - 16:50 | 5 | 8 | 51 | 1 | 16:40 - 16:50 | 6 | 13 | 75 | 2 |
| 16:50 - 17:00 | 6 | 6 | 49 | 1 | 16:50 - 17:00 | 6 | 12 | 57 | 2 |
| 17:00 - 17:10 | 8 | 10 | 61 | 5 | 17:00 - 17:10 | 10 | 11 | 81 | 1 |
| 17:10 - 17:20 | 9 | 7 | 47 | 0 | 17:10 - 17:20 | 13 | 10 | 80 | 0 |
| 17:20 - 17:30 | 3 | 8 | 37 | 1 | 17:20 - 17:30 | 5 | 16 | 72 | 0 |
| 17:30 - 17:40 | 5 | 6 | 45 | 0 | 17:30 - 17:40 | 6 | 13 | 63 | 1 |
| 17:40 - 17:50 | 1 | 6 | 40 | 0 | 17:40 - 17:50 | 5 | 8 | 60 | 1 |
| 17:50 - 18:00 | 5 | 4 | 30 | 0 | 17:50 - 18:00 | 4 | 12 | 45 | 0 |
| 18:00 - 18:10 | 5 | 3 | 29 | 0 | 18:00 - 18:10 | 2 | 15 | 27 | 0 |
| 18:10 - 18:20 | 1 | 5 | 21 | 1 | 18:10 - 18:20 | 2 | 8 | 40 | 0 |
| 18:20 - 18:30 | 1 | 3 | 25 | 0 | 18:20 - 18:30 | 3 | 8 | 40 | 0 |

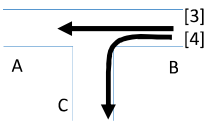





DATE 21/11/2017
LOCATION IS02
STATION B

GEOCONSULT

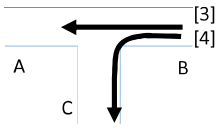
| DIRECTION 3 | | | | | DIRECTION 4 | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
| 6:30 - 6:40 | 0 | 8 | 27 | 0 | 6:30 - 6:40 | 0 | 9 | 25 | 0 |
| 6:40 - 6:50 | 1 | 13 | 32 | 0 | 6:40 - 6:50 | 0 | 15 | 39 | 1 |
| 6:50 -7:00 | 4 | 12 | 38 | 0 | 6:50 -7:00 | 1 | 17 | 36 | 0 |
| 7:00 - 7:10 | 2 | 15 | 42 | 1 | 7:00 - 7:10 | 10 | 12 | 43 | 0 |
| 7:10 - 7:20 | 11 | 12 | 39 | 3 | 7:10 - 7:20 | 19 | 16 | 56 | 0 |
| 7:20 - 7:30 | 13 | 13 | 47 | 2 | 7:20 - 7:30 | 22 | 14 | 51 | 3 |
| 7:30 - 7:40 | 10 | 16 | 31 | 1 | 7:30 - 7:40 | 11 | 11 | 32 | 0 |
| 7:40 - 7:50 | 18 | 2 | 36 | 0 | 7:40 - 7:50 | 9 | 6 | 39 | 0 |
| 7:50 - 8:00 | 5 | 7 | 28 | 0 | 7:50 - 8:00 | 9 | 16 | 52 | 0 |
| 8:00 - 8:10 | 17 | 12 | 24 | 0 | 8:00 - 8:10 | 4 | 18 | 74 | 0 |
| 8:10 - 8:20 | 4 | 14 | 28 | 0 | 8:10 - 8:20 | 3 | 16 | 36 | 1 |
| 8:20 - 8:30 | 12 | 17 | 35 | 1 | 8:20 - 8:30 | 5 | 15 | 55 | 0 |
| 8:30 - 8:40 | 15 | 23 | 32 | 0 | 8:30 - 8:40 | 2 | 17 | 58 | 0 |
| 8:40 - 8:50 | 14 | 19 | 32 | 1 | 8:40 - 8:50 | 9 | 14 | 52 | 1 |
| 8:50 - 9:00 | 6 | 11 | 34 | 0 | 8:50 - 9:00 | 9 | 16 | 52 | 0 |
| 9:00 - 9:10 | 7 | 2 | 38 | 0 | 9:00 - 9:10 | 3 | 23 | 46 | 0 |
| 9:10 - 9:20 | 19 | 0 | 28 | 0 | 9:10 - 9:20 | 9 | 27 | 42 | 0 |
| 9:20 - 9:30 | 4 | 1 | 45 | 0 | 9:20 - 9:30 | 7 | 22 | 47 | 0 |
| 9:30 - 9:40 | 9 | 0 | 41 | 0 | 9:30 - 9:40 | 13 | 22 | 43 | 0 |
| 9:40 - 9:50 | 15 | 1 | 29 | 0 | 9:40 - 9:50 | 0 | 20 | 69 | 0 |
| 9:50 - 10:00 | 2 | 0 | 41 | 0 | 9:50 - 10:00 | 0 | 17 | 52 | 0 |
| | | | | | | | | | |
| 15:30 - 15:40 | 6 | 17 | 55 | 0 | 15:30 - 15:40 | 6 | 0 | 38 | 1 |
| 15:40 - 15:50 | 10 | 1 | 31 | 0 | 15:40 - 15:50 | 5 | 24 | 56 | 0 |
| 15:50 - 16:00 | 12 | 12 | 37 | 0 | 15:50 - 16:00 | 6 | 25 | 52 | 0 |
| 16:00 - 16:10 | 11 | 17 | 28 | 0 | 16:00 - 16:10 | 8 | 14 | 57 | 0 |
| 16:10 - 16:20 | 7 | 8 | 22 | 0 | 16:10 - 16:20 | 11 | 18 | 47 | 0 |
| 16:20 - 16:30 | 4 | 10 | 35 | 0 | 16:20 - 16:30 | 14 | 27 | 58 | 0 |
| 16:30 - 16:40 | 10 | 10 | 47 | 0 | 16:30 - 16:40 | 4 | 25 | 52 | 0 |
| 16:40 - 16:50 | 9 | 1 | 32 | 0 | 16:40 - 16:50 | 3 | 20 | 47 | 0 |
| 16:50 - 17:00 | 7 | 2 | 37 | 0 | 16:50 - 17:00 | 9 | 23 | 30 | 0 |
| 17:00 - 17:10 | 16 | 0 | 41 | 0 | 17:00 - 17:10 | 9 | 20 | 33 | 0 |
| 17:10 - 17:20 | 16 | 0 | 53 | 0 | 17:10 - 17:20 | 8 | 20 | 58 | 0 |
| 17:20 - 17:30 | 15 | 0 | 53 | 0 | 17:20 - 17:30 | 11 | 27 | 53 | 0 |
| 17:30 - 17:40 | 8 | 1 | 33 | 1 | 17:30 - 17:40 | 5 | 17 | 28 | 0 |
| 17:40 - 17:50 | 10 | 1 | 30 | 0 | 17:40 - 17:50 | 4 | 27 | 19 | 0 |
| 17:50 - 18:00 | 6 | 1 | 34 | 0 | 17:50 - 18:00 | 5 | 10 | 16 | 0 |
| 18:00 - 18:10 | 5 | 3 | 37 | 0 | 18:00 - 18:10 | 11 | 6 | 17 | 0 |
| 18:10 - 18:20 | 6 | 1 | 26 | 0 | 18:10 - 18:20 | 1 | 11 | 14 | 0 |
| 18:20 - 18:30 | 0 | 10 | 17 | 0 | 18:20 - 18:30 | 2 | 1 | 34 | 0 |



DATE 22/11/2017
LOCATION IS03/1
STATION B

GEOCONSULT

| DIRECTION 3 | | | | | DIRECTION 4 | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
| 6:30 - 6:40 | 0 | 0 | 17 | 0 | 6:30 - 6:40 | 0 | 21 | 19 | 0 |
| 6:40 - 6:50 | 0 | 3 | 36 | 0 | 6:40 - 6:50 | 0 | 32 | 29 | 0 |
| 6:50 -7:00 | 0 | 2 | 34 | 0 | 6:50 - 7:00 | 3 | 42 | 35 | 0 |
| 7:00 - 7:10 | 0 | 0 | 47 | 1 | 7:00 - 7:10 | 4 | 44 | 50 | 1 |
| 7:10 - 7:20 | 0 | 2 | 17 | 0 | 7:10 - 7:20 | 8 | 50 | 47 | 0 |
| 7:20 - 7:30 | 0 | 7 | 8 | 0 | 7:20 - 7:30 | 11 | 39 | 44 | 0 |
| 7:30 - 7:40 | 0 | 5 | 15 | 0 | 7:30 - 7:40 | 6 | 22 | 26 | 0 |
| 7:40 - 7:50 | 0 | 8 | 20 | 0 | 7:40 - 7:50 | 7 | 33 | 16 | 0 |
| 7:50 - 8:00 | 0 | 6 | 20 | 0 | 7:50 - 8:00 | 2 | 19 | 21 | 0 |
| 8:00 - 8:10 | 0 | 7 | 13 | 0 | 8:00 - 8:10 | 9 | 17 | 27 | 3 |
| 8:10 - 8:20 | 0 | 10 | 18 | 0 | 8:10 - 8:20 | 4 | 29 | 38 | 0 |
| 8:20 - 8:30 | 0 | 12 | 23 | 0 | 8:20 - 8:30 | 2 | 41 | 29 | 0 |
| 8:30 - 8:40 | 0 | 15 | 24 | 1 | 8:30 - 8:40 | 8 | 40 | 31 | 1 |
| 8:40 - 8:50 | 0 | 11 | 42 | 0 | 8:40 - 8:50 | 4 | 32 | 19 | 0 |
| 8:50 - 9:00 | 0 | 13 | 28 | 0 | 8:50 - 9:00 | 3 | 30 | 11 | 0 |
| 9:00 - 9:10 | 0 | 22 | 33 | 0 | 9:00 - 9:10 | 6 | 23 | 32 | 1 |
| 9:10 - 9:20 | 0 | 12 | 31 | 0 | 9:10 - 9:20 | 9 | 19 | 33 | 0 |
| 9:20 - 9:30 | 0 | 6 | 21 | 0 | 9:20 - 9:30 | 5 | 11 | 25 | 2 |
| 9:30 - 9:40 | 0 | 7 | 31 | 0 | 9:30 - 9:40 | 4 | 34 | 23 | 0 |
| 9:40 - 9:50 | 0 | 2 | 20 | 0 | 9:40 - 9:50 | 8 | 38 | 15 | 0 |
| 9:50 - 10:00 | 0 | 17 | 46 | 0 | 9:50 - 10:00 | 2 | 42 | 17 | 0 |
| | | | | | | | | | |
| 15:30 - 15:40 | 0 | 1 | 40 | 2 | 15:30 - 15:40 | 6 | 21 | 31 | 0 |
| 15:40 - 15:50 | 1 | 0 | 25 | 1 | 15:40 - 15:50 | 2 | 12 | 28 | 0 |
| 15:50 - 16:00 | 1 | 0 | 27 | 1 | 15:50 - 16:00 | 4 | 16 | 21 | 0 |
| 16:00 - 16:10 | 2 | 3 | 32 | 0 | 16:00 - 16:10 | 5 | 24 | 27 | 1 |
| 16:10 - 16:20 | 3 | 0 | 28 | 1 | 16:10 - 16:20 | 8 | 39 | 24 | 1 |
| 16:20 - 16:30 | 4 | 1 | 32 | 1 | 16:20 - 16:30 | 1 | 32 | 11 | 0 |
| 16:30 - 16:40 | 2 | 1 | 22 | 0 | 16:30 - 16:40 | 0 | 36 | 31 | 0 |
| 16:40 - 16:50 | 5 | 1 | 32 | 0 | 16:40 - 16:50 | 3 | 46 | 47 | 0 |
| 16:50 - 17:00 | 4 | 3 | 22 | 0 | 16:50 - 17:00 | 5 | 50 | 52 | 0 |
| 17:00 - 17:10 | 2 | 1 | 21 | 0 | 17:00 - 17:10 | 6 | 52 | 50 | 0 |
| 17:10 - 17:20 | 4 | 4 | 20 | 1 | 17:10 - 17:20 | 4 | 49 | 44 | 0 |
| 17:20 - 17:30 | 0 | 3 | 19 | 0 | 17:20 - 17:30 | 2 | 41 | 49 | 0 |
| 17:30 - 17:40 | 1 | 5 | 15 | 0 | 17:30 - 17:40 | 2 | 44 | 38 | 0 |
| 17:40 - 17:50 | 2 | 2 | 21 | 0 | 17:40 - 17:50 | 4 | 36 | 29 | 1 |
| 17:50 - 18:00 | 11 | 4 | 28 | 1 | 17:50 - 18:00 | 3 | 39 | 31 | 0 |
| 18:00 - 18:10 | 2 | 2 | 21 | 2 | 18:00 - 18:10 | 6 | 22 | 27 | 0 |
| 18:10 - 18:20 | 1 | 0 | 28 | 1 | 18:10 - 18:20 | 7 | 15 | 34 | 0 |
| 18:20 - 18:30 | 5 | 5 | 18 | 0 | 18:20 - 18:30 | 5 | 21 | 20 | 0 |

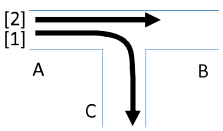





DATE 22/11/2017
LOCATION IS03/1
STATION A

GEOCONSULT

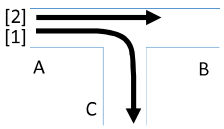
| DIRECTION 1 | | | | | DIRECTION 2 | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
| 6:30 - 6:40 | 0 | 14 | 17 | 0 | 6:30 - 6:40 | 0 | 12 | 19 | 0 |
| 6:40 - 6:50 | 0 | 28 | 36 | 0 | 6:40 - 6:50 | 0 | 18 | 29 | 0 |
| 6:50 -7:00 | 0 | 17 | 34 | 0 | 6:50 - 7:00 | 0 | 15 | 35 | 0 |
| 7:00 - 7:10 | 6 | 30 | 85 | 2 | 7:00 - 7:10 | 8 | 26 | 75 | 1 |
| 7:10 - 7:20 | 0 | 5 | 75 | 1 | 7:10 - 7:20 | 1 | 30 | 170 | 2 |
| 7:20 - 7:30 | 1 | 1 | 65 | 1 | 7:20 - 7:30 | 4 | 18 | 105 | 1 |
| 7:30 - 7:40 | 2 | 4 | 82 | 5 | 7:30 - 7:40 | 7 | 42 | 160 | 3 |
| 7:40 - 7:50 | 2 | 8 | 50 | 5 | 7:40 - 7:50 | 5 | 35 | 12 | 0 |
| 7:50 - 8:00 | 2 | 3 | 77 | 1 | 7:50 - 8:00 | 9 | 25 | 105 | 1 |
| 8:00 - 8:10 | 2 | 12 | 125 | 1 | 8:00 - 8:10 | 2 | 5 | 80 | 2 |
| 8:10 - 8:20 | 9 | 17 | 90 | 0 | 8:10 - 8:20 | 8 | 6 | 13 | 2 |
| 8:20 - 8:30 | 6 | 14 | 110 | 1 | 8:20 - 8:30 | 2 | 15 | 75 | 1 |
| 8:30 - 8:40 | 13 | 27 | 85 | 2 | 8:30 - 8:40 | 5 | 3 | 60 | 2 |
| 8:40 - 8:50 | 3 | 24 | 88 | 0 | 8:40 - 8:50 | 4 | 4 | 65 | 2 |
| 8:50 - 9:00 | 11 | 30 | 75 | 0 | 8:50 - 9:00 | 1 | 1 | 45 | 3 |
| 9:00 - 9:10 | 4 | 25 | 69 | 1 | 9:00 - 9:10 | 6 | 6 | 43 | 1 |
| 9:10 - 9:20 | 5 | 13 | 81 | 1 | 9:10 - 9:20 | 7 | 4 | 54 | 1 |
| 9:20 - 9:30 | 6 | 17 | 61 | 1 | 9:20 - 9:30 | 3 | 0 | 47 | 2 |
| 9:30 - 9:40 | 6 | 12 | 76 | 3 | 9:30 - 9:40 | 4 | 8 | 42 | 1 |
| 9:40 - 9:50 | 7 | 23 | 69 | 0 | 9:40 - 9:50 | 4 | 6 | 49 | 3 |
| 9:50 - 10:00 | 2 | 14 | 89 | 1 | 9:50 - 10:00 | 4 | 2 | 50 | 4 |
| | | | | | | | | | |
| 15:30 - 15:40 | 4 | 16 | 107 | 2 | 15:30 - 15:40 | 2 | 7 | 54 | 5 |
| 15:40 - 15:50 | 5 | 9 | 95 | 2 | 15:40 - 15:50 | 7 | 7 | 65 | 3 |
| 15:50 - 16:00 | 2 | 13 | 74 | 1 | 15:50 - 16:00 | 4 | 5 | 42 | 1 |
| 16:00 - 16:10 | 3 | 15 | 83 | 4 | 16:00 - 16:10 | 2 | 12 | 41 | 5 |
| 16:10 - 16:20 | 2 | 13 | 75 | 1 | 16:10 - 16:20 | 1 | 3 | 49 | 3 |
| 16:20 - 16:30 | 4 | 14 | 60 | 3 | 16:20 - 16:30 | 2 | 9 | 38 | 2 |
| 16:30 - 16:40 | 5 | 19 | 46 | 2 | 16:30 - 16:40 | 4 | 10 | 47 | 1 |
| 16:40 - 16:50 | 17 | 13 | 64 | 1 | 16:40 - 16:50 | 2 | 6 | 38 | 4 |
| 16:50 - 17:00 | 3 | 17 | 53 | 1 | 16:50 - 17:00 | 6 | 7 | 36 | 2 |
| 17:00 - 17:10 | 5 | 19 | 67 | 0 | 17:00 - 17:10 | 4 | 9 | 48 | 1 |
| 17:10 - 17:20 | 4 | 11 | 65 | 2 | 17:10 - 17:20 | 2 | 4 | 37 | 1 |
| 17:20 - 17:30 | 6 | 28 | 85 | 3 | 17:20 - 17:30 | 1 | 13 | 44 | 2 |
| 17:30 - 17:40 | 8 | 11 | 60 | 0 | 17:30 - 17:40 | 4 | 6 | 31 | 3 |
| 17:40 - 17:50 | 8 | 12 | 68 | 1 | 17:40 - 17:50 | 1 | 10 | 36 | 3 |
| 17:50 - 18:00 | 5 | 17 | 42 | 0 | 17:50 - 18:00 | 3 | 8 | 34 | 2 |
| 18:00 - 18:10 | 6 | 13 | 40 | 2 | 18:00 - 18:10 | 1 | 11 | 35 | 2 |
| 18:10 - 18:20 | 7 | 20 | 45 | 0 | 18:10 - 18:20 | 1 | 14 | 44 | 2 |
| 18:20 - 18:30 | 3 | 10 | 42 | 0 | 18:20 - 18:30 | 3 | 11 | 45 | 6 |



DATE 18/01/2018
LOCATION IS03-2
STATION A

GEOCONSULT

| DIRECTION 1 | | | | | DIRECTION 2 | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
| 6:40 - 6:50 | 1 | 17 | 7 | 0 | 6:40 - 6:50 | 0 | 35 | 39 | 0 |
| 6:50 -7:00 | 6 | 5 | 3 | 0 | 6:50 -7:00 | 3 | 39 | 61 | 1 |
| 7:00 - 7:10 | 1 | 11 | 32 | 0 | 7:00 - 7:10 | 3 | 17 | 64 | 1 |
| 7:10 - 7:20 | 1 | 6 | 13 | 0 | 7:10 - 7:20 | 1 | 13 | 28 | 1 |
| 7:20 - 7:30 | 3 | 1 | 41 | 0 | 7:20 - 7:30 | 4 | 27 | 13 | 0 |
| 7:30 - 7:40 | 5 | 2 | 46 | 1 | 7:30 - 7:40 | 0 | 35 | 21 | 0 |
| 7:40 - 7:50 | 8 | 0 | 30 | 0 | 7:40 - 7:50 | 1 | 29 | 24 | 0 |
| 7:50 - 8:00 | 2 | 3 | 56 | 0 | 7:50 - 8:00 | 1 | 31 | 20 | 0 |
| 8:00 - 8:10 | 3 | 11 | 51 | 0 | 8:00 - 8:10 | 1 | 29 | 13 | 0 |
| 8:10 - 8:20 | 3 | 10 | 55 | 0 | 8:10 - 8:20 | 1 | 22 | 16 | 0 |
| 8:20 - 8:30 | 4 | 15 | 40 | 0 | 8:20 - 8:30 | 3 | 23 | 16 | 0 |
| 8:30 - 8:40 | 6 | 9 | 47 | 0 | 8:30 - 8:40 | 2 | 28 | 26 | 0 |
| 8:40 - 8:50 | 9 | 2 | 41 | 0 | 8:40 - 8:50 | 0 | 21 | 22 | 0 |
| 8:50 - 9:00 | 7 | 1 | 50 | 0 | 8:50 - 9:00 | 0 | 25 | 24 | 1 |
| 9:00 - 9:10 | 8 | 6 | 43 | 0 | 9:00 - 9:10 | 2 | 22 | 24 | 0 |
| 9:10 - 9:20 | 6 | 1 | 45 | 0 | 9:10 - 9:20 | 5 | 15 | 23 | 0 |
| 9:20 - 9:30 | 6 | 9 | 64 | 0 | 9:20 - 9:30 | 0 | 22 | 24 | 1 |
| 9:30 - 9:40 | 4 | 5 | 76 | 0 | 9:30 - 9:40 | 3 | 17 | 26 | 0 |
| | | | | | | | | | |
| 15:30 - 15:40 | 6 | 2 | 53 | 0 | 15:30 - 15:40 | 2 | 18 | 21 | 1 |
| 15:40 - 15:50 | 4 | 6 | 49 | 0 | 15:40 - 15:50 | 1 | 17 | 24 | 0 |
| 15:50 - 16:00 | 7 | 4 | 54 | 2 | 15:50 - 16:00 | 4 | 17 | 25 | 3 |
| 16:00 - 16:10 | 8 | 3 | 65 | 2 | 16:00 - 16:10 | 1 | 15 | 28 | 0 |
| 16:10 - 16:20 | 8 | 5 | 45 | 1 | 16:10 - 16:20 | 2 | 10 | 17 | 1 |
| 16:20 - 16:30 | 5 | 5 | 58 | 1 | 16:20 - 16:30 | 2 | 19 | 13 | 0 |
| 16:30 - 16:40 | 10 | 2 | 49 | 1 | 16:30 - 16:40 | 2 | 8 | 26 | 1 |
| 16:40 - 16:50 | 8 | 6 | 41 | 1 | 16:40 - 16:50 | 1 | 16 | 22 | 2 |
| 16:50 - 17:00 | 8 | 3 | 51 | 0 | 16:50 - 17:00 | 4 | 9 | 15 | 0 |
| 17:00 - 17:10 | 4 | 3 | 44 | 0 | 17:00 - 17:10 | 1 | 17 | 20 | 0 |
| 17:10 - 17:20 | 3 | 4 | 54 | 0 | 17:10 - 17:20 | 2 | 12 | 30 | 0 |
| 17:20 - 17:30 | 4 | 2 | 67 | 0 | 17:20 - 17:30 | 3 | 7 | 17 | 1 |
| 17:30 - 17:40 | 5 | 4 | 41 | 0 | 17:30 - 17:40 | 2 | 13 | 33 | 0 |
| 17:40 - 17:50 | 5 | 3 | 41 | 2 | 17:40 - 17:50 | 4 | 16 | 19 | 2 |
| 17:50 - 18:00 | 3 | 1 | 38 | 1 | 17:50 - 18:00 | 3 | 18 | 20 | 1 |
| 18:00 - 18:10 | 5 | 4 | 30 | 0 | 18:00 - 18:10 | 3 | 12 | 23 | 0 |
| 18:10 - 18:20 | 5 | 3 | 29 | 1 | 18:10 - 18:20 | 3 | 16 | 27 | 1 |
| 18:20 - 18:30 | 4 | 3 | 47 | 0 | 18:20 - 18:30 | 1 | 24 | 28 | 0 |

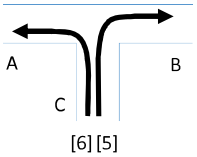





DATE 22/11/2017
LOCATION IS03/1
STATION C

GEOCONSULT

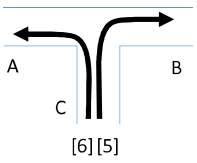
| DIRECTION 5 | | | | | DIRECTION 6 | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
| 6:30 - 6:40 | 0 | 9 | 13 | 0 | 6:30 - 6:40 | 0 | 8 | 16 | 0 |
| 6:40 - 6:50 | 0 | 10 | 16 | 0 | 6:40 - 6:50 | 0 | 21 | 23 | 0 |
| 6:50 -7:00 | 0 | 13 | 11 | 0 | 6:50 - 7:00 | 2 | 27 | 32 | 1 |
| 7:00 - 7:10 | 0 | 10 | 12 | 0 | 7:00 - 7:10 | 1 | 34 | 34 | 0 |
| 7:10 - 7:20 | 0 | 0 | 4 | 0 | 7:10 - 7:20 | 1 | 36 | 30 | 0 |
| 7:20 - 7:30 | 0 | 1 | 10 | 0 | 7:20 - 7:30 | 2 | 30 | 20 | 0 |
| 7:30 - 7:40 | 1 | 5 | 35 | 0 | 7:30 - 7:40 | 10 | 52 | 67 | 0 |
| 7:40 - 7:50 | 0 | 0 | 20 | 0 | 7:40 - 7:50 | 4 | 10 | 20 | 0 |
| 7:50 - 8:00 | 0 | 8 | 14 | 0 | 7:50 - 8:00 | 4 | 51 | 35 | 0 |
| 8:00 - 8:10 | 0 | 17 | 20 | 2 | 8:00 - 8:10 | 10 | 42 | 43 | 0 |
| 8:10 - 8:20 | 0 | 10 | 18 | 0 | 8:10 - 8:20 | 3 | 37 | 33 | 1 |
| 8:20 - 8:30 | 1 | 11 | 19 | 0 | 8:20 - 8:30 | 4 | 14 | 12 | 0 |
| 8:30 - 8:40 | 1 | 0 | 15 | 0 | 8:30 - 8:40 | 5 | 44 | 30 | 1 |
| 8:40 - 8:50 | 1 | 8 | 20 | 3 | 8:40 - 8:50 | 3 | 36 | 24 | 0 |
| 8:50 - 9:00 | 1 | 7 | 12 | 0 | 8:50 - 9:00 | 4 | 36 | 28 | 0 |
| 9:00 - 9:10 | 2 | 7 | 23 | 0 | 9:00 - 9:10 | 2 | 35 | 32 | 0 |
| 9:10 - 9:20 | 2 | 4 | 33 | 1 | 9:10 - 9:20 | 3 | 24 | 31 | 1 |
| 9:20 - 9:30 | 2 | 3 | 18 | 0 | 9:20 - 9:30 | 9 | 21 | 29 | 2 |
| 9:30 - 9:40 | 0 | 3 | 15 | 0 | 9:30 - 9:40 | 5 | 27 | 27 | 0 |
| 9:40 - 9:50 | 2 | 4 | 35 | 0 | 9:40 - 9:50 | 1 | 19 | 40 | 1 |
| 9:50 - 10:00 | 0 | 8 | 28 | 0 | 9:50 - 10:00 | 1 | 9 | 20 | 0 |
| | | | | | | | | | |
| 15:30 - 15:40 | 1 | 5 | 70 | 0 | 15:30 - 15:40 | 9 | 33 | 35 | 0 |
| 15:40 - 15:50 | 2 | 5 | 41 | 0 | 15:40 - 15:50 | 4 | 30 | 36 | 0 |
| 15:50 - 16:00 | 1 | 13 | 34 | 0 | 15:50 - 16:00 | 4 | 13 | 37 | 0 |
| 16:00 - 16:10 | 2 | 9 | 45 | 1 | 16:00 - 16:10 | 6 | 5 | 7 | 0 |
| 16:10 - 16:20 | 2 | 7 | 40 | 0 | 16:10 - 16:20 | 5 | 24 | 26 | 0 |
| 16:20 - 16:30 | 2 | 6 | 31 | 1 | 16:20 - 16:30 | 5 | 24 | 18 | 1 |
| 16:30 - 16:40 | 5 | 13 | 45 | 0 | 16:30 - 16:40 | 1 | 12 | 34 | 0 |
| 16:40 - 16:50 | 3 | 11 | 41 | 1 | 16:40 - 16:50 | 7 | 10 | 30 | 1 |
| 16:50 - 17:00 | 2 | 4 | 26 | 0 | 16:50 - 17:00 | 7 | 7 | 22 | 0 |
| 17:00 - 17:10 | 0 | 8 | 44 | 0 | 17:00 - 17:10 | 9 | 13 | 45 | 0 |
| 17:10 - 17:20 | 0 | 5 | 54 | 1 | 17:10 - 17:20 | 4 | 10 | 38 | 0 |
| 17:20 - 17:30 | 2 | 20 | 68 | 0 | 17:20 - 17:30 | 6 | 23 | 22 | 0 |
| 17:30 - 17:40 | 2 | 4 | 28 | 0 | 17:30 - 17:40 | 3 | 0 | 23 | 0 |
| 17:40 - 17:50 | 2 | 4 | 54 | 0 | 17:40 - 17:50 | 5 | 13 | 24 | 0 |
| 17:50 - 18:00 | 0 | 1 | 36 | 0 | 17:50 - 18:00 | 2 | 13 | 31 | 0 |
| 18:00 - 18:10 | 2 | 0 | 45 | 0 | 18:00 - 18:10 | 1 | 13 | 36 | 1 |
| 18:10 - 18:20 | 0 | 1 | 35 | 0 | 18:10 - 18:20 | 2 | 25 | 39 | 1 |
| 18:20 - 18:30 | 1 | 0 | 53 | 0 | 18:20 - 18:30 | 12 | 17 | 47 | 0 |



DATE 18/01/2018
LOCATION IS03-2
STATION C

GEOCONSULT

| DIRECTION 5 | | | | | DIRECTION 6 | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
| 6:40 - 6:50 | 1 | 0 | 3 | 0 | 6:40 - 6:50 | 2 | 1 | 35 | 0 |
| 6:50 -7:00 | 0 | 0 | 2 | 0 | 6:50 -7:00 | 1 | 1 | 31 | 0 |
| 7:00 - 7:10 | 0 | 0 | 0 | 0 | 7:00 - 7:10 | 2 | 7 | 45 | 0 |
| 7:10 - 7:20 | 0 | 0 | 2 | 0 | 7:10 - 7:20 | 1 | 5 | 66 | 0 |
| 7:20 - 7:30 | 0 | 0 | 0 | 0 | 7:20 - 7:30 | 2 | 2 | 91 | 0 |
| 7:30 - 7:40 | 0 | 0 | 0 | 0 | 7:30 - 7:40 | 5 | 0 | 59 | 0 |
| 7:40 - 7:50 | 0 | 0 | 0 | 0 | 7:40 - 7:50 | 4 | 1 | 84 | 0 |
| 7:50 - 8:00 | 0 | 0 | 0 | 0 | 7:50 - 8:00 | 5 | 0 | 52 | 0 |
| 8:00 - 8:10 | 0 | 0 | 0 | 0 | 8:00 - 8:10 | 7 | 1 | 58 | 0 |
| 8:10 - 8:20 | 0 | 0 | 0 | 0 | 8:10 - 8:20 | 6 | 5 | 59 | 0 |
| 8:20 - 8:30 | 0 | 0 | 0 | 0 | 8:20 - 8:30 | 1 | 0 | 43 | 0 |
| 8:30 - 8:40 | 0 | 0 | 0 | 0 | 8:30 - 8:40 | 4 | 0 | 31 | 0 |
| 8:40 - 8:50 | 0 | 0 | 0 | 0 | 8:40 - 8:50 | 3 | 3 | 40 | 0 |
| 8:50 - 9:00 | 0 | 0 | 0 | 0 | 8:50 - 9:00 | 3 | 2 | 33 | 0 |
| 9:00 - 9:10 | 0 | 0 | 1 | 0 | 9:00 - 9:10 | 10 | 1 | 46 | 0 |
| 9:10 - 9:20 | 0 | 0 | 1 | 0 | 9:10 - 9:20 | 3 | 0 | 44 | 0 |
| 9:20 - 9:30 | 0 | 0 | 0 | 0 | 9:20 - 9:30 | 9 | 2 | 50 | 0 |
| 9:30 - 9:40 | 0 | 0 | 0 | 0 | 9:30 - 9:40 | 8 | 1 | 47 | 0 |
| | | | | | | | | | |
| 15:30 - 15:40 | 0 | 0 | 1 | 0 | 15:30 - 15:40 | 4 | 2 | 57 | 0 |
| 15:40 - 15:50 | 0 | 0 | 0 | 0 | 15:40 - 15:50 | 1 | 1 | 51 | 0 |
| 15:50 - 16:00 | 0 | 0 | 1 | 0 | 15:50 - 16:00 | 1 | 1 | 52 | 0 |
| 16:00 - 16:10 | 0 | 0 | 1 | 0 | 16:00 - 16:10 | 2 | 3 | 46 | 0 |
| 16:10 - 16:20 | 0 | 0 | 0 | 0 | 16:10 - 16:20 | 3 | 0 | 52 | 2 |
| 16:20 - 16:30 | 0 | 0 | 0 | 0 | 16:20 - 16:30 | 1 | 4 | 37 | 0 |
| 16:30 - 16:40 | 0 | 0 | 0 | 0 | 16:30 - 16:40 | 4 | 2 | 50 | 0 |
| 16:40 - 16:50 | 0 | 0 | 0 | 0 | 16:40 - 16:50 | 4 | 1 | 64 | 0 |
| 16:50 - 17:00 | 0 | 0 | 0 | 0 | 16:50 - 17:00 | 2 | 1 | 64 | 0 |
| 17:00 - 17:10 | 0 | 0 | 1 | 0 | 17:00 - 17:10 | 2 | 1 | 70 | 0 |
| 17:10 - 17:20 | 0 | 0 | 0 | 0 | 17:10 - 17:20 | 0 | 1 | 58 | 0 |
| 17:20 - 17:30 | 0 | 0 | 0 | 0 | 17:20 - 17:30 | 4 | 1 | 64 | 0 |
| 17:30 - 17:40 | 0 | 0 | 0 | 0 | 17:30 - 17:40 | 2 | 1 | 40 | 0 |
| 17:40 - 17:50 | 0 | 0 | 0 | 0 | 17:40 - 17:50 | 2 | 0 | 24 | 0 |
| 17:50 - 18:00 | 0 | 0 | 1 | 0 | 17:50 - 18:00 | 3 | 0 | 39 | 0 |
| 18:00 - 18:10 | 0 | 0 | 1 | 0 | 18:00 - 18:10 | 1 | 1 | 31 | 0 |
| 18:10 - 18:20 | 0 | 0 | 1 | 0 | 18:10 - 18:20 | 3 | 2 | 38 | 0 |
| 18:20 - 18:30 | 0 | 0 | 1 | 0 | 18:20 - 18:30 | 5 | 1 | 25 | 0 |

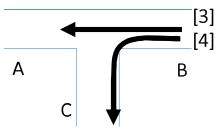





DATE 18/01/2018
LOCATION IS03-2
STATION B

GEOCONSULT

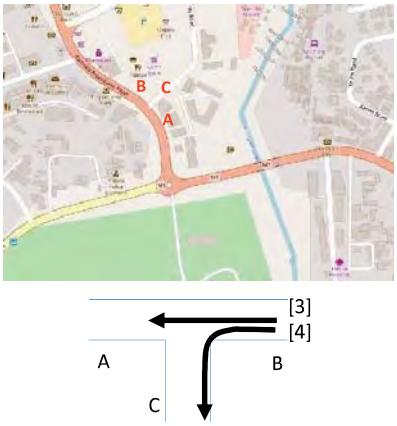
| DIRECTION 3 | | | | | DIRECTION 4 | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
| 6:40 - 6:50 | 1 | 24 | 30 | 1 | 6:40 - 6:50 | 0 | 1 | 0 | 0 |
| 6:50 -7:00 | 3 | 17 | 33 | 1 | 6:50 -7:00 | 0 | 0 | 8 | 0 |
| 7:00 - 7:10 | 4 | 20 | 66 | 0 | 7:00 - 7:10 | 0 | 2 | 6 | 0 |
| 7:10 - 7:20 | 1 | 22 | 87 | 0 | 7:10 - 7:20 | 0 | 1 | 2 | 0 |
| 7:20 - 7:30 | 0 | 25 | 68 | 1 | 7:20 - 7:30 | 1 | 0 | 9 | 0 |
| 7:30 - 7:40 | 2 | 28 | 60 | 0 | 7:30 - 7:40 | 0 | 0 | 9 | 0 |
| 7:40 - 7:50 | 6 | 17 | 85 | 1 | 7:40 - 7:50 | 0 | 1 | 17 | 0 |
| 7:50 - 8:00 | 3 | 18 | 74 | 2 | 7:50 - 8:00 | 1 | 0 | 15 | 0 |
| 8:00 - 8:10 | 5 | 23 | 70 | 1 | 8:00 - 8:10 | 0 | 1 | 8 | 0 |
| 8:10 - 8:20 | 7 | 27 | 58 | 1 | 8:10 - 8:20 | 3 | 3 | 23 | 0 |
| 8:20 - 8:30 | 8 | 17 | 83 | 0 | 8:20 - 8:30 | 1 | 0 | 14 | 0 |
| 8:30 - 8:40 | 6 | 17 | 47 | 0 | 8:30 - 8:40 | 0 | 1 | 16 | 0 |
| 8:40 - 8:50 | 4 | 17 | 55 | 1 | 8:40 - 8:50 | 1 | 0 | 8 | 0 |
| 8:50 - 9:00 | 5 | 19 | 54 | 2 | 8:50 - 9:00 | 1 | 2 | 11 | 0 |
| 9:00 - 9:10 | 6 | 21 | 60 | 2 | 9:00 - 9:10 | 1 | 0 | 9 | 0 |
| 9:10 - 9:20 | 1 | 17 | 60 | 2 | 9:10 - 9:20 | 2 | 0 | 11 | 0 |
| 9:20 - 9:30 | 7 | 20 | 54 | 2 | 9:20 - 9:30 | 2 | 0 | 19 | 0 |
| 9:30 - 9:40 | 5 | 20 | 54 | 2 | 9:30 - 9:40 | 2 | 1 | 18 | 0 |
| | | | | | | | | | |
| 15:30 - 15:40 | 2 | 26 | 64 | 2 | 15:30 - 15:40 | 1 | 1 | 8 | 0 |
| 15:40 - 15:50 | 4 | 18 | 70 | 3 | 15:40 - 15:50 | 1 | 1 | 11 | 0 |
| 15:50 - 16:00 | 5 | 20 | 69 | 0 | 15:50 - 16:00 | 2 | 0 | 15 | 0 |
| 16:00 - 16:10 | 4 | 21 | 66 | 2 | 16:00 - 16:10 | 2 | 0 | 15 | 0 |
| 16:10 - 16:20 | 5 | 19 | 62 | 2 | 16:10 - 16:20 | 0 | 0 | 8 | 0 |
| 16:20 - 16:30 | 3 | 20 | 80 | 4 | 16:20 - 16:30 | 2 | 0 | 10 | 0 |
| 16:30 - 16:40 | 1 | 23 | 78 | 0 | 16:30 - 16:40 | 2 | 1 | 6 | 0 |
| 16:40 - 16:50 | 5 | 12 | 56 | 4 | 16:40 - 16:50 | 1 | 2 | 7 | 0 |
| 16:50 - 17:00 | 5 | 21 | 62 | 1 | 16:50 - 17:00 | 1 | 0 | 10 | 0 |
| 17:00 - 17:10 | 4 | 19 | 64 | 2 | 17:00 - 17:10 | 5 | 1 | 8 | 0 |
| 17:10 - 17:20 | 1 | 29 | 56 | 0 | 17:10 - 17:20 | 0 | 0 | 6 | 0 |
| 17:20 - 17:30 | 4 | 18 | 55 | 3 | 17:20 - 17:30 | 1 | 1 | 8 | 0 |
| 17:30 - 17:40 | 5 | 15 | 51 | 2 | 17:30 - 17:40 | 0 | 1 | 8 | 0 |
| 17:40 - 17:50 | 6 | 25 | 65 | 2 | 17:40 - 17:50 | 1 | 1 | 4 | 0 |
| 17:50 - 18:00 | 6 | 17 | 36 | 4 | 17:50 - 18:00 | 0 | 2 | 6 | 1 |
| 18:00 - 18:10 | 5 | 25 | 58 | 1 | 18:00 - 18:10 | 0 | 3 | 7 | 0 |
| 18:10 - 18:20 | 3 | 18 | 41 | 0 | 18:10 - 18:20 | 1 | 0 | 9 | 1 |
| 18:20 - 18:30 | 2 | 13 | 51 | 1 | 18:20 - 18:30 | 1 | 0 | 4 | 0 |



DATE 21-11-17
LOCATION IS04
STATION B

GEOCONSULT

| DIRECTION 3 | | | | | DIRECTION 4 | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
| 6:30 - 6:40 | 0 | 7 | 14 | 0 | 6:30 - 6:40 | 0 | 0 | 0 | 0 |
| 6:40 - 6:50 | 0 | 14 | 17 | 0 | 6:40 - 6:50 | 0 | 0 | 0 | 0 |
| 6:50 -7:00 | 1 | 17 | 23 | 1 | 6:50 -7:00 | 0 | 0 | 0 | 0 |
| 7:00 - 7:10 | 1 | 16 | 27 | 0 | 7:00 - 7:10 | 0 | 0 | 3 | 0 |
| 7:10 - 7:20 | 0 | 50 | 51 | 0 | 7:10 - 7:20 | 2 | 1 | 4 | 0 |
| 7:20 - 7:30 | 2 | 37 | 38 | 1 | 7:20 - 7:30 | 1 | 4 | 5 | 0 |
| 7:30 - 7:40 | 0 | 66 | 58 | 0 | 7:30 - 7:40 | 0 | 2 | 8 | 0 |
| 7:40 - 7:50 | 3 | 78 | 66 | 1 | 7:40 - 7:50 | 1 | 6 | 4 | 0 |
| 7:50 - 8:00 | 3 | 21 | 12 | 1 | 7:50 - 8:00 | 1 | 1 | 5 | 0 |
| 8:00 - 8:10 | 0 | 2 | 0 | 0 | 8:00 - 8:10 | 0 | 0 | 6 | 0 |
| 8:10 - 8:20 | 0 | 2 | 3 | 0 | 8:10 - 8:20 | 0 | 0 | 3 | 0 |
| 8:20 - 8:30 | 2 | 39 | 31 | 1 | 8:20 - 8:30 | 0 | 2 | 5 | 0 |
| 8:30 - 8:40 | 3 | 26 | 49 | 0 | 8:30 - 8:40 | 0 | 7 | 8 | 0 |
| 8:40 - 8:50 | 0 | 21 | 20 | 0 | 8:40 - 8:50 | 1 | 5 | 6 | 0 |
| 8:50 - 9:00 | 0 | 23 | 18 | 0 | 8:50 - 9:00 | 1 | 3 | 5 | 0 |
| 9:00 - 9:10 | 2 | 33 | 30 | 0 | 9:00 - 9:10 | 0 | 4 | 9 | 0 |
| 9:10 - 9:20 | 1 | 32 | 45 | 1 | 9:10 - 9:20 | 0 | 6 | 1 | 0 |
| 9:20 - 9:30 | 1 | 26 | 32 | 0 | 9:20 - 9:30 | 1 | 4 | 4 | 0 |
| 9:30 - 9:40 | 3 | 35 | 26 | 1 | 9:30 - 9:40 | 0 | 2 | 7 | 0 |
| | | | | | | | | | |
| 15:30 - 15:40 | 5 | 6 | 31 | 1 | 15:30 - 15:40 | 1 | 5 | 3 | 0 |
| 15:40 - 15:50 | 1 | 21 | 40 | 3 | 15:40 - 15:50 | 1 | 4 | 6 | 0 |
| 15:50 - 16:00 | 6 | 10 | 58 | 1 | 15:50 - 16:00 | 2 | 2 | 5 | 0 |
| 16:00 - 16:10 | 3 | 22 | 38 | 1 | 16:00 - 16:10 | 0 | 3 | 3 | 0 |
| 16:10 - 16:20 | 5 | 24 | 50 | 0 | 16:10 - 16:20 | 0 | 6 | 2 | 0 |
| 16:20 - 16:30 | 6 | 9 | 38 | 0 | 16:20 - 16:30 | 0 | 7 | 4 | 0 |
| 16:30 - 16:40 | 4 | 19 | 45 | 2 | 16:30 - 16:40 | 1 | 5 | 8 | 0 |
| 16:40 - 16:50 | 2 | 7 | 34 | 1 | 16:40 - 16:50 | 0 | 4 | 2 | 0 |
| 16:50 - 17:00 | 4 | 26 | 57 | 3 | 16:50 - 17:00 | 1 | 2 | 4 | 0 |
| 17:00 - 17:10 | 2 | 12 | 38 | 0 | 17:00 - 17:10 | 0 | 4 | 5 | 0 |
| 17:10 - 17:20 | 1 | 16 | 49 | 0 | 17:10 - 17:20 | 2 | 2 | 9 | 0 |
| 17:20 - 17:30 | 2 | 20 | 54 | 0 | 17:20 - 17:30 | 2 | 1 | 6 | 0 |
| 17:30 - 17:40 | 3 | 10 | 57 | 0 | 17:30 - 17:40 | 0 | 2 | 7 | 0 |
| 17:40 - 17:50 | 1 | 24 | 42 | 0 | 17:40 - 17:50 | 0 | 2 | 6 | 0 |
| 17:50 - 18:00 | 0 | 8 | 22 | 1 | 17:50 - 18:00 | 1 | 3 | 4 | 0 |
| 18:00 - 18:10 | 0 | 9 | 37 | 2 | 18:00 - 18:10 | 0 | 1 | 3 | 0 |
| 18:10 - 18:20 | 2 | 6 | 26 | 1 | 18:10 - 18:20 | 0 | 1 | 2 | 0 |
| 18:20 - 18:30 | 0 | 13 | 23 | 1 | 18:20 - 18:30 | 0 | 0 | 0 | 0 |

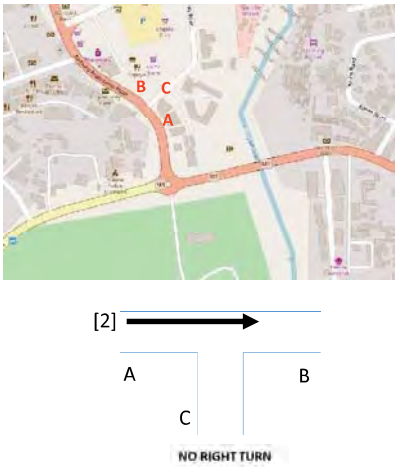





DATE 21-11-17
LOCATION IS04
STATION A

GEOCONSULT

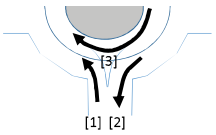
| DIRECTION 1 | | | | | DIRECTION 2 | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
| 6:30 - 6:40 | | NO RIGHT TURN | | | 6:30 - 6:40 | 0 | 4 | 14 | 0 |
| 6:40 - 6:50 | | | | | 6:40 - 6:50 | 0 | 20 | 19 | 1 |
| 6:50 -7:00 | | | | | 6:50 -7:00 | 2 | 33 | 11 | 0 |
| 7:00 - 7:10 | | | | | 7:00 - 7:10 | 0 | 45 | 5 | 0 |
| 7:10 - 7:20 | | | | | 7:10 - 7:20 | 0 | 24 | 17 | 4 |
| 7:20 - 7:30 | | | | | 7:20 - 7:30 | 3 | 31 | 33 | 1 |
| 7:30 - 7:40 | | | | | 7:30 - 7:40 | 2 | 41 | 51 | 0 |
| 7:40 - 7:50 | | | | | 7:40 - 7:50 | 4 | 49 | 63 | 2 |
| 7:50 - 8:00 | | | | | 7:50 - 8:00 | 8 | 62 | 145 | 0 |
| 8:00 - 8:10 | | | | | 8:00 - 8:10 | 8 | 10 | 46 | 2 |
| 8:10 - 8:20 | | | | | 8:10 - 8:20 | 4 | 46 | 76 | 1 |
| 8:20 - 8:30 | | | | | 8:20 - 8:30 | 7 | 20 | 70 | 4 |
| 8:30 - 8:40 | | | | | 8:30 - 8:40 | 10 | 27 | 59 | 3 |
| 8:40 - 8:50 | | | | | 8:40 - 8:50 | 8 | 24 | 66 | 2 |
| 8:50 - 9:00 | | | | | 8:50 - 9:00 | 7 | 31 | 71 | 0 |
| 9:00 - 9:10 | | | | | 9:00 - 9:10 | 15 | 25 | 81 | 2 |
| 9:10 - 9:20 | | | | | 9:10 - 9:20 | 2 | 27 | 80 | 4 |
| 9:20 - 9:30 | | | | | 9:20 - 9:30 | 4 | 25 | 64 | 0 |
| 9:30 - 9:40 | | | | | 9:30 - 9:40 | 11 | 18 | 68 | 0 |
| | | | | | | | | | |
| 15:30 - 15:40 | | | | | 15:30 - 15:40 | 4 | 19 | 52 | 3 |
| 15:40 - 15:50 | | | | | 15:40 - 15:50 | 4 | 11 | 35 | 3 |
| 15:50 - 16:00 | | | | | 15:50 - 16:00 | 9 | 28 | 85 | 5 |
| 16:00 - 16:10 | | | | | 16:00 - 16:10 | 6 | 20 | 76 | 0 |
| 16:10 - 16:20 | | | | | 16:10 - 16:20 | 5 | 27 | 75 | 3 |
| 16:20 - 16:30 | | | | | 16:20 - 16:30 | 8 | 25 | 63 | 2 |
| 16:30 - 16:40 | | | | | 16:30 - 16:40 | 6 | 36 | 67 | 2 |
| 16:40 - 16:50 | | | | | 16:40 - 16:50 | 13 | 19 | 62 | 1 |
| 16:50 - 17:00 | | | | | 16:50 - 17:00 | 10 | 37 | 83 | 2 |
| 17:00 - 17:10 | | | | | 17:00 - 17:10 | 5 | 25 | 44 | 0 |
| 17:10 - 17:20 | | | | | 17:10 - 17:20 | 5 | 22 | 49 | 1 |
| 17:20 - 17:30 | | | | | 17:20 - 17:30 | 6 | 37 | 52 | 0 |
| 17:30 - 17:40 | | | | | 17:30 - 17:40 | 4 | 23 | 66 | 1 |
| 17:40 - 17:50 | | | | | 17:40 - 17:50 | 6 | 18 | 75 | 0 |
| 17:50 - 18:00 | | | | | 17:50 - 18:00 | 7 | 19 | 42 | 3 |
| 18:00 - 18:10 | | | | | 18:00 - 18:10 | 8 | 30 | 59 | 0 |
| 18:10 - 18:20 | | | | | 18:10 - 18:20 | 4 | 32 | 67 | 0 |
| 18:20 - 18:30 | | | | | 18:20 - 18:30 | 6 | 30 | 65 | 4 |



DATE 21/11/2017
LOCATION IS05
STATION A

GEOCONSULT

| DIRECTION 1 | | | | | DIRECTION 2 | | | | | DIRECTION 3 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
| 6:30 - 6:40 | 0 | 5 | 19 | 4 | 6:30 - 6:40 | 0 | 9 | 17 | 2 | 6:30 - 6:40 | 0 | 0 | 11 | 0 |
| 6:40 - 6:50 | 0 | 12 | 21 | 1 | 6:40 - 6:50 | 7 | 8 | 15 | 0 | 6:40 - 6:50 | 0 | 12 | 14 | 0 |
| 6:50 -7:00 | 1 | 17 | 27 | 7 | 6:50 -7:00 | 9 | 14 | 24 | 2 | 6:50 -7:00 | 3 | 17 | 30 | 1 |
| 7:00 - 7:10 | 0 | 8 | 25 | 9 | 7:00 - 7:10 | 11 | 7 | 36 | 0 | 7:00 - 7:10 | 0 | 21 | 7 | 3 |
| 7:10 - 7:20 | 4 | 19 | 3 | 13 | 7:10 - 7:20 | 15 | 17 | 30 | 10 | 7:10 - 7:20 | 15 | 33 | 47 | 0 |
| 7:20 - 7:30 | 30 | 6 | 15 | 12 | 7:20 - 7:30 | 10 | 35 | 15 | 10 | 7:20 - 7:30 | 10 | 13 | 41 | 3 |
| 7:30 - 7:40 | 15 | 37 | 35 | 15 | 7:30 - 7:40 | 10 | 20 | 55 | 0 | 7:30 - 7:40 | 15 | 38 | 90 | 0 |
| 7:40 - 7:50 | 6 | 12 | 30 | 5 | 7:40 - 7:50 | 6 | 15 | 20 | 0 | 7:40 - 7:50 | 20 | 17 | 43 | 1 |
| 7:50 - 8:00 | 46 | 85 | 60 | 11 | 7:50 - 8:00 | 40 | 55 | 85 | 16 | 7:50 - 8:00 | 36 | 90 | 100 | 0 |
| 8:00 - 8:10 | 45 | 90 | 50 | 0 | 8:00 - 8:10 | 30 | 60 | 75 | 30 | 8:00 - 8:10 | 45 | 30 | 50 | 0 |
| 8:10 - 8:20 | 50 | 55 | 75 | 0 | 8:10 - 8:20 | 0 | 15 | 30 | 15 | 8:10 - 8:20 | 0 | 10 | 40 | 1 |
| 8:20 - 8:30 | 0 | 0 | 5 | 0 | 8:20 - 8:30 | 15 | 44 | 67 | 1 | 8:20 - 8:30 | 6 | 49 | 85 | 2 |
| 8:30 - 8:40 | 0 | 3 | 14 | 6 | 8:30 - 8:40 | 7 | 32 | 100 | 2 | 8:30 - 8:40 | 16 | 30 | 71 | 4 |
| 8:40 - 8:50 | 0 | 0 | 30 | 0 | 8:40 - 8:50 | 30 | 15 | 52 | 2 | 8:40 - 8:50 | 40 | 10 | 31 | 0 |
| 8:50 - 9:00 | 0 | 3 | 15 | 1 | 8:50 - 9:00 | 41 | 80 | 95 | 0 | 8:50 - 9:00 | 7 | 61 | 110 | 31 |
| 9:00 - 9:10 | 0 | 0 | 31 | 2 | 9:00 - 9:10 | 0 | 13 | 77 | 3 | 9:00 - 9:10 | 3 | 45 | 95 | 1 |
| 9:10 - 9:20 | 1 | 0 | 10 | 0 | 9:10 - 9:20 | 11 | 30 | 70 | 5 | 9:10 - 9:20 | 16 | 26 | 110 | 1 |
| 9:20 - 9:30 | 0 | 0 | 6 | 2 | 9:20 - 9:30 | 1 | 20 | 125 | 1 | 9:20 - 9:30 | 3 | 65 | 95 | 3 |
| 9:30 - 9:40 | 0 | 0 | 2 | 0 | 9:30 - 9:40 | 0 | 3 | 50 | 1 | 9:30 - 9:40 | 6 | 12 | 56 | 0 |
| 9:40 - 9:50 | 0 | 0 | 8 | 2 | 9:40 - 9:50 | 4 | 21 | 66 | 2 | 9:40 - 9:50 | 8 | 23 | 90 | 1 |
| 9:50 - 10:00 | 0 | 0 | 3 | 2 | 9:50 - 10:00 | 2 | 2 | 58 | 1 | 9:50 - 10:00 | 3 | 25 | 58 | 5 |
| | | | | | | | | | | | | | | |
| 15:30 - 15:40 | 1 | 0 | 6 | 3 | 15:30 - 15:40 | 1 | 3 | 55 | 1 | 15:30 - 15:40 | 1 | 35 | 52 | 2 |
| 15:40 - 15:50 | 1 | 0 | 10 | 1 | 15:40 - 15:50 | 3 | 24 | 47 | 2 | 15:40 - 15:50 | 8 | 30 | 80 | 4 |
| 15:50 - 16:00 | 2 | 1 | 11 | 0 | 15:50 - 16:00 | 1 | 20 | 46 | 1 | 15:50 - 16:00 | 2 | 23 | 96 | 3 |
| 16:00 - 16:10 | 0 | 1 | 21 | 2 | 16:00 - 16:10 | 2 | 37 | 55 | 10 | 16:00 - 16:10 | 5 | 24 | 82 | 3 |
| 16:10 - 16:20 | 0 | 0 | 20 | 0 | 16:10 - 16:20 | 3 | 17 | 55 | 3 | 16:10 - 16:20 | 3 | 36 | 57 | 5 |
| 16:20 - 16:30 | 0 | 0 | 14 | 0 | 16:20 - 16:30 | 2 | 14 | 48 | 2 | 16:20 - 16:30 | 3 | 18 | 51 | 1 |
| 16:30 - 16:40 | 0 | 0 | 3 | 0 | 16:30 - 16:40 | 3 | 7 | 47 | 0 | 16:30 - 16:40 | 2 | 37 | 48 | 4 |
| 16:40 - 16:50 | 0 | 1 | 11 | 2 | 16:40 - 16:50 | 3 | 13 | 35 | 4 | 16:40 - 16:50 | 6 | 25 | 65 | 1 |
| 16:50 - 17:00 | 0 | 0 | 30 | 0 | 16:50 - 17:00 | 24 | 21 | 71 | 1 | 16:50 - 17:00 | 14 | 41 | 85 | 2 |
| 17:00 - 17:10 | 0 | 1 | 5 | 3 | 17:00 - 17:10 | 6 | 8 | 50 | 2 | 17:00 - 17:10 | 5 | 21 | 48 | 1 |
| 17:10 - 17:20 | 0 | 0 | 3 | 0 | 17:10 - 17:20 | 1 | 21 | 58 | 1 | 17:10 - 17:20 | 5 | 46 | 61 | 0 |
| 17:20 - 17:30 | 0 | 0 | 8 | 0 | 17:20 - 17:30 | 2 | 24 | 65 | 0 | 17:20 - 17:30 | 6 | 35 | 55 | 1 |
| 17:30 - 17:40 | 0 | 0 | 5 | 0 | 17:30 - 17:40 | 1 | 37 | 80 | 0 | 17:30 - 17:40 | 0 | 45 | 80 | 1 |
| 17:40 - 17:50 | 0 | 0 | 6 | 0 | 17:40 - 17:50 | 3 | 25 | 52 | 2 | 17:40 - 17:50 | 5 | 45 | 60 | 0 |
| 17:50 - 18:00 | 0 | 0 | 3 | 0 | 17:50 - 18:00 | 2 | 32 | 56 | 0 | 17:50 - 18:00 | 3 | 45 | 72 | 3 |
| 18:00 - 18:10 | 0 | 0 | 2 | 0 | 18:00 - 18:10 | 2 | 20 | 26 | 0 | 18:00 - 18:10 | 2 | 23 | 66 | 0 |
| 18:10 - 18:20 | 0 | 1 | 2 | 0 | 18:10 - 18:20 | 1 | 10 | 48 | 0 | 18:10 - 18:20 | 4 | 27 | 50 | 4 |
| 18:20 - 18:30 | 0 | 0 | 3 | 1 | 18:20 - 18:30 | 1 | 12 | 35 | 1 | 18:20 - 18:30 | 3 | 29 | 49 | 2 |

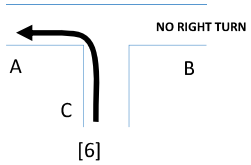





DATE 21-11-17
LOCATION IS04
STATION C

GEOCONSULT

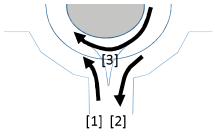
| DIRECTION 5 | | | | | DIRECTION 6 | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
| 6:30 - 6:40 | 0 | 30 | 36 | 0 | 6:30 - 6:40 | NO RIGHT TURN | | | |
| 6:40 - 6:50 | 1 | 54 | 62 | 0 | 6:40 - 6:50 | | | | |
| 6:50 -7:00 | 2 | 62 | 58 | 1 | 6:50 - 7:00 | | | | |
| 7:00 - 7:10 | 2 | 65 | 60 | 3 | 7:00 - 7:10 | | | | |
| 7:10 - 7:20 | 4 | 80 | 80 | 0 | 7:10 - 7:20 | | | | |
| 7:20 - 7:30 | 6 | 76 | 51 | 0 | 7:20 - 7:30 | | | | |
| 7:30 - 7:40 | 8 | 80 | 65 | 2 | 7:30 - 7:40 | | | | |
| 7:40 - 7:50 | 11 | 75 | 66 | 1 | 7:40 - 7:50 | | | | |
| 7:50 - 8:00 | 2 | 110 | 80 | 1 | 7:50 - 8:00 | | | | |
| 8:00 - 8:10 | 4 | 131 | 85 | 0 | 8:00 - 8:10 | | | | |
| 8:10 - 8:20 | 2 | 120 | 90 | 2 | 8:10 - 8:20 | | | | |
| 8:20 - 8:30 | 3 | 118 | 92 | 1 | 8:20 - 8:30 | | | | |
| 8:30 - 8:40 | 4 | 97 | 86 | 0 | 8:30 - 8:40 | | | | |
| 8:40 - 8:50 | 3 | 55 | 50 | 0 | 8:40 - 8:50 | | | | |
| 8:50 - 9:00 | 2 | 20 | 25 | 1 | 8:50 - 9:00 | | | | |
| 9:00 - 9:10 | 1 | 11 | 15 | 0 | 9:00 - 9:10 | | | | |
| 9:10 - 9:20 | 4 | 25 | 27 | 0 | 9:10 - 9:20 | | | | |
| 9:20 - 9:30 | 1 | 15 | 17 | 0 | 9:20 - 9:30 | | | | |
| 9:30 - 9:40 | 0 | 2 | 19 | 1 | 9:30 - 9:40 | | | | |
| 9:40 - 9:50 | 0 | 10 | 15 | 0 | 9:40 - 9:50 | | | | |
| 9:50 - 10:00 | 0 | 6 | 16 | 0 | 9:50 - 10:00 | | | | |
| | | | | | | | | | |
| 15:30 - 15:40 | 0 | 10 | 20 | 1 | 15:30 - 15:40 | | | | |
| 15:40 - 15:50 | 0 | 14 | 23 | 2 | 15:40 - 15:50 | | | | |
| 15:50 - 16:00 | 1 | 15 | 18 | 0 | 15:50 - 16:00 | | | | |
| 16:00 - 16:10 | 2 | 11 | 17 | 0 | 16:00 - 16:10 | | | | |
| 16:10 - 16:20 | 0 | 16 | 20 | 0 | 16:10 - 16:20 | | | | |
| 16:20 - 16:30 | 1 | 5 | 8 | 1 | 16:20 - 16:30 | | | | |
| 16:30 - 16:40 | 8 | 10 | 18 | 0 | 16:30 - 16:40 | | | | |
| 16:40 - 16:50 | 0 | 11 | 21 | 0 | 16:40 - 16:50 | | | | |
| 16:50 - 17:00 | 1 | 19 | 19 | 2 | 16:50 - 17:00 | | | | |
| 17:00 - 17:10 | 2 | 22 | 23 | 0 | 17:00 - 17:10 | | | | |
| 17:10 - 17:20 | 1 | 17 | 22 | 0 | 17:10 - 17:20 | | | | |
| 17:20 - 17:30 | 1 | 15 | 26 | 1 | 17:20 - 17:30 | | | | |
| 17:30 - 17:40 | 3 | 15 | 26 | 1 | 17:30 - 17:40 | | | | |
| 17:40 - 17:50 | 4 | 7 | 22 | 0 | 17:40 - 17:50 | | | | |
| 17:50 - 18:00 | 2 | 12 | 15 | 0 | 17:50 - 18:00 | | | | |
| 18:00 - 18:10 | 3 | 13 | 16 | 0 | 18:00 - 18:10 | | | | |
| 18:10 - 18:20 | 3 | 13 | 19 | 0 | 18:10 - 18:20 | | | | |
| 18:20 - 18:30 | 4 | 5 | 20 | 0 | 18:20 - 18:30 | | | | |



DATE 21/11/2017
LOCATION IS05
STATION C

GEOCONSULT

| TIME | DIRECTION 1 MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | DIRECTION 2 MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | DIRECTION 3 MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6:30 - 6:40 | 0 | 7 | 16 | 0 | 6:30 - 6:40 | 0 | 16 | 12 | 0 | 6:30 - 6:40 | 0 | 2 | 4 | 0 |
| 6:40 - 6:50 | 2 | 21 | 33 | 0 | 6:40 - 6:50 | 1 | 27 | 24 | 0 | 6:40 - 6:50 | 0 | 4 | 6 | 0 |
| 6:50 -7:00 | 7 | 26 | 47 | 2 | 6:50 -7:00 | 3 | 32 | 36 | 0 | 6:50 -7:00 | 4 | 1 | 3 | 0 |
| 7:00 - 7:10 | 10 | 29 | 75 | 0 | 7:00 - 7:10 | 5 | 29 | 55 | 0 | 7:00 - 7:10 | 2 | 5 | 4 | 0 |
| 7:10 - 7:20 | 0 | 32 | 57 | 0 | 7:10 - 7:20 | 3 | 49 | 58 | 0 | 7:10 - 7:20 | 0 | 0 | 10 | 0 |
| 7:20 - 7:30 | 0 | 8 | 73 | 0 | 7:20 - 7:30 | 2 | 40 | 50 | 0 | 7:20 - 7:30 | 0 | 0 | 11 | 0 |
| 7:30 - 7:40 | 0 | 29 | 80 | 1 | 7:30 - 7:40 | 1 | 44 | 66 | 0 | 7:30 - 7:40 | 0 | 0 | 7 | 0 |
| 7:40 - 7:50 | 0 | 40 | 77 | 2 | 7:40 - 7:50 | 0 | 38 | 54 | 0 | 7:40 - 7:50 | 0 | 0 | 8 | 0 |
| 7:50 - 8:00 | 0 | 33 | 85 | 1 | 7:50 - 8:00 | 0 | 45 | 45 | 0 | 7:50 - 8:00 | 0 | 1 | 6 | 0 |
| 8:00 - 8:10 | 3 | 21 | 85 | 0 | 8:00 - 8:10 | 0 | 32 | 50 | 0 | 8:00 - 8:10 | 1 | 0 | 11 | 0 |
| 8:10 - 8:20 | 0 | 20 | 40 | 0 | 8:10 - 8:20 | 0 | 45 | 0 | 0 | 8:10 - 8:20 | 3 | 0 | 15 | 0 |
| 8:20 - 8:30 | 0 | 42 | 75 | 0 | 8:20 - 8:30 | 1 | 75 | 60 | 0 | 8:20 - 8:30 | 2 | 1 | 12 | 0 |
| 8:30 - 8:40 | 0 | 15 | 40 | 0 | 8:30 - 8:40 | 0 | 19 | 20 | 0 | 8:30 - 8:40 | 0 | 0 | 4 | 0 |
| 8:40 - 8:50 | 1 | 22 | 33 | 0 | 8:40 - 8:50 | 0 | 30 | 33 | 0 | 8:40 - 8:50 | 0 | 3 | 7 | 0 |
| 8:50 - 9:00 | 0 | 30 | 35 | 0 | 8:50 - 9:00 | 0 | 35 | 46 | 0 | 8:50 - 9:00 | 0 | 0 | 14 | 0 |
| 9:00 - 9:10 | 0 | 20 | 28 | 0 | 9:00 - 9:10 | 0 | 29 | 35 | 0 | 9:00 - 9:10 | 0 | 1 | 8 | 0 |
| 9:10 - 9:20 | 0 | 9 | 25 | 0 | 9:10 - 9:20 | 0 | 19 | 23 | 0 | 9:10 - 9:20 | 0 | 1 | 4 | 0 |
| 9:20 - 9:30 | 0 | 20 | 40 | 0 | 9:20 - 9:30 | 0 | 15 | 20 | 0 | 9:20 - 9:30 | 0 | 1 | 4 | 0 |
| 9:30 - 9:40 | 0 | 12 | 40 | 0 | 9:30 - 9:40 | 2 | 25 | 30 | 0 | 9:30 - 9:40 | 0 | 0 | 12 | 0 |
| 9:40 - 9:50 | 0 | 10 | 28 | 0 | 9:40 - 9:50 | 3 | 15 | 1 | 0 | 9:40 - 9:50 | 0 | 0 | 7 | 0 |
| 9:50 - 10:00 | 0 | 17 | 33 | 0 | 9:50 - 10:00 | 0 | 27 | 37 | 0 | 9:50 - 10:00 | 0 | 1 | 8 | 0 |
| 15:30 - 15:40 | 0 | 45 | 55 | 20 | 15:30 - 15:40 | 0 | 50 | 37 | 10 | 15:30 - 15:40 | 5 | 0 | 15 | 0 |
| 15:40 - 15:50 | 4 | 30 | 30 | 10 | 15:40 - 15:50 | 10 | 45 | 35 | 25 | 15:40 - 15:50 | 3 | 4 | 10 | 10 |
| 15:50 - 16:00 | 10 | 63 | 48 | 60 | 15:50 - 16:00 | 10 | 70 | 45 | 15 | 15:50 - 16:00 | 10 | 0 | 25 | 10 |
| 16:00 - 16:10 | 35 | 70 | 45 | 0 | 16:00 - 16:10 | 20 | 65 | 75 | 25 | 16:00 - 16:10 | 0 | 10 | 45 | 10 |
| 16:10 - 16:20 | 1 | 20 | 25 | 1 | 16:10 - 16:20 | 4 | 13 | 35 | 2 | 16:10 - 16:20 | 3 | 7 | 8 | 1 |
| 16:20 - 16:30 | 3 | 22 | 35 | 1 | 16:20 - 16:30 | 3 | 9 | 24 | 1 | 16:20 - 16:30 | 1 | 0 | 3 | 1 |
| 16:30 - 16:40 | 1 | 20 | 30 | 2 | 16:30 - 16:40 | 3 | 10 | 25 | 3 | 16:30 - 16:40 | 1 | 1 | 5 | 1 |
| 16:40 - 16:50 | 1 | 13 | 23 | 1 | 16:40 - 16:50 | 1 | 15 | 20 | 1 | 16:40 - 16:50 | 0 | 3 | 13 | 3 |
| 16:50 - 17:00 | 1 | 35 | 45 | 1 | 16:50 - 17:00 | 2 | 40 | 40 | 2 | 16:50 - 17:00 | 1 | 6 | 20 | 3 |
| 17:00 - 17:10 | 3 | 25 | 75 | 2 | 17:00 - 17:10 | 3 | 25 | 55 | 1 | 17:00 - 17:10 | 1 | 5 | 28 | 1 |
| 17:10 - 17:20 | 4 | 40 | 60 | 5 | 17:10 - 17:20 | 4 | 48 | 53 | 0 | 17:10 - 17:20 | 3 | 5 | 25 | 8 |
| 17:20 - 17:30 | 50 | 38 | 45 | 3 | 17:20 - 17:30 | 11 | 38 | 15 | 11 | 17:20 - 17:30 | 4 | 8 | 20 | 3 |
| 17:30 - 17:40 | 6 | 27 | 58 | 1 | 17:30 - 17:40 | 0 | 33 | 41 | 1 | 17:30 - 17:40 | 3 | 0 | 7 | 0 |
| 17:40 - 17:50 | 1 | 8 | 28 | 0 | 17:40 - 17:50 | 1 | 26 | 18 | 0 | 17:40 - 17:50 | 1 | 0 | 3 | 0 |
| 17:50 - 18:00 | 1 | 34 | 59 | 0 | 17:50 - 18:00 | 4 | 17 | 44 | 1 | 17:50 - 18:00 | 0 | 0 | 9 | 0 |
| 18:00 - 18:10 | 3 | 27 | 50 | 1 | 18:00 - 18:10 | 1 | 11 | 29 | 1 | 18:00 - 18:10 | 0 | 0 | 5 | 1 |
| 18:10 - 18:20 | 1 | 10 | 37 | 1 | 18:10 - 18:20 | 1 | 3 | 30 | 0 | 18:10 - 18:20 | 1 | 1 | 6 | 0 |
| 18:20 - 18:30 | 1 | 33 | 33 | 0 | 18:20 - 18:30 | 0 | 2 | 33 | 3 | 18:20 - 18:30 | 2 | 11 | 13 | 1 |

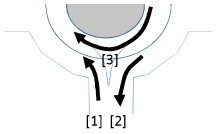





DATE 21/11/2017
LOCATION IS05
STATION B

GEOCONSULT

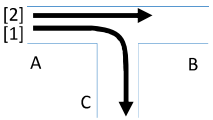
| TIME | DIRECTION 1 MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | DIRECTION 2 MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | DIRECTION 3 MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6:30 - 6:40 | 0 | 0 | 0 | 0 | 6:30 - 6:40 | 0 | 0 | 2 | 0 | 6:30 - 6:40 | 2 | 9 | 25 | 2 |
| 6:40 - 6:50 | 0 | 0 | 2 | 0 | 6:40 - 6:50 | 1 | 0 | 1 | 0 | 6:40 - 6:50 | 1 | 20 | 29 | 0 |
| 6:50 -7:00 | 2 | 1 | 4 | 0 | 6:50 -7:00 | 0 | 0 | 3 | 0 | 6:50 -7:00 | 4 | 32 | 54 | 3 |
| 7:00 - 7:10 | 0 | 0 | 2 | 0 | 7:00 - 7:10 | 1 | 0 | 1 | 0 | 7:00 - 7:10 | 1 | 25 | 57 | 1 |
| 7:10 - 7:20 | 1 | 0 | 6 | 5 | 7:10 - 7:20 | 1 | 0 | 6 | 0 | 7:10 - 7:20 | 36 | 45 | 42 | 2 |
| 7:20 - 7:30 | 0 | 0 | 2 | 0 | 7:20 - 7:30 | 1 | 0 | 8 | 0 | 7:20 - 7:30 | 41 | 11 | 70 | 3 |
| 7:30 - 7:40 | 1 | 0 | 6 | 1 | 7:30 - 7:40 | 2 | 0 | 20 | 0 | 7:30 - 7:40 | 49 | 36 | 61 | 8 |
| 7:40 - 7:50 | 0 | 0 | 2 | 0 | 7:40 - 7:50 | 3 | 0 | 13 | 0 | 7:40 - 7:50 | 40 | 42 | 75 | 7 |
| 7:50 - 8:00 | 0 | 0 | 18 | 0 | 7:50 - 8:00 | 1 | 0 | 7 | 0 | 7:50 - 8:00 | 31 | 22 | 90 | 5 |
| 8:00 - 8:10 | 2 | 1 | 5 | 0 | 8:00 - 8:10 | 0 | 0 | 21 | 0 | 8:00 - 8:10 | 32 | 23 | 70 | 6 |
| 8:10 - 8:20 | 3 | 2 | 10 | 0 | 8:10 - 8:20 | 1 | 2 | 34 | 0 | 8:10 - 8:20 | 62 | 28 | 82 | 7 |
| 8:20 - 8:30 | 0 | 0 | 8 | 1 | 8:20 - 8:30 | 1 | 0 | 10 | 1 | 8:20 - 8:30 | 25 | 20 | 55 | 1 |
| 8:30 - 8:40 | 5 | 0 | 11 | 0 | 8:30 - 8:40 | 0 | 0 | 12 | 0 | 8:30 - 8:40 | 10 | 41 | 40 | 3 |
| 8:40 - 8:50 | 0 | 0 | 6 | 1 | 8:40 - 8:50 | 0 | 0 | 1 | 1 | 8:40 - 8:50 | 5 | 10 | 20 | 3 |
| 8:50 - 9:00 | 1 | 0 | 5 | 0 | 8:50 - 9:00 | 0 | 0 | 1 | 1 | 8:50 - 9:00 | 5 | 20 | 45 | 2 |
| 9:00 - 9:10 | 1 | 0 | 10 | 0 | 9:00 - 9:10 | 0 | 2 | 10 | 0 | 9:00 - 9:10 | 10 | 20 | 35 | 2 |
| 9:10 - 9:20 | 0 | 0 | 2 | 0 | 9:10 - 9:20 | 0 | 0 | 15 | 0 | 9:10 - 9:20 | 23 | 10 | 55 | 6 |
| 9:20 - 9:30 | 0 | 0 | 10 | 0 | 9:20 - 9:30 | 0 | 2 | 5 | 0 | 9:20 - 9:30 | 7 | 30 | 55 | 5 |
| 9:30 - 9:40 | 1 | 0 | 5 | 0 | 9:30 - 9:40 | 0 | 2 | 5 | 0 | 9:30 - 9:40 | 20 | 15 | 45 | 7 |
| 9:40 - 9:50 | 1 | 0 | 1 | 0 | 9:40 - 9:50 | 0 | 0 | 1 | 0 | 9:40 - 9:50 | 20 | 25 | 58 | 2 |
| 9:50 - 10:00 | 1 | 0 | 0 | 0 | 9:50 - 10:00 | 0 | 0 | 0 | 0 | 9:50 - 10:00 | 15 | 35 | 55 | 7 |
| 15:30 - 15:40 | 0 | 0 | 5 | 0 | 15:30 - 15:40 | 3 | 0 | 5 | 1 | 15:30 - 15:40 | 16 | 23 | 58 | 10 |
| 15:40 - 15:50 | 1 | 0 | 10 | 4 | 15:40 - 15:50 | 0 | 3 | 6 | 0 | 15:40 - 15:50 | 20 | 26 | 85 | 7 |
| 15:50 - 16:00 | 0 | 0 | 2 | 15 | 15:50 - 16:00 | 0 | 0 | 1 | 0 | 15:50 - 16:00 | 23 | 37 | 70 | 13 |
| 16:00 - 16:10 | 1 | 0 | 10 | 1 | 16:00 - 16:10 | 1 | 0 | 5 | 0 | 16:00 - 16:10 | 26 | 40 | 75 | 9 |
| 16:10 - 16:20 | 0 | 1 | 5 | 0 | 16:10 - 16:20 | 0 | 0 | 16 | 2 | 16:10 - 16:20 | 25 | 50 | 80 | 12 |
| 16:20 - 16:30 | 1 | 2 | 6 | 7 | 16:20 - 16:30 | 5 | 0 | 2 | 5 | 16:20 - 16:30 | 7 | 65 | 80 | 10 |
| 16:30 - 16:40 | 1 | 0 | 7 | 2 | 16:30 - 16:40 | 0 | 0 | 1 | 0 | 16:30 - 16:40 | 23 | 38 | 45 | 6 |
| 16:40 - 16:50 | 3 | 13 | 40 | 1 | 16:40 - 16:50 | 1 | 0 | 8 | 1 | 16:40 - 16:50 | 1 | 13 | 13 | 6 |
| 16:50 - 17:00 | 4 | 34 | 84 | 1 | 16:50 - 17:00 | 0 | 0 | 8 | 0 | 16:50 - 17:00 | 0 | 1 | 15 | 0 |
| 17:00 - 17:10 | 4 | 23 | 75 | 1 | 17:00 - 17:10 | 1 | 0 | 2 | 1 | 17:00 - 17:10 | 0 | 4 | 6 | 0 |
| 17:10 - 17:20 | 10 | 20 | 90 | 1 | 17:10 - 17:20 | 1 | 5 | 10 | 5 | 17:10 - 17:20 | 2 | 3 | 1 | 1 |
| 17:20 - 17:30 | 12 | 60 | 100 | 1 | 17:20 - 17:30 | 2 | 1 | 5 | 1 | 17:20 - 17:30 | 5 | 5 | 0 | 0 |
| 17:30 - 17:40 | 28 | 63 | 100 | 1 | 17:30 - 17:40 | 0 | 0 | 15 | 0 | 17:30 - 17:40 | 2 | 0 | 7 | 0 |
| 17:40 - 17:50 | 33 | 50 | 50 | 1 | 17:40 - 17:50 | 1 | 17 | 48 | 1 | 17:40 - 17:50 | 3 | 8 | 13 | 0 |
| 17:50 - 18:00 | 4 | 38 | 60 | 3 | 17:50 - 18:00 | 2 | 4 | 30 | 0 | 17:50 - 18:00 | 1 | 6 | 8 | 0 |
| 18:00 - 18:10 | 3 | 43 | 45 | 1 | 18:00 - 18:10 | 4 | 8 | 28 | 4 | 18:00 - 18:10 | 3 | 3 | 18 | 0 |
| 18:10 - 18:20 | 0 | 18 | 38 | 2 | 18:10 - 18:20 | 2 | 4 | 18 | 1 | 18:10 - 18:20 | 1 | 2 | 10 | 0 |
| 18:20 - 18:30 | 0 | 12 | 22 | 2 | 18:20 - 18:30 | 3 | 3 | 6 | 2 | 18:20 - 18:30 | 4 | 3 | 5 | 1 |



DATE 21/11/2017
LOCATION IS06/1
STATION A

GEOCONSULT

| DIRECTION 1 | | | | | DIRECTION 2 | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
| 7:00 - 7:10 | 4 | 28 | 47 | 0 | 7:00 - 7:10 | 0 | 50 | 15 | 0 |
| 7:10 - 7:20 | 7 | 4 | 45 | 0 | 7:10 - 7:20 | 0 | 0 | 27 | 2 |
| 7:20 - 7:30 | 3 | 21 | 26 | 0 | 7:20 - 7:30 | 2 | 5 | 30 | 1 |
| 7:30 - 7:40 | 4 | 32 | 58 | 0 | 7:30 - 7:40 | 0 | 2 | 40 | 0 |
| 7:40 - 7:50 | 5 | 38 | 66 | 0 | 7:40 - 7:50 | 0 | 3 | 22 | 0 |
| 7:50 - 8:00 | 3 | 38 | 36 | 0 | 7:50 - 8:00 | 2 | 5 | 13 | 0 |
| 8:00 - 8:10 | 4 | 25 | 40 | 0 | 8:00 - 8:10 | 1 | 11 | 28 | 0 |
| 8:10 - 8:20 | 5 | 48 | 20 | 0 | 8:10 - 8:20 | 2 | 11 | 22 | 0 |
| 8:20 - 8:30 | 2 | 52 | 22 | 0 | 8:20 - 8:30 | 1 | 2 | 29 | 0 |
| 8:30 - 8:40 | 2 | 50 | 29 | 0 | 8:30 - 8:40 | 2 | 5 | 35 | 0 |
| 8:40 - 8:50 | 1 | 40 | 21 | 0 | 8:40 - 8:50 | 0 | 1 | 27 | 2 |
| 8:50 - 9:00 | 1 | 35 | 10 | 0 | 8:50 - 9:00 | 5 | 6 | 33 | 0 |
| 9:00 - 9:10 | 4 | 31 | 11 | 0 | 9:00 - 9:10 | 5 | 3 | 25 | 2 |
| 9:10 - 9:20 | 0 | 47 | 17 | 1 | 9:10 - 9:20 | 1 | 4 | 37 | 0 |
| 9:20 - 9:30 | 0 | 33 | 9 | 0 | 9:20 - 9:30 | 4 | 0 | 55 | 2 |
| 9:30 - 9:40 | 0 | 29 | 31 | 0 | 9:30 - 9:40 | 11 | 11 | 32 | 0 |
| 9:40 - 9:50 | 0 | 36 | 27 | 0 | 9:40 - 9:50 | 9 | 3 | 28 | 0 |
| 9:50 - 10:00 | 1 | 37 | 24 | 0 | 9:50 - 10:00 | 3 | 3 | 23 | 2 |
| | | | | | | | | | |
| 15:30 - 15:40 | 1 | 26 | 20 | 0 | 15:30 - 15:40 | 11 | 5 | 62 | 1 |
| 15:40 - 15:50 | 2 | 36 | 30 | 0 | 15:40 - 15:50 | 9 | 3 | 58 | 2 |
| 15:50 - 16:00 | 0 | 16 | 15 | 0 | 15:50 - 16:00 | 2 | 2 | 55 | 1 |
| 16:00 - 16:10 | 3 | 32 | 17 | 0 | 16:00 - 16:10 | 6 | 5 | 60 | 1 |
| 16:10 - 16:20 | 0 | 34 | 13 | 0 | 16:10 - 16:20 | 9 | 8 | 63 | 0 |
| 16:20 - 16:30 | 0 | 36 | 29 | 0 | 16:20 - 16:30 | 10 | 2 | 85 | 0 |
| 16:30 - 16:40 | 1 | 17 | 12 | 1 | 16:30 - 16:40 | 6 | 4 | 31 | 0 |
| 16:40 - 16:50 | 2 | 17 | 14 | 1 | 16:40 - 16:50 | 5 | 3 | 41 | 0 |
| 16:50 - 17:00 | 0 | 17 | 9 | 0 | 16:50 - 17:00 | 12 | 1 | 32 | 3 |
| 17:00 - 17:10 | 0 | 7 | 12 | 0 | 17:00 - 17:10 | 4 | 8 | 26 | 14 |
| 17:10 - 17:20 | 0 | 35 | 25 | 0 | 17:10 - 17:20 | 19 | 3 | 64 | 0 |
| 17:20 - 17:30 | 0 | 17 | 13 | 0 | 17:20 - 17:30 | 6 | 1 | 50 | 0 |
| 17:30 - 17:40 | 2 | 15 | 18 | 0 | 17:30 - 17:40 | 3 | 5 | 52 | 2 |
| 17:40 - 17:50 | 1 | 22 | 16 | 0 | 17:40 - 17:50 | 5 | 5 | 36 | 0 |
| 17:50 - 18:00 | 0 | 27 | 13 | 0 | 17:50 - 18:00 | 3 | 0 | 39 | 1 |
| 18:00 - 18:10 | 0 | 19 | 11 | 0 | 18:00 - 18:10 | 0 | 1 | 30 | 1 |
| 18:10 - 18:20 | 1 | 19 | 5 | 0 | 18:10 - 18:20 | 4 | 0 | 34 | 0 |
| 18:20 - 18:30 | 5 | 20 | 3 | 0 | 18:20 - 18:30 | 4 | 2 | 46 | 0 |

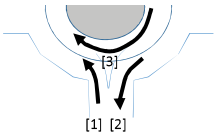





DATE 21/11/2017
LOCATION IS05
STATION D

GEOCONSULT

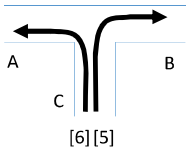
| DIRECTION 1 | | | | | DIRECTION 2 | | | | | DIRECTION 3 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
| 6:30 - 6:40 | 0 | 7 | 14 | 0 | 6:30 - 6:40 | 0 | 4 | 14 | 0 | 6:30 - 6:40 | 0 | 19 | 21 | 0 |
| 6:40 - 6:50 | 0 | 12 | 17 | 0 | 6:40 - 6:50 | 0 | 19 | 19 | 1 | 6:40 - 6:50 | 1 | 27 | 29 | 0 |
| 6:50 -7:00 | 1 | 17 | 23 | 1 | 6:50 -7:00 | 2 | 32 | 11 | 0 | 6:50 -7:00 | 2 | 24 | 37 | 0 |
| 7:00 - 7:10 | 1 | 14 | 27 | 0 | 7:00 - 7:10 | 0 | 45 | 5 | 0 | 7:00 - 7:10 | 3 | 21 | 38 | 1 |
| 7:10 - 7:20 | 0 | 48 | 51 | 0 | 7:10 - 7:20 | 0 | 24 | 18 | 4 | 7:10 - 7:20 | 1 | 31 | 36 | 0 |
| 7:20 - 7:30 | 2 | 37 | 38 | 1 | 7:20 - 7:30 | 3 | 32 | 30 | 1 | 7:20 - 7:30 | 3 | 31 | 48 | 0 |
| 7:30 - 7:40 | 0 | 65 | 58 | 0 | 7:30 - 7:40 | 2 | 41 | 49 | 0 | 7:30 - 7:40 | 2 | 33 | 42 | 1 |
| 7:40 - 7:50 | 3 | 78 | 66 | 1 | 7:40 - 7:50 | 4 | 49 | 63 | 2 | 7:40 - 7:50 | 6 | 29 | 61 | 4 |
| 7:50 - 8:00 | 3 | 25 | 12 | 1 | 7:50 - 8:00 | 8 | 62 | 143 | 0 | 7:50 - 8:00 | 2 | 72 | 70 | 1 |
| 8:00 - 8:10 | 0 | 0 | 0 | 0 | 8:00 - 8:10 | 8 | 10 | 46 | 2 | 8:00 - 8:10 | 3 | 6 | 40 | 0 |
| 8:10 - 8:20 | 0 | 2 | 3 | 0 | 8:10 - 8:20 | 4 | 44 | 75 | 1 | 8:10 - 8:20 | 0 | 35 | 41 | 1 |
| 8:20 - 8:30 | 2 | 39 | 31 | 1 | 8:20 - 8:30 | 7 | 20 | 68 | 4 | 8:20 - 8:30 | 3 | 32 | 51 | 3 |
| 8:30 - 8:40 | 3 | 26 | 49 | 0 | 8:30 - 8:40 | 11 | 24 | 59 | 3 | 8:30 - 8:40 | 1 | 17 | 35 | 1 |
| 8:40 - 8:50 | 0 | 21 | 20 | 0 | 8:40 - 8:50 | 7 | 24 | 64 | 2 | 8:40 - 8:50 | 2 | 18 | 24 | 1 |
| 8:50 - 9:00 | 0 | 23 | 18 | 0 | 8:50 - 9:00 | 7 | 30 | 71 | 0 | 8:50 - 9:00 | 0 | 0 | 46 | 2 |
| 9:00 - 9:10 | 2 | 33 | 30 | 0 | 9:00 - 9:10 | 14 | 25 | 81 | 2 | 9:00 - 9:10 | 2 | 37 | 58 | 0 |
| 9:10 - 9:20 | 1 | 32 | 45 | 1 | 9:10 - 9:20 | 2 | 27 | 79 | 4 | 9:10 - 9:20 | 7 | 34 | 61 | 2 |
| 9:20 - 9:30 | 1 | 26 | 32 | 0 | 9:20 - 9:30 | 4 | 25 | 64 | 0 | 9:20 - 9:30 | 4 | 17 | 35 | 1 |
| 9:30 - 9:40 | 3 | 35 | 26 | 1 | 9:30 - 9:40 | 11 | 17 | 68 | 0 | 9:30 - 9:40 | 4 | 28 | 38 | 3 |
| 9:30 - 9:50 | 6 | 31 | 15 | 0 | 9:30 - 9:50 | 1 | 23 | 57 | 2 | 9:30 - 9:50 | 1 | 11 | 37 | 0 |
| 9:50 - 10:00 | 0 | 34 | 22 | 0 | 9:50 - 10:00 | 6 | 32 | 73 | 1 | 9:50 - 10:00 | 3 | 32 | 57 | 0 |
| | | | | | | | | | | | | | | |
| 15:30 - 15:40 | 5 | 6 | 30 | 1 | 15:30 - 15:40 | 4 | 17 | 50 | 3 | 15:30 - 15:40 | 3 | 11 | 21 | 2 |
| 15:40 - 15:50 | 1 | 19 | 40 | 3 | 15:40 - 15:50 | 4 | 11 | 35 | 3 | 15:40 - 15:50 | 0 | 0 | 2 | 2 |
| 15:50 - 16:00 | 6 | 11 | 57 | 1 | 15:50 - 16:00 | 8 | 28 | 85 | 5 | 15:50 - 16:00 | 0 | 1 | 4 | 0 |
| 16:00 - 16:10 | 3 | 22 | 38 | 1 | 16:00 - 16:10 | 6 | 19 | 77 | 0 | 16:00 - 16:10 | 0 | 0 | 3 | 0 |
| 16:10 - 16:20 | 5 | 21 | 49 | 0 | 16:10 - 16:20 | 5 | 27 | 75 | 3 | 16:10 - 16:20 | 0 | 3 | 5 | 0 |
| 16:20 - 16:30 | 6 | 9 | 38 | 0 | 16:20 - 16:30 | 7 | 25 | 62 | 2 | 16:20 - 16:30 | 0 | 0 | 3 | 0 |
| 16:30 - 16:40 | 4 | 19 | 45 | 2 | 16:30 - 16:40 | 6 | 34 | 64 | 2 | 16:30 - 16:40 | 0 | 0 | 2 | 0 |
| 16:40 - 16:50 | 2 | 5 | 35 | 1 | 16:40 - 16:50 | 11 | 19 | 62 | 1 | 16:40 - 16:50 | 0 | 1 | 3 | 3 |
| 16:50 - 17:00 | 4 | 26 | 57 | 3 | 16:50 - 17:00 | 10 | 37 | 83 | 2 | 16:50 - 17:00 | 1 | 1 | 9 | 0 |
| 17:00 - 17:10 | 2 | 12 | 37 | 0 | 17:00 - 17:10 | 5 | 25 | 42 | 0 | 17:00 - 17:10 | 2 | 1 | 3 | 0 |
| 17:10 - 17:20 | 1 | 14 | 48 | 0 | 17:10 - 17:20 | 5 | 20 | 49 | 1 | 17:10 - 17:20 | 0 | 0 | 0 | 1 |
| 17:20 - 17:30 | 2 | 20 | 54 | 0 | 17:20 - 17:30 | 5 | 37 | 52 | 0 | 17:20 - 17:30 | 0 | 0 | 0 | 1 |
| 17:30 - 17:40 | 3 | 10 | 55 | 0 | 17:30 - 17:40 | 4 | 23 | 62 | 0 | 17:30 - 17:40 | 0 | 0 | 3 | 0 |
| 17:40 - 17:50 | 1 | 20 | 39 | 0 | 17:40 - 17:50 | 6 | 18 | 75 | 0 | 17:40 - 17:50 | 0 | 0 | 2 | 0 |
| 17:50 - 18:00 | 0 | 8 | 22 | 1 | 17:50 - 18:00 | 7 | 17 | 42 | 3 | 17:50 - 18:00 | 0 | 0 | 2 | 0 |
| 18:00 - 18:10 | 0 | 8 | 35 | 2 | 18:00 - 18:10 | 5 | 28 | 59 | 0 | 18:00 - 18:10 | 0 | 0 | 2 | 0 |
| 18:10 - 18:20 | 2 | 6 | 26 | 0 | 18:10 - 18:20 | 4 | 32 | 64 | 0 | 18:10 - 18:20 | 0 | 0 | 1 | 0 |
| 18:20 - 18:30 | 0 | 13 | 23 | 1 | 18:20 - 18:30 | 6 | 30 | 65 | 4 | 18:20 - 18:30 | 0 | 0 | 2 | 2 |



DATE 21/11/2017
LOCATION S06/1
STATION C

GEOCONSULT

| DIRECTION 6 | | | | | DIRECTION 5 | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
| 7:00 - 7:10 | 2 | 30 | 30 | 0 | 7:00 - 7:10 | 2 | 4 | 1 | 0 |
| 7:10 - 7:20 | 5 | 35 | 45 | 0 | 7:10 - 7:20 | 1 | 5 | 3 | 0 |
| 7:20 - 7:30 | 0 | 15 | 6 | 3 | 7:20 - 7:30 | 3 | 5 | 0 | 0 |
| 7:30 - 7:40 | 0 | 34 | 30 | 5 | 7:30 - 7:40 | 1 | 16 | 9 | 1 |
| 7:40 - 7:50 | 0 | 40 | 11 | 0 | 7:40 - 7:50 | 0 | 22 | 4 | 0 |
| 7:50 - 8:00 | 1 | 20 | 31 | 0 | 7:50 - 8:00 | 1 | 1 | 2 | 0 |
| 8:00 - 8:10 | 0 | 19 | 28 | 0 | 8:00 - 8:10 | 0 | 0 | 3 | 0 |
| 8:10 - 8:20 | 0 | 30 | 42 | 0 | 8:10 - 8:20 | 0 | 4 | 6 | 0 |
| 8:20 - 8:30 | 0 | 26 | 33 | 0 | 8:20 - 8:30 | 0 | 2 | 4 | 0 |
| 8:30 - 8:40 | 0 | 16 | 32 | 0 | 8:30 - 8:40 | 1 | 2 | 7 | 0 |
| 8:40 - 8:50 | 0 | 34 | 27 | 0 | 8:40 - 8:50 | 0 | 2 | 7 | 0 |
| 8:50 - 9:00 | 0 | 31 | 27 | 0 | 8:50 - 9:00 | 0 | 1 | 2 | 0 |
| 9:00 - 9:10 | 0 | 34 | 25 | 0 | 9:00 - 9:10 | 0 | 2 | 3 | 0 |
| 9:10 - 9:20 | 0 | 22 | 33 | 0 | 9:10 - 9:20 | 0 | 1 | 6 | 0 |
| 9:20 - 9:30 | 0 | 17 | 31 | 0 | 9:20 - 9:30 | 0 | 1 | 8 | 0 |
| 9:30 - 9:40 | 0 | 25 | 26 | 0 | 9:30 - 9:40 | 1 | 0 | 6 | 0 |
| 9:40 - 9:50 | 0 | 29 | 29 | 0 | 9:40 - 9:50 | 0 | 0 | 7 | 0 |
| 9:50 - 10:00 | 0 | 27 | 26 | 0 | 9:50 - 10:00 | 0 | 2 | 3 | 2 |
| | | | | | | | | | |
| 15:30 - 15:40 | 1 | 21 | 27 | 0 | 15:30 - 15:40 | 1 | 0 | 11 | 0 |
| 15:40 - 15:50 | 0 | 23 | 28 | 2 | 15:40 - 15:50 | 3 | 0 | 5 | 0 |
| 15:50 - 16:00 | 0 | 37 | 31 | 0 | 15:50 - 16:00 | 3 | 1 | 13 | 0 |
| 16:00 - 16:10 | 0 | 25 | 28 | 2 | 16:00 - 16:10 | 2 | 2 | 5 | 0 |
| 16:10 - 16:20 | 2 | 35 | 27 | 1 | 16:10 - 16:20 | 0 | 0 | 8 | 0 |
| 16:20 - 16:30 | 0 | 34 | 21 | 1 | 16:20 - 16:30 | 0 | 4 | 10 | 0 |
| 16:30 - 16:40 | 20 | 20 | 0 | 0 | 16:30 - 16:40 | 0 | 1 | 3 | 1 |
| 16:40 - 16:50 | 0 | 34 | 21 | 0 | 16:40 - 16:50 | 0 | 1 | 5 | 1 |
| 16:50 - 17:00 | 2 | 26 | 27 | 0 | 16:50 - 17:00 | 0 | 3 | 6 | 0 |
| 17:00 - 17:10 | 2 | 26 | 14 | 0 | 17:00 - 17:10 | 0 | 2 | 7 | 0 |
| 17:10 - 17:20 | 3 | 34 | 20 | 0 | 17:10 - 17:20 | 0 | 2 | 10 | 0 |
| 17:20 - 17:30 | 2 | 32 | 25 | 0 | 17:20 - 17:30 | 0 | 0 | 3 | 0 |
| 17:30 - 17:40 | 0 | 37 | 15 | 0 | 17:30 - 17:40 | 0 | 1 | 6 | 0 |
| 17:40 - 17:50 | 0 | 29 | 22 | 0 | 17:40 - 17:50 | 0 | 1 | 7 | 0 |
| 17:50 - 18:00 | 2 | 38 | 20 | 0 | 17:50 - 18:00 | 0 | 2 | 5 | 0 |
| 18:00 - 18:10 | 4 | 39 | 29 | 0 | 18:00 - 18:10 | 0 | 7 | 3 | 0 |
| 18:10 - 18:20 | 1 | 32 | 29 | 0 | 18:10 - 18:20 | 0 | 5 | 3 | 0 |
| 18:20 - 18:30 | 3 | 29 | 24 | 0 | 18:20 - 18:30 | 0 | 4 | 3 | 0 |

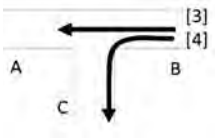





DATE 21/11/2017
LOCATION S06/1
STATION B

GEOCONSULT

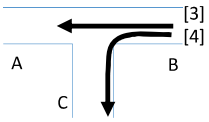
| DIRECTION 3 | | | | | DIRECTION 4 | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
| 7:00 - 7:10 | 4 | 15 | 35 | 0 | 7:00 - 7:10 | 0 | 3 | 15 | 1 |
| 7:10 - 7:20 | 6 | 8 | 37 | 4 | 7:10 - 7:20 | 0 | 1 | 0 | 0 |
| 7:20 - 7:30 | 10 | 0 | 55 | 1 | 7:20 - 7:30 | 0 | 0 | 0 | 0 |
| 7:30 - 7:40 | 5 | 5 | 70 | 5 | 7:30 - 7:40 | 0 | 0 | 0 | 0 |
| 7:40 - 7:50 | 11 | 4 | 57 | 2 | 7:40 - 7:50 | 1 | 0 | 0 | 0 |
| 7:50 - 8:00 | 18 | 2 | 103 | 5 | 7:50 - 8:00 | 0 | 0 | 2 | 0 |
| 8:00 - 8:10 | 11 | 5 | 93 | 3 | 8:00 - 8:10 | 0 | 0 | 1 | 0 |
| 8:10 - 8:20 | 8 | 4 | 83 | 3 | 8:10 - 8:20 | 0 | 0 | 1 | 0 |
| 8:20 - 8:30 | 7 | 5 | 56 | 3 | 8:20 - 8:30 | 0 | 3 | 2 | 3 |
| 8:30 - 8:40 | 7 | 3 | 43 | 4 | 8:30 - 8:40 | 1 | 3 | 1 | 0 |
| 8:40 - 8:50 | 13 | 4 | 140 | 13 | 8:40 - 8:50 | 0 | 4 | 6 | 0 |
| 8:50 - 9:00 | 8 | 0 | 72 | 1 | 8:50 - 9:00 | 0 | 0 | 2 | 0 |
| 9:00 - 9:10 | 11 | 2 | 61 | 3 | 9:00 - 9:10 | 1 | 1 | 5 | 0 |
| 9:10 - 9:20 | 13 | 1 | 53 | 2 | 9:10 - 9:20 | 0 | 2 | 4 | 0 |
| 9:20 - 9:30 | 11 | 1 | 60 | 1 | 9:20 - 9:30 | 2 | 3 | 0 | 0 |
| 9:30 - 9:40 | 0 | 0 | 60 | 1 | 9:30 - 9:40 | 0 | 2 | 4 | 1 |
| 9:40 - 9:50 | 12 | 2 | 60 | 0 | 9:40 - 9:50 | 0 | 1 | 0 | 0 |
| 9:50 - 10:00 | 7 | 4 | 71 | 4 | 9:50 - 10:00 | 1 | 0 | 4 | 0 |
| | | | | | | | | | |
| 15:30 - 15:40 | 8 | 3 | 72 | 10 | 15:30 - 15:40 | 0 | 0 | 2 | 0 |
| 15:40 - 15:50 | 5 | 2 | 69 | 6 | 15:40 - 15:50 | 2 | 1 | 3 | 0 |
| 15:50 - 16:00 | 11 | 3 | 74 | 3 | 15:50 - 16:00 | 0 | 0 | 1 | 0 |
| 16:00 - 16:10 | 7 | 2 | 81 | 1 | 16:00 - 16:10 | 0 | 0 | 3 | 0 |
| 16:10 - 16:20 | 4 | 1 | 85 | 5 | 16:10 - 16:20 | 0 | 1 | 2 | 0 |
| 16:20 - 16:30 | 9 | 4 | 91 | 2 | 16:20 - 16:30 | 2 | 0 | 1 | 2 |
| 16:30 - 16:40 | 11 | 2 | 75 | 2 | 16:30 - 16:40 | 0 | 1 | 0 | 0 |
| 16:40 - 16:50 | 19 | 5 | 73 | 2 | 16:40 - 16:50 | 0 | 1 | 0 | 0 |
| 16:50 - 17:00 | 9 | 5 | 70 | 3 | 16:50 - 17:00 | 0 | 0 | 4 | 0 |
| 17:00 - 17:10 | 9 | 10 | 63 | 1 | 17:00 - 17:10 | 0 | 2 | 0 | 0 |
| 17:10 - 17:20 | 7 | 2 | 102 | 4 | 17:10 - 17:20 | 0 | 0 | 0 | 0 |
| 17:20 - 17:30 | 8 | 5 | 99 | 2 | 17:20 - 17:30 | 0 | 0 | 1 | 0 |
| 17:30 - 17:40 | 5 | 2 | 85 | 0 | 17:30 - 17:40 | 1 | 0 | 0 | 0 |
| 17:40 - 17:50 | 10 | 13 | 113 | 0 | 17:40 - 17:50 | 0 | 0 | 0 | 0 |
| 17:50 - 18:00 | 7 | 6 | 84 | 2 | 17:50 - 18:00 | 1 | 0 | 0 | 1 |
| 18:00 - 18:10 | 6 | 3 | 63 | 2 | 18:00 - 18:10 | 0 | 1 | 0 | 0 |
| 18:10 - 18:20 | 8 | 3 | 55 | 0 | 18:10 - 18:20 | 0 | 0 | 0 | 0 |
| 18:20 - 18:30 | 3 | 4 | 60 | 2 | 18:20 - 18:30 | 0 | 0 | 1 | 0 |



DATE 21/11/2017
LOCATION IS06/2
STATION B

GEOCONSULT

| DIRECTION 3 | | | | | DIRECTION 4 | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
| 7:00 - 7:10 | 1 | 2 | 70 | 0 | 7:00 - 7:10 | 1 | 2 | 5 | 0 |
| 7:10 - 7:20 | 2 | 7 | 55 | 1 | 7:10 - 7:20 | 5 | 3 | 8 | 0 |
| 7:20 - 7:30 | 2 | 4 | 60 | 0 | 7:20 - 7:30 | 2 | 0 | 4 | 0 |
| 7:30 - 7:40 | 3 | 1 | 50 | 1 | 7:30 - 7:40 | 0 | 0 | 6 | 0 |
| 7:40 - 7:50 | 8 | 1 | 75 | 0 | 7:40 - 7:50 | 1 | 0 | 6 | 0 |
| 7:50 - 8:00 | 4 | 1 | 65 | 1 | 7:50 - 8:00 | 0 | 0 | 9 | 0 |
| 8:00 - 8:10 | 4 | 5 | 55 | 0 | 8:00 - 8:10 | 1 | 2 | 7 | 0 |
| 8:10 - 8:20 | 7 | 0 | 60 | 0 | 8:10 - 8:20 | 1 | 2 | 16 | 0 |
| 8:20 - 8:30 | 10 | 6 | 60 | 0 | 8:20 - 8:30 | 2 | 0 | 6 | 0 |
| 8:30 - 8:40 | 9 | 5 | 40 | 1 | 8:30 - 8:40 | 0 | 0 | 8 | 0 |
| 8:40 - 8:50 | 5 | 0 | 60 | 0 | 8:40 - 8:50 | 0 | 1 | 17 | 0 |
| 8:50 - 9:00 | 7 | 2 | 61 | 0 | 8:50 - 9:00 | 1 | 1 | 8 | 0 |
| 9:00 - 9:10 | 5 | 3 | 65 | 0 | 9:00 - 9:10 | 0 | 1 | 9 | 0 |
| 9:10 - 9:20 | 10 | 3 | 65 | 0 | 9:10 - 9:20 | 0 | 2 | 13 | 0 |
| 9:20 - 9:30 | 4 | 2 | 50 | 0 | 9:20 - 9:30 | 1 | 1 | 7 | 0 |
| 9:30 - 9:40 | 5 | 2 | 50 | 2 | 9:30 - 9:40 | 1 | 1 | 4 | 0 |
| 9:40 - 9:50 | 8 | 4 | 65 | 0 | 9:40 - 9:50 | 1 | 1 | 8 | 0 |
| 9:50 - 10:00 | 8 | 2 | 67 | 0 | 9:50 - 10:00 | 1 | 1 | 5 | 0 |
| | | | | | | | | | |
| 15:30 - 15:40 | 6 | 3 | 65 | 0 | 15:30 - 15:40 | 1 | 3 | 11 | 0 |
| 15:40 - 15:50 | 9 | 5 | 70 | 2 | 15:40 - 15:50 | 2 | 1 | 10 | 0 |
| 15:50 - 16:00 | 6 | 2 | 50 | 1 | 15:50 - 16:00 | 0 | 0 | 8 | 0 |
| 16:00 - 16:10 | 7 | 1 | 45 | 0 | 16:00 - 16:10 | 0 | 1 | 5 | 1 |
| 16:10 - 16:20 | 4 | 3 | 60 | 3 | 16:10 - 16:20 | 0 | 2 | 15 | 0 |
| 16:20 - 16:30 | 4 | 7 | 51 | 1 | 16:20 - 16:30 | 2 | 0 | 10 | 0 |
| 16:30 - 16:40 | 6 | 3 | 65 | 1 | 16:30 - 16:40 | 3 | 0 | 10 | 0 |
| 16:40 - 16:50 | 7 | 4 | 45 | 0 | 16:40 - 16:50 | 2 | 0 | 6 | 0 |
| 16:50 - 17:00 | 7 | 6 | 60 | 1 | 16:50 - 17:00 | 3 | 0 | 4 | 0 |
| 17:00 - 17:10 | 5 | 7 | 40 | 1 | 17:00 - 17:10 | 1 | 0 | 5 | 0 |
| 17:10 - 17:20 | 4 | 1 | 65 | 0 | 17:10 - 17:20 | 3 | 0 | 5 | 0 |
| 17:20 - 17:30 | 1 | 2 | 45 | 2 | 17:20 - 17:30 | 2 | 0 | 4 | 0 |
| 17:30 - 17:40 | 1 | 2 | 35 | 0 | 17:30 - 17:40 | 2 | 0 | 2 | 0 |
| 17:40 - 17:50 | 5 | 3 | 55 | 0 | 17:40 - 17:50 | 0 | 0 | 1 | 0 |
| 17:50 - 18:00 | 4 | 1 | 44 | 1 | 17:50 - 18:00 | 0 | 1 | 1 | 0 |
| 18:00 - 18:10 | 6 | 3 | 48 | 2 | 18:00 - 18:10 | 0 | 2 | 3 | 0 |
| 18:10 - 18:20 | 4 | 2 | 40 | 1 | 18:10 - 18:20 | 0 | 0 | 2 | 0 |
| 18:20 - 18:30 | 1 | 4 | 45 | 0 | 18:20 - 18:30 | 1 | 1 | 4 | 0 |

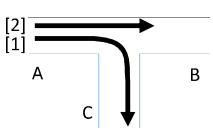





DATE 21/11/2017
LOCATION IS06/2
STATION A

GEOCONSULT

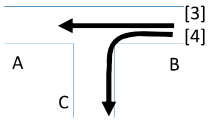
| DIRECTION 1 | | | | | DIRECTION 2 | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
| 7:00 - 7:10 | 6 | 23 | 81 | 8 | 7:00 - 7:10 | 3 | 2 | 0 | 0 |
| 7:10 - 7:20 | 2 | 1 | 15 | 3 | 7:10 - 7:20 | 1 | 0 | 0 | 0 |
| 7:20 - 7:30 | 4 | 3 | 42 | 1 | 7:20 - 7:30 | 2 | 0 | 6 | 0 |
| 7:30 - 7:40 | 8 | 11 | 41 | 13 | 7:30 - 7:40 | 0 | 0 | 3 | 1 |
| 7:40 - 7:50 | 7 | 1 | 38 | 3 | 7:40 - 7:50 | 3 | 11 | 13 | 0 |
| 7:50 - 8:00 | 0 | 0 | 2 | 0 | 7:50 - 8:00 | 2 | 7 | 47 | 3 |
| 8:00 - 8:10 | 0 | 0 | 1 | 0 | 8:00 - 8:10 | 3 | 1 | 22 | 1 |
| 8:10 - 8:20 | 5 | 2 | 13 | 0 | 8:10 - 8:20 | 12 | 6 | 50 | 3 |
| 8:20 - 8:30 | 0 | 0 | 2 | 0 | 8:20 - 8:30 | 10 | 3 | 35 | 8 |
| 8:30 - 8:40 | 0 | 2 | 2 | 0 | 8:30 - 8:40 | 5 | 3 | 26 | 11 |
| 8:40 - 8:50 | 1 | 0 | 0 | 0 | 8:40 - 8:50 | 5 | 3 | 23 | 7 |
| 8:50 - 9:00 | 2 | 0 | 1 | 0 | 8:50 - 9:00 | 7 | 8 | 42 | 3 |
| 9:00 - 9:10 | 0 | 1 | 2 | 1 | 9:00 - 9:10 | 10 | 3 | 27 | 6 |
| 9:10 - 9:20 | 0 | 0 | 2 | 0 | 9:10 - 9:20 | 9 | 5 | 33 | 2 |
| 9:20 - 9:30 | 1 | 1 | 1 | 0 | 9:20 - 9:30 | 7 | 4 | 52 | 7 |
| 9:30 - 9:40 | 1 | 1 | 3 | 0 | 9:30 - 9:40 | 7 | 14 | 36 | 4 |
| 9:40 - 9:50 | 3 | 0 | 0 | 0 | 9:40 - 9:50 | 11 | 2 | 31 | 5 |
| 9:50 - 10:00 | 2 | 0 | 0 | 0 | 9:50 - 10:00 | 3 | 1 | 25 | 3 |
| | | | | | | | | | |
| 15:30 - 15:40 | 0 | 0 | 0 | 1 | 15:30 - 15:40 | 13 | 6 | 66 | 18 |
| 15:40 - 15:50 | 0 | 0 | 0 | 0 | 15:40 - 15:50 | 12 | 2 | 55 | 10 |
| 15:50 - 16:00 | 0 | 0 | 0 | 0 | 15:50 - 16:00 | 10 | 2 | 80 | 8 |
| 16:00 - 16:10 | 0 | 0 | 2 | 0 | 16:00 - 16:10 | 10 | 5 | 62 | 5 |
| 16:10 - 16:20 | 0 | 0 | 0 | 0 | 16:10 - 16:20 | 10 | 6 | 81 | 8 |
| 16:20 - 16:30 | 0 | 0 | 1 | 0 | 16:20 - 16:30 | 6 | 3 | 93 | 4 |
| 16:30 - 16:40 | 0 | 0 | 0 | 0 | 16:30 - 16:40 | 11 | 3 | 57 | 3 |
| 16:40 - 16:50 | 0 | 0 | 0 | 0 | 16:40 - 16:50 | 4 | 4 | 43 | 3 |
| 16:50 - 17:00 | 1 | 0 | 0 | 0 | 16:50 - 17:00 | 12 | 2 | 93 | 7 |
| 17:00 - 17:10 | 0 | 0 | 0 | 0 | 17:00 - 17:10 | 9 | 3 | 80 | 1 |
| 17:10 - 17:20 | 2 | 0 | 0 | 0 | 17:10 - 17:20 | 7 | 3 | 56 | 4 |
| 17:20 - 17:30 | 0 | 0 | 0 | 0 | 17:20 - 17:30 | 9 | 5 | 67 | 4 |
| 17:30 - 17:40 | 1 | 0 | 0 | 0 | 17:30 - 17:40 | 9 | 5 | 57 | 5 |
| 17:40 - 17:50 | 0 | 0 | 0 | 0 | 17:40 - 17:50 | 2 | 9 | 53 | 2 |
| 17:50 - 18:00 | 0 | 0 | 0 | 0 | 17:50 - 18:00 | 5 | 7 | 62 | 2 |
| 18:00 - 18:10 | 0 | 0 | 0 | 0 | 18:00 - 18:10 | 2 | 5 | 71 | 11 |
| 18:10 - 18:20 | 0 | 0 | 0 | 0 | 18:10 - 18:20 | 2 | 3 | 59 | 1 |
| 18:20 - 18:30 | 0 | 0 | 0 | 0 | 18:20 - 18:30 | 5 | 5 | 69 | 3 |



DATE 22/11/2017
LOCATION IS07
STATION B

GEOCONSULT

| DIRECTION 3 | | | | | DIRECTION 4 | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
| 6:30 - 6:40 | 0 | 1 | 35 | 6 | 6:30 - 6:40 | 7 | 1 | 19 | 3 |
| 6:40 - 6:50 | 1 | 0 | 20 | 0 | 6:40 - 6:50 | 0 | 2 | 14 | 1 |
| 6:50 -7:00 | 6 | 2 | 35 | 1 | 6:50 -7:00 | 6 | 2 | 35 | 1 |
| 7:00 - 7:10 | 2 | 7 | 25 | 0 | 7:00 - 7:10 | 4 | 0 | 30 | 0 |
| 7:10 - 7:20 | 0 | 3 | 27 | 2 | 7:10 - 7:20 | 1 | 0 | 32 | 0 |
| 7:20 - 7:30 | 1 | 0 | 27 | 0 | 7:20 - 7:30 | 1 | 0 | 29 | 1 |
| 7:30 - 7:40 | 0 | 0 | 32 | 1 | 7:30 - 7:40 | 0 | 2 | 35 | 2 |
| 7:40 - 7:50 | 50 | 3 | 67 | 2 | 7:40 - 7:50 | 1 | 1 | 55 | 0 |
| 7:50 - 8:00 | 0 | 1 | 43 | 1 | 7:50 - 8:00 | 1 | 0 | 37 | 3 |
| 8:00 - 8:10 | 11 | 7 | 47 | 3 | 8:00 - 8:10 | 3 | 1 | 29 | 0 |
| 8:10 - 8:20 | 0 | 1 | 13 | 0 | 8:10 - 8:20 | 0 | 0 | 8 | 0 |
| 8:20 - 8:30 | 0 | 4 | 55 | 0 | 8:20 - 8:30 | 4 | 0 | 24 | 2 |
| 8:30 - 8:40 | 6 | 8 | 60 | 2 | 8:30 - 8:40 | 0 | 0 | 23 | 0 |
| 8:40 - 8:50 | 3 | 5 | 41 | 5 | 8:40 - 8:50 | 0 | 1 | 28 | 0 |
| 8:50 - 9:00 | 5 | 5 | 41 | 2 | 8:50 - 9:00 | 1 | 0 | 27 | 0 |
| 9:00 - 9:10 | 5 | 8 | 48 | 2 | 9:00 - 9:10 | 0 | 0 | 28 | 0 |
| 9:10 - 9:20 | 2 | 4 | 60 | 1 | 9:10 - 9:20 | 0 | 0 | 30 | 0 |
| 9:20 - 9:30 | 3 | 3 | 55 | 1 | 9:20 - 9:30 | 4 | 7 | 24 | 0 |
| 9:30 - 9:40 | 3 | 4 | 53 | 3 | 9:30 - 9:40 | 2 | 6 | 24 | 0 |
| | | | | | | | | | |
| 15:30 - 15:40 | 7 | 4 | 51 | 2 | 15:30 - 15:40 | 2 | 0 | 35 | 1 |
| 15:40 - 15:50 | 7 | 10 | 41 | 5 | 15:40 - 15:50 | 2 | 0 | 23 | 0 |
| 15:50 - 16:00 | 7 | 4 | 54 | 2 | 15:50 - 16:00 | 2 | 1 | 34 | 2 |
| 16:00 - 16:10 | 8 | 5 | 49 | 1 | 16:00 - 16:10 | 1 | 1 | 32 | 1 |
| 16:10 - 16:20 | 2 | 4 | 28 | 0 | 16:10 - 16:20 | 1 | 2 | 31 | 3 |
| 16:20 - 16:30 | 5 | 6 | 53 | 1 | 16:20 - 16:30 | 3 | 0 | 23 | 0 |
| 16:30 - 16:40 | 8 | 9 | 40 | 1 | 16:30 - 16:40 | 1 | 1 | 25 | 1 |
| 16:40 - 16:50 | 6 | 8 | 46 | 0 | 16:40 - 16:50 | 2 | 0 | 15 | 1 |
| 16:50 - 17:00 | 5 | 13 | 30 | 4 | 16:50 - 17:00 | 2 | 1 | 44 | 1 |
| 17:00 - 17:10 | 7 | 4 | 29 | 0 | 17:00 - 17:10 | 1 | 4 | 25 | 3 |
| 17:10 - 17:20 | 4 | 4 | 39 | 0 | 17:10 - 17:20 | 7 | 6 | 31 | 1 |
| 17:20 - 17:30 | 6 | 9 | 36 | 2 | 17:20 - 17:30 | 0 | 7 | 35 | 0 |
| 17:30 - 17:40 | 3 | 3 | 21 | 1 | 17:30 - 17:40 | 1 | 3 | 17 | 1 |
| 17:40 - 17:50 | 2 | 7 | 23 | 2 | 17:40 - 17:50 | 1 | 5 | 37 | 0 |
| 17:50 - 18:00 | 7 | 5 | 58 | 1 | 17:50 - 18:00 | 2 | 10 | 36 | 1 |
| 18:00 - 18:10 | 2 | 13 | 29 | 1 | 18:00 - 18:10 | 1 | 7 | 17 | 0 |
| 18:10 - 18:20 | 2 | 4 | 38 | 2 | 18:10 - 18:20 | 0 | 8 | 37 | 1 |
| 18:20 - 18:30 | 8 | 2 | 44 | 4 | 18:20 - 18:30 | 4 | 9 | 24 | 0 |

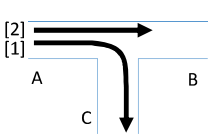





DATE 22/11/2017
LOCATION IS07
STATION A

GEOCONSULT

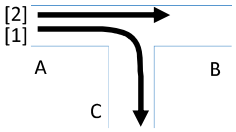
| DIRECTION 1 | | | | | DIRECTION 2 | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
| 6:30 - 6:40 | 0 | 1 | 32 | 3 | 6:30 - 6:40 | 8 | 11 | 45 | 11 |
| 6:40 - 6:50 | 4 | 6 | 4 | 1 | 6:40 - 6:50 | 6 | 4 | 31 | 0 |
| 6:50 -7:00 | 2 | 0 | 17 | 0 | 6:50 -7:00 | 3 | 4 | 25 | 0 |
| 7:00 - 7:10 | 3 | 1 | 20 | 2 | 7:00 - 7:10 | 6 | 7 | 33 | 2 |
| 7:10 - 7:20 | 3 | 0 | 15 | 0 | 7:10 - 7:20 | 1 | 2 | 37 | 0 |
| 7:20 - 7:30 | 1 | 3 | 23 | 2 | 7:20 - 7:30 | 8 | 13 | 22 | 0 |
| 7:30 - 7:40 | 2 | 2 | 6 | 0 | 7:30 - 7:40 | 3 | 5 | 35 | 0 |
| 7:40 - 7:50 | 2 | 1 | 25 | 0 | 7:40 - 7:50 | 7 | 3 | 40 | 0 |
| 7:50 - 8:00 | 0 | 0 | 10 | 1 | 7:50 - 8:00 | 3 | 1 | 25 | 3 |
| 8:00 - 8:10 | 1 | 1 | 24 | 1 | 8:00 - 8:10 | 3 | 7 | 28 | 0 |
| 8:10 - 8:20 | 1 | 3 | 15 | 1 | 8:10 - 8:20 | 2 | 1 | 15 | 0 |
| 8:20 - 8:30 | 2 | 0 | 20 | 1 | 8:20 - 8:30 | 7 | 2 | 30 | 2 |
| 8:30 - 8:40 | 1 | 0 | 18 | 0 | 8:30 - 8:40 | 5 | 5 | 23 | 11 |
| 8:40 - 8:50 | 1 | 0 | 10 | 1 | 8:40 - 8:50 | 1 | 8 | 17 | 2 |
| 8:50 - 9:00 | 3 | 2 | 10 | 2 | 8:50 - 9:00 | 2 | 5 | 25 | 1 |
| 9:00 - 9:10 | 2 | 1 | 26 | 1 | 9:00 - 9:10 | 3 | 5 | 38 | 3 |
| 9:10 - 9:20 | 1 | 0 | 20 | 0 | 9:10 - 9:20 | 5 | 10 | 36 | 3 |
| 9:20 - 9:30 | 5 | 1 | 30 | 1 | 9:20 - 9:30 | 3 | 6 | 42 | 0 |
| 9:30 - 9:40 | 5 | 1 | 35 | 0 | 9:30 - 9:40 | 2 | 11 | 45 | 3 |
| | | | | | | | | | |
| 15:30 - 15:40 | 7 | 1 | 13 | 1 | 15:30 - 15:40 | 7 | 8 | 71 | 1 |
| 15:40 - 15:50 | 2 | 1 | 18 | 0 | 15:40 - 15:50 | 9 | 6 | 42 | 1 |
| 15:50 - 16:00 | 4 | 2 | 21 | 1 | 15:50 - 16:00 | 6 | 8 | 60 | 4 |
| 16:00 - 16:10 | 3 | 0 | 27 | 0 | 16:00 - 16:10 | 7 | 10 | 62 | 1 |
| 16:10 - 16:20 | 0 | 1 | 15 | 0 | 16:10 - 16:20 | 4 | 2 | 53 | 0 |
| 16:20 - 16:30 | 6 | 1 | 16 | 0 | 16:20 - 16:30 | 10 | 9 | 66 | 3 |
| 16:30 - 16:40 | 3 | 0 | 20 | 0 | 16:30 - 16:40 | 4 | 5 | 69 | 3 |
| 16:40 - 16:50 | 3 | 1 | 15 | 0 | 16:40 - 16:50 | 6 | 7 | 68 | 6 |
| 16:50 - 17:00 | 3 | 1 | 19 | 0 | 16:50 - 17:00 | 10 | 7 | 61 | 0 |
| 17:00 - 17:10 | 6 | 1 | 8 | 0 | 17:00 - 17:10 | 11 | 8 | 68 | 2 |
| 17:10 - 17:20 | 2 | 1 | 22 | 0 | 17:10 - 17:20 | 5 | 4 | 61 | 4 |
| 17:20 - 17:30 | 7 | 0 | 26 | 1 | 17:20 - 17:30 | 8 | 11 | 70 | 2 |
| 17:30 - 17:40 | 1 | 0 | 15 | 1 | 17:30 - 17:40 | 5 | 4 | 80 | 0 |
| 17:40 - 17:50 | 1 | 0 | 10 | 0 | 17:40 - 17:50 | 2 | 10 | 70 | 1 |
| 17:50 - 18:00 | 5 | 1 | 20 | 0 | 17:50 - 18:00 | 0 | 8 | 61 | 0 |
| 18:00 - 18:10 | 6 | 5 | 11 | 0 | 18:00 - 18:10 | 1 | 3 | 56 | 3 |
| 18:10 - 18:20 | 3 | 1 | 30 | 0 | 18:10 - 18:20 | 7 | 10 | 70 | 0 |
| 18:20 - 18:30 | 1 | 1 | 5 | 0 | 18:20 - 18:30 | 1 | 17 | 50 | 1 |



DATE 22/11/2017
LOCATION IS08
STATION A

GEOCONSULT

| DIRECTION 1 | | | | | DIRECTION 2 | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
| 6:30 - 6:40 | 5 | 6 | 65 | 3 | 6:30 - 6:40 | 0 | 2 | 87 | 3 |
| 6:40 - 6:50 | 1 | 4 | 69 | 1 | 6:40 - 6:50 | 7 | 1 | 80 | 5 |
| 6:50 -7:00 | 2 | 4 | 42 | 2 | 6:50 -7:00 | 2 | 6 | 75 | 3 |
| 7:00 - 7:10 | 0 | 1 | 63 | 3 | 7:00 - 7:10 | 6 | 1 | 89 | 1 |
| 7:10 - 7:20 | 1 | 5 | 34 | 4 | 7:10 - 7:20 | 6 | 2 | 76 | 8 |
| 7:20 - 7:30 | 1 | 2 | 44 | 4 | 7:20 - 7:30 | 2 | 2 | 72 | 5 |
| 7:30 - 7:40 | 2 | 5 | 28 | 0 | 7:30 - 7:40 | 4 | 1 | 76 | 3 |
| 7:40 - 7:50 | 0 | 7 | 33 | 1 | 7:40 - 7:50 | 6 | 1 | 70 | 4 |
| 7:50 - 8:00 | 0 | 5 | 21 | 2 | 7:50 - 8:00 | 1 | 0 | 63 | 2 |
| 8:00 - 8:10 | 1 | 3 | 17 | 2 | 8:00 - 8:10 | 3 | 3 | 68 | 3 |
| 8:10 - 8:20 | 1 | 9 | 28 | 2 | 8:10 - 8:20 | 1 | 1 | 52 | 4 |
| 8:20 - 8:30 | 1 | 5 | 29 | 1 | 8:20 - 8:30 | 4 | 1 | 71 | 4 |
| 8:30 - 8:40 | 0 | 7 | 10 | 4 | 8:30 - 8:40 | 2 | 1 | 48 | 2 |
| 8:40 - 8:50 | 0 | 5 | 37 | 3 | 8:40 - 8:50 | 2 | 2 | 67 | 1 |
| 8:50 - 9:00 | 1 | 6 | 13 | 3 | 8:50 - 9:00 | 0 | 1 | 29 | 1 |
| 9:00 - 9:10 | 0 | 6 | 37 | 3 | 9:00 - 9:10 | 3 | 0 | 65 | 6 |
| 9:10 - 9:20 | 0 | 6 | 32 | 3 | 9:10 - 9:20 | 1 | 2 | 64 | 2 |
| 9:20 - 9:30 | 0 | 6 | 33 | 3 | 9:20 - 9:30 | 3 | 1 | 43 | 5 |
| 9:30 - 9:40 | 1 | 3 | 38 | 1 | 9:30 - 9:40 | 5 | 1 | 44 | 4 |
| | | | | | | | | | |
| 15:30 - 15:40 | 1 | 13 | 28 | 0 | 15:30 - 15:40 | 4 | 1 | 44 | 5 |
| 15:40 - 15:50 | 2 | 8 | 51 | 3 | 15:40 - 15:50 | 3 | 4 | 59 | 3 |
| 15:50 - 16:00 | 0 | 8 | 36 | 2 | 15:50 - 16:00 | 4 | 2 | 45 | 2 |
| 16:00 - 16:10 | 0 | 9 | 42 | 3 | 16:00 - 16:10 | 1 | 4 | 66 | 2 |
| 16:10 - 16:20 | 0 | 5 | 37 | 5 | 16:10 - 16:20 | 0 | 2 | 58 | 0 |
| 16:20 - 16:30 | 0 | 5 | 34 | 2 | 16:20 - 16:30 | 3 | 0 | 54 | 0 |
| 16:30 - 16:40 | 0 | 4 | 37 | 3 | 16:30 - 16:40 | 11 | 2 | 34 | 2 |
| 16:40 - 16:50 | 2 | 6 | 47 | 8 | 16:40 - 16:50 | 6 | 1 | 45 | 3 |
| 16:50 - 17:00 | 0 | 5 | 35 | 0 | 16:50 - 17:00 | 0 | 4 | 54 | 4 |
| 17:00 - 17:10 | 1 | 11 | 43 | 4 | 17:00 - 17:10 | 7 | 0 | 47 | 5 |
| 17:10 - 17:20 | 2 | 7 | 68 | 5 | 17:10 - 17:20 | 2 | 5 | 62 | 2 |
| 17:20 - 17:30 | 3 | 11 | 40 | 6 | 17:20 - 17:30 | 1 | 4 | 55 | 1 |
| 17:30 - 17:40 | 4 | 16 | 42 | 0 | 17:30 - 17:40 | 2 | 1 | 51 | 1 |
| 17:40 - 17:50 | 2 | 12 | 39 | 3 | 17:40 - 17:50 | 1 | 7 | 55 | 0 |
| 17:50 - 18:00 | 1 | 15 | 28 | 4 | 17:50 - 18:00 | 3 | 7 | 35 | 2 |
| 18:00 - 18:10 | 1 | 9 | 36 | 5 | 18:00 - 18:10 | 2 | 8 | 55 | 0 |
| 18:10 - 18:20 | 0 | 18 | 34 | 5 | 18:10 - 18:20 | 3 | 6 | 57 | 2 |
| 18:20 - 18:30 | 0 | 14 | 31 | 3 | 18:20 - 18:30 | 2 | 6 | 47 | 4 |





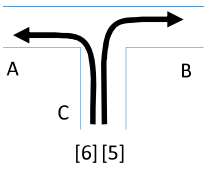

DATE 22/11/2017
LOCATION IS07
STATION C

ONE WAY TRAFFIC GOING IN

DATE 22/11/2017
LOCATION IS08
STATION C

GEOCONSULT

| DIRECTION 5 | | | | | DIRECTION 6 | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
| 6:30 - 6:40 | 0 | 3 | 15 | 1 | 6:30 - 6:40 | 0 | 17 | 29 | 1 |
| 6:40 - 6:50 | 0 | 1 | 18 | 0 | 6:40 - 6:50 | 0 | 16 | 27 | 2 |
| 6:50 - 7:00 | 0 | 2 | 21 | 0 | 6:50 - 7:00 | 0 | 21 | 28 | 1 |
| 7:00 - 7:10 | 0 | 2 | 17 | 1 | 7:00 - 7:10 | 0 | 20 | 30 | 1 |
| 7:10 - 7:20 | 0 | 3 | 24 | 1 | 7:10 - 7:20 | 0 | 25 | 37 | 1 |
| 7:20 - 7:30 | 0 | 2 | 39 | 0 | 7:20 - 7:30 | 0 | 22 | 25 | 2 |
| 7:30 - 7:40 | 0 | 2 | 36 | 5 | 7:30 - 7:40 | 0 | 38 | 47 | 5 |
| 7:40 - 7:50 | 0 | 1 | 15 | 6 | 7:40 - 7:50 | 0 | 23 | 36 | 2 |
| 7:50 - 8:00 | 1 | 3 | 27 | 1 | 7:50 - 8:00 | 0 | 26 | 50 | 2 |
| 8:00 - 8:10 | 1 | 1 | 28 | 1 | 8:00 - 8:10 | 0 | 33 | 31 | 1 |
| 8:10 - 8:20 | 0 | 4 | 22 | 3 | 8:10 - 8:20 | 1 | 20 | 23 | 1 |
| 8:20 - 8:30 | 1 | 2 | 17 | 0 | 8:20 - 8:30 | 0 | 16 | 38 | 0 |
| 8:30 - 8:40 | 0 | 0 | 20 | 4 | 8:30 - 8:40 | 0 | 15 | 25 | 0 |
| 8:40 - 8:50 | 0 | 2 | 15 | 0 | 8:40 - 8:50 | 0 | 40 | 35 | 1 |
| 8:50 - 9:00 | 0 | 2 | 42 | 2 | 8:50 - 9:00 | 0 | 35 | 53 | 3 |
| 9:00 - 9:10 | 0 | 5 | 48 | 3 | 9:00 - 9:10 | 1 | 48 | 68 | 5 |
| 9:10 - 9:20 | 0 | 0 | 17 | 2 | 9:10 - 9:20 | 0 | 21 | 31 | 0 |
| 9:20 - 9:30 | 0 | 0 | 20 | 0 | 9:20 - 9:30 | 0 | 10 | 35 | 1 |
| 9:30 - 9:40 | 0 | 3 | 15 | 3 | 9:30 - 9:40 | 0 | 21 | 25 | 0 |
| 9:40 - 9:50 | 1 | 4 | 15 | 2 | 9:40 - 9:50 | 0 | 22 | 28 | 1 |
| 9:50 - 10:00 | 0 | 0 | 27 | 3 | 9:50 - 10:00 | 0 | 16 | 35 | 1 |
| | | | | | | | | | |
| 15:30 - 15:40 | 0 | 0 | 35 | 1 | 15:30 - 15:40 | 0 | 15 | 33 | 3 |
| 15:40 - 15:50 | 0 | 2 | 34 | 4 | 15:40 - 15:50 | 0 | 13 | 29 | 0 |
| 15:50 - 16:00 | 0 | 1 | 30 | 5 | 15:50 - 16:00 | 0 | 7 | 31 | 1 |
| 16:00 - 16:10 | 0 | 1 | 37 | 0 | 16:00 - 16:10 | 0 | 11 | 30 | 0 |
| 16:10 - 16:20 | 0 | 2 | 59 | 5 | 16:10 - 16:20 | 0 | 10 | 37 | 0 |
| 16:20 - 16:30 | 0 | 7 | 32 | 6 | 16:20 - 16:30 | 0 | 16 | 39 | 0 |
| 16:30 - 16:40 | 0 | 5 | 40 | 4 | 16:30 - 16:40 | 0 | 30 | 27 | 2 |
| 16:40 - 16:50 | 0 | 4 | 35 | 4 | 16:40 - 16:50 | 1 | 18 | 30 | 1 |
| 16:50 - 17:00 | 0 | 0 | 30 | 4 | 16:50 - 17:00 | 0 | 26 | 37 | 0 |
| 17:00 - 17:10 | 2 | 5 | 36 | 6 | 17:00 - 17:10 | 0 | 36 | 42 | 1 |
| 17:10 - 17:20 | 1 | 6 | 43 | 2 | 17:10 - 17:20 | 0 | 49 | 48 | 2 |
| 17:20 - 17:30 | 0 | 1 | 37 | 8 | 17:20 - 17:30 | 0 | 27 | 16 | 3 |
| 17:30 - 17:40 | 1 | 3 | 39 | 1 | 17:30 - 17:40 | 0 | 25 | 42 | 2 |
| 17:40 - 17:50 | 0 | 15 | 43 | 6 | 17:40 - 17:50 | 0 | 48 | 17 | 0 |
| 17:50 - 18:00 | 0 | 13 | 50 | 5 | 17:50 - 18:00 | 0 | 58 | 49 | 0 |
| 18:00 - 18:10 | 0 | 40 | 48 | 4 | 18:00 - 18:10 | 0 | 61 | 60 | 1 |
| 18:10 - 18:20 | 0 | 20 | 35 | 1 | 18:10 - 18:20 | 0 | 46 | 38 | 10 |
| 18:20 - 18:30 | 0 | 35 | 62 | 10 | 18:20 - 18:30 | 0 | 35 | 30 | 0 |

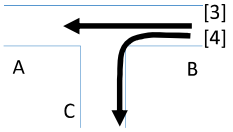





DATE 22/11/2017
LOCATION IS08
STATION B

GEOCONSULT

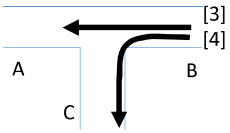
| DIRECTION 3 | | | | | DIRECTION 4 | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
| 6:30 - 6:40 | 0 | 1 | 11 | 0 | 6:30 - 6:40 | 1 | 4 | 6 | 0 |
| 6:40 - 6:50 | 1 | 2 | 13 | 0 | 6:40 - 6:50 | 1 | 5 | 5 | 0 |
| 6:50 -7:00 | 1 | 2 | 16 | 0 | 6:50 -7:00 | 1 | 10 | 11 | 0 |
| 7:00 - 7:10 | 1 | 2 | 22 | 0 | 7:00 - 7:10 | 0 | 11 | 11 | 0 |
| 7:10 - 7:20 | 2 | 2 | 32 | 1 | 7:10 - 7:20 | 1 | 18 | 15 | 1 |
| 7:20 - 7:30 | 4 | 6 | 40 | 0 | 7:20 - 7:30 | 3 | 20 | 15 | 0 |
| 7:30 - 7:40 | 1 | 2 | 20 | 1 | 7:30 - 7:40 | 1 | 13 | 9 | 0 |
| 7:40 - 7:50 | 2 | 0 | 21 | 0 | 7:40 - 7:50 | 3 | 21 | 14 | 1 |
| 7:50 - 8:00 | 1 | 1 | 23 | 2 | 7:50 - 8:00 | 2 | 13 | 13 | 0 |
| 8:00 - 8:10 | 4 | 1 | 30 | 1 | 8:00 - 8:10 | 0 | 20 | 13 | 2 |
| 8:10 - 8:20 | 3 | 1 | 30 | 1 | 8:10 - 8:20 | 1 | 20 | 11 | 0 |
| 8:20 - 8:30 | 1 | 0 | 25 | 3 | 8:20 - 8:30 | 2 | 9 | 17 | 0 |
| 8:30 - 8:40 | 5 | 1 | 30 | 2 | 8:30 - 8:40 | 1 | 10 | 12 | 0 |
| 8:40 - 8:50 | 1 | 1 | 29 | 2 | 8:40 - 8:50 | 0 | 9 | 16 | 0 |
| 8:50 - 9:00 | 3 | 0 | 32 | 0 | 8:50 - 9:00 | 4 | 11 | 17 | 0 |
| 9:00 - 9:10 | 1 | 0 | 34 | 2 | 9:00 - 9:10 | 0 | 9 | 24 | 1 |
| 9:10 - 9:20 | 0 | 1 | 22 | 1 | 9:10 - 9:20 | 2 | 11 | 13 | 0 |
| 9:20 - 9:30 | 2 | 2 | 40 | 0 | 9:20 - 9:30 | 2 | 10 | 18 | 0 |
| 9:30 - 9:40 | 2 | 1 | 26 | 3 | 9:30 - 9:40 | 1 | 22 | 14 | 2 |
| | | | | | | | | | |
| 15:30 - 15:40 | 4 | 1 | 44 | 0 | 15:30 - 15:40 | 4 | 9 | 28 | 1 |
| 15:40 - 15:50 | 3 | 1 | 42 | 1 | 15:40 - 15:50 | 3 | 6 | 23 | 0 |
| 15:50 - 16:00 | 2 | 2 | 40 | 3 | 15:50 - 16:00 | 2 | 11 | 15 | 1 |
| 16:00 - 16:10 | 1 | 2 | 41 | 1 | 16:00 - 16:10 | 5 | 11 | 27 | 3 |
| 16:10 - 16:20 | 1 | 2 | 40 | 1 | 16:10 - 16:20 | 3 | 8 | 40 | 1 |
| 16:20 - 16:30 | 7 | 1 | 41 | 2 | 16:20 - 16:30 | 3 | 8 | 32 | 1 |
| 16:30 - 16:40 | 7 | 1 | 48 | 0 | 16:30 - 16:40 | 2 | 11 | 43 | 4 |
| 16:40 - 16:50 | 2 | 1 | 33 | 2 | 16:40 - 16:50 | 3 | 10 | 45 | 2 |
| 16:50 - 17:00 | 8 | 2 | 40 | 1 | 16:50 - 17:00 | 4 | 10 | 29 | 3 |
| 17:00 - 17:10 | 5 | 1 | 41 | 1 | 17:00 - 17:10 | 8 | 15 | 39 | 1 |
| 17:10 - 17:20 | 2 | 1 | 55 | 3 | 17:10 - 17:20 | 4 | 15 | 30 | 1 |
| 17:20 - 17:30 | 2 | 0 | 51 | 2 | 17:20 - 17:30 | 3 | 13 | 25 | 1 |
| 17:30 - 17:40 | 3 | 1 | 47 | 0 | 17:30 - 17:40 | 2 | 17 | 22 | 0 |
| 17:40 - 17:50 | 1 | 0 | 58 | 0 | 17:40 - 17:50 | 1 | 16 | 26 | 1 |
| 17:50 - 18:00 | 1 | 2 | 45 | 3 | 17:50 - 18:00 | 2 | 17 | 22 | 0 |
| 18:00 - 18:10 | 2 | 2 | 63 | 1 | 18:00 - 18:10 | 1 | 14 | 24 | 0 |
| 18:10 - 18:20 | 5 | 1 | 41 | 0 | 18:10 - 18:20 | 1 | 20 | 21 | 1 |
| 18:20 - 18:30 | 1 | 2 | 52 | 1 | 18:20 - 18:30 | 1 | 15 | 24 | 1 |



DATE 22/11/2017
LOCATION IS09
STATION B

GEOCONSULT

| DIRECTION 3 | | | | | DIRECTION 4 | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
| 6:30 - 6:40 | 0 | 4 | 47 | 1 | 6:30 - 6:40 | | | | |
| 6:40 - 6:50 | 3 | 3 | 54 | 2 | 6:40 - 6:50 | | | | |
| 6:50 -7:00 | 1 | 5 | 70 | 3 | 6:50 -7:00 | | | | |
| 7:00 - 7:10 | 5 | 3 | 100 | 1 | 7:00 - 7:10 | | | | |
| 7:10 - 7:20 | 3 | 0 | 63 | 2 | 7:10 - 7:20 | | | | |
| 7:20 - 7:30 | 4 | 5 | 74 | 1 | 7:20 - 7:30 | | | | |
| 7:30 - 7:40 | 9 | 2 | 76 | 15 | 7:30 - 7:40 | | | | |
| 7:40 - 7:50 | 3 | 0 | 63 | 2 | 7:40 - 7:50 | | | | |
| 7:50 - 8:00 | 4 | 0 | 84 | 1 | 7:50 - 8:00 | | | | |
| 8:00 - 8:10 | 3 | 2 | 59 | 3 | 8:00 - 8:10 | | | | |
| 8:10 - 8:20 | 2 | 1 | 72 | 2 | 8:10 - 8:20 | ONE WAY ROAD COMING OUT OF C | | | |
| 8:20 - 8:30 | 4 | 1 | 63 | 2 | 8:20 - 8:30 | | | | |
| 8:30 - 8:40 | 6 | 1 | 55 | 1 | 8:30 - 8:40 | | | | |
| 8:40 - 8:50 | 2 | 3 | 60 | 2 | 8:40 - 8:50 | | | | |
| 8:50 - 9:00 | 2 | 1 | 66 | 7 | 8:50 - 9:00 | | | | |
| 9:00 - 9:10 | 2 | 3 | 65 | 3 | 9:00 - 9:10 | | | | |
| 9:10 - 9:20 | 0 | 2 | 50 | 9 | 9:10 - 9:20 | | | | |
| 9:20 - 9:30 | 3 | 4 | 56 | 3 | 9:20 - 9:30 | | | | |
| 9:30 - 9:40 | 0 | 3 | 51 | 1 | 9:30 - 9:40 | | | | |
| | | | | | | | | | |
| 15:30 - 15:40 | 3 | 6 | 67 | 4 | 15:30 - 15:40 | | | | |
| 15:40 - 15:50 | 7 | 5 | 84 | 4 | 15:40 - 15:50 | | | | |
| 15:50 - 16:00 | 3 | 4 | 68 | 8 | 15:50 - 16:00 | | | | |
| 16:00 - 16:10 | 3 | 4 | 70 | 4 | 16:00 - 16:10 | | | | |
| 16:10 - 16:20 | 1 | 4 | 80 | 1 | 16:10 - 16:20 | | | | |
| 16:20 - 16:30 | 2 | 2 | 60 | 1 | 16:20 - 16:30 | | | | |
| 16:30 - 16:40 | 6 | 4 | 56 | 3 | 16:30 - 16:40 | | | | |
| 16:40 - 16:50 | 4 | 3 | 58 | 6 | 16:40 - 16:50 | | | | |
| 16:50 - 17:00 | 3 | 7 | 66 | 6 | 16:50 - 17:00 | | | | |
| 17:00 - 17:10 | 5 | 5 | 72 | 4 | 17:00 - 17:10 | | | | |
| 17:10 - 17:20 | 4 | 9 | 65 | 4 | 17:10 - 17:20 | | | | |
| 17:20 - 17:30 | 2 | 12 | 61 | 3 | 17:20 - 17:30 | | | | |
| 17:30 - 17:40 | 3 | 15 | 90 | 2 | 17:30 - 17:40 | | | | |
| 17:40 - 17:50 | 5 | 16 | 60 | 2 | 17:40 - 17:50 | | | | |
| 17:50 - 18:00 | 2 | 21 | 67 | 4 | 17:50 - 18:00 | | | | |
| 18:00 - 18:10 | 4 | 13 | 66 | 5 | 18:00 - 18:10 | | | | |
| 18:10 - 18:20 | 3 | 19 | 65 | 6 | 18:10 - 18:20 | | | | |
| 18:20 - 18:30 | 1 | 10 | 50 | 4 | 18:20 - 18:30 | | | | |

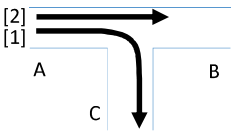





DATE 22/11/2017
LOCATION IS09
STATION A

GEOCONSULT

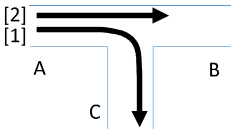
| DIRECTION 1 | | | | | DIRECTION 2 | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
| 6:30 - 6:40 | | | | | 6:30 - 6:40 | 0 | 12 | 14 | 0 |
| 6:40 - 6:50 | | | | | 6:40 - 6:50 | 0 | 13 | 12 | 2 |
| 6:50 -7:00 | | | | | 6:50 -7:00 | 0 | 13 | 13 | 1 |
| 7:00 - 7:10 | | | | | 7:00 - 7:10 | 0 | 1 | 4 | 0 |
| 7:10 - 7:20 | | | | | 7:10 - 7:20 | 2 | 2 | 17 | 0 |
| 7:20 - 7:30 | | | | | 7:20 - 7:30 | 2 | 5 | 23 | 0 |
| 7:30 - 7:40 | | | | | 7:30 - 7:40 | 0 | 1 | 11 | 1 |
| 7:40 - 7:50 | | | | | 7:40 - 7:50 | 1 | 2 | 10 | 1 |
| 7:50 - 8:00 | | | | | 7:50 - 8:00 | 1 | 2 | 16 | 1 |
| 8:00 - 8:10 | | | | | 8:00 - 8:10 | 0 | 0 | 7 | 0 |
| 8:10 - 8:20 | ONE WAY ROAD COMING OUT OF C | | | | 8:10 - 8:20 | 2 | 2 | 15 | 1 |
| 8:20 - 8:30 | | | | | 8:20 - 8:30 | 0 | 2 | 16 | 1 |
| 8:30 - 8:40 | | | | | 8:30 - 8:40 | 3 | 1 | 21 | 0 |
| 8:40 - 8:50 | | | | | 8:40 - 8:50 | 1 | 2 | 19 | 2 |
| 8:50 - 9:00 | | | | | 8:50 - 9:00 | 2 | 2 | 17 | 0 |
| 9:00 - 9:10 | | | | | 9:00 - 9:10 | 0 | 5 | 17 | 0 |
| 9:10 - 9:20 | | | | | 9:10 - 9:20 | 0 | 0 | 28 | 0 |
| 9:20 - 9:30 | | | | | 9:20 - 9:30 | 0 | 0 | 18 | 0 |
| 9:30 - 9:40 | | | | | 9:30 - 9:40 | 0 | 0 | 1 | 0 |
| | | | | | | | | | |
| 15:30 - 15:40 | | | | | 15:30 - 15:40 | 6 | 16 | 83 | 3 |
| 15:40 - 15:50 | | | | | 15:40 - 15:50 | 4 | 27 | 73 | 4 |
| 15:50 - 16:00 | | | | | 15:50 - 16:00 | 3 | 19 | 72 | 7 |
| 16:00 - 16:10 | | | | | 16:00 - 16:10 | 3 | 28 | 88 | 2 |
| 16:10 - 16:20 | | | | | 16:10 - 16:20 | 2 | 14 | 80 | 6 |
| 16:20 - 16:30 | | | | | 16:20 - 16:30 | 11 | 39 | 106 | 5 |
| 16:30 - 16:40 | | | | | 16:30 - 16:40 | 7 | 30 | 108 | 2 |
| 16:40 - 16:50 | | | | | 16:40 - 16:50 | 2 | 20 | 84 | 5 |
| 16:50 - 17:00 | | | | | 16:50 - 17:00 | 10 | 27 | 108 | 3 |
| 17:00 - 17:10 | | | | | 17:00 - 17:10 | 9 | 15 | 93 | 6 |
| 17:10 - 17:20 | | | | | 17:10 - 17:20 | 4 | 29 | 120 | 3 |
| 17:20 - 17:30 | | | | | 17:20 - 17:30 | 5 | 20 | 130 | 9 |
| 17:30 - 17:40 | | | | | 17:30 - 17:40 | 3 | 29 | 96 | 3 |
| 17:40 - 17:50 | | | | | 17:40 - 17:50 | 1 | 32 | 118 | 3 |
| 17:50 - 18:00 | | | | | 17:50 - 18:00 | 1 | 46 | 123 | 5 |
| 18:00 - 18:10 | | | | | 18:00 - 18:10 | 5 | 30 | 117 | 5 |
| 18:10 - 18:20 | | | | | 18:10 - 18:20 | 5 | 35 | 119 | 4 |
| 18:20 - 18:30 | | | | | 18:20 - 18:30 | 4 | 39 | 110 | 3 |



DATE 18/01/2018
LOCATION IS10-1
STATION A

GEOCONSULT

| DIRECTION 1 | | | | | DIRECTION 2 | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
| 6:40 - 6:50 | 0 | 0 | 2 | 0 | 6:40 - 6:50 | 1 | 19 | 23 | 0 |
| 6:50 -7:00 | 0 | 0 | 1 | 0 | 6:50 -7:00 | 2 | 25 | 29 | 1 |
| 7:00 - 7:10 | 0 | 0 | 1 | 0 | 7:00 - 7:10 | 1 | 35 | 40 | 3 |
| 7:10 - 7:20 | 0 | 0 | 1 | 1 | 7:10 - 7:20 | 3 | 39 | 50 | 1 |
| 7:20 - 7:30 | 0 | 0 | 8 | 0 | 7:20 - 7:30 | 1 | 31 | 45 | 0 |
| 7:30 - 7:40 | 1 | 1 | 3 | 0 | 7:30 - 7:40 | 1 | 20 | 42 | 1 |
| 7:40 - 7:50 | 0 | 0 | 2 | 0 | 7:40 - 7:50 | 1 | 38 | 49 | 2 |
| 7:50 - 8:00 | 0 | 0 | 0 | 0 | 7:50 - 8:00 | 1 | 16 | 17 | 5 |
| 8:00 - 8:10 | 0 | 0 | 0 | 0 | 8:00 - 8:10 | 1 | 19 | 52 | 3 |
| 8:10 - 8:20 | 0 | 0 | 0 | 0 | 8:10 - 8:20 | 0 | 10 | 40 | 0 |
| 8:20 - 8:30 | 0 | 0 | 0 | 0 | 8:20 - 8:30 | 0 | 8 | 14 | 3 |
| 8:30 - 8:40 | 0 | 1 | 0 | 0 | 8:30 - 8:40 | 1 | 15 | 33 | 2 |
| 8:40 - 8:50 | 0 | 0 | 0 | 0 | 8:40 - 8:50 | 1 | 21 | 30 | 6 |
| 8:50 - 9:00 | 0 | 0 | 0 | 0 | 8:50 - 9:00 | 1 | 24 | 42 | 1 |
| 9:00 - 9:10 | 0 | 0 | 1 | 0 | 9:00 - 9:10 | 2 | 25 | 35 | 2 |
| 9:10 - 9:20 | 0 | 0 | 1 | 0 | 9:10 - 9:20 | 2 | 24 | 27 | 1 |
| 9:20 - 9:30 | 0 | 0 | 1 | 0 | 9:20 - 9:30 | 1 | 23 | 32 | 2 |
| 9:30 - 9:40 | 0 | 0 | 0 | 0 | 9:30 - 9:40 | 2 | 22 | 24 | 1 |
| | | | | | | | | | |
| 15:30 - 15:40 | 0 | 1 | 1 | 0 | 15:30 - 15:40 | 1 | 18 | 38 | 2 |
| 15:40 - 15:50 | 0 | 0 | 0 | 0 | 15:40 - 15:50 | 1 | 27 | 61 | 3 |
| 15:50 - 16:00 | 0 | 0 | 0 | 0 | 15:50 - 16:00 | 1 | 16 | 53 | 4 |
| 16:00 - 16:10 | 0 | 0 | 0 | 0 | 16:00 - 16:10 | 3 | 23 | 49 | 4 |
| 16:10 - 16:20 | 0 | 0 | 1 | 0 | 16:10 - 16:20 | 3 | 15 | 48 | 8 |
| 16:20 - 16:30 | 0 | 0 | 0 | 0 | 16:20 - 16:30 | 6 | 19 | 52 | 6 |
| 16:30 - 16:40 | 0 | 0 | 0 | 0 | 16:30 - 16:40 | 6 | 12 | 47 | 8 |
| 16:40 - 16:50 | 0 | 0 | 0 | 0 | 16:40 - 16:50 | 4 | 13 | 58 | 10 |
| 16:50 - 17:00 | 0 | 0 | 0 | 0 | 16:50 - 17:00 | 2 | 11 | 54 | 7 |
| 17:00 - 17:10 | 0 | 0 | 0 | 0 | 17:00 - 17:10 | 6 | 15 | 103 | 7 |
| 17:10 - 17:20 | 0 | 0 | 0 | 0 | 17:10 - 17:20 | 0 | 18 | 115 | 4 |
| 17:20 - 17:30 | 0 | 0 | 1 | 0 | 17:20 - 17:30 | 3 | 24 | 106 | 2 |
| 17:30 - 17:40 | 0 | 0 | 0 | 0 | 17:30 - 17:40 | 3 | 18 | 120 | 1 |
| 17:40 - 17:50 | 0 | 0 | 1 | 0 | 17:40 - 17:50 | 8 | 36 | 112 | 2 |
| 17:50 - 18:00 | 0 | 0 | 0 | 0 | 17:50 - 18:00 | 1 | 32 | 96 | 5 |
| 18:00 - 18:10 | 0 | 0 | 1 | 0 | 18:00 - 18:10 | 10 | 14 | 80 | 4 |
| 18:10 - 18:20 | 0 | 0 | 0 | 0 | 18:10 - 18:20 | 1 | 41 | 97 | 2 |
| 18:20 - 18:30 | 0 | 0 | 1 | 0 | 18:20 - 18:30 | 2 | 37 | 51 | 2 |

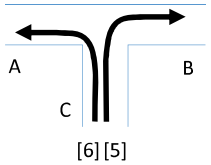





DATE 22/11/2017
LOCATION IS09
STATION C

GEOCONSULT

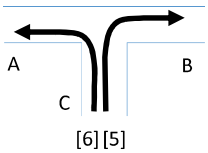
| DIRECTION 5 | | | | | DIRECTION 6 | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
| 6:30 - 6:40 | 0 | 1 | 19 | 0 | 6:30 - 6:40 | 0 | 4 | 4 | 0 |
| 6:40 - 6:50 | 2 | 0 | 24 | 1 | 6:40 - 6:50 | 0 | 6 | 0 | 0 |
| 6:50 -7:00 | 5 | 2 | 56 | 0 | 6:50 - 7:00 | 1 | 11 | 5 | 2 |
| 7:00 - 7:10 | 3 | 1 | 76 | 1 | 7:00 - 7:10 | 0 | 1 | 3 | 2 |
| 7:10 - 7:20 | 2 | 0 | 52 | 0 | 7:10 - 7:20 | 1 | 2 | 1 | 1 |
| 7:20 - 7:30 | 1 | 2 | 57 | 0 | 7:20 - 7:30 | 0 | 3 | 2 | 0 |
| 7:30 - 7:40 | 4 | 1 | 49 | 2 | 7:30 - 7:40 | 0 | 2 | 5 | 2 |
| 7:40 - 7:50 | 3 | 0 | 18 | 1 | 7:40 - 7:50 | 0 | 1 | 0 | 1 |
| 7:50 - 8:00 | 1 | 1 | 18 | 0 | 7:50 - 8:00 | 0 | 2 | 4 | 0 |
| 8:00 - 8:10 | 1 | 2 | 10 | 0 | 8:00 - 8:10 | 0 | 1 | 0 | 0 |
| 8:10 - 8:20 | 0 | 1 | 19 | 2 | 8:10 - 8:20 | 0 | 2 | 1 | 0 |
| 8:20 - 8:30 | 1 | 4 | 32 | 0 | 8:20 - 8:30 | 0 | 1 | 1 | 0 |
| 8:30 - 8:40 | 2 | 1 | 17 | 0 | 8:30 - 8:40 | 0 | 1 | 0 | 0 |
| 8:40 - 8:50 | 2 | 2 | 14 | 1 | 8:40 - 8:50 | 0 | 1 | 4 | 0 |
| 8:50 - 9:00 | 1 | 1 | 13 | 1 | 8:50 - 9:00 | 0 | 0 | 1 | 1 |
| 9:00 - 9:10 | 0 | 2 | 15 | 0 | 9:00 - 9:10 | 0 | 1 | 1 | 0 |
| 9:10 - 9:20 | 0 | 0 | 19 | 0 | 9:10 - 9:20 | 0 | 1 | 1 | 1 |
| 9:20 - 9:30 | 1 | 1 | 20 | 0 | 9:20 - 9:30 | 0 | 0 | 2 | 0 |
| 9:30 - 9:40 | 1 | 4 | 13 | 1 | 9:30 - 9:40 | 0 | 14 | 7 | 0 |
| 9:40 - 9:50 | 2 | 5 | 16 | 0 | 9:40 - 9:50 | 1 | 3 | 4 | 0 |
| 9:50 - 10:00 | 0 | 1 | 15 | 1 | 9:50 - 10:00 | 0 | 2 | 1 | 0 |
| | | | | | | | | | |
| 15:30 - 15:40 | 1 | 6 | 15 | 1 | 15:30 - 15:40 | 1 | 18 | 4 | 1 |
| 15:40 - 15:50 | 0 | 8 | 19 | 0 | 15:40 - 15:50 | 0 | 25 | 10 | 1 |
| 15:50 - 16:00 | 1 | 12 | 20 | 0 | 15:50 - 16:00 | 2 | 29 | 21 | 0 |
| 16:00 - 16:10 | 0 | 4 | 7 | 0 | 16:00 - 16:10 | 0 | 15 | 3 | 0 |
| 16:10 - 16:20 | 0 | 3 | 17 | 1 | 16:10 - 16:20 | 1 | 16 | 22 | 1 |
| 16:20 - 16:30 | 0 | 9 | 7 | 0 | 16:20 - 16:30 | 0 | 17 | 19 | 0 |
| 16:30 - 16:40 | 1 | 3 | 23 | 0 | 16:30 - 16:40 | 2 | 22 | 17 | 1 |
| 16:40 - 16:50 | 2 | 7 | 15 | 1 | 16:40 - 16:50 | 0 | 17 | 19 | 1 |
| 16:50 - 17:00 | 0 | 6 | 14 | 0 | 16:50 - 17:00 | 0 | 25 | 23 | 1 |
| 17:00 - 17:10 | 1 | 6 | 13 | 0 | 17:00 - 17:10 | 0 | 16 | 30 | 0 |
| 17:10 - 17:20 | 2 | 6 | 16 | 0 | 17:10 - 17:20 | 1 | 21 | 34 | 0 |
| 17:20 - 17:30 | 4 | 10 | 21 | 0 | 17:20 - 17:30 | 1 | 17 | 30 | 0 |
| 17:30 - 17:40 | 0 | 14 | 21 | 0 | 17:30 - 17:40 | 0 | 40 | 35 | 0 |
| 17:40 - 17:50 | 1 | 2 | 12 | 0 | 17:40 - 17:50 | 0 | 39 | 35 | 0 |
| 17:50 - 18:00 | 2 | 4 | 7 | 0 | 17:50 - 18:00 | 1 | 12 | 16 | 0 |
| 18:00 - 18:10 | 0 | 7 | 15 | 0 | 18:00 - 18:10 | 0 | 28 | 37 | 1 |
| 18:10 - 18:20 | 0 | 7 | 17 | 0 | 18:10 - 18:20 | 0 | 28 | 33 | 0 |
| 18:20 - 18:30 | 3 | 11 | 19 | 0 | 18:20 - 18:30 | 0 | 33 | 37 | 0 |



DATE 18/01/2018
LOCATION IS10-1
STATION C

GEOCONSULT

| DIRECTION 5 | | | | | DIRECTION 6 | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
| 6:40 - 6:50 | 0 | 13 | 12 | 0 | 6:40 - 6:50 | 0 | 3 | 9 | 1 |
| 6:50 - 7:00 | 0 | 12 | 11 | 0 | 6:50 - 7:00 | 0 | 4 | 10 | 0 |
| 7:00 - 7:10 | 0 | 14 | 21 | 0 | 7:00 - 7:10 | 0 | 0 | 12 | 0 |
| 7:10 - 7:20 | 0 | 17 | 34 | 2 | 7:10 - 7:20 | 0 | 5 | 0 | 1 |
| 7:20 - 7:30 | 2 | 25 | 31 | 0 | 7:20 - 7:30 | 0 | 0 | 3 | 0 |
| 7:30 - 7:40 | 0 | 26 | 24 | 0 | 7:30 - 7:40 | 1 | 0 | 2 | 0 |
| 7:40 - 7:50 | 1 | 31 | 30 | 0 | 7:40 - 7:50 | 0 | 0 | 5 | 0 |
| 7:50 - 8:00 | 2 | 27 | 11 | 1 | 7:50 - 8:00 | 1 | 0 | 2 | 0 |
| 8:00 - 8:10 | 0 | 21 | 16 | 1 | 8:00 - 8:10 | 0 | 0 | 1 | 1 |
| 8:10 - 8:20 | 0 | 30 | 9 | 1 | 8:10 - 8:20 | 0 | 1 | 4 | 0 |
| 8:20 - 8:30 | 0 | 12 | 16 | 0 | 8:20 - 8:30 | 1 | 0 | 3 | 0 |
| 8:30 - 8:40 | 1 | 29 | 22 | 0 | 8:30 - 8:40 | 0 | 0 | 2 | 0 |
| 8:40 - 8:50 | 1 | 28 | 15 | 0 | 8:40 - 8:50 | 0 | 0 | 1 | 1 |
| 8:50 - 9:00 | 0 | 16 | 9 | 1 | 8:50 - 9:00 | 0 | 0 | 0 | 0 |
| 9:00 - 9:10 | 0 | 15 | 7 | 1 | 9:00 - 9:10 | 0 | 0 | 1 | 0 |
| 9:10 - 9:20 | 1 | 15 | 21 | 0 | 9:10 - 9:20 | 0 | 0 | 1 | 0 |
| 9:20 - 9:30 | 1 | 18 | 16 | 0 | 9:20 - 9:30 | 0 | 0 | 0 | 0 |
| 9:30 - 9:40 | 1 | 10 | 14 | 0 | 9:30 - 9:40 | 0 | 0 | 1 | 0 |
| 9:40 - 9:50 | 1 | 18 | 13 | 0 | 9:40 - 9:50 | 1 | 1 | 0 | 0 |
| | | | | | | | | | |
| 15:30 - 15:40 | 1 | 10 | 32 | 0 | 15:30 - 15:40 | 1 | 0 | 2 | 0 |
| 15:40 - 15:50 | 2 | 7 | 26 | 0 | 15:40 - 15:50 | 0 | 0 | 1 | 0 |
| 15:50 - 16:00 | 2 | 10 | 19 | 0 | 15:50 - 16:00 | 0 | 0 | 1 | 0 |
| 16:00 - 16:10 | 2 | 9 | 29 | 0 | 16:00 - 16:10 | 0 | 0 | 1 | 0 |
| 16:10 - 16:20 | 0 | 11 | 21 | 1 | 16:10 - 16:20 | 0 | 0 | 1 | 0 |
| 16:20 - 16:30 | 1 | 12 | 30 | 2 | 16:20 - 16:30 | 0 | 0 | 11 | 0 |
| 16:30 - 16:40 | 3 | 12 | 36 | 0 | 16:30 - 16:40 | 0 | 0 | 0 | 0 |
| 16:40 - 16:50 | 1 | 40 | 19 | 3 | 16:40 - 16:50 | 0 | 0 | 2 | 0 |
| 16:50 - 17:00 | 1 | 12 | 31 | 0 | 16:50 - 17:00 | 0 | 1 | 0 | 0 |
| 17:00 - 17:10 | 2 | 11 | 29 | 0 | 17:00 - 17:10 | 0 | 0 | 2 | 0 |
| 17:10 - 17:20 | 0 | 3 | 39 | 0 | 17:10 - 17:20 | 0 | 0 | 0 | 0 |
| 17:20 - 17:30 | 0 | 12 | 36 | 0 | 17:20 - 17:30 | 0 | 0 | 2 | 0 |
| 17:30 - 17:40 | 2 | 8 | 21 | 0 | 17:30 - 17:40 | 0 | 0 | 0 | 0 |
| 17:40 - 17:50 | 1 | 14 | 35 | 0 | 17:40 - 17:50 | 0 | 0 | 1 | 0 |
| 17:50 - 18:00 | 0 | 5 | 31 | 0 | 17:50 - 18:00 | 0 | 0 | 1 | 0 |
| 18:00 - 18:10 | 0 | 4 | 25 | 0 | 18:00 - 18:10 | 0 | 1 | 2 | 0 |
| 18:10 - 18:20 | 1 | 9 | 39 | 0 | 18:10 - 18:20 | 0 | 0 | 0 | 0 |
| 18:20 - 18:30 | 2 | 25 | 3 | 2 | 18:20 - 18:30 | 0 | 0 | 1 | 0 |

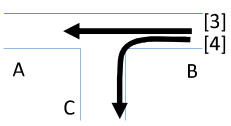





DATE 18/01/2018
LOCATION IS10-1
STATION B

GEOCONSULT

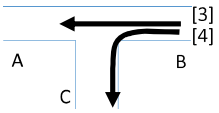
| DIRECTION 3 | | | | | DIRECTION 4 | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
| 6:40 - 6:50 | 3 | 10 | 83 | 4 | 6:40 - 6:50 | 1 | 16 | 29 | 0 |
| 6:50 - 7:00 | 2 | 26 | 67 | 3 | 6:50 - 7:00 | 1 | 37 | 54 | 1 |
| 7:00 - 7:10 | 1 | 8 | 106 | 7 | 7:00 - 7:10 | 0 | 43 | 119 | 1 |
| 7:10 - 7:20 | 11 | 15 | 104 | 3 | 7:10 - 7:20 | 0 | 46 | 96 | 1 |
| 7:20 - 7:30 | 4 | 17 | 80 | 17 | 7:20 - 7:30 | 1 | 57 | 62 | 2 |
| 7:30 - 7:40 | 4 | 16 | 93 | 4 | 7:30 - 7:40 | 2 | 43 | 44 | 2 |
| 7:40 - 7:50 | 3 | 14 | 73 | 10 | 7:40 - 7:50 | 1 | 52 | 46 | 0 |
| 7:50 - 8:00 | 1 | 22 | 84 | 4 | 7:50 - 8:00 | 0 | 39 | 29 | 0 |
| 8:00 - 8:10 | 1 | 15 | 65 | 10 | 8:00 - 8:10 | 1 | 47 | 25 | 0 |
| 8:10 - 8:20 | 2 | 20 | 78 | 3 | 8:10 - 8:20 | 2 | 40 | 21 | 3 |
| 8:20 - 8:30 | 1 | 13 | 86 | 7 | 8:20 - 8:30 | 0 | 38 | 23 | 0 |
| 8:30 - 8:40 | 0 | 11 | 69 | 7 | 8:30 - 8:40 | 0 | 33 | 13 | 0 |
| 8:40 - 8:50 | 2 | 10 | 70 | 11 | 8:40 - 8:50 | 1 | 41 | 24 | 0 |
| 8:50 - 9:00 | 1 | 10 | 77 | 5 | 8:50 - 9:00 | 0 | 35 | 21 | 1 |
| 9:00 - 9:10 | 0 | 7 | 63 | 5 | 9:00 - 9:10 | 3 | 36 | 22 | 0 |
| 9:10 - 9:20 | 3 | 9 | 65 | 1 | 9:10 - 9:20 | 0 | 33 | 15 | 0 |
| 9:20 - 9:30 | 2 | 7 | 39 | 3 | 9:20 - 9:30 | 0 | 24 | 25 | 0 |
| 9:30 - 9:40 | 2 | 5 | 80 | 4 | 9:30 - 9:40 | 0 | 33 | 21 | 1 |
| | | | | | | | | | |
| 15:30 - 15:40 | 2 | 4 | 42 | 5 | 15:30 - 15:40 | 2 | 26 | 21 | 0 |
| 15:40 - 15:50 | 1 | 7 | 55 | 3 | 15:40 - 15:50 | 0 | 26 | 13 | 0 |
| 15:50 - 16:00 | 1 | 7 | 48 | 5 | 15:50 - 16:00 | 0 | 22 | 17 | 0 |
| 16:00 - 16:10 | 1 | 10 | 42 | 3 | 16:00 - 16:10 | 3 | 23 | 12 | 1 |
| 16:10 - 16:20 | 4 | 65 | 65 | 1 | 16:10 - 16:20 | 2 | 23 | 20 | 1 |
| 16:20 - 16:30 | 3 | 3 | 51 | 2 | 16:20 - 16:30 | 0 | 17 | 15 | 0 |
| 16:30 - 16:40 | 6 | 6 | 53 | 9 | 16:30 - 16:40 | 1 | 28 | 22 | 2 |
| 16:40 - 16:50 | 0 | 9 | 46 | 3 | 16:40 - 16:50 | 1 | 25 | 21 | 1 |
| 16:50 - 17:00 | 4 | 10 | 48 | 3 | 16:50 - 17:00 | 3 | 23 | 21 | 3 |
| 17:00 - 17:10 | 2 | 4 | 50 | 5 | 17:00 - 17:10 | 1 | 25 | 16 | 0 |
| 17:10 - 17:20 | 2 | 9 | 34 | 1 | 17:10 - 17:20 | 1 | 26 | 16 | 0 |
| 17:20 - 17:30 | 0 | 9 | 56 | 7 | 17:20 - 17:30 | 1 | 27 | 20 | 0 |
| 17:30 - 17:40 | 2 | 12 | 42 | 5 | 17:30 - 17:40 | 1 | 23 | 19 | 3 |
| 17:40 - 17:50 | 3 | 14 | 42 | 1 | 17:40 - 17:50 | 1 | 22 | 18 | 2 |
| 17:50 - 18:00 | 3 | 15 | 39 | 3 | 17:50 - 18:00 | 1 | 18 | 10 | 1 |
| 18:00 - 18:10 | 1 | 17 | 33 | 2 | 18:00 - 18:10 | 2 | 22 | 8 | 0 |
| 18:10 - 18:20 | 5 | 24 | 50 | 4 | 18:10 - 18:20 | 0 | 24 | 14 | 0 |
| 18:20 - 18:30 | 1 | 11 | 51 | 5 | 18:20 - 18:30 | 1 | 18 | 16 | 1 |



DATE 19/01/2018
LOCATION IS10-2
STATION B

GEOCONSULT

| DIRECTION 3 | | | | | DIRECTION 4 | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
| 6:40 - 6:50 | 4 | 38 | 36 | 1 | 6:40 - 6:50 | 0 | 4 | 20 | 0 |
| 6:50 -7:00 | 5 | 42 | 33 | 2 | 6:50 -7:00 | 0 | 3 | 18 | 0 |
| 7:00 - 7:10 | 2 | 38 | 40 | 3 | 7:00 - 7:10 | 0 | 6 | 28 | 0 |
| 7:10 - 7:20 | 1 | 36 | 55 | 0 | 7:10 - 7:20 | 1 | 6 | 28 | 0 |
| 7:20 - 7:30 | 5 | 64 | 62 | 0 | 7:20 - 7:30 | 0 | 8 | 28 | 0 |
| 7:30 - 7:40 | 1 | 46 | 53 | 0 | 7:30 - 7:40 | 2 | 6 | 27 | 0 |
| 7:40 - 7:50 | 4 | 49 | 53 | 1 | 7:40 - 7:50 | 0 | 14 | 32 | 0 |
| 7:50 - 8:00 | 3 | 51 | 50 | 2 | 7:50 - 8:00 | 0 | 4 | 13 | 0 |
| 8:00 - 8:10 | 1 | 39 | 37 | 1 | 8:00 - 8:10 | 0 | 4 | 14 | 1 |
| 8:10 - 8:20 | 5 | 39 | 47 | 1 | 8:10 - 8:20 | 0 | 1 | 10 | 0 |
| 8:20 - 8:30 | 2 | 40 | 50 | 2 | 8:20 - 8:30 | 0 | 5 | 19 | 0 |
| 8:30 - 8:40 | 2 | 28 | 36 | 2 | 8:30 - 8:40 | 0 | 1 | 16 | 0 |
| 8:40 - 8:50 | 2 | 42 | 45 | 1 | 8:40 - 8:50 | 0 | 3 | 10 | 0 |
| 8:50 - 9:00 | 2 | 21 | 64 | 3 | 8:50 - 9:00 | 0 | 2 | 12 | 0 |
| 9:00 - 9:10 | 5 | 46 | 35 | 1 | 9:00 - 9:10 | 2 | 8 | 11 | 2 |
| 9:10 - 9:20 | 0 | 49 | 40 | 1 | 9:10 - 9:20 | 2 | 7 | 14 | 0 |
| 9:20 - 9:30 | 3 | 50 | 46 | 0 | 9:20 - 9:30 | 0 | 8 | 8 | 0 |
| 9:30 - 9:40 | 1 | 32 | 41 | 1 | 9:30 - 9:40 | 0 | 3 | 10 | 0 |
| | | | | | | | | | |
| 15:30 - 15:40 | 2 | 31 | 57 | 2 | 15:30 - 15:40 | 0 | 1 | 18 | 0 |
| 15:40 - 15:50 | 3 | 30 | 68 | 2 | 15:40 - 15:50 | 0 | 3 | 18 | 0 |
| 15:50 - 16:00 | 2 | 27 | 61 | 3 | 15:50 - 16:00 | 1 | 2 | 13 | 1 |
| 16:00 - 16:10 | 6 | 31 | 75 | 1 | 16:00 - 16:10 | 0 | 0 | 25 | 0 |
| 16:10 - 16:20 | 8 | 25 | 71 | 1 | 16:10 - 16:20 | 0 | 1 | 15 | 0 |
| 16:20 - 16:30 | 5 | 28 | 68 | 5 | 16:20 - 16:30 | 1 | 2 | 24 | 0 |
| 16:30 - 16:40 | 14 | 32 | 86 | 2 | 16:30 - 16:40 | 2 | 0 | 22 | 0 |
| 16:40 - 16:50 | 4 | 22 | 85 | 0 | 16:40 - 16:50 | 1 | 0 | 27 | 0 |
| 16:50 - 17:00 | 9 | 30 | 88 | 4 | 16:50 - 17:00 | 0 | 0 | 31 | 1 |
| 17:00 - 17:10 | 8 | 31 | 92 | 1 | 17:00 - 17:10 | 0 | 1 | 24 | 0 |
| 17:10 - 17:20 | 1 | 19 | 89 | 5 | 17:10 - 17:20 | 0 | 5 | 41 | 0 |
| 17:20 - 17:30 | 5 | 29 | 106 | 2 | 17:20 - 17:30 | 1 | 7 | 45 | 0 |
| 17:30 - 17:40 | 3 | 37 | 90 | 1 | 17:30 - 17:40 | 0 | 9 | 38 | 0 |
| 17:40 - 17:50 | 4 | 37 | 71 | 1 | 17:40 - 17:50 | 1 | 5 | 36 | 0 |
| 17:50 - 18:00 | 2 | 35 | 92 | 3 | 17:50 - 18:00 | 0 | 2 | 35 | 0 |
| 18:00 - 18:10 | 5 | 20 | 69 | 2 | 18:00 - 18:10 | 0 | 5 | 32 | 0 |
| 18:10 - 18:20 | 5 | 47 | 76 | 2 | 18:10 - 18:20 | 0 | 4 | 33 | 0 |
| 18:20 - 18:30 | 1 | 32 | 68 | 2 | 18:20 - 18:30 | 1 | 5 | 35 | 0 |

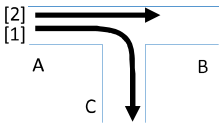





DATE 19/01/2018
LOCATION IS10-2
STATION A

GEOCONSULT

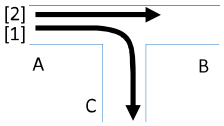
| DIRECTION 1 | | | | | DIRECTION 2 | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
| 6:40 - 6:50 | 1 | 2 | 2 | 1 | 6:40 - 6:50 | 8 | 62 | 53 | 2 |
| 6:50 -7:00 | 0 | 3 | 3 | 2 | 6:50 -7:00 | 7 | 49 | 46 | 7 |
| 7:00 - 7:10 | 1 | 1 | 4 | 0 | 7:00 - 7:10 | 7 | 127 | 100 | 0 |
| 7:10 - 7:20 | 2 | 3 | 12 | 0 | 7:10 - 7:20 | 6 | 98 | 106 | 3 |
| 7:20 - 7:30 | 0 | 1 | 3 | 0 | 7:20 - 7:30 | 1 | 77 | 68 | 6 |
| 7:30 - 7:40 | 0 | 1 | 6 | 0 | 7:30 - 7:40 | 7 | 67 | 77 | 7 |
| 7:40 - 7:50 | 0 | 0 | 6 | 0 | 7:40 - 7:50 | 6 | 72 | 73 | 2 |
| 7:50 - 8:00 | 0 | 0 | 5 | 0 | 7:50 - 8:00 | 2 | 59 | 73 | 4 |
| 8:00 - 8:10 | 0 | 0 | 2 | 0 | 8:00 - 8:10 | 2 | 69 | 93 | 2 |
| 8:10 - 8:20 | 0 | 0 | 5 | 0 | 8:10 - 8:20 | 4 | 59 | 61 | 6 |
| 8:20 - 8:30 | 0 | 2 | 4 | 0 | 8:20 - 8:30 | 5 | 56 | 66 | 4 |
| 8:30 - 8:40 | 0 | 0 | 8 | 0 | 8:30 - 8:40 | 1 | 46 | 72 | 4 |
| 8:40 - 8:50 | 0 | 0 | 3 | 0 | 8:40 - 8:50 | 0 | 38 | 58 | 5 |
| 8:50 - 9:00 | 0 | 2 | 2 | 0 | 8:50 - 9:00 | 3 | 49 | 61 | 1 |
| 9:00 - 9:10 | 0 | 0 | 4 | 0 | 9:00 - 9:10 | 2 | 42 | 65 | 4 |
| 9:10 - 9:20 | 0 | 1 | 6 | 0 | 9:10 - 9:20 | 2 | 38 | 63 | 3 |
| 9:20 - 9:30 | 0 | 0 | 1 | 0 | 9:20 - 9:30 | 2 | 37 | 48 | 2 |
| 9:30 - 9:40 | 0 | 2 | 9 | 1 | 9:30 - 9:40 | 1 | 39 | 51 | 3 |
| | | | | | | | | | |
| 15:30 - 15:40 | 0 | 0 | 4 | 0 | 15:30 - 15:40 | 5 | 42 | 51 | 1 |
| 15:40 - 15:50 | 1 | 0 | 8 | 0 | 15:40 - 15:50 | 2 | 39 | 49 | 3 |
| 15:50 - 16:00 | 0 | 0 | 3 | 0 | 15:50 - 16:00 | 1 | 26 | 47 | 4 |
| 16:00 - 16:10 | 0 | 0 | 11 | 0 | 16:00 - 16:10 | 4 | 29 | 39 | 0 |
| 16:10 - 16:20 | 0 | 1 | 10 | 0 | 16:10 - 16:20 | 5 | 36 | 48 | 0 |
| 16:20 - 16:30 | 0 | 0 | 3 | 2 | 16:20 - 16:30 | 2 | 16 | 49 | 1 |
| 16:30 - 16:40 | 1 | 0 | 17 | 0 | 16:30 - 16:40 | 7 | 26 | 56 | 6 |
| 16:40 - 16:50 | 0 | 0 | 8 | 0 | 16:40 - 16:50 | 2 | 27 | 58 | 2 |
| 16:50 - 17:00 | 1 | 2 | 6 | 0 | 16:50 - 17:00 | 5 | 35 | 48 | 6 |
| 17:00 - 17:10 | 2 | 1 | 11 | 0 | 17:00 - 17:10 | 2 | 33 | 56 | 0 |
| 17:10 - 17:20 | 0 | 0 | 8 | 0 | 17:10 - 17:20 | 3 | 28 | 29 | 1 |
| 17:20 - 17:30 | 1 | 0 | 4 | 0 | 17:20 - 17:30 | 2 | 33 | 57 | 4 |
| 17:30 - 17:40 | 0 | 1 | 10 | 0 | 17:30 - 17:40 | 1 | 39 | 49 | 2 |
| 17:40 - 17:50 | 1 | 1 | 9 | 0 | 17:40 - 17:50 | 4 | 36 | 39 | 2 |
| 17:50 - 18:00 | 0 | 1 | 3 | 0 | 17:50 - 18:00 | 1 | 35 | 30 | 1 |
| 18:00 - 18:10 | 1 | 0 | 4 | 0 | 18:00 - 18:10 | 5 | 37 | 27 | 1 |
| 18:10 - 18:20 | 2 | 0 | 7 | 0 | 18:10 - 18:20 | 3 | 44 | 42 | 10 |
| 18:20 - 18:30 | 0 | 0 | 5 | 0 | 18:20 - 18:30 | 1 | 25 | 43 | 5 |



DATE 22-11-17
LOCATION IS11
STATION A

GEOCONSULT

| DIRECTION 2 | | | | | DIRECTION 1 | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
| 6:30 - 6:40 | 1 | 17 | 9 | 4 | 6:30 - 6:40 | 2 | 8 | 12 | 4 |
| 6:40 - 6:50 | 3 | 24 | 10 | 7 | 6:40 - 6:50 | 8 | 10 | 15 | 8 |
| 6:50 -7:00 | 3 | 15 | 1 | 8 | 6:50 -7:00 | 5 | 10 | 5 | 15 |
| 7:00 - 7:10 | 4 | 15 | 4 | 2 | 7:00 - 7:10 | 0 | 5 | 0 | 30 |
| 7:10 - 7:20 | 2 | 15 | 2 | 0 | 7:10 - 7:20 | 1 | 0 | 25 | 10 |
| 7:20 - 7:30 | 2 | 15 | 1 | 3 | 7:20 - 7:30 | 1 | 21 | 10 | 13 |
| 7:30 - 7:40 | 2 | 20 | 10 | 5 | 7:30 - 7:40 | 0 | 20 | 9 | 15 |
| 7:40 - 7:50 | 6 | 11 | 4 | 7 | 7:40 - 7:50 | 0 | 10 | 9 | 8 |
| 7:50 - 8:00 | 1 | 11 | 7 | 0 | 7:50 - 8:00 | 0 | 21 | 11 | 16 |
| 8:00 - 8:10 | 0 | 15 | 0 | 6 | 8:00 - 8:10 | 0 | 14 | 6 | 22 |
| 8:10 - 8:20 | 2 | 13 | 3 | 3 | 8:10 - 8:20 | 0 | 14 | 7 | 20 |
| 8:20 - 8:30 | 1 | 6 | 0 | 5 | 8:20 - 8:30 | 2 | 16 | 7 | 29 |
| 8:30 - 8:40 | 1 | 13 | 3 | 3 | 8:30 - 8:40 | 1 | 15 | 5 | 35 |
| 8:40 - 8:50 | 1 | 5 | 1 | 5 | 8:40 - 8:50 | 0 | 27 | 5 | 38 |
| 8:50 - 9:00 | 1 | 21 | 1 | 9 | 8:50 - 9:00 | 3 | 8 | 0 | 27 |
| 9:00 - 9:10 | 0 | 4 | 1 | 7 | 9:00 - 9:10 | 1 | 10 | 2 | 24 |
| 9:10 - 9:20 | 6 | 9 | 0 | 3 | 9:10 - 9:20 | 2 | 16 | 6 | 36 |
| 9:20 - 9:30 | 0 | 4 | 1 | 7 | 9:20 - 9:30 | 0 | 11 | 2 | 25 |
| 9:30 - 9:40 | 5 | 7 | 5 | 3 | 9:30 - 9:40 | 0 | 8 | 3 | 15 |
| | | | | | | | | | |
| 15:30 - 15:40 | 0 | 13 | 5 | 20 | 15:30 - 15:40 | 0 | 5 | 0 | 52 |
| 15:40 - 15:50 | 2 | 20 | 0 | 12 | 15:40 - 15:50 | 0 | 31 | 1 | 55 |
| 15:50 - 16:00 | 0 | 10 | 5 | 6 | 15:50 - 16:00 | 0 | 36 | 5 | 80 |
| 16:00 - 16:10 | 1 | 3 | 2 | 10 | 16:00 - 16:10 | 2 | 20 | 11 | 70 |
| 16:10 - 16:20 | 2 | 3 | 2 | 5 | 16:10 - 16:20 | 1 | 18 | 6 | 72 |
| 16:20 - 16:30 | 0 | 2 | 0 | 3 | 16:20 - 16:30 | 0 | 17 | 7 | 85 |
| 16:30 - 16:40 | 1 | 3 | 7 | 11 | 16:30 - 16:40 | 3 | 21 | 5 | 45 |
| 16:40 - 16:50 | 0 | 5 | 1 | 18 | 16:40 - 16:50 | 1 | 23 | 3 | 65 |
| 16:50 - 17:00 | 2 | 3 | 2 | 11 | 16:50 - 17:00 | 1 | 22 | 7 | 50 |
| 17:00 - 17:10 | 3 | 5 | 2 | 12 | 17:00 - 17:10 | 6 | 17 | 7 | 65 |
| 17:10 - 17:20 | 1 | 5 | 1 | 10 | 17:10 - 17:20 | 0 | 10 | 7 | 35 |
| 17:20 - 17:30 | 1 | 15 | 2 | 25 | 17:20 - 17:30 | 5 | 25 | 15 | 50 |
| 17:30 - 17:40 | 0 | 6 | 5 | 17 | 17:30 - 17:40 | 0 | 15 | 8 | 65 |
| 17:40 - 17:50 | 0 | 3 | 0 | 17 | 17:40 - 17:50 | 3 | 10 | 6 | 70 |
| 17:50 - 18:00 | 0 | 7 | 2 | 15 | 17:50 - 18:00 | 0 | 25 | 6 | 80 |
| 18:00 - 18:10 | 1 | 6 | 5 | 5 | 18:00 - 18:10 | 2 | 18 | 3 | 60 |
| 18:10 - 18:20 | 1 | 0 | 2 | 3 | 18:10 - 18:20 | 1 | 50 | 20 | 50 |
| 18:20 - 18:30 | 0 | 0 | 0 | 2 | 18:20 - 18:30 | 2 | 15 | 5 | 85 |

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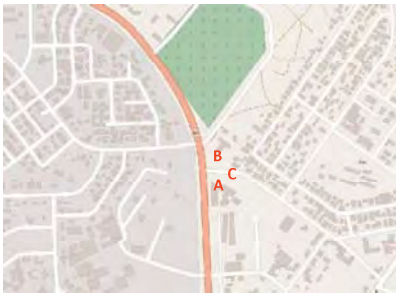
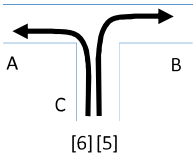
DATE 19/01/2018
LOCATION IS10-2
STATION C

GEOCONSULT

| DIRECTION 5 | | | | | DIRECTION 6 | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
| 6:40 - 6:50 | 0 | 1 | 32 | 0 | 6:40 - 6:50 | 2 | 1 | 6 | 0 |
| 6:50 -7:00 | 0 | 0 | 31 | 0 | 6:50 - 7:00 | 1 | 1 | 5 | 0 |
| 7:00 - 7:10 | 0 | 0 | 50 | 0 | 7:00 - 7:10 | 3 | 0 | 4 | 0 |
| 7:10 - 7:20 | 1 | 3 | 45 | 2 | 7:10 - 7:20 | 4 | 0 | 5 | 1 |
| 7:20 - 7:30 | 1 | 6 | 60 | 2 | 7:20 - 7:30 | 1 | 1 | 11 | 0 |
| 7:30 - 7:40 | 1 | 1 | 53 | 1 | 7:30 - 7:40 | 1 | 0 | 8 | 1 |
| 7:40 - 7:50 | 3 | 2 | 37 | 1 | 7:40 - 7:50 | 1 | 0 | 6 | 0 |
| 7:50 - 8:00 | 3 | 4 | 40 | 2 | 7:50 - 8:00 | 0 | 0 | 12 | 1 |
| 8:00 - 8:10 | 2 | 1 | 37 | 0 | 8:00 - 8:10 | 0 | 0 | 9 | 1 |
| 8:10 - 8:20 | 0 | 2 | 21 | 0 | 8:10 - 8:20 | 0 | 0 | 4 | 1 |
| 8:20 - 8:30 | 1 | 4 | 20 | 0 | 8:20 - 8:30 | 0 | 0 | 5 | 1 |
| 8:30 - 8:40 | 0 | 1 | 20 | 0 | 8:30 - 8:40 | 1 | 1 | 5 | 0 |
| 8:40 - 8:50 | 0 | 1 | 20 | 0 | 8:40 - 8:50 | 1 | 1 | 7 | 0 |
| 8:50 - 9:00 | 0 | 1 | 19 | 0 | 8:50 - 9:00 | 0 | 0 | 11 | 0 |
| 9:00 - 9:10 | 1 | 2 | 18 | 0 | 9:00 - 9:10 | 0 | 9 | 3 | 1 |
| 9:10 - 9:20 | 1 | 1 | 15 | 0 | 9:10 - 9:20 | 0 | 0 | 7 | 1 |
| 9:20 - 9:30 | 1 | 0 | 12 | 0 | 9:20 - 9:30 | 0 | 0 | 6 | 0 |
| 9:30 - 9:40 | 1 | 3 | 13 | 0 | 9:30 - 9:40 | 0 | 2 | 5 | 0 |
| | | | | | | | | | |
| 15:30 - 15:40 | 1 | 0 | 16 | 0 | 15:30 - 15:40 | 0 | 0 | 6 | 1 |
| 15:40 - 15:50 | 0 | 0 | 19 | 0 | 15:40 - 15:50 | 0 | 0 | 16 | 1 |
| 15:50 - 16:00 | 0 | 2 | 16 | 0 | 15:50 - 16:00 | 1 | 1 | 12 | 0 |
| 16:00 - 16:10 | 1 | 0 | 14 | 1 | 16:00 - 16:10 | 2 | 0 | 13 | 1 |
| 16:10 - 16:20 | 1 | 1 | 22 | 0 | 16:10 - 16:20 | 0 | 0 | 5 | 1 |
| 16:20 - 16:30 | 0 | 1 | 12 | 1 | 16:20 - 16:30 | 1 | 0 | 12 | 1 |
| 16:30 - 16:40 | 0 | 0 | 15 | 0 | 16:30 - 16:40 | 0 | 0 | 6 | 0 |
| 16:40 - 16:50 | 1 | 3 | 15 | 0 | 16:40 - 16:50 | 2 | 0 | 14 | 1 |
| 16:50 - 17:00 | 4 | 1 | 18 | 1 | 16:50 - 17:00 | 1 | 1 | 6 | 0 |
| 17:00 - 17:10 | 0 | 2 | 20 | 1 | 17:00 - 17:10 | 0 | 0 | 7 | 1 |
| 17:10 - 17:20 | 0 | 2 | 12 | 0 | 17:10 - 17:20 | 0 | 1 | 10 | 0 |
| 17:20 - 17:30 | 1 | 4 | 21 | 0 | 17:20 - 17:30 | 0 | 0 | 8 | 0 |
| 17:30 - 17:40 | 2 | 6 | 17 | 1 | 17:30 - 17:40 | 0 | 0 | 8 | 1 |
| 17:40 - 17:50 | 0 | 6 | 22 | 0 | 17:40 - 17:50 | 2 | 0 | 12 | 0 |
| 17:50 - 18:00 | 3 | 5 | 30 | 1 | 17:50 - 18:00 | 0 | 0 | 12 | 0 |
| 18:00 - 18:10 | 1 | 7 | 15 | 0 | 18:00 - 18:10 | 1 | 0 | 10 | 1 |
| 18:10 - 18:20 | 2 | 10 | 20 | 0 | 18:10 - 18:20 | 3 | 2 | 10 | 1 |
| 18:20 - 18:30 | 2 | 3 | 27 | 0 | 18:20 - 18:30 | 2 | 1 | 9 | 1 |



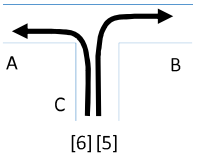




49

DATE 22-11-17
LOCATION IS11
STATION C

GEOCONSULT

| DIRECTION 5 | | | | | DIRECTION 6 | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
| 6:30 - 6:40 | 1 | 4 | 12 | 0 | 6:30 - 6:40 | 0 | 12 | 15 | 0 |
| 6:40 - 6:50 | 5 | 7 | 16 | 1 | 6:40 - 6:50 | 2 | 14 | 32 | 0 |
| 6:50 -7:00 | 0 | 6 | 12 | 0 | 6:50 - 7:00 | 0 | 22 | 24 | 0 |
| 7:00 - 7:10 | 3 | 31 | 33 | 0 | 7:00 - 7:10 | 2 | 44 | 12 | 1 |
| 7:10 - 7:20 | 1 | 17 | 0 | 0 | 7:10 - 7:20 | 1 | 42 | 30 | 1 |
| 7:20 - 7:30 | 1 | 7 | 16 | 0 | 7:20 - 7:30 | 1 | 23 | 13 | 0 |
| 7:30 - 7:40 | 1 | 3 | 13 | 4 | 7:30 - 7:40 | 2 | 31 | 36 | 1 |
| 7:40 - 7:50 | 3 | 7 | 23 | 0 | 7:40 - 7:50 | 2 | 37 | 3 | 0 |
| 7:50 - 8:00 | 2 | 1 | 18 | 1 | 7:50 - 8:00 | 2 | 41 | 39 | 0 |
| 8:00 - 8:10 | 2 | 7 | 17 | 0 | 8:00 - 8:10 | 0 | 17 | 19 | 0 |
| 8:10 - 8:20 | 1 | 2 | 14 | 0 | 8:10 - 8:20 | 2 | 21 | 19 | 0 |
| 8:20 - 8:30 | 1 | 1 | 12 | 1 | 8:20 - 8:30 | 1 | 19 | 11 | 0 |
| 8:30 - 8:40 | 0 | 2 | 16 | 1 | 8:30 - 8:40 | 2 | 21 | 16 | 0 |
| 8:40 - 8:50 | 1 | 3 | 14 | 0 | 8:40 - 8:50 | 0 | 15 | 21 | 0 |
| 8:50 - 9:00 | 1 | 2 | 14 | 1 | 8:50 - 9:00 | 1 | 13 | 12 | 0 |
| 9:00 - 9:10 | 0 | 1 | 11 | 0 | 9:00 - 9:10 | 0 | 16 | 18 | 1 |
| 9:10 - 9:20 | 0 | 0 | 7 | 2 | 9:10 - 9:20 | 2 | 12 | 13 | 0 |
| 9:20 - 9:30 | 1 | 4 | 7 | 1 | 9:20 - 9:30 | 1 | 12 | 9 | 0 |
| 9:30 - 9:40 | 3 | 1 | 11 | 0 | 9:30 - 9:40 | 3 | 14 | 21 | 0 |
| 9:40 - 9:50 | 0 | 1 | 12 | 1 | 9:40 - 9:50 | 2 | 11 | 16 | 0 |
| 9:50 - 10:00 | 2 | 0 | 6 | 1 | 9:50 - 10:00 | 2 | 18 | 23 | 1 |
| | | | | | | | | | |
| 15:30 - 15:40 | 0 | 4 | 11 | 2 | 15:30 - 15:40 | 1 | 19 | 18 | 0 |
| 15:40 - 15:50 | 0 | 1 | 27 | 1 | 15:40 - 15:50 | 1 | 10 | 14 | 0 |
| 15:50 - 16:00 | 2 | 2 | 19 | 0 | 15:50 - 16:00 | 1 | 4 | 19 | 0 |
| 16:00 - 16:10 | 1 | 0 | 17 | 0 | 16:00 - 16:10 | 0 | 9 | 12 | 1 |
| 16:10 - 16:20 | 3 | 2 | 21 | 0 | 16:10 - 16:20 | 2 | 6 | 12 | 0 |
| 16:20 - 16:30 | 1 | 1 | 29 | 3 | 16:20 - 16:30 | 1 | 8 | 8 | 1 |
| 16:30 - 16:40 | 2 | 6 | 19 | 0 | 16:30 - 16:40 | 1 | 12 | 14 | 0 |
| 16:40 - 16:50 | 3 | 3 | 30 | 0 | 16:40 - 16:50 | 3 | 5 | 14 | 0 |
| 16:50 - 17:00 | 6 | 3 | 39 | 0 | 16:50 - 17:00 | 1 | 7 | 11 | 0 |
| 17:00 - 17:10 | 3 | 4 | 31 | 1 | 17:00 - 17:10 | 1 | 10 | 13 | 0 |
| 17:10 - 17:20 | 0 | 1 | 34 | 4 | 17:10 - 17:20 | 1 | 9 | 5 | 0 |
| 17:20 - 17:30 | 2 | 3 | 41 | 1 | 17:20 - 17:30 | 5 | 7 | 9 | 0 |
| 17:30 - 17:40 | 0 | 5 | 37 | 2 | 17:30 - 17:40 | 1 | 8 | 12 | 0 |
| 17:40 - 17:50 | 1 | 4 | 39 | 1 | 17:40 - 17:50 | 1 | 7 | 12 | 0 |
| 17:50 - 18:00 | 1 | 2 | 36 | 1 | 17:50 - 18:00 | 4 | 8 | 9 | 0 |
| 18:00 - 18:10 | 4 | 3 | 29 | 2 | 18:00 - 18:10 | 2 | 9 | 16 | 0 |
| 18:10 - 18:20 | 0 | 6 | 17 | 1 | 18:10 - 18:20 | 0 | 13 | 19 | 1 |
| 18:20 - 18:30 | 0 | 4 | 8 | 0 | 18:20 - 18:30 | 0 | 7 | 11 | 4 |

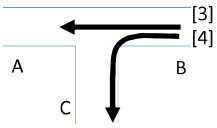





DATE 22-11-17
LOCATION IS11
STATION B

GEOCONSULT

| DIRECTION 4 | | | | | DIRECTION 3 | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE | TIME | MOTOTBIKE / TUK TUK | MINIBUS | LIGHT VEHICLE | HEAVY VEHICLE |
| 6:30 - 6:40 | 0 | 1 | 41 | 0 | 6:30 - 6:40 | 2 | 29 | 72 | 0 |
| 6:40 - 6:50 | 0 | 2 | 55 | 0 | 6:40 - 6:50 | 7 | 31 | 83 | 1 |
| 6:50 -7:00 | 0 | 2 | 37 | 2 | 6:50 -7:00 | 1 | 57 | 95 | 0 |
| 7:00 - 7:10 | 5 | 0 | 40 | 0 | 7:00 - 7:10 | 7 | 29 | 81 | 0 |
| 7:10 - 7:20 | 1 | 2 | 28 | 0 | 7:10 - 7:20 | 8 | 27 | 66 | 1 |
| 7:20 - 7:30 | 3 | 3 | 45 | 0 | 7:20 - 7:30 | 1 | 38 | 10 | 0 |
| 7:30 - 7:40 | 5 | 0 | 25 | 0 | 7:30 - 7:40 | 11 | 0 | 71 | 0 |
| 7:40 - 7:50 | 4 | 0 | 51 | 0 | 7:40 - 7:50 | 1 | 36 | 90 | 2 |
| 7:50 - 8:00 | 3 | 0 | 31 | 0 | 7:50 - 8:00 | 4 | 33 | 72 | 1 |
| 8:00 - 8:10 | 0 | 1 | 36 | 1 | 8:00 - 8:10 | 5 | 42 | 60 | 0 |
| 8:10 - 8:20 | 1 | 0 | 34 | 0 | 8:10 - 8:20 | 6 | 35 | 57 | 0 |
| 8:20 - 8:30 | 1 | 0 | 38 | 0 | 8:20 - 8:30 | 3 | 26 | 76 | 0 |
| 8:30 - 8:40 | 0 | 3 | 22 | 0 | 8:30 - 8:40 | 3 | 15 | 42 | 0 |
| 8:40 - 8:50 | 0 | 1 | 46 | 6 | 8:40 - 8:50 | 3 | 23 | 52 | 2 |
| 8:50 - 9:00 | 0 | 2 | 30 | 1 | 8:50 - 9:00 | 0 | 20 | 62 | 0 |
| 9:00 - 9:10 | 0 | 3 | 13 | 0 | 9:00 - 9:10 | 3 | 24 | 48 | 1 |
| 9:10 - 9:20 | 0 | 7 | 25 | 1 | 9:10 - 9:20 | 7 | 26 | 54 | 2 |
| 9:20 - 9:30 | 0 | 1 | 11 | 0 | 9:20 - 9:30 | 0 | 19 | 42 | 0 |
| 9:30 - 9:40 | 0 | 2 | 22 | 1 | 9:30 - 9:40 | 4 | 24 | 63 | 0 |
| | | | | | | | | | |
| 15:30 - 15:40 | 3 | 2 | 30 | 0 | 15:30 - 15:40 | 4 | 12 | 57 | 1 |
| 15:40 - 15:50 | 2 | 6 | 18 | 0 | 15:40 - 15:50 | 0 | 21 | 58 | 0 |
| 15:50 - 16:00 | 2 | 3 | 13 | 1 | 15:50 - 16:00 | 5 | 11 | 28 | 4 |
| 16:00 - 16:10 | 1 | 2 | 25 | 0 | 16:00 - 16:10 | 0 | 12 | 70 | 2 |
| 16:10 - 16:20 | 3 | 2 | 32 | 2 | 16:10 - 16:20 | 3 | 23 | 38 | 0 |
| 16:20 - 16:30 | 1 | 5 | 32 | 0 | 16:20 - 16:30 | 3 | 21 | 35 | 0 |
| 16:30 - 16:40 | 1 | 15 | 40 | 0 | 16:30 - 16:40 | 1 | 25 | 44 | 0 |
| 16:40 - 16:50 | 1 | 15 | 27 | 1 | 16:40 - 16:50 | 4 | 22 | 45 | 0 |
| 16:50 - 17:00 | 1 | 6 | 36 | 0 | 16:50 - 17:00 | 3 | 22 | 45 | 0 |
| 17:00 - 17:10 | 5 | 6 | 42 | 0 | 17:00 - 17:10 | 5 | 23 | 58 | 1 |
| 17:10 - 17:20 | 2 | 5 | 33 | 0 | 17:10 - 17:20 | 2 | 23 | 45 | 1 |
| 17:20 - 17:30 | 8 | 4 | 43 | 0 | 17:20 - 17:30 | 4 | 30 | 50 | 0 |
| 17:30 - 17:40 | 0 | 1 | 32 | 1 | 17:30 - 17:40 | 1 | 15 | 45 | 4 |
| 17:40 - 17:50 | 0 | 0 | 30 | 0 | 17:40 - 17:50 | 3 | 25 | 40 | 0 |
| 17:50 - 18:00 | 3 | 22 | 41 | 0 | 17:50 - 18:00 | 2 | 23 | 47 | 2 |
| 18:00 - 18:10 | 0 | 2 | 52 | 0 | 18:00 - 18:10 | 0 | 29 | 49 | 5 |
| 18:10 - 18:20 | 2 | 10 | 55 | 0 | 18:10 - 18:20 | 1 | 25 | 56 | 0 |
| 18:20 - 18:30 | 0 | 2 | 50 | 1 | 18:20 - 18:30 | 4 | 30 | 50 | 1 |



# TRAFFIC COUNT

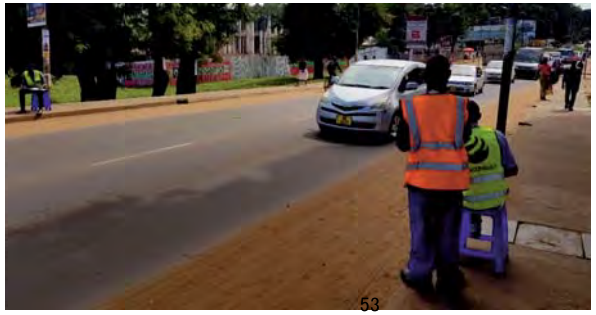
## SC 01 – SC 12

16/11/2017 16-21/11/2017 23/11/2017 1/2/2018

Survey was conducted to evaluate the type of vehicle passing a set point and the direction of travel. Surveys were conducted for 12 hours, 7am – 7pm. At the bridge (SC02) the survey was conducted for 6 continuous days, and two 24hour days, one being in the wet season 1-2/02/2018.

Type of vehicles surveyed were:

| | | |
|---|---|---|
| **Motorbike** | **Light Truck** | **Passenger** |
| **TukTuk** | **Medium Heavy Truck** | **Bus** |
| **Minibus** | **Heavy Truck and Trailer** | |



*Traffic Count at SC02*



DIRECTIONAL TRAFFIC COUNT

DATE 16/11/2017
LOCATION SC01
DIRECTION **BLANTYRE BYPASS**

| TIME | MOTOBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 7:00 - 7:10 | 1 | 0 | 7 | 2 | 1 | 0 | 1 | 0 |
| 7:10 - 7:20 | 1 | 0 | 14 | 1 | 1 | 1 | 0 | 0 |
| 7:20 - 7:30 | 1 | 0 | 14 | 3 | 0 | 0 | 1 | 1 |
| 7:30 - 7:40 | 2 | 0 | 10 | 4 | 1 | 0 | 1 | 1 |
| 7:40 - 7:50 | 0 | 0 | 21 | 0 | 1 | 1 | 2 | 0 |
| 7:50 - 8:00 | 2 | 0 | 17 | 3 | 2 | 0 | 2 | 0 |
| 8:00 - 8:10 | 3 | 1 | 17 | 0 | 0 | 0 | 1 | 0 |
| 8:10 - 8:20 | 0 | 0 | 14 | 1 | 1 | 0 | 1 | 0 |
| 8:20 - 8:30 | 0 | 0 | 20 | 0 | 0 | 0 | 1 | 0 |
| 8:30 - 8:40 | 1 | 0 | 19 | 1 | 1 | 0 | 3 | 0 |
| 8:40 - 8:50 | 0 | 0 | 19 | 1 | 3 | 0 | 2 | 1 |
| 8:50 - 9:00 | 1 | 0 | 12 | 1 | 1 | 0 | 2 | 2 |
| 9:00 - 9:10 | 3 | 0 | 13 | 0 | 0 | 0 | 3 | 0 |
| 9:10 - 9:20 | 0 | 0 | 10 | 0 | 3 | 0 | 2 | 0 |
| 9:20 - 9:30 | 2 | 0 | 7 | 3 | 0 | 1 | 0 | 0 |
| 9:30 - 9:40 | 1 | 0 | 6 | 0 | 4 | 0 | 1 | 0 |
| 9:40 - 9:50 | 0 | 0 | 13 | 1 | 0 | 0 | 0 | 0 |
| 9:50 - 10:00 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| 10:00 - 10:10 | 1 | 0 | 11 | 0 | 1 | 0 | 1 | 1 |
| 10:10 - 10:20 | 1 | 0 | 14 | 1 | 1 | 0 | 2 | 0 |
| 10:20 - 10:30 | 1 | 0 | 18 | 0 | 0 | 0 | 2 | 0 |
| 10:30 - 10:40 | 2 | 0 | 19 | 0 | 1 | 0 | 1 | 1 |
| 10:40 - 10:50 | 0 | 0 | 12 | 1 | 2 | 0 | 0 | 0 |
| 10:50 - 11:00 | 0 | 0 | 12 | 1 | 0 | 0 | 3 | 1 |
| 11:00 - 11:10 | 2 | 0 | 12 | 1 | 1 | 1 | 5 | 0 |
| 11:10 - 11:20 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 |
| 11:20 - 11:30 | 0 | 0 | 13 | 0 | 2 | 0 | 3 | 0 |
| 11:30 - 11:40 | 0 | 0 | 20 | 1 | 2 | 0 | 1 | 2 |
| 11:40 - 11:50 | 1 | 0 | 12 | 0 | 0 | 0 | 0 | 1 |
| 11:50 - 12:00 | 0 | 0 | 13 | 1 | 3 | 0 | 1 | 2 |
| 12:00 - 12:10 | 0 | 0 | 13 | 0 | 2 | 1 | 2 | 0 |
| 12:10 - 11:20 | 1 | 0 | 10 | 0 | 1 | 0 | 2 | 0 |
| 12:20 - 12:30 | 0 | 0 | 7 | 0 | 1 | 0 | 1 | 0 |
| 12:30 - 12:40 | 0 | 0 | 17 | 0 | 1 | 0 | 2 | 0 |
| 12:40 - 12:50 | 0 | 0 | 11 | 1 | 0 | 0 | 2 | 2 |
| 12:50 - 13:00 | 0 | 0 | 7 | 0 | 1 | 1 | 1 | 1 |
| 13:00 - 13:10 | 1 | 0 | 27 | 3 | 2 | 1 | 3 | 0 |
| 13:10 - 13:20 | 0 | 0 | 9 | 1 | 2 | 0 | 4 | 1 |
| 13:20 - 13:30 | 1 | 0 | 11 | 0 | 3 | 0 | 2 | 0 |
| 13:30 - 13:40 | 0 | 0 | 26 | 0 | 3 | 0 | 1 | 1 |
| 13:40 - 13:50 | 0 | 0 | 28 | 1 | 5 | 0 | 3 | 0 |
| 13:50 - 14:00 | 0 | 0 | 12 | 0 | 1 | 0 | 0 | 1 |
| 14:00 - 14:10 | 1 | 0 | 17 | 5 | 2 | 1 | 2 | 1 |
| 14:10 - 14:20 | 0 | 0 | 16 | 1 | 3 | 0 | 5 | 1 |
| 14:20 - 14:30 | 1 | 0 | 12 | 2 | 1 | 1 | 2 | 1 |
| 14:30 - 14:40 | 0 | 0 | 7 | 1 | 0 | 1 | 3 | 1 |
| 14:40 - 14:50 | 0 | 0 | 22 | 0 | 1 | 0 | 2 | 2 |
| 14:50 - 15:00 | 0 | 0 | 11 | 2 | 0 | 0 | 2 | 1 |
| 15:00 - 15:10 | 1 | 0 | 26 | 0 | 3 | 0 | 4 | 0 |
| 15:10 - 15:20 | 0 | 0 | 12 | 1 | 0 | 0 | 0 | 2 |
| 15:20 - 15:30 | 1 | 0 | 13 | 0 | 0 | 0 | 3 | 1 |
| 15:30 - 15:40 | 0 | 0 | 15 | 1 | 4 | 0 | 1 | 0 |
| 15:40 - 15:50 | 0 | 0 | 18 | 0 | 1 | 1 | 4 | 0 |
| 15:50 - 16:00 | 0 | 0 | 23 | 2 | 2 | 0 | 2 | 3 |
| 16:00 - 16:10 | 2 | 0 | 19 | 0 | 1 | 3 | 0 | 0 |
| 16:10 - 16:20 | 3 | 0 | 18 | 0 | 2 | 0 | 1 | 0 |
| 16:20 - 16:30 | 1 | 0 | 21 | 1 | 0 | 0 | 1 | 3 |
| 16:30 - 16:40 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 1 |
| 16:40 - 16:50 | 2 | 0 | 19 | 1 | 1 | 1 | 2 | 0 |
| 16:50 - 17:00 | 4 | 0 | 23 | 0 | 0 | 0 | 3 | 0 |
| 17:00 - 17:10 | 1 | 0 | 37 | 3 | 4 | 0 | 2 | 0 |
| 17:10 - 17:20 | 1 | 0 | 20 | 0 | 0 | 0 | 0 | 0 |
| 17:20 - 17:30 | 0 | 0 | 21 | 2 | 4 | 0 | 4 | 0 |
| 17:30 - 17:40 | 0 | 0 | 27 | 2 | 6 | 1 | 3 | 1 |
| 17:40 - 17:50 | 1 | 0 | 39 | 2 | 2 | 1 | 3 | 2 |
| 17:50 - 18:00 | 0 | 0 | 29 | 2 | 4 | 0 | 2 | 1 |
| 18:00 - 18:10 | 1 | 0 | 22 | 1 | 2 | 0 | 0 | 1 |
| 18:10 - 18:20 | 0 | 0 | 16 | 2 | 2 | 0 | 0 | 1 |
| 18:20 - 18:30 | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 0 |
| 18:30 - 18:40 | 2 | 0 | 16 | 0 | 2 | 0 | 0 | 1 |
| 18:40 - 18:50 | 1 | 0 | 6 | 2 | 1 | 0 | 0 | 0 |
| 18:50 - 19:00 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 |

## DIRECTIONAL TRAFFIC COUNT

DATE 16/11/2017
LOCATION SC01
DIRECTION **MCHINJI**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 7:00 - 7:10 | 0 | 0 | 28 | 2 | 0 | 0 | 0 | 0 |
| 7:10 - 7:20 | 2 | 0 | 24 | 3 | 0 | 0 | 2 | 2 |
| 7:20 - 7:30 | 2 | 0 | 15 | 1 | 0 | 0 | 0 | 0 |
| 7:30 - 7:40 | 2 | 0 | 19 | 1 | 0 | 0 | 2 | 0 |
| 7:40 - 7:50 | 1 | 0 | 17 | 2 | 3 | 0 | 3 | 0 |
| 7:50 - 8:00 | 3 | 0 | 13 | 1 | 1 | 0 | 0 | 1 |
| 8:00 - 8:10 | 1 | 0 | 14 | 1 | 2 | 0 | 4 | 0 |
| 8:10 - 8:20 | 3 | 1 | 6 | 1 | 1 | 1 | 5 | 0 |
| 8:20 - 8:30 | 0 | 0 | 14 | 2 | 0 | 0 | 2 | 1 |
| 8:30 - 8:40 | 0 | 0 | 14 | 0 | 1 | 0 | 1 | 2 |
| 8:40 - 8:50 | 3 | 0 | 5 | 1 | 2 | 0 | 0 | 0 |
| 8:50 - 9:00 | 0 | 0 | 19 | 0 | 4 | 0 | 1 | 0 |
| 9:00 - 9:10 | 0 | 0 | 10 | 1 | 2 | 0 | 0 | 0 |
| 9:10 - 9:20 | 0 | 0 | 5 | 2 | 0 | 0 | 0 | 1 |
| 9:20 - 9:30 | 0 | 0 | 19 | 0 | 1 | 0 | 4 | 0 |
| 9:30 - 9:40 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 |
| 9:40 - 9:50 | 0 | 0 | 11 | 1 | 0 | 0 | 1 | 0 |
| 9:50 - 10:00 | 0 | 0 | 2 | 1 | 2 | 0 | 1 | 0 |
| 10:00 - 10:10 | 3 | 0 | 12 | 0 | 1 | 1 | 6 | 1 |
| 10:10 - 10:20 | 1 | 0 | 5 | 1 | 1 | 0 | 2 | 1 |
| 10:20 - 10:30 | 0 | 0 | 9 | 1 | 1 | 0 | 2 | 0 |
| 10:30 - 10:40 | 1 | 0 | 15 | 0 | 3 | 0 | 1 | 0 |
| 10:40 - 10:50 | 0 | 0 | 9 | 1 | 0 | 0 | 2 | 0 |
| 10:50 - 11:00 | 1 | 0 | 8 | 0 | 1 | 2 | 11 | 1 |
| 11:00 - 11:10 | 0 | 0 | 8 | 0 | 1 | 0 | 3 | 0 |
| 11:10 - 11:20 | 0 | 0 | 13 | 2 | 0 | 0 | 0 | 0 |
| 11:20 - 11:30 | 0 | 0 | 19 | 0 | 1 | 0 | 4 | 0 |
| 11:30 - 11:40 | 1 | 0 | 10 | 0 | 3 | 1 | 3 | 1 |
| 11:40 - 11:50 | 2 | 0 | 12 | 2 | 0 | 0 | 0 | 0 |
| 11:50 - 12:00 | 1 | 0 | 16 | 0 | 2 | 0 | 0 | 1 |
| 12:00 - 12:10 | 1 | 0 | 8 | 1 | 1 | 0 | 3 | 1 |
| 12:10 - 11:20 | 0 | 0 | 8 | 0 | 0 | 2 | 4 | 0 |
| 12:20 - 12:30 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 |
| 12:30 - 12:40 | 0 | 1 | 20 | 3 | 0 | 0 | 4 | 1 |
| 12:40 - 12:50 | 1 | 0 | 14 | 1 | 2 | 0 | 0 | 0 |
| 12:50 - 13:00 | 1 | 0 | 3 | 0 | 1 | 0 | 0 | 0 |
| 13:00 - 13:10 | 0 | 0 | 6 | 0 | 1 | 0 | 0 | 0 |
| 13:10 - 13:20 | 1 | 0 | 15 | 0 | 3 | 0 | 2 | 0 |
| 13:20 - 13:30 | 2 | 0 | 11 | 0 | 0 | 0 | 1 | 2 |
| 13:30 - 13:40 | 0 | 0 | 14 | 0 | 1 | 0 | 0 | 1 |
| 13:40 - 13:50 | 1 | 0 | 10 | 1 | 0 | 0 | 0 | 0 |
| 13:50 - 14:00 | 1 | 0 | 16 | 1 | 1 | 0 | 0 | 1 |
| 14:00 - 14:10 | 1 | 0 | 6 | 0 | 1 | 0 | 1 | 1 |
| 14:10 - 14:20 | 0 | 0 | 26 | 0 | 0 | 0 | 6 | 0 |
| 14:20 - 14:30 | 0 | 0 | 7 | 0 | 2 | 0 | 3 | 0 |
| 14:30 - 14:40 | 0 | 0 | 20 | 2 | 1 | 0 | 3 | 0 |
| 14:40 - 14:50 | 1 | 2 | 6 | 0 | 0 | 0 | 2 | 0 |
| 14:50 - 15:00 | 1 | 0 | 21 | 0 | 1 | 0 | 1 | 0 |
| 15:00 - 15:10 | 1 | 0 | 15 | 1 | 1 | 0 | 3 | 0 |
| 15:10 - 15:20 | 0 | 0 | 19 | 0 | 4 | 0 | 2 | 0 |
| 15:20 - 15:30 | 1 | 0 | 17 | 1 | 0 | 0 | 2 | 1 |
| 15:30 - 15:40 | 0 | 0 | 10 | 0 | 1 | 0 | 1 | 0 |
| 15:40 - 15:50 | 0 | 0 | 15 | 0 | 0 | 0 | 2 | 0 |
| 15:50 - 16:00 | 0 | 0 | 14 | 1 | 1 | 0 | 2 | 0 |
| 16:00 - 16:10 | 0 | 0 | 12 | 0 | 1 | 0 | 1 | 0 |
| 16:10 - 16:20 | 0 | 0 | 11 | 0 | 2 | 0 | 1 | 1 |
| 16:20 - 16:30 | 0 | 0 | 7 | 0 | 3 | 0 | 1 | 0 |
| 16:30 - 16:40 | 0 | 0 | 14 | 0 | 2 | 0 | 4 | 1 |
| 16:40 - 16:50 | 0 | 0 | 12 | 1 | 3 | 0 | 3 | 0 |
| 16:50 - 17:00 | 3 | 0 | 16 | 0 | 1 | 0 | 0 | 0 |
| 17:00 - 17:10 | 2 | 1 | 24 | 2 | 3 | 0 | 4 | 2 |
| 17:10 - 17:20 | 0 | 0 | 13 | 0 | 0 | 1 | 0 | 0 |
| 17:20 - 17:30 | 0 | 0 | 14 | 2 | 0 | 1 | 4 | 0 |
| 17:30 - 17:40 | 0 | 1 | 20 | 1 | 0 | 0 | 2 | 1 |
| 17:40 - 17:50 | 0 | 0 | 15 | 2 | 0 | 0 | 1 | 0 |
| 17:50 - 18:00 | 1 | 0 | 20 | 3 | 0 | 0 | 2 | 0 |
| 18:00 - 18:10 | 1 | 0 | 17 | 1 | 0 | 0 | 0 | 0 |
| 18:10 - 18:20 | 0 | 0 | 19 | 3 | 1 | 0 | 3 | 1 |
| 18:20 - 18:30 | 0 | 0 | 9 | 1 | 1 | 0 | 1 | 0 |
| 18:30 - 18:40 | 2 | 0 | 7 | 2 | 2 | 0 | 0 | 1 |
| 18:40 - 18:50 | 1 | 0 | 18 | 0 | 1 | 0 | 1 | 2 |
| 18:50 - 19:00 | 0 | 0 | 10 | 1 | 3 | 0 | 0 | 0 |



## DIRECTIONAL TRAFFIC COUNT

DATE 15/11/2017
LOCATION SC02
DIRECTION **CHIJANZA**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 7:00 - 7:10 | 0 | 9 | 65 | 45 | 1 | 0 | 1 | 0 |
| 7:10 - 7:20 | 3 | 8 | 65 | 48 | 2 | 0 | 0 | 0 |
| 7:20 - 7:30 | 0 | 4 | 49 | 43 | 4 | 0 | 3 | 0 |
| 7:30 - 7:40 | 0 | 8 | 69 | 46 | 5 | 0 | 1 | 0 |
| 7:40 - 7:50 | 0 | 5 | 61 | 37 | 2 | 0 | 0 | 0 |
| 7:50 - 8:00 | 1 | 8 | 81 | 40 | 1 | 0 | 0 | 0 |
| 8:00 - 8:10 | 1 | 2 | 68 | 45 | 1 | 1 | 0 | 0 |
| 8:10 - 8:20 | 2 | 4 | 70 | 47 | 1 | 0 | 0 | 0 |
| 8:20 - 8:30 | 0 | 4 | 69 | 38 | 1 | 0 | 0 | 0 |
| 8:30 - 8:40 | 5 | 7 | 64 | 38 | 1 | 1 | 0 | 0 |
| 8:40 - 8:50 | 0 | 5 | 58 | 36 | 2 | 0 | 0 | 0 |
| 8:50 - 9:00 | 2 | 2 | 70 | 47 | 1 | 0 | 1 | 0 |
| 9:00 - 9:10 | 3 | 7 | 57 | 41 | 1 | 1 | 2 | 0 |
| 9:10 - 9:20 | 2 | 8 | 57 | 40 | 1 | 0 | 4 | 0 |
| 9:20 - 9:30 | 4 | 10 | 48 | 47 | 4 | 0 | 1 | 0 |
| 9:30 - 9:40 | 0 | 12 | 49 | 47 | 3 | 2 | 2 | 0 |
| 9:40 - 9:50 | 2 | 7 | 69 | 40 | 6 | 0 | 2 | 0 |
| 9:50 - 10:00 | 3 | 8 | 65 | 33 | 6 | 0 | 5 | 0 |
| 10:00 - 10:10 | 4 | 5 | 67 | 34 | 4 | 0 | 0 | 0 |
| 10:10 - 10:20 | 3 | 15 | 71 | 28 | 6 | 0 | 2 | 0 |
| 10:20 - 10:30 | 1 | 7 | 66 | 38 | 7 | 0 | 4 | 0 |
| 10:30 - 10:40 | 0 | 12 | 72 | 30 | 3 | 0 | 0 | 0 |
| 10:40 - 10:50 | 1 | 10 | 68 | 27 | 5 | 0 | 2 | 0 |
| 10:50 - 11:00 | 2 | 10 | 86 | 31 | 3 | 0 | 4 | 1 |
| 11:00 - 11:10 | 1 | 9 | 75 | 32 | 2 | 0 | 1 | 0 |
| 11:10 - 11:20 | 2 | 8 | 86 | 32 | 3 | 2 | 4 | 0 |
| 11:20 - 11:30 | 3 | 7 | 74 | 41 | 6 | 1 | 3 | 0 |
| 11:30 - 11:40 | 1 | 13 | 67 | 33 | 2 | 0 | 2 | 0 |
| 11:40 - 11:50 | 4 | 6 | 86 | 32 | 0 | 1 | 1 | 0 |
| 11:50 - 12:00 | 0 | 11 | 87 | 32 | 3 | 0 | 1 | 1 |
| 12:00 - 12:10 | 3 | 15 | 84 | 41 | 7 | 0 | 2 | 0 |
| 12:10 - 11:20 | 2 | 5 | 77 | 25 | 2 | 0 | 3 | 0 |
| 12:20 - 12:30 | 0 | 10 | 94 | 27 | 11 | 0 | 2 | 0 |
| 12:30 - 12:40 | 3 | 13 | 83 | 28 | 6 | 0 | 1 | 0 |
| 12:40 - 12:50 | 2 | 3 | 98 | 32 | 5 | 0 | 3 | 0 |
| 12:50 - 13:00 | 2 | 14 | 93 | 33 | 5 | 0 | 5 | 0 |
| 13:00 - 13:10 | 0 | 11 | 83 | 27 | 4 | 1 | 3 | 0 |
| 13:10 - 13:20 | 3 | 9 | 75 | 30 | 1 | 0 | 0 | 0 |
| 13:20 - 13:30 | 0 | 9 | 71 | 23 | 1 | 2 | 4 | 0 |
| 13:30 - 13:40 | 2 | 13 | 68 | 23 | 0 | 0 | 0 | 0 |
| 13:40 - 13:50 | 1 | 10 | 92 | 26 | 3 | 0 | 2 | 0 |
| 13:50 - 14:00 | 5 | 9 | 77 | 30 | 1 | 1 | 0 | 0 |
| 14:00 - 14:10 | 0 | 12 | 98 | 24 | 5 | 1 | 2 | 0 |
| 14:10 - 14:20 | 5 | 6 | 102 | 30 | 2 | 1 | 2 | 0 |
| 14:20 - 14:30 | 2 | 12 | 104 | 14 | 6 | 0 | 0 | 0 |
| 14:30 - 14:40 | 1 | 8 | 87 | 31 | 3 | 0 | 4 | 0 |
| 14:40 - 14:50 | 4 | 3 | 84 | 26 | 2 | 0 | 0 | 0 |
| 14:50 - 15:00 | 5 | 12 | 95 | 36 | 2 | 0 | 1 | 1 |
| 15:00 - 15:10 | 5 | 9 | 88 | 28 | 8 | 0 | 1 | 0 |
| 15:10 - 15:20 | 0 | 6 | 91 | 30 | 3 | 0 | 3 | 0 |
| 15:20 - 15:30 | 3 | 11 | 91 | 27 | 2 | 0 | 3 | 0 |
| 15:30 - 15:40 | 5 | 13 | 109 | 27 | 3 | 0 | 1 | 0 |
| 15:40 - 15:50 | 0 | 8 | 93 | 27 | 4 | 0 | 2 | 0 |
| 15:50 - 16:00 | 2 | 12 | 88 | 20 | 2 | 0 | 1 | 0 |
| 16:00 - 16:10 | 5 | 8 | 97 | 29 | 4 | 0 | 1 | 0 |
| 16:10 - 16:20 | 2 | 14 | 90 | 27 | 7 | 0 | 2 | 0 |
| 16:20 - 16:30 | 4 | 8 | 84 | 35 | 6 | 0 | 0 | 0 |
| 16:30 - 16:40 | 2 | 8 | 77 | 20 | 3 | 0 | 2 | 0 |
| 16:40 - 16:50 | 4 | 12 | 93 | 23 | 4 | 0 | 0 | 0 |
| 16:50 - 17:00 | 4 | 9 | 86 | 36 | 2 | 0 | 4 | 0 |
| 17:00 - 17:10 | 3 | 7 | 87 | 22 | 0 | 0 | 3 | 0 |
| 17:10 - 17:20 | 3 | 5 | 93 | 23 | 6 | 2 | 0 | 0 |
| 17:20 - 17:30 | 1 | 5 | 86 | 21 | 3 | 2 | 2 | 0 |
| 17:30 - 17:40 | 2 | 8 | 83 | 28 | 5 | 0 | 2 | 0 |
| 17:40 - 17:50 | 2 | 6 | 90 | 27 | 5 | 1 | 1 | 0 |
| 17:50 - 18:00 | 2 | 5 | 86 | 22 | 3 | 0 | 3 | 0 |
| 18:00 - 18:10 | 4 | 6 | 77 | 25 | 5 | 0 | 3 | 0 |
| 18:10 - 18:20 | 0 | 6 | 85 | 37 | 0 | 2 | 1 | 0 |
| 18:20 - 18:30 | 0 | 3 | 99 | 30 | 3 | 0 | 2 | 0 |
| 18:30 - 18:40 | 2 | 12 | 0 | 19 | 4 | 4 | 0 | 1 |
| 18:40 - 18:50 | 1 | 9 | 63 | 23 | 5 | 0 | 0 | 0 |
| 18:50 - 19:00 | 4 | 9 | 84 | 38 | 3 | 1 | 0 | 0 |

DIRECTIONAL TRAFFIC COUNT

DATE 15/11/2017
LOCATION SC02
DIRECTION **CHIJANZA**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 19:00 - 19:10 | 3 | 7 | 110 | 31 | 1 | 0 | 2 | 0 |
| 19:10 - 19:20 | 2 | 6 | 81 | 23 | 0 | 0 | 0 | 0 |
| 19:20 - 19:30 | 0 | 4 | 69 | 17 | 1 | 0 | 1 | 0 |
| 19:30 - 19:40 | 3 | 3 | 93 | 16 | 0 | 0 | 0 | 0 |
| 19:40 - 19:50 | 1 | 5 | 55 | 10 | 1 | 0 | 3 | 0 |
| 19:50 - 20:00 | 2 | 4 | 58 | 11 | 1 | 0 | 0 | 0 |
| 20:00 - 20:10 | 1 | 1 | 97 | 13 | 1 | 0 | 1 | 1 |
| 20:10 - 20:20 | 1 | 4 | 60 | 7 | 2 | 0 | 0 | 0 |
| 20:20 - 20:30 | 2 | 2 | 62 | 12 | 3 | 0 | 0 | 0 |
| 20:30 - 20:40 | 2 | 1 | 56 | 2 | 2 | 0 | 0 | 0 |
| 20:40 - 20:50 | 1 | 0 | 88 | 4 | 3 | 0 | 0 | 1 |
| 20:50 - 21:00 | 0 | 1 | 52 | 5 | 2 | 0 | 0 | 0 |
| 21:00 - 21:10 | 1 | 3 | 33 | 1 | 0 | 0 | 0 | 0 |
| 21:10 - 21:20 | 1 | 0 | 27 | 0 | 2 | 0 | 1 | 0 |
| 21:20 - 21:30 | 0 | 0 | 38 | 1 | 0 | 0 | 0 | 0 |
| 21:30 - 21:40 | 1 | 0 | 35 | 2 | 1 | 0 | 0 | 0 |
| 21:40 - 21:50 | 0 | 1 | 23 | 6 | 0 | 0 | 1 | 0 |
| 21:50 - 22:00 | 0 | 1 | 41 | 2 | 0 | 0 | 2 | 0 |
| 22:00 - 22:10 | 0 | 0 | 21 | 3 | 1 | 0 | 2 | 0 |
| 22:10 - 22:20 | 0 | 0 | 18 | 2 | 1 | 0 | 1 | 1 |
| 22:20 - 22:30 | 0 | 0 | 21 | 3 | 1 | 0 | 0 | 0 |
| 22:30 - 22:40 | 0 | 0 | 35 | 1 | 1 | 0 | 0 | 0 |
| 22:40 - 22:50 | 0 | 0 | 17 | 2 | 1 | 0 | 1 | 0 |
| 22:50 - 23:00 | 0 | 0 | 9 | 2 | 0 | 0 | 0 | 1 |
| 23:00 - 23:10 | 1 | 0 | 8 | 3 | 0 | 0 | 0 | 0 |
| 23:10 - 23:20 | 0 | 0 | 18 | 2 | 1 | 1 | 0 | 1 |
| 23:20 - 23:30 | 0 | 0 | 12 | 0 | 1 | 0 | 1 | 0 |
| 23:30 - 23:40 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 |
| 23:40 - 23:50 | 0 | 0 | 10 | 1 | 0 | 0 | 1 | 1 |
| 23:50 - 00:00 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 |
| 00:00 - 00:10 | 0 | 0 | 21 | 1 | 1 | 0 | 0 | 2 |
| 00:10 - 00:20 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| 00:20 - 00:30 | 0 | 0 | 5 | 0 | 0 | 0 | 1 | 0 |
| 00:30 - 00:40 | 0 | 1 | 7 | 0 | 0 | 1 | 0 | 1 |
| 00:40 - 00:50 | 0 | 0 | 4 | 2 | 0 | 0 | 1 | 0 |
| 00:50 - 01:00 | 0 | 0 | 7 | 1 | 0 | 0 | 1 | 0 |
| 01:00 - 01:10 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| 01:10 - 01:20 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| 01:20 - 01:30 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 |
| 01:30 - 01:40 | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 0 |
| 01:40 - 01:50 | 0 | 0 | 3 | 0 | 0 | 1 | 0 | 0 |
| 01:50 - 02:00 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| 02:00 - 02:10 | 0 | 0 | 5 | 2 | 0 | 0 | 1 | 0 |
| 02:10 - 02:20 | 0 | 0 | 5 | 1 | 0 | 0 | 1 | 0 |
| 02:20 - 02:30 | 0 | 0 | 4 | 3 | 1 | 0 | 0 | 0 |
| 02:30 - 02:40 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 02:40 - 02:50 | 0 | 0 | 3 | 1 | 0 | 1 | 1 | 0 |
| 02:50 - 03:00 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 03:00 - 03:10 | 0 | 0 | 4 | 0 | 3 | 0 | 2 | 1 |
| 03:10 - 03:20 | 0 | 0 | 4 | 2 | 0 | 0 | 1 | 0 |
| 03:20 - 03:30 | 0 | 0 | 2 | 2 | 3 | 0 | 0 | 2 |
| 03:30 - 03:40 | 0 | 0 | 2 | 4 | 1 | 0 | 5 | 0 |
| 03:40 - 03:50 | 0 | 0 | 7 | 2 | 0 | 0 | 0 | 0 |
| 03:50 - 04:00 | 0 | 0 | 3 | 4 | 0 | 0 | 0 | 0 |
| 04:00 - 04:10 | 0 | 0 | 12 | 9 | 0 | 1 | 1 | 0 |
| 04:10 - 04:20 | 0 | 0 | 9 | 6 | 0 | 0 | 0 | 0 |
| 04:20 - 04:30 | 1 | 3 | 25 | 32 | 1 | 0 | 3 | 0 |
| 04:30 - 04:40 | 0 | 1 | 16 | 2 | 0 | 0 | 0 | 0 |
| 04:40 - 04:50 | 0 | 0 | 11 | 20 | 0 | 0 | 3 | 0 |
| 04:50 - 05:00 | 0 | 1 | 16 | 36 | 1 | 0 | 1 | 0 |
| 05:00 - 05:10 | 0 | 1 | 8 | 30 | 0 | 0 | 1 | 0 |
| 05:10 - 05:20 | 2 | 0 | 17 | 70 | 2 | 0 | 2 | 0 |
| 05:20 - 05:30 | 1 | 2 | 18 | 98 | 1 | 0 | 0 | 0 |
| 05:30 - 05:40 | 0 | 2 | 37 | 53 | 0 | 0 | 0 | 0 |
| 05:40 - 05:50 | 1 | 0 | 20 | 37 | 0 | 0 | 1 | 1 |
| 05:50 - 06:00 | 0 | 5 | 25 | 36 | 0 | 0 | 3 | 0 |
| 06:00 - 06:10 | 3 | 1 | 29 | 43 | 1 | 0 | 2 | 0 |
| 06:10 - 06:20 | 2 | 2 | 34 | 42 | 2 | 0 | 1 | 0 |
| 06:20 - 06:30 | 3 | 4 | 32 | 51 | 1 | 0 | 1 | 0 |
| 06:30 - 06:40 | 1 | 3 | 69 | 49 | 3 | 0 | 0 | 0 |
| 06:40 - 06:50 | 0 | 0 | 41 | 28 | 0 | 0 | 1 | 0 |
| 06:50 - 07:00 | 0 | 1 | 40 | 27 | 2 | 0 | 1 | 0 |



DIRECTIONAL TRAFFIC COUNT

DATE 15/11/2017
LOCATION SC02
DIRECTION **MCHINJI**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 7:00 - 7:10 | 0 | 5 | 106 | 37 | 3 | 1 | 2 | 0 |
| 7:10 - 7:20 | 3 | 4 | 118 | 27 | 2 | 3 | 4 | 0 |
| 7:20 - 7:30 | 0 | 2 | 112 | 29 | 6 | 1 | 2 | 0 |
| 7:30 - 7:40 | 1 | 3 | 131 | 30 | 4 | 0 | 1 | 1 |
| 7:40 - 7:50 | 4 | 3 | 108 | 30 | 4 | 0 | 2 | 1 |
| 7:50 - 8:00 | 4 | 7 | 125 | 28 | 2 | 2 | 2 | 0 |
| 8:00 - 8:10 | 3 | 6 | 114 | 34 | 8 | 2 | 0 | 0 |
| 8:10 - 8:20 | 1 | 8 | 102 | 31 | 3 | 2 | 2 | 0 |
| 8:20 - 8:30 | 2 | 8 | 101 | 21 | 8 | 0 | 2 | 0 |
| 8:30 - 8:40 | 1 | 5 | 85 | 25 | 4 | 0 | 1 | 0 |
| 8:40 - 8:50 | 4 | 14 | 79 | 28 | 5 | 1 | 2 | 0 |
| 8:50 - 9:00 | 2 | 3 | 79 | 29 | 8 | 0 | 5 | 0 |
| 9:00 - 9:10 | 2 | 9 | 83 | 22 | 5 | 0 | 6 | 0 |
| 9:10 - 9:20 | 3 | 6 | 94 | 31 | 4 | 1 | 2 | 0 |
| 9:20 - 9:30 | 2 | 14 | 78 | 25 | 5 | 2 | 3 | 0 |
| 9:30 - 9:40 | 2 | 11 | 77 | 25 | 6 | 4 | 1 | 0 |
| 9:40 - 9:50 | 3 | 11 | 80 | 30 | 8 | 1 | 1 | 0 |
| 9:50 - 10:00 | 5 | 11 | 75 | 45 | 4 | 1 | 3 | 0 |
| 10:00 - 10:10 | 4 | 9 | 86 | 28 | 6 | 0 | 1 | 0 |
| 10:10 - 10:20 | 2 | 7 | 86 | 23 | 5 | 1 | 0 | 0 |
| 10:20 - 10:30 | 2 | 7 | 89 | 26 | 4 | 0 | 2 | 0 |
| 10:30 - 10:40 | 1 | 4 | 92 | 19 | 3 | 1 | 3 | 0 |
| 10:40 - 10:50 | 1 | 9 | 90 | 30 | 7 | 0 | 2 | 0 |
| 10:50 - 11:00 | 2 | 5 | 94 | 33 | 3 | 0 | 0 | 0 |
| 11:00 - 11:10 | 3 | 10 | 107 | 28 | 3 | 0 | 2 | 0 |
| 11:10 - 11:20 | 0 | 5 | 81 | 28 | 7 | 0 | 3 | 0 |
| 11:20 - 11:30 | 0 | 10 | 81 | 28 | 2 | 1 | 4 | 2 |
| 11:30 - 11:40 | 0 | 8 | 94 | 32 | 5 | 1 | 2 | 0 |
| 11:40 - 11:50 | 11 | 9 | 96 | 38 | 9 | 0 | 5 | 0 |
| 11:50 - 12:00 | 3 | 13 | 94 | 5 | 8 | 0 | 2 | 0 |
| 12:00 - 12:10 | 1 | 6 | 80 | 23 | 3 | 1 | 2 | 0 |
| 12:10 - 11:20 | 1 | 7 | 90 | 23 | 7 | 1 | 2 | 1 |
| 12:20 - 12:30 | 1 | 19 | 101 | 39 | 6 | 0 | 3 | 0 |
| 12:30 - 12:40 | 1 | 9 | 96 | 24 | 9 | 0 | 11 | 0 |
| 12:40 - 12:50 | 1 | 10 | 110 | 32 | 3 | 0 | 4 | 1 |
| 12:50 - 13:00 | 0 | 5 | 74 | 28 | 3 | 1 | 4 | 0 |
| 13:00 - 13:10 | 1 | 10 | 73 | 40 | 6 | 0 | 3 | 0 |
| 13:10 - 13:20 | 2 | 8 | 106 | 16 | 3 | 1 | 2 | 0 |
| 13:20 - 13:30 | 0 | 15 | 99 | 19 | 3 | 1 | 0 | 0 |
| 13:30 - 13:40 | 1 | 9 | 108 | 36 | 6 | 1 | 0 | 0 |
| 13:40 - 13:50 | 0 | 8 | 108 | 20 | 2 | 2 | 1 | 0 |
| 13:50 - 14:00 | 2 | 11 | 100 | 25 | 5 | 0 | 0 | 1 |
| 14:00 - 14:10 | 6 | 7 | 111 | 13 | 9 | 2 | 0 | 0 |
| 14:10 - 14:20 | 0 | 10 | 106 | 28 | 3 | 0 | 2 | 2 |
| 14:20 - 14:30 | 2 | 9 | 106 | 30 | 4 | 1 | 1 | 0 |
| 14:30 - 14:40 | 0 | 7 | 112 | 26 | 0 | 1 | 6 | 1 |
| 14:40 - 14:50 | 3 | 10 | 113 | 24 | 7 | 0 | 2 | 0 |
| 14:5_ - 15:00 | 4 | 11 | 95 | 30 | 2 | 0 | 5 | 2 |
| 15:00 - 15:10 | 5 | 10 | 92 | 32 | 4 | 0 | 1 | 0 |
| 15:10 - 15:20 | 3 | 8 | 100 | 19 | 4 | 0 | 2 | 0 |
| 15:20 - 15:30 | 2 | 8 | 10 | 29 | 5 | 0 | 1 | 1 |
| 15:30 - 15:40 | 3 | 17 | 105 | 28 | 4 | 1 | 2 | 0 |
| 15:40 - 15:50 | 4 | 9 | 78 | 26 | 3 | 1 | 4 | 0 |
| 15:50 - 16:00 | 7 | 8 | 135 | 35 | 12 | 0 | 4 | 1 |
| 16:00 - 16:10 | 1 | 4 | 55 | 9 | 4 | 0 | 1 | 0 |
| 16:10 - 16:20 | 5 | 9 | 107 | 33 | 6 | 0 | 3 | 0 |
| 16:20 - 16:30 | 2 | 9 | 86 | 40 | 6 | 0 | 5 | 1 |
| 16:30 - 16:40 | 5 | 8 | 103 | 26 | 6 | 1 | 1 | 0 |
| 16:40 - 16:50 | 2 | 11 | 91 | 31 | 9 | 1 | 4 | 0 |
| 16:50 - 17:00 | 2 | 11 | 90 | 28 | 7 | 1 | 0 | 0 |
| 17:00 - 17:10 | 1 | 9 | 90 | 31 | 2 | 1 | 1 | 1 |
| 17:10 - 17:20 | 1 | 6 | 75 | 45 | 2 | 0 | 4 | 0 |
| 17:20 - 17:30 | 0 | 7 | 87 | 31 | 5 | 0 | 2 | 0 |
| 17:30 - 17:40 | 2 | 14 | 72 | 41 | 2 | 0 | 4 | 0 |
| 17:40 - 17:50 | 3 | 9 | 112 | 55 | 1 | 1 | 2 | 2 |
| 17:5_ - 18:00 | 0 | 0 | 85 | 32 | 8 | 1 | 1 | 1 |
| 18:00 - 18:10 | 2 | 8 | 80 | 34 | 7 | 0 | 5 | 0 |
| 18:10 - 18:20 | 2 | 11 | 82 | 34 | 1 | 2 | 1 | 1 |
| 18:20 - 18:30 | 1 | 11 | 86 | 24 | 5 | 0 | 3 | 1 |
| 18:30 - 18:40 | 2 | 8 | 91 | 30 | 3 | 0 | 0 | 0 |
| 18:40 - 18:50 | 0 | 7 | 73 | 16 | 0 | 1 | 0 | 1 |
| 18:50 - 19:00 | 1 | 14 | 83 | 31 | 2 | 0 | 3 | 0 |

DIRECTIONAL TRAFFIC COUNT

DATE 15/11/2017
LOCATION SC02
DIRECTION **MCHINJI**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 19:00 - 19:10 | 1 | 5 | 93 | 29 | 3 | 0 | 1 | 1 |
| 19:10 - 19:20 | 0 | 9 | 69 | 16 | 8 | 0 | 3 | 0 |
| 19:20 - 19:30 | 1 | 7 | 73 | 16 | 2 | 1 | 0 | 0 |
| 19:30 - 19:40 | 0 | 5 | 73 | 19 | 1 | 2 | 0 | 0 |
| 19:40 - 19:50 | 2 | 6 | 65 | 19 | 3 | 0 | 1 | 1 |
| 19:50 - 20:00 | 1 | 3 | 43 | 13 | 0 | 1 | 2 | 1 |
| 20:00 - 20:10 | 0 | 9 | 70 | 14 | 1 | 2 | 2 | 0 |
| 20:10 - 20:20 | 0 | 4 | 63 | 6 | 0 | 0 | 1 | 0 |
| 20:20 - 20:30 | 0 | 1 | 43 | 7 | 1 | 0 | 2 | 1 |
| 20:30 - 20:40 | 0 | 0 | 58 | 8 | 1 | 0 | 1 | 0 |
| 20:40 - 20:50 | 0 | 0 | 53 | 2 | 2 | 0 | 3 | 0 |
| 20:50 - 21:00 | 0 | 1 | 47 | 4 | 1 | 0 | 0 | 1 |
| 21:00 - 21:10 | 0 | 1 | 61 | 6 | 2 | 0 | 1 | 0 |
| 21:10 - 21:20 | 0 | 1 | 32 | 4 | 2 | 0 | 0 | 0 |
| 21:20 - 21:30 | 1 | 0 | 28 | 3 | 0 | 1 | 1 | 1 |
| 21:30 - 21:40 | 0 | 2 | 50 | 4 | 0 | 1 | 0 | 1 |
| 21:40 - 21:50 | 0 | 1 | 32 | 3 | 1 | 0 | 1 | 0 |
| 21:50 - 22:00 | 0 | 0 | 27 | 1 | 0 | 1 | 2 | 0 |
| 22:00 - 22:10 | 0 | 0 | 20 | 3 | 1 | 1 | 0 | 0 |
| 22:10 - 22:20 | 0 | 1 | 15 | 3 | 0 | 1 | 0 | 0 |
| 22:20 - 22:30 | 0 | 0 | 22 | 0 | 1 | 1 | 0 | 0 |
| 22:30 - 22:40 | 0 | 0 | 15 | 1 | 1 | 1 | 0 | 0 |
| 22:40 - 22:50 | 0 | 0 | 16 | 2 | 1 | 1 | 0 | 0 |
| 22:50 - 23:00 | 0 | 0 | 15 | 0 | 0 | 0 | 2 | 0 |
| 23:00 - 23:10 | 0 | 0 | 14 | 0 | 0 | 0 | 1 | 0 |
| 23:10 - 23:20 | 1 | 0 | 14 | 0 | 0 | 1 | 0 | 1 |
| 23:20 - 23:30 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 |
| 23:30 - 23:40 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 |
| 23:40 - 23:50 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 |
| 23:50 - 00:00 | 0 | 0 | 7 | 0 | 2 | 0 | 2 | 0 |
| 00:00 - 00:10 | 0 | 0 | 9 | 0 | 0 | 0 | 1 | 0 |
| 00:10 - 00:20 | 0 | 0 | 11 | 1 | 0 | 0 | 2 | 0 |
| 00:20 - 00:30 | 0 | 0 | 9 | 1 | 0 | 0 | 1 | 1 |
| 00:30 - 00:40 | 0 | 0 | 6 | 0 | 2 | 0 | 0 | 0 |
| 00:40 - 00:50 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 |
| 00:50 - 01:00 | 1 | 0 | 6 | 0 | 0 | 0 | 1 | 0 |
| 01:00 - 01:10 | 0 | 0 | 8 | 0 | 1 | 0 | 1 | 0 |
| 01:10 - 01:20 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| 01:20 - 01:30 | 0 | 0 | 8 | 0 | 0 | 0 | 1 | 0 |
| 01:30 - 01:40 | 0 | 0 | 12 | 1 | 0 | 0 | 2 | 0 |
| 01:40 - 01:50 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| 01:50 - 02:00 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 |
| 02:00 - 02:10 | 0 | 0 | 4 | 0 | 0 | 2 | 0 | 0 |
| 02:10 - 02:20 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 0 |
| 02:20 - 02:30 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 |
| 02:30 - 02:40 | 0 | 0 | 3 | 2 | 0 | 0 | 1 | 0 |
| 02:40 - 02:50 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 02:50 - 03:00 | 0 | 0 | 2 | 1 | 0 | 0 | 1 | 0 |
| 03:00 - 03:10 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| 03:10 - 03:20 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| 03:20 - 03:30 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 03:30 - 03:40 | 1 | 0 | 4 | 0 | 0 | 1 | 0 | 1 |
| 03:40 - 03:50 | 0 | 0 | 2 | 0 | 1 | 0 | 2 | 0 |
| 03:50 - 04:00 | 1 | 0 | 3 | 1 | 1 | 0 | 0 | 0 |
| 04:00 - 04:10 | 0 | 0 | 4 | 1 | 0 | 1 | 0 | 0 |
| 04:10 - 04:20 | 0 | 0 | 1 | 0 | 8 | 3 | 0 | 2 |
| 04:20 - 04:30 | 0 | 0 | 9 | 3 | 2 | 2 | 0 | 1 |
| 04:30 - 04:40 | 1 | 0 | 0 | 0 | 7 | 9 | 1 | 0 |
| 04:40 - 04:50 | 0 | 1 | 18 | 11 | 0 | 0 | 0 | 1 |
| 04:50 - 05:00 | 0 | 1 | 18 | 11 | 0 | 0 | 0 | 1 |
| 05:00 - 05:10 | 0 | 0 | 7 | 10 | 1 | 0 | 0 | 0 |
| 05:10 - 05:20 | 2 | 0 | 18 | 22 | 0 | 1 | 1 | 1 |
| 05:20 - 05:30 | 1 | 2 | 19 | 16 | 0 | 1 | 1 | 1 |
| 05:30 - 05:40 | 1 | 0 | 12 | 24 | 0 | 0 | 0 | 0 |
| 05:40 - 05:50 | 1 | 0 | 18 | 28 | 1 | 0 | 1 | 0 |
| 05:50 - 06:00 | 2 | 1 | 15 | 29 | 2 | 0 | 2 | 0 |
| 06:00 - 06:10 | 0 | 0 | 33 | 37 | 0 | 0 | 1 | 1 |
| 06:10 - 06:20 | 1 | 2 | 34 | 30 | 1 | 1 | 2 | 0 |
| 06:20 - 06:30 | 0 | 1 | 38 | 26 | 2 | 2 | 1 | 0 |
| 06:30 - 06:40 | 2 | 0 | 52 | 29 | 3 | 2 | 2 | 0 |
| 06:40 - 06:50 | 0 | 0 | 39 | 21 | 1 | 1 | 1 | 0 |
| 06:50 - 07:00 | 3 | 0 | 49 | 13 | 2 | 1 | 1 | 0 |





DIRECTIONAL TRAFFIC COUNT

DATE 16/11/2017
LOCATION SC02
DIRECTION **CHIJANZA**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 7:00 - 7:10 | 3 | 2 | 75 | 47 | 3 | 1 | 2 | 0 |
| 7:10 - 7:20 | 2 | 9 | 71 | 38 | 3 | 0 | 1 | 0 |
| 7:20 - 7:30 | 1 | 7 | 67 | 37 | 6 | 0 | 1 | 0 |
| 7:30 - 7:40 | 0 | 6 | 59 | 50 | 4 | 0 | 1 | 1 |
| 7:40 - 7:50 | 2 | 4 | 63 | 46 | 3 | 0 | 1 | 1 |
| 7:50 - 8:00 | 1 | 3 | 72 | 40 | 2 | 0 | 1 | 0 |
| 8:00 - 8:10 | 3 | 7 | 65 | 60 | 2 | 0 | 1 | 0 |
| 8:10 - 8:20 | 0 | 5 | 51 | 45 | 6 | 0 | 2 | 0 |
| 8:20 - 8:30 | 0 | 7 | 62 | 43 | 6 | 0 | 4 | 0 |
| 8:30 - 8:40 | 0 | 9 | 62 | 50 | 2 | 0 | 4 | 0 |
| 8:40 - 8:50 | 1 | 9 | 79 | 37 | 4 | 0 | 3 | 0 |
| 8:50 - 9:00 | 1 | 8 | 70 | 45 | 4 | 0 | 2 | 0 |
| 9:00 - 9:10 | 1 | 13 | 63 | 26 | 3 | 0 | 1 | 1 |
| 9:10 - 9:20 | 2 | 12 | 63 | 30 | 11 | 0 | 3 | 1 |
| 9:20 - 9:30 | 1 | 13 | 76 | 32 | 10 | 0 | 2 | 0 |
| 9:30 - 9:40 | 4 | 8 | 72 | 38 | 8 | 1 | 1 | 0 |
| 9:40 - 9:50 | 4 | 6 | 77 | 24 | 10 | 0 | 1 | 1 |
| 9:50 - 10:00 | 2 | 8 | 85 | 27 | 3 | 0 | 3 | 1 |
| 10:00 - 10:10 | 0 | 7 | 68 | 33 | 3 | 1 | 1 | 0 |
| 10:10 - 10:20 | 2 | 6 | 70 | 30 | 6 | 1 | 2 | 1 |
| 10:20 - 10:30 | 1 | 12 | 84 | 33 | 5 | 1 | 3 | 0 |
| 10:30 - 10:40 | 0 | 9 | 56 | 31 | 6 | 0 | 3 | 0 |
| 10:40 - 10:50 | 1 | 11 | 71 | 27 | 2 | 0 | 4 | 0 |
| 10:50 - 11:00 | 1 | 9 | 76 | 37 | 3 | 0 | 3 | 0 |
| 11:00 - 11:10 | 2 | 12 | 71 | 35 | 3 | 0 | 3 | 0 |
| 11:10 - 11:20 | 2 | 7 | 60 | 35 | 5 | 0 | 2 | 0 |
| 11:20 - 11:30 | 0 | 9 | 75 | 27 | 10 | 0 | 1 | 0 |
| 11:30 - 11:40 | 2 | 11 | 83 | 31 | 6 | 0 | 3 | 0 |
| 11:40 - 11:50 | 3 | 10 | 80 | 39 | 3 | 0 | 1 | 0 |
| 11:50 - 12:00 | 0 | 7 | 62 | 40 | 5 | 0 | 5 | 0 |
| 12:00 - 12:10 | 3 | 11 | 76 | 28 | 2 | 0 | 3 | 0 |
| 12:10 - 11:20 | 5 | 7 | 92 | 31 | 3 | 0 | 1 | 0 |
| 12:20 - 12:30 | 1 | 6 | 83 | 31 | 3 | 0 | 3 | 0 |
| 12:30 - 12:40 | 2 | 15 | 92 | 26 | 3 | 0 | 1 | 1 |
| 12:40 - 12:50 | 1 | 7 | 98 | 27 | 4 | 0 | 2 | 0 |
| 12:50 - 13:00 | 1 | 5 | 80 | 29 | 7 | 0 | 4 | 0 |
| 13:00 - 13:10 | 3 | 9 | 77 | 40 | 4 | 1 | 0 | 0 |
| 13:10 - 13:20 | 3 | 10 | 96 | 33 | 4 | 0 | 2 | 0 |
| 13:20 - 13:30 | 2 | 10 | 83 | 22 | 3 | 0 | 2 | 0 |
| 13:30 - 13:40 | 2 | 13 | 78 | 29 | 5 | 0 | 2 | 0 |
| 13:40 - 13:50 | 2 | 6 | 71 | 27 | 3 | 0 | 1 | 0 |
| 13:50 - 14:00 | 4 | 9 | 63 | 30 | 6 | 0 | 1 | 0 |
| 14:00 - 14:10 | 5 | 12 | 99 | 26 | 3 | 0 | 0 | 0 |
| 14:10 - 14:20 | 0 | 11 | 92 | 18 | 5 | 0 | 1 | 0 |
| 14:20 - 14:30 | 1 | 15 | 91 | 28 | 5 | 1 | 1 | 0 |
| 14:30 - 14:40 | 4 | 12 | 81 | 23 | 1 | 1 | 3 | 1 |
| 14:40 - 14:50 | 0 | 11 | 95 | 25 | 11 | 0 | 3 | 0 |
| 14:50 - 15:00 | 0 | 17 | 90 | 31 | 2 | 0 | 4 | 0 |
| 15:00 - 15:10 | 5 | 10 | 90 | 29 | 3 | 0 | 3 | 0 |
| 15:10 - 15:20 | 5 | 14 | 79 | 22 | 10 | 0 | 2 | 0 |
| 15:20 - 15:30 | 3 | 6 | 99 | 24 | 2 | 0 | 2 | 0 |
| 15:30 - 15:40 | 2 | 13 | 85 | 35 | 0 | 0 | 1 | 0 |
| 15:40 - 15:50 | 4 | 6 | 94 | 29 | 8 | 6 | 6 | 1 |
| 15:50 - 16:00 | 0 | 7 | 88 | 25 | 4 | 0 | 0 | 0 |
| 16:00 - 16:10 | 6 | 15 | 105 | 27 | 4 | 0 | 3 | 0 |
| 16:10 - 16:20 | 5 | 8 | 88 | 24 | 3 | 0 | 2 | 0 |
| 16:20 - 16:30 | 2 | 11 | 90 | 26 | 6 | 0 | 4 | 0 |
| 16:30 - 16:40 | 3 | 4 | 63 | 17 | 0 | 0 | 3 | 0 |
| 16:40 - 16:50 | 2 | 4 | 93 | 27 | 5 | 0 | 4 | 1 |
| 16:50 - 17:00 | 4 | 2 | 75 | 25 | 8 | 0 | 0 | 1 |
| 17:00 - 17:10 | 5 | 3 | 78 | 22 | 2 | 0 | 1 | 0 |
| 17:10 - 17:20 | 1 | 8 | 80 | 2 | 6 | 0 | 0 | 0 |
| 17:20 - 17:30 | 2 | 7 | 78 | 29 | 4 | 0 | 1 | 0 |
| 17:30 - 17:40 | 2 | 7 | 91 | 30 | 5 | 1 | 2 | 0 |
| 17:40 - 17:50 | 1 | 2 | 97 | 33 | 3 | 0 | 2 | 0 |
| 17:50 - 18:00 | 0 | 10 | 67 | 30 | 2 | 2 | 2 | 1 |
| 18:00 - 18:10 | 0 | 8 | 95 | 27 | 2 | 1 | 1 | 0 |
| 18:10 - 18:20 | 3 | 7 | 77 | 32 | 2 | 0 | 1 | 0 |
| 18:20 - 18:30 | 3 | 7 | 70 | 33 | 5 | 0 | 2 | 0 |
| 18:30 - 18:40 | 2 | 5 | 85 | 29 | 3 | 0 | 1 | 0 |
| 18:40 - 18:50 | 1 | 6 | 80 | 18 | 5 | 0 | 2 | 0 |
| 18:50 - 19:00 | 3 | 10 | 90 | 23 | 2 | 0 | 1 | 0 |

## DIRECTIONAL TRAFFIC COUNT

DATE 16/11/2017
LOCATION SC02
DIRECTION **MCHINJI**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 7:00 - 7:10 | 1 | 4 | 101 | 39 | 5 | 1 | 0 | 0 |
| 7:10 - 7:20 | 5 | 9 | 129 | 19 | 1 | 2 | 2 | 0 |
| 7:20 - 7:30 | 2 | 3 | 117 | 33 | 4 | 1 | 0 | 0 |
| 7:30 - 7:40 | 3 | 8 | 137 | 23 | 5 | 0 | 2 | 0 |
| 7:40 - 7:50 | 2 | 4 | 118 | 29 | 5 | 0 | 1 | 0 |
| 7:50 - 8:00 | 2 | 4 | 105 | 30 | 1 | 1 | 1 | 0 |
| 8:00 - 8:10 | 3 | 2 | 114 | 29 | 7 | 2 | 0 | 1 |
| 8:10 - 8:20 | 3 | 8 | 103 | 23 | 4 | 0 | 3 | 0 |
| 8:20 - 8:30 | 1 | 6 | 124 | 27 | 3 | 0 | 4 | 0 |
| 8:30 - 8:40 | 1 | 8 | 98 | 27 | 3 | 0 | 0 | 0 |
| 8:40 - 8:50 | 2 | 10 | 94 | 22 | 5 | 0 | 1 | 0 |
| 8:50 - 9:00 | 2 | 11 | 76 | 38 | 8 | 2 | 2 | 0 |
| 9:00 - 9:10 | 2 | 10 | 77 | 44 | 6 | 1 | 1 | 0 |
| 9:10 - 9:20 | 2 | 10 | 75 | 40 | 7 | 0 | 0 | 1 |
| 9:20 - 9:30 | 3 | 17 | 86 | 40 | 5 | 1 | 3 | 0 |
| 9:30 - 9:40 | 3 | 11 | 80 | 38 | 2 | 1 | 2 | 0 |
| 9:40 - 9:50 | 6 | 7 | 78 | 22 | 3 | 0 | 2 | 0 |
| 9:50 - 10:00 | 5 | 7 | 90 | 28 | 9 | 0 | 2 | 0 |
| 10:00 - 10:10 | 2 | 9 | 95 | 26 | 0 | 0 | 2 | 1 |
| 10:10 - 10:20 | 2 | 7 | 94 | 20 | 0 | 0 | 3 | 1 |
| 10:20 - 10:30 | 2 | 9 | 80 | 37 | 0 | 0 | 1 | 0 |
| 10:30 - 10:40 | 1 | 10 | 91 | 33 | 0 | 0 | 1 | 0 |
| 10:40 - 10:50 | 4 | 8 | 80 | 48 | 0 | 1 | 1 | 1 |
| 10:50 - 11:00 | 0 | 8 | 72 | 16 | 0 | 2 | 3 | 1 |
| 11:00 - 11:10 | 1 | 8 | 79 | 40 | 8 | 0 | 5 | 0 |
| 11:10 - 11:20 | 5 | 9 | 94 | 26 | 6 | 1 | 3 | 0 |
| 11:20 - 11:30 | 1 | 9 | 96 | 31 | 3 | 1 | 3 | 0 |
| 11:30 - 11:40 | 3 | 9 | 112 | 30 | 5 | 1 | 2 | 0 |
| 11:40 - 11:50 | 2 | 9 | 96 | 20 | 5 | 0 | 0 | 0 |
| 11:50 - 12:00 | 3 | 12 | 81 | 28 | 3 | 0 | 0 | 0 |
| 12:00 - 12:10 | 1 | 11 | 129 | 43 | 15 | 0 | 2 | 1 |
| 12:10 - 11:20 | 0 | 3 | 60 | 10 | 5 | 0 | 5 | 0 |
| 12:20 - 12:30 | 1 | 14 | 72 | 34 | 4 | 1 | 6 | 0 |
| 12:30 - 12:40 | 0 | 5 | 82 | 24 | 7 | 0 | 4 | 0 |
| 12:40 - 12:50 | 3 | 5 | 93 | 14 | 4 | 0 | 2 | 0 |
| 12:50 - 13:00 | 2 | 9 | 71 | 50 | 10 | 0 | 11 | 0 |
| 13:00 - 13:10 | 1 | 9 | 93 | 25 | 2 | 1 | 2 | 0 |
| 13:10 - 13:20 | 0 | 7 | 96 | 21 | 6 | 1 | 2 | 0 |
| 13:20 - 13:30 | 3 | 5 | 104 | 31 | 0 | 0 | 1 | 0 |
| 13:30 - 13:40 | 3 | 10 | 95 | 22 | 3 | 0 | 3 | 0 |
| 13:40 - 13:50 | 4 | 12 | 115 | 26 | 0 | 1 | 4 | 2 |
| 13:50 - 14:00 | 1 | 9 | 105 | 21 | 0 | 0 | 6 | 0 |
| 14:00 - 14:10 | 2 | 13 | 106 | 36 | 0 | 0 | 1 | 0 |
| 14:10 - 14:20 | 1 | 14 | 105 | 35 | 4 | 0 | 4 | 1 |
| 14:20 - 14:30 | 3 | 11 | 124 | 25 | 3 | 0 | 4 | 0 |
| 14:30 - 14:40 | 2 | 16 | 92 | 24 | 5 | 1 | 3 | 0 |
| 14:40 - 14:50 | 1 | 17 | 81 | 31 | 7 | 0 | 1 | 0 |
| 14:50 - 15:00 | 3 | 15 | 101 | 26 | 5 | 1 | 2 | 0 |
| 15:00 - 15:10 | 1 | 11 | 113 | 26 | 4 | 1 | 7 | 0 |
| 15:10 - 15:20 | 7 | 9 | 84 | 28 | 4 | 0 | 4 | 0 |
| 15:20 - 15:30 | 3 | 9 | 92 | 20 | 9 | 0 | 3 | 0 |
| 15:30 - 15:40 | 1 | 9 | 79 | 22 | 9 | 1 | 1 | 0 |
| 15:40 - 15:50 | 1 | 8 | 74 | 25 | 6 | 0 | 4 | 0 |
| 15:50 - 16:00 | 6 | 14 | 125 | 32 | 10 | 5 | 2 | 0 |
| 16:00 - 16:10 | 3 | 9 | 96 | 25 | 5 | 0 | 3 | 0 |
| 16:10 - 16:20 | 2 | 6 | 117 | 29 | 4 | 0 | 1 | 1 |
| 16:20 - 16:30 | 3 | 6 | 74 | 54 | 5 | 0 | 2 | 0 |
| 16:30 - 16:40 | 4 | 7 | 84 | 28 | 7 | 0 | 3 | 0 |
| 16:40 - 16:50 | 2 | 12 | 83 | 25 | 5 | 1 | 2 | 0 |
| 16:50 - 17:00 | 1 | 2 | 51 | 30 | 3 | 0 | 3 | 0 |
| 17:00 - 17:10 | 3 | 9 | 65 | 48 | 6 | 2 | 1 | 1 |
| 17:10 - 17:20 | 4 | 5 | 92 | 27 | 3 | 0 | 1 | 0 |
| 17:20 - 17:30 | 2 | 7 | 99 | 32 | 9 | 0 | 0 | 1 |
| 17:30 - 17:40 | 3 | 11 | 94 | 45 | 7 | 0 | 0 | 0 |
| 17:40 - 17:50 | 2 | 8 | 99 | 38 | 6 | 0 | 0 | 0 |
| 17:50 - 18:00 | 0 | 4 | 89 | 28 | 5 | 1 | 0 | 1 |
| 18:00 - 18:10 | 1 | 5 | 93 | 45 | 5 | 1 | 2 | 0 |
| 18:10 - 18:20 | 2 | 5 | 53 | 19 | 2 | 0 | 3 | 2 |
| 18:20 - 18:30 | 0 | 5 | 84 | 31 | 6 | 1 | 1 | 0 |
| 18:30 - 18:40 | 0 | 5 | 75 | 19 | 2 | 1 | 0 | 0 |
| 18:40 - 18:50 | 3 | 8 | 88 | 31 | 4 | 0 | 1 | 2 |
| 18:50 - 19:00 | 1 | 7 | 85 | 19 | 2 | 0 | 1 | 0 |



## DIRECTIONAL TRAFFIC COUNT

DATE 17/11/2017
LOCATION SC02
DIRECTION **CHIJANZA**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 7:00 - 7:10 | 4 | 4 | 67 | 42 | 1 | 1 | 1 | 0 |
| 7:10 - 7:20 | 1 | 5 | 56 | 43 | 1 | 0 | 3 | 0 |
| 7:20 - 7:30 | 1 | 14 | 72 | 58 | 4 | 0 | 1 | 0 |
| 7:30 - 7:40 | 0 | 13 | 82 | 61 | 8 | 0 | 1 | 0 |
| 7:40 - 7:50 | 2 | 10 | 98 | 64 | 9 | 0 | 2 | 0 |
| 7:50 - 8:00 | 1 | 18 | 73 | 53 | 1 | 0 | 0 | 0 |
| 8:00 - 8:10 | 1 | 10 | 80 | 68 | 2 | 0 | 0 | 0 |
| 8:10 - 8:20 | 1 | 5 | 67 | 87 | 1 | 0 | 0 | 0 |
| 8:20 - 8:30 | 1 | 8 | 75 | 61 | 6 | 0 | 0 | 0 |
| 8:30 - 8:40 | 0 | 10 | 79 | 45 | 4 | 0 | 0 | 0 |
| 8:40 - 8:50 | 3 | 29 | 112 | 81 | 2 | 0 | 0 | 0 |
| 8:50 - 9:00 | 0 | 11 | 45 | 48 | 2 | 0 | 0 | 0 |
| 9:00 - 9:10 | 1 | 8 | 81 | 72 | 4 | 0 | 2 | 0 |
| 9:10 - 9:20 | 0 | 9 | 57 | 16 | 2 | 0 | 1 | 0 |
| 9:20 - 9:30 | 2 | 9 | 97 | 44 | 2 | 0 | 1 | 0 |
| 9:30 - 9:40 | 0 | 11 | 76 | 49 | 3 | 0 | 0 | 0 |
| 9:40 - 9:50 | 3 | 7 | 101 | 73 | 3 | 0 | 1 | 1 |
| 9:50 - 10:00 | 1 | 6 | 77 | 49 | 4 | 0 | 1 | 3 |
| 10:00 - 10:10 | 2 | 11 | 87 | 39 | 3 | 0 | 3 | 0 |
| 10:10 - 10:20 | 1 | 8 | 99 | 44 | 7 | 0 | 2 | 0 |
| 10:20 - 10:30 | 0 | 10 | 89 | 50 | 3 | 0 | 1 | 0 |
| 10:30 - 10:40 | 1 | 17 | 50 | 43 | 3 | 0 | 1 | 0 |
| 10:40 - 10:50 | 2 | 6 | 80 | 40 | 7 | 0 | 2 | 0 |
| 10:50 - 11:00 | 0 | 14 | 81 | 50 | 3 | 0 | 2 | 0 |
| 11:00 - 11:10 | 6 | 17 | 70 | 39 | 3 | 0 | 10 | 0 |
| 11:10 - 11:20 | 4 | 6 | 71 | 34 | 1 | 0 | 10 | 0 |
| 11:20 - 11:30 | 3 | 15 | 100 | 38 | 3 | 0 | 3 | 0 |
| 11:30 - 11:40 | 2 | 4 | 94 | 32 | 2 | 0 | 4 | 0 |
| 11:40 - 11:50 | 3 | 8 | 79 | 41 | 1 | 0 | 0 | 0 |
| 11:50 - 12:00 | 2 | 12 | 90 | 27 | 3 | 0 | 1 | 0 |
| 12:00 - 12:10 | 3 | 9 | 116 | 56 | 4 | 0 | 3 | 0 |
| 12:10 - 11:20 | 9 | 14 | 120 | 38 | 1 | 0 | 0 | 0 |
| 12:20 - 12:30 | 1 | 7 | 91 | 44 | 0 | 0 | 3 | 0 |
| 12:30 - 12:40 | 2 | 11 | 90 | 30 | 5 | 0 | 0 | 0 |
| 12:40 - 12:50 | 2 | 13 | 98 | 29 | 1 | 0 | 3 | 0 |
| 12:50 - 13:00 | 3 | 9 | 77 | 37 | 7 | 0 | 2 | 0 |
| 13:00 - 13:10 | 3 | 6 | 71 | 43 | 3 | 0 | 0 | 0 |
| 13:10 - 13:20 | 2 | 25 | 90 | 37 | 1 | 1 | 1 | 0 |
| 13:20 - 13:30 | 0 | 8 | 81 | 32 | 4 | 0 | 2 | 0 |
| 13:30 - 13:40 | 1 | 15 | 72 | 34 | 3 | 0 | 2 | 0 |
| 13:40 - 13:50 | 1 | 11 | 111 | 27 | 4 | 0 | 1 | 0 |
| 13:50 - 14:00 | 2 | 7 | 102 | 35 | 5 | 0 | 0 | 0 |
| 14:00 - 14:10 | 3 | 9 | 67 | 31 | 5 | 0 | 1 | 0 |
| 14:10 - 14:20 | 2 | 21 | 139 | 45 | 4 | 0 | 0 | 0 |
| 14:20 - 14:30 | 3 | 11 | 117 | 33 | 3 | 0 | 1 | 0 |
| 14:30 - 14:40 | 3 | 4 | 66 | 14 | 6 | 0 | 0 | 0 |
| 14:40 - 14:50 | 2 | 11 | 73 | 35 | 6 | 1 | 2 | 0 |
| 14:50 - 15:00 | 0 | 3 | 47 | 10 | 6 | 0 | 0 | 0 |
| 15:00 - 15:10 | 6 | 13 | 146 | 45 | 4 | 0 | 1 | 0 |
| 15:10 - 15:20 | 0 | 7 | 66 | 29 | 2 | 0 | 1 | 0 |
| 15:20 - 15:30 | 0 | 9 | 80 | 30 | 5 | 0 | 4 | 0 |
| 15:30 - 15:40 | 1 | 5 | 108 | 16 | 5 | 0 | 0 | 0 |
| 15:40 - 15:50 | 1 | 8 | 110 | 32 | 1 | 1 | 1 | 0 |
| 15:50 - 16:00 | 2 | 9 | 95 | 31 | 6 | 0 | 3 | 1 |
| 16:00 - 16:10 | 3 | 7 | 83 | 25 | 2 | 0 | 2 | 0 |
| 16:10 - 16:20 | 0 | 13 | 82 | 29 | 4 | 0 | 0 | 0 |
| 16:20 - 16:30 | 4 | 22 | 86 | 23 | 2 | 0 | 1 | 0 |
| 16:30 - 16:40 | 4 | 9 | 92 | 18 | 3 | 0 | 4 | 1 |
| 16:40 - 16:50 | 3 | 9 | 86 | 27 | 2 | 0 | 1 | 0 |
| 16:50 - 17:00 | 4 | 7 | 90 | 29 | 0 | 1 | 1 | 0 |
| 17:00 - 17:10 | 2 | 5 | 84 | 28 | 4 | 0 | 3 | 0 |
| 17:10 - 17:20 | 2 | 4 | 90 | 36 | 4 | 0 | 1 | 0 |
| 17:20 - 17:30 | 1 | 8 | 105 | 43 | 7 | 0 | 1 | 0 |
| 17:30 - 17:40 | 1 | 6 | 36 | 20 | 2 | 0 | 0 | 0 |
| 17:40 - 17:50 | 4 | 6 | 118 | 39 | 2 | 0 | 1 | 0 |
| 17:50 - 18:00 | 2 | 9 | 110 | 42 | 2 | 0 | 2 | 0 |
| 18:00 - 18:10 | 3 | 8 | 88 | 23 | 6 | 2 | 1 | 2 |
| 18:10 - 18:20 | 1 | 19 | 88 | 39 | 3 | 0 | 4 | 1 |
| 18:20 - 18:30 | 0 | 10 | 99 | 37 | 3 | 0 | 0 | 0 |
| 18:30 - 18:40 | 2 | 7 | 82 | 36 | 3 | 0 | 1 | 0 |
| 18:40 - 18:50 | 4 | 6 | 62 | 20 | 2 | 0 | 1 | 0 |
| 18:50 - 19:00 | 2 | 14 | 97 | 28 | 3 | 1 | 1 | 1 |

## DIRECTIONAL TRAFFIC COUNT

DATE 17/11/2017
LOCATION SC02
DIRECTION **MCHINJI**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 7:00 - 7:10 | 1 | 5 | 109 | 26 | 2 | 1 | 1 | 0 |
| 7:10 - 7:20 | 1 | 6 | 98 | 32 | 2 | 1 | 0 | 0 |
| 7:20 - 7:30 | 1 | 7 | 115 | 39 | 5 | 0 | 0 | 0 |
| 7:30 - 7:40 | 3 | 3 | 103 | 42 | 1 | 0 | 0 | 0 |
| 7:40 - 7:50 | 4 | 3 | 116 | 32 | 2 | 0 | 1 | 0 |
| 7:50 - 8:00 | 9 | 10 | 106 | 24 | 4 | 0 | 1 | 0 |
| 8:00 - 8:10 | 3 | 6 | 103 | 39 | 4 | 0 | 0 | 0 |
| 8:10 - 8:20 | 2 | 11 | 117 | 17 | 4 | 1 | 0 | 0 |
| 8:20 - 8:30 | 2 | 9 | 80 | 31 | 3 | 0 | 0 | 1 |
| 8:30 - 8:40 | 2 | 15 | 92 | 28 | 0 | 0 | 1 | 0 |
| 8:40 - 8:50 | 7 | 14 | 148 | 52 | 5 | 0 | 2 | 0 |
| 8:50 - 9:00 | 2 | 13 | 115 | 40 | 3 | 0 | 4 | 0 |
| 9:00 - 9:10 | 0 | 1 | 31 | 3 | 0 | 0 | 0 | 0 |
| 9:10 - 9:20 | 1 | 3 | 46 | 11 | 2 | 0 | 1 | 0 |
| 9:20 - 9:30 | 4 | 9 | 93 | 21 | 6 | 0 | 2 | 0 |
| 9:30 - 9:40 | 1 | 10 | 91 | 34 | 6 | 0 | 0 | 0 |
| 9:40 - 9:50 | 2 | 12 | 95 | 27 | 0 | 0 | 1 | 0 |
| 9:50 - 10:00 | 1 | 6 | 95 | 32 | 3 | 0 | 0 | 0 |
| 10:00 - 10:10 | 0 | 6 | 101 | 25 | 6 | 0 | 0 | 0 |
| 10:10 - 10:20 | 5 | 18 | 81 | 26 | 4 | 0 | 2 | 1 |
| 10:20 - 10:30 | 0 | 9 | 98 | 22 | 12 | 0 | 3 | 0 |
| 10:30 - 10:40 | 0 | 10 | 92 | 34 | 9 | 0 | 2 | 0 |
| 10:40 - 10:50 | 2 | 10 | 106 | 30 | 7 | 0 | 1 | 0 |
| 10:50 - 11:00 | 1 | 12 | 90 | 35 | 11 | 0 | 2 | 1 |
| 11:00 - 11:10 | 2 | 10 | 88 | 23 | 5 | 0 | 3 | 0 |
| 11:10 - 11:20 | 3 | 11 | 83 | 33 | 5 | 0 | 4 | 0 |
| 11:20 - 11:30 | 0 | 8 | 96 | 23 | 2 | 0 | 1 | 0 |
| 11:30 - 11:40 | 4 | 8 | 96 | 22 | 5 | 0 | 0 | 0 |
| 11:40 - 11:50 | 1 | 15 | 96 | 35 | 4 | 0 | 0 | 0 |
| 11:50 - 12:00 | 1 | 12 | 106 | 28 | 5 | 0 | 1 | 0 |
| 12:00 - 12:10 | 0 | 8 | 109 | 22 | 7 | 0 | 3 | 0 |
| 12:10 - 11:20 | 1 | 7 | 119 | 27 | 7 | 0 | 5 | 0 |
| 12:20 - 12:30 | 2 | 9 | 102 | 32 | 3 | 0 | 1 | 0 |
| 12:30 - 12:40 | 1 | 11 | 118 | 32 | 2 | 0 | 1 | 0 |
| 12:40 - 12:50 | 0 | 11 | 103 | 25 | 7 | 0 | 6 | 0 |
| 12:50 - 13:00 | 2 | 7 | 97 | 26 | 2 | 0 | 3 | 0 |
| 13:00 - 13:10 | 1 | 8 | 73 | 25 | 2 | 0 | 0 | 0 |
| 13:10 - 13:20 | 5 | 12 | 71 | 25 | 1 | 0 | 2 | 0 |
| 13:20 - 13:30 | 1 | 6 | 99 | 26 | 8 | 0 | 2 | 0 |
| 13:30 - 13:40 | 1 | 8 | 119 | 35 | 1 | 0 | 0 | 0 |
| 13:40 - 13:50 | 4 | 13 | 101 | 15 | 2 | 0 | 4 | 0 |
| 13:50 - 14:00 | 3 | 10 | 111 | 25 | 2 | 0 | 2 | 0 |
| 14:00 - 14:10 | 4 | 8 | 128 | 21 | 6 | 0 | 0 | 0 |
| 14:10 - 14:20 | 4 | 14 | 121 | 27 | 4 | 0 | 0 | 0 |
| 14:20 - 14:30 | 4 | 11 | 106 | 31 | 4 | 0 | 0 | 0 |
| 14:30 - 14:40 | 2 | 8 | 101 | 25 | 4 | 0 | 3 | 2 |
| 14:40 - 14:50 | 1 | 7 | 105 | 36 | 4 | 0 | 0 | 0 |
| 14:50 - 15:00 | 1 | 10 | 84 | 27 | 2 | 0 | 1 | 0 |
| 15:00 - 15:10 | 3 | 9 | 135 | 35 | 3 | 0 | 1 | 0 |
| 15:10 - 15:20 | 1 | 11 | 78 | 25 | 3 | 0 | 2 | 0 |
| 15:20 - 15:30 | 5 | 11 | 94 | 28 | 5 | 0 | 2 | 0 |
| 15:30 - 15:40 | 3 | 13 | 118 | 23 | 2 | 0 | 0 | 0 |
| 15:40 - 15:50 | 3 | 10 | 79 | 40 | 2 | 0 | 1 | 0 |
| 15:50 - 16:00 | 7 | 10 | 95 | 34 | 6 | 0 | 3 | 0 |
| 16:00 - 16:10 | 2 | 9 | 90 | 23 | 4 | 0 | 2 | 0 |
| 16:10 - 16:20 | 1 | 9 | 88 | 31 | 8 | 0 | 4 | 1 |
| 16:20 - 16:30 | 3 | 16 | 95 | 39 | 3 | 0 | 3 | 1 |
| 16:30 - 16:40 | 3 | 9 | 105 | 20 | 4 | 0 | 3 | 0 |
| 16:40 - 16:50 | 1 | 24 | 98 | 32 | 1 | 0 | 0 | 0 |
| 16:50 - 17:00 | 2 | 7 | 112 | 43 | 12 | 0 | 3 | 0 |
| 17:00 - 17:10 | 1 | 11 | 94 | 29 | 6 | 0 | 1 | 0 |
| 17:10 - 17:20 | 0 | 5 | 118 | 50 | 7 | 0 | 0 | 0 |
| 17:20 - 17:30 | 2 | 8 | 93 | 15 | 5 | 0 | 0 | 0 |
| 17:30 - 17:40 | 1 | 4 | 104 | 29 | 3 | 0 | 0 | 0 |
| 17:40 - 17:50 | 1 | 7 | 122 | 32 | 3 | 0 | 0 | 1 |
| 17:50 - 18:00 | 0 | 6 | 110 | 32 | 8 | 0 | 0 | 1 |
| 18:00 - 18:10 | 2 | 9 | 87 | 38 | 4 | 1 | 0 | 0 |
| 18:10 - 18:20 | 2 | 8 | 87 | 21 | 5 | 0 | 0 | 0 |
| 18:20 - 18:30 | 1 | 10 | 78 | 37 | 4 | 0 | 0 | 0 |
| 18:30 - 18:40 | 1 | 21 | 76 | 29 | 3 | 0 | 0 | 1 |
| 18:40 - 18:50 | 3 | 8 | 76 | 15 | 6 | 0 | 2 | 0 |
| 18:50 - 19:00 | 0 | 9 | 78 | 37 | 2 | 0 | 2 | 2 |



## DIRECTIONAL TRAFFIC COUNT

DATE 18/11/2017
LOCATION SC02
DIRECTION **CHIJANZA**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 7:00 - 7:10 | 2 | 4 | 45 | 50 | 3 | 0 | 2 | 0 |
| 7:10 - 7:20 | 1 | 5 | 52 | 55 | 0 | 0 | 0 | 0 |
| 7:20 - 7:30 | 2 | 5 | 62 | 44 | 3 | 0 | 2 | 0 |
| 7:30 - 7:40 | 1 | 7 | 56 | 49 | 6 | 0 | 5 | 0 |
| 7:40 - 7:50 | 0 | 6 | 77 | 49 | 5 | 0 | 1 | 0 |
| 7:50 - 8:00 | 1 | 7 | 75 | 50 | 1 | 0 | 3 | 0 |
| 8:00 - 8:10 | 2 | 6 | 66 | 44 | 6 | 0 | 3 | 1 |
| 8:10 - 8:20 | 0 | 8 | 59 | 40 | 1 | 0 | 1 | 0 |
| 8:20 - 8:30 | 2 | 4 | 78 | 32 | 1 | 0 | 2 | 0 |
| 8:30 - 8:40 | 1 | 6 | 47 | 55 | 5 | 0 | 3 | 0 |
| 8:40 - 8:50 | 0 | 8 | 70 | 39 | 5 | 0 | 4 | 0 |
| 8:50 - 9:00 | 1 | 5 | 72 | 43 | 7 | 0 | 5 | 0 |
| 9:00 - 9:10 | 1 | 10 | 66 | 41 | 6 | 1 | 1 | 0 |
| 9:10 - 9:20 | 5 | 5 | 74 | 36 | 3 | 1 | 3 | 0 |
| 9:20 - 9:30 | 2 | 7 | 78 | 47 | 1 | 0 | 0 | 0 |
| 9:30 - 9:40 | 1 | 3 | 65 | 32 | 10 | 0 | 0 | 0 |
| 9:40 - 9:50 | 2 | 5 | 55 | 31 | 5 | 1 | 1 | 0 |
| 9:50 - 10:00 | 2 | 10 | 74 | 28 | 2 | 1 | 2 | 0 |
| 10:00 - 10:10 | 0 | 17 | 72 | 44 | 1 | 1 | 3 | 0 |
| 10:10 - 10:20 | 2 | 2 | 78 | 40 | 9 | 1 | 6 | 0 |
| 10:20 - 10:30 | 1 | 10 | 73 | 38 | 5 | 1 | 2 | 0 |
| 10:30 - 10:40 | 2 | 12 | 87 | 31 | 7 | 1 | 2 | 0 |
| 10:40 - 10:50 | 2 | 5 | 81 | 27 | 3 | 1 | 3 | 0 |
| 10:50 - 11:00 | 1 | 11 | 72 | 23 | 3 | 0 | 2 | 0 |
| 11:00 - 11:10 | 1 | 10 | 85 | 33 | 4 | 0 | 3 | 1 |
| 11:10 - 11:20 | 3 | 13 | 67 | 42 | 6 | 0 | 2 | 0 |
| 11:20 - 11:30 | 5 | 8 | 85 | 32 | 14 | 0 | 5 | 0 |
| 11:30 - 11:40 | 4 | 11 | 116 | 46 | 3 | 0 | 4 | 0 |
| 11:40 - 11:50 | 1 | 3 | 74 | 26 | 2 | 0 | 2 | 0 |
| 11:50 - 12:00 | 3 | 9 | 75 | 37 | 8 | 0 | 1 | 0 |
| 12:00 - 12:10 | 3 | 12 | 85 | 32 | 6 | 0 | 0 | 1 |
| 12:10 - 11:20 | 3 | 10 | 85 | 29 | 6 | 0 | 1 | 1 |
| 12:20 - 12:30 | 0 | 9 | 93 | 35 | 5 | 0 | 0 | 1 |
| 12:30 - 12:40 | 0 | 10 | 62 | 31 | 7 | 0 | 3 | 0 |
| 12:40 - 12:50 | 1 | 10 | 93 | 24 | 5 | 0 | 1 | 0 |
| 12:50 - 13:00 | 5 | 7 | 80 | 25 | 6 | 0 | 1 | 0 |
| 13:00 - 13:10 | 0 | 8 | 74 | 33 | 1 | 2 | 1 | 0 |
| 13:10 - 13:20 | 0 | 8 | 70 | 30 | 3 | 0 | 4 | 0 |
| 13:20 - 13:30 | 2 | 12 | 88 | 34 | 7 | 1 | 1 | 0 |
| 13:30 - 13:40 | 2 | 10 | 82 | 25 | 2 | 0 | 1 | 0 |
| 13:40 - 13:50 | 3 | 10 | 94 | 34 | 2 | 0 | 0 | 1 |
| 13:50 - 14:00 | 3 | 7 | 94 | 32 | 7 | 0 | 4 | 0 |
| 14:00 - 14:10 | 1 | 12 | 77 | 30 | 5 | 0 | 1 | 0 |
| 14:10 - 14:20 | 2 | 8 | 91 | 37 | 6 | 1 | 3 | 0 |
| 14:20 - 14:30 | 1 | 7 | 72 | 15 | 4 | 0 | 2 | 0 |
| 14:30 - 14:40 | 3 | 9 | 49 | 19 | 3 | 0 | 1 | 0 |
| 14:40 - 14:50 | 1 | 9 | 82 | 37 | 7 | 0 | 0 | 0 |
| 14:50 - 15:00 | 1 | 9 | 99 | 39 | 4 | 1 | 1 | 0 |
| 15:00 - 15:10 | 1 | 11 | 75 | 31 | 2 | 0 | 1 | 0 |
| 15:10 - 15:20 | 0 | 15 | 92 | 30 | 3 | 0 | 1 | 0 |
| 15:20 - 15:30 | 1 | 13 | 90 | 26 | 3 | 0 | 2 | 0 |
| 15:30 - 15:40 | 2 | 10 | 83 | 29 | 3 | 0 | 2 | 1 |
| 15:40 - 15:50 | 1 | 9 | 90 | 27 | 5 | 0 | 2 | 0 |
| 15:50 - 16:00 | 3 | 2 | 62 | 31 | 6 | 0 | 1 | 0 |
| 16:00 - 16:10 | 0 | 5 | 81 | 30 | 4 | 0 | 3 | 0 |
| 16:10 - 16:20 | 0 | 15 | 85 | 32 | 6 | 0 | 1 | 0 |
| 16:20 - 16:30 | 1 | 7 | 77 | 30 | 3 | 0 | 0 | 1 |
| 16:30 - 16:40 | 0 | 15 | 87 | 43 | 3 | 0 | 3 | 0 |
| 16:40 - 16:50 | 2 | 8 | 99 | 42 | 1 | 0 | 3 | 0 |
| 16:50 - 17:00 | 2 | 8 | 50 | 32 | 0 | 0 | 1 | 0 |
| 17:00 - 17:10 | 0 | 8 | 73 | 29 | 2 | 1 | 2 | 0 |
| 17:10 - 17:20 | 2 | 7 | 69 | 21 | 4 | 0 | 3 | 0 |
| 17:20 - 17:30 | 4 | 2 | 92 | 22 | 3 | 1 | 1 | 0 |
| 17:30 - 17:40 | 0 | 6 | 84 | 41 | 2 | 1 | 2 | 0 |
| 17:40 - 17:50 | 1 | 7 | 59 | 26 | 5 | 0 | 1 | 0 |
| 17:50 - 18:00 | 2 | 6 | 71 | 40 | 2 | 1 | 1 | 0 |
| 18:00 - 18:10 | 1 | 7 | 61 | 36 | 5 | 1 | 0 | 0 |
| 18:10 - 18:20 | 5 | 7 | 71 | 24 | 4 | 1 | 2 | 0 |
| 18:20 - 18:30 | 1 | 7 | 75 | 22 | 2 | 0 | 3 | 1 |
| 18:30 - 18:40 | 3 | 10 | 61 | 23 | 3 | 0 | 1 | 1 |
| 18:40 - 18:50 | 2 | 7 | 78 | 22 | 1 | 1 | 0 | 0 |
| 18:50 - 19:00 | 2 | 11 | 67 | 13 | 3 | 0 | 0 | 0 |

## DIRECTIONAL TRAFFIC COUNT

DATE 18/11/2017
LOCATION SC02
DIRECTION **MCHINJI**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 7:00 - 7:10 | 1 | 2 | 46 | 34 | 1 | 2 | 1 | 0 |
| 7:10 - 7:20 | 3 | 7 | 66 | 28 | 2 | 0 | 2 | 0 |
| 7:20 - 7:30 | 2 | 5 | 69 | 28 | 4 | 0 | 2 | 0 |
| 7:30 - 7:40 | 1 | 2 | 72 | 23 | 6 | 0 | 1 | 0 |
| 7:40 - 7:50 | 4 | 3 | 69 | 37 | 5 | 0 | 3 | 0 |
| 7:50 - 8:00 | 1 | 5 | 73 | 28 | 1 | 0 | 2 | 0 |
| 8:00 - 8:10 | 3 | 3 | 77 | 30 | 2 | 1 | 0 | 0 |
| 8:10 - 8:20 | 3 | 8 | 107 | 36 | 7 | 0 | 3 | 0 |
| 8:20 - 8:30 | 3 | 9 | 69 | 23 | 5 | 0 | 1 | 1 |
| 8:30 - 8:40 | 3 | 7 | 89 | 43 | 13 | 1 | 1 | 0 |
| 8:40 - 8:50 | 5 | 5 | 95 | 30 | 4 | 0 | 3 | 0 |
| 8:50 - 9:00 | 0 | 6 | 68 | 32 | 4 | 1 | 1 | 1 |
| 9:00 - 9:10 | 2 | 5 | 92 | 38 | 3 | 1 | 1 | 0 |
| 9:10 - 9:20 | 0 | 10 | 120 | 26 | 5 | 0 | 3 | 1 |
| 9:20 - 9:30 | 1 | 5 | 95 | 33 | 7 | 0 | 1 | 1 |
| 9:30 - 9:40 | 1 | 7 | 83 | 35 | 7 | 2 | 3 | 1 |
| 9:40 - 9:50 | 2 | 14 | 91 | 37 | 8 | 0 | 4 | 1 |
| 9:50 - 10:00 | 4 | 5 | 74 | 39 | 7 | 0 | 3 | 1 |
| 10:00 - 10:10 | 3 | 14 | 77 | 18 | 5 | 1 | 4 | 1 |
| 10:10 - 10:20 | 2 | 10 | 108 | 33 | 5 | 3 | 1 | 2 |
| 10:20 - 10:30 | 0 | 21 | 117 | 35 | 6 | 1 | 0 | 1 |
| 10:30 - 10:40 | 0 | 16 | 120 | 38 | 2 | 1 | 1 | 1 |
| 10:40 - 10:50 | 2 | 9 | 96 | 36 | 6 | 1 | 0 | 0 |
| 10:50 - 11:00 | 1 | 12 | 120 | 38 | 1 | 0 | 3 | 0 |
| 11:00 - 11:10 | 1 | 11 | 85 | 12 | 9 | 1 | 1 | 0 |
| 11:10 - 11:20 | 1 | 11 | 77 | 31 | 5 | 1 | 5 | 0 |
| 11:20 - 11:30 | 3 | 8 | 93 | 25 | 4 | 0 | 0 | 0 |
| 11:30 - 11:40 | 3 | 6 | 118 | 37 | 6 | 1 | 1 | 0 |
| 11:40 - 11:50 | 1 | 6 | 75 | 22 | 5 | 2 | 3 | 0 |
| 11:50 - 12:00 | 4 | 5 | 91 | 26 | 4 | 0 | 2 | 2 |
| 12:00 - 12:10 | 3 | 7 | 110 | 29 | 8 | 0 | 1 | 1 |
| 12:10 - 11:20 | 3 | 12 | 104 | 26 | 7 | 1 | 2 | 0 |
| 12:20 - 12:30 | 0 | 8 | 76 | 20 | 5 | 0 | 4 | 1 |
| 12:30 - 12:40 | 1 | 9 | 117 | 25 | 8 | 1 | 4 | 0 |
| 12:40 - 12:50 | 1 | 10 | 89 | 38 | 9 | 0 | 7 | 0 |
| 12:50 - 13:00 | 0 | 5 | 64 | 18 | 5 | 0 | 1 | 0 |
| 13:00 - 13:10 | 0 | 10 | 115 | 29 | 5 | 1 | 1 | 1 |
| 13:10 - 13:20 | 3 | 4 | 105 | 28 | 6 | 0 | 2 | 2 |
| 13:20 - 13:30 | 2 | 8 | 127 | 28 | 4 | 0 | 0 | 0 |
| 13:30 - 13:40 | 3 | 16 | 107 | 22 | 3 | 1 | 2 | 1 |
| 13:40 - 13:50 | 3 | 10 | 88 | 36 | 3 | 0 | 2 | 1 |
| 13:50 - 14:00 | 3 | 14 | 128 | 34 | 3 | 1 | 2 | 1 |
| 14:00 - 14:10 | 2 | 11 | 81 | 44 | 7 | 0 | 2 | 0 |
| 14:10 - 14:20 | 2 | 8 | 118 | 30 | 4 | 2 | 3 | 1 |
| 14:20 - 14:30 | 1 | 11 | 108 | 22 | 5 | 0 | 1 | 1 |
| 14:30 - 14:40 | 1 | 12 | 143 | 42 | 4 | 0 | 0 | 1 |
| 14:40 - 14:50 | 1 | 15 | 122 | 26 | 5 | 2 | 2 | 0 |
| 14:50 - 15:00 | 0 | 9 | 105 | 45 | 11 | 0 | 3 | 1 |
| 15:00 - 15:10 | 0 | 10 | 101 | 23 | 6 | 0 | 5 | 0 |
| 15:10 - 15:20 | 2 | 8 | 87 | 29 | 5 | 0 | 1 | 0 |
| 15:20 - 15:30 | 1 | 3 | 98 | 39 | 3 | 0 | 2 | 0 |
| 15:30 - 15:40 | 1 | 10 | 88 | 41 | 2 | 0 | 1 | 0 |
| 15:40 - 15:50 | 0 | 11 | 116 | 20 | 6 | 0 | 0 | 1 |
| 15:50 - 16:00 | 0 | 12 | 102 | 24 | 3 | 1 | 2 | 0 |
| 16:00 - 16:10 | 0 | 6 | 102 | 39 | 4 | 1 | 2 | 1 |
| 16:10 - 16:20 | 0 | 1 | 107 | 32 | 6 | 0 | 3 | 0 |
| 16:20 - 16:30 | 0 | 8 | 99 | 20 | 3 | 0 | 6 | 0 |
| 16:30 - 16:40 | 1 | 3 | 127 | 34 | 1 | 1 | 4 | 0 |
| 16:40 - 16:50 | 2 | 9 | 91 | 30 | 4 | 0 | 2 | 0 |
| 16:50 - 17:00 | 1 | 10 | 83 | 20 | 6 | 0 | 4 | 0 |
| 17:00 - 17:10 | 0 | 14 | 119 | 31 | 3 | 0 | 1 | 0 |
| 17:10 - 17:20 | 1 | 6 | 110 | 38 | 4 | 0 | 0 | 0 |
| 17:20 - 17:30 | 1 | 1 | 85 | 61 | 1 | 0 | 1 | 0 |
| 17:30 - 17:40 | 1 | 5 | 112 | 56 | 3 | 0 | 0 | 0 |
| 17:40 - 17:50 | 0 | 5 | 110 | 41 | 2 | 1 | 1 | 1 |
| 17:50 - 18:00 | 1 | 7 | 111 | 43 | 4 | 0 | 1 | 0 |
| 18:00 - 18:10 | 1 | 6 | 102 | 38 | 6 | 0 | 1 | 0 |
| 18:10 - 18:20 | 1 | 13 | 95 | 35 | 4 | 0 | 0 | 2 |
| 18:20 - 18:30 | 1 | 5 | 105 | 45 | 5 | 1 | 0 | 3 |
| 18:30 - 18:40 | 0 | 10 | 120 | 39 | 2 | 0 | 2 | 1 |
| 18:40 - 18:50 | 1 | 7 | 104 | 44 | 8 | 0 | 1 | 0 |
| 18:50 - 19:00 | 2 | 11 | 90 | 30 | 2 | 0 | 0 | 0 |



## DIRECTIONAL TRAFFIC COUNT

DATE 19/11/2017
LOCATION SC02
DIRECTION **CHIJANZA**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 7:00 - 7:10 | 0 | 3 | 33 | 31 | 0 | 0 | 0 | 0 |
| 7:10 - 7:20 | 0 | 4 | 45 | 46 | 2 | 0 | 0 | 0 |
| 7:20 - 7:30 | 0 | 2 | 39 | 37 | 2 | 0 | 1 | 0 |
| 7:30 - 7:40 | 1 | 3 | 42 | 33 | 0 | 0 | 1 | 0 |
| 7:40 - 7:50 | 0 | 4 | 38 | 17 | 0 | 0 | 1 | 0 |
| 7:50 - 8:00 | 0 | 3 | 51 | 34 | 0 | 0 | 0 | 0 |
| 8:00 - 8:10 | 0 | 1 | 54 | 31 | 1 | 0 | 0 | 0 |
| 8:10 - 8:20 | 2 | 3 | 55 | 34 | 0 | 0 | 0 | 0 |
| 8:20 - 8:30 | 0 | 5 | 49 | 45 | 2 | 0 | 1 | 1 |
| 8:30 - 8:40 | 1 | 12 | 69 | 26 | 3 | 0 | 0 | 0 |
| 8:40 - 8:50 | 0 | 6 | 77 | 37 | 4 | 0 | 3 | 1 |
| 8:50 - 9:00 | 0 | 4 | 40 | 29 | 0 | 0 | 2 | 1 |
| 9:00 - 9:10 | 2 | 3 | 74 | 45 | 2 | 0 | 2 | 1 |
| 9:10 - 9:20 | 0 | 2 | 68 | 29 | 1 | 0 | 2 | 0 |
| 9:20 - 9:30 | 1 | 3 | 65 | 32 | 2 | 0 | 0 | 0 |
| 9:30 - 9:40 | 0 | 6 | 76 | 30 | 2 | 0 | 0 | 0 |
| 9:40 - 9:50 | 1 | 2 | 75 | 35 | 0 | 0 | 0 | 1 |
| 9:50 - 10:00 | 0 | 8 | 101 | 38 | 2 | 0 | 0 | 0 |
| 10:00 - 10:10 | 1 | 8 | 91 | 33 | 2 | 0 | 0 | 0 |
| 10:10 - 10:20 | 1 | 4 | 6 | 28 | 3 | 0 | 0 | 0 |
| 10:20 - 10:30 | 1 | 7 | 83 | 26 | 5 | 1 | 0 | 0 |
| 10:30 - 10:40 | 2 | 4 | 51 | 20 | 2 | 1 | 0 | 0 |
| 10:40 - 10:50 | 0 | 6 | 116 | 31 | 1 | 0 | 1 | 0 |
| 10:50 - 11:00 | 1 | 8 | 85 | 52 | 1 | 0 | 0 | 0 |
| 11:00 - 11:10 | 0 | 3 | 77 | 41 | 2 | 0 | 2 | 0 |
| 11:10 - 11:20 | 2 | 4 | 81 | 35 | 0 | 0 | 0 | 0 |
| 11:20 - 11:30 | 2 | 5 | 70 | 29 | 1 | 0 | 1 | 0 |
| 11:30 - 11:40 | 0 | 3 | 86 | 34 | 0 | 0 | 0 | 0 |
| 11:40 - 11:50 | 1 | 7 | 79 | 30 | 3 | 0 | 1 | 0 |
| 11:50 - 12:00 | 1 | 4 | 111 | 25 | 1 | 0 | 1 | 0 |
| 12:00 - 12:10 | 1 | 6 | 74 | 37 | 1 | 0 | 0 | 0 |
| 12:10 - 11:20 | 1 | 9 | 86 | 22 | 3 | 0 | 0 | 0 |
| 12:20 - 12:30 | 0 | 7 | 103 | 32 | 2 | 0 | 0 | 0 |
| 12:30 - 12:40 | 0 | 7 | 96 | 36 | 4 | 0 | 0 | 0 |
| 12:40 - 12:50 | 0 | 6 | 101 | 41 | 1 | 0 | 2 | 0 |
| 12:50 - 13:00 | 0 | 3 | 72 | 29 | 1 | 0 | 0 | 1 |
| 13:00 - 13:10 | 0 | 6 | 81 | 26 | 0 | 1 | 0 | 0 |
| 13:10 - 13:20 | 0 | 7 | 95 | 44 | 0 | 1 | 0 | 0 |
| 13:20 - 13:30 | 0 | 1 | 53 | 28 | 1 | 0 | 1 | 0 |
| 13:30 - 13:40 | 0 | 5 | 67 | 32 | 1 | 0 | 0 | 1 |
| 13:40 - 13:50 | 0 | 9 | 60 | 34 | 0 | 0 | 0 | 1 |
| 13:50 - 14:00 | 3 | 3 | 74 | 33 | 1 | 1 | 1 | 0 |
| 14:00 - 14:10 | 2 | 10 | 54 | 60 | 3 | 0 | 1 | 0 |
| 14:10 - 14:20 | 1 | 8 | 70 | 41 | 7 | 0 | 2 | 0 |
| 14:20 - 14:30 | 2 | 10 | 62 | 38 | 2 | 0 | 2 | 0 |
| 14:30 - 14:40 | 2 | 13 | 88 | 34 | 1 | 0 | 0 | 0 |
| 14:40 - 14:50 | 4 | 6 | 76 | 25 | 1 | 1 | 2 | 0 |
| 14:50 - 15:00 | 0 | 4 | 79 | 27 | 1 | 0 | 1 | 0 |
| 15:00 - 15:10 | 1 | 10 | 76 | 31 | 1 | 0 | 1 | 0 |
| 15:10 - 15:20 | 0 | 6 | 78 | 34 | 1 | 0 | 1 | 0 |
| 15:20 - 15:30 | 2 | 2 | 62 | 27 | 2 | 1 | 0 | 0 |
| 15:30 - 15:40 | 4 | 4 | 57 | 25 | 0 | 0 | 1 | 0 |
| 15:40 - 15:50 | 1 | 9 | 63 | 42 | 1 | 0 | 0 | 0 |
| 15:50 - 16:00 | 0 | 7 | 83 | 36 | 1 | 0 | 2 | 0 |
| 16:00 - 16:10 | 0 | 8 | 64 | 37 | 2 | 0 | 0 | 0 |
| 16:10 - 16:20 | 1 | 3 | 55 | 31 | 2 | 0 | 1 | 0 |
| 16:20 - 16:30 | 1 | 1 | 66 | 30 | 1 | 0 | 0 | 0 |
| 16:30 - 16:40 | 1 | 0 | 46 | 35 | 2 | 0 | 0 | 0 |
| 16:40 - 16:50 | 4 | 7 | 82 | 43 | 1 | 0 | 1 | 0 |
| 16:50 - 17:00 | 2 | 5 | 61 | 24 | 2 | 0 | 0 | 0 |
| 17:00 - 17:10 | 2 | 8 | 104 | 41 | 0 | 0 | 0 | 0 |
| 17:10 - 17:20 | 3 | 12 | 108 | 29 | 0 | 0 | 0 | 0 |
| 17:20 - 17:30 | 0 | 5 | 99 | 60 | 5 | 0 | 1 | 0 |
| 17:30 - 17:40 | 1 | 7 | 83 | 47 | 4 | 0 | 0 | 0 |
| 17:40 - 17:50 | 6 | 23 | 95 | 1 | 6 | 1 | 1 | 0 |
| 17:50 - 18:00 | 9 | 15 | 131 | 1 | 2 | 1 | 0 | 0 |
| 18:00 - 18:10 | 1 | 6 | 77 | 30 | 5 | 0 | 0 | 0 |
| 18:10 - 18:20 | 0 | 1 | 70 | 27 | 1 | 0 | 0 | 0 |
| 18:20 - 18:30 | 0 | 6 | 73 | 25 | 2 | 0 | 0 | 0 |
| 18:30 - 18:40 | 2 | 4 | 55 | 26 | 0 | 0 | 1 | 0 |
| 18:40 - 18:50 | 1 | 6 | 103 | 36 | 2 | 0 | 1 | 0 |
| 18:50 - 19:00 | 6 | 9 | 95 | 28 | 5 | 0 | 0 | 1 |

A-201

## DIRECTIONAL TRAFFIC COUNT

DATE 19/11/2017
LOCATION SC02
DIRECTION **MCHINJI**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 7:00 - 7:10 | 0 | 1 | 34 | 22 | 4 | 0 | 0 | 1 |
| 7:10 - 7:20 | 0 | 1 | 27 | 24 | 4 | 0 | 2 | 0 |
| 7:20 - 7:30 | 2 | 5 | 36 | 29 | 1 | 0 | 0 | 0 |
| 7:30 - 7:40 | 2 | 5 | 50 | 29 | 2 | 1 | 2 | 2 |
| 7:40 - 7:50 | 0 | 3 | 45 | 17 | 3 | 0 | 0 | 0 |
| 7:50 - 8:00 | 1 | 2 | 48 | 28 | 2 | 0 | 1 | 1 |
| 8:00 - 8:10 | 0 | 6 | 49 | 25 | 1 | 1 | 1 | 0 |
| 8:10 - 8:20 | 0 | 1 | 30 | 19 | 1 | 0 | 0 | 0 |
| 8:20 - 8:30 | 2 | 7 | 49 | 21 | 3 | 0 | 1 | 0 |
| 8:30 - 8:40 | 2 | 5 | 60 | 34 | 2 | 0 | 1 | 0 |
| 8:40 - 8:50 | 2 | 8 | 52 | 27 | 2 | 0 | 0 | 0 |
| 8:50 - 9:00 | 1 | 1 | 65 | 29 | 3 | 0 | 0 | 0 |
| 9:00 - 9:10 | 0 | 7 | 67 | 24 | 0 | 0 | 2 | 0 |
| 9:10 - 9:20 | 0 | 4 | 48 | 26 | 3 | 0 | 3 | 0 |
| 9:20 - 9:30 | 2 | 4 | 89 | 26 | 4 | 0 | 0 | 0 |
| 9:30 - 9:40 | 3 | 8 | 79 | 28 | 0 | 0 | 0 | 0 |
| 9:40 - 9:50 | 2 | 9 | 53 | 27 | 3 | 0 | 2 | 0 |
| 9:50 - 10:00 | 0 | 3 | 60 | 28 | 0 | 0 | 3 | 0 |
| 10:00 - 10:10 | 0 | 8 | 93 | 20 | 1 | 0 | 1 | 0 |
| 10:10 - 10:20 | 1 | 3 | 83 | 30 | 3 | 0 | 1 | 0 |
| 10:20 - 10:30 | 3 | 2 | 94 | 21 | 1 | 0 | 1 | 1 |
| 10:30 - 10:40 | 0 | 6 | 96 | 30 | 3 | 0 | 0 | 0 |
| 10:40 - 10:50 | 1 | 5 | 65 | 36 | 0 | 0 | 2 | 0 |
| 10:50 - 11:00 | 1 | 4 | 82 | 21 | 4 | 0 | 1 | 0 |
| 11:00 - 11:10 | 2 | 4 | 98 | 19 | 0 | 0 | 1 | 0 |
| 11:10 - 11:20 | 1 | 8 | 80 | 28 | 1 | 0 | 0 | 0 |
| 11:20 - 11:30 | 2 | 6 | 99 | 20 | 0 | 0 | 0 | 0 |
| 11:30 - 11:40 | 0 | 7 | 98 | 20 | 3 | 0 | 0 | 0 |
| 11:40 - 11:50 | 0 | 1 | 93 | 17 | 1 | 0 | 0 | 0 |
| 11:50 - 12:00 | 1 | 7 | 85 | 26 | 0 | 0 | 2 | 0 |
| 12:00 - 12:10 | 0 | 5 | 88 | 18 | 1 | 0 | 0 | 0 |
| 12:10 - 11:20 | 0 | 12 | 82 | 17 | 0 | 0 | 1 | 0 |
| 12:20 - 12:30 | 0 | 9 | 75 | 26 | 1 | 0 | 1 | 0 |
| 12:30 - 12:40 | 1 | 6 | 86 | 31 | 1 | 0 | 1 | 0 |
| 12:40 - 12:50 | 0 | 6 | 85 | 27 | 2 | 1 | 1 | 0 |
| 12:50 - 13:00 | 0 | 4 | 83 | 21 | 0 | 0 | 1 | 0 |
| 13:00 - 13:10 | 0 | 8 | 80 | 28 | 4 | 0 | 0 | 0 |
| 13:10 - 13:20 | 2 | 3 | 91 | 28 | 1 | 0 | 1 | 1 |
| 13:20 - 13:30 | 2 | 10 | 93 | 30 | 3 | 0 | 2 | 1 |
| 13:30 - 13:40 | 1 | 7 | 110 | 30 | 6 | 0 | 3 | 0 |
| 13:40 - 13:50 | 5 | 10 | 93 | 37 | 6 | 0 | 2 | 1 |
| 13:50 - 14:00 | 1 | 12 | 111 | 46 | 5 | 0 | 2 | 0 |
| 14:00 - 14:10 | 3 | 8 | 130 | 45 | 5 | 1 | 0 | 0 |
| 14:10 - 14:20 | 0 | 7 | 123 | 44 | 2 | 0 | 0 | 1 |
| 14:20 - 14:30 | 5 | 8 | 118 | 40 | 5 | 0 | 2 | 0 |
| 14:30 - 14:40 | 2 | 9 | 132 | 52 | 6 | 0 | 4 | 0 |
| 14:40 - 14:50 | 0 | 8 | 117 | 31 | 4 | 0 | 3 | 0 |
| 14:50 - 15:00 | 3 | 3 | 98 | 33 | 5 | 0 | 1 | 0 |
| 15:00 - 15:10 | 1 | 6 | 78 | 33 | 2 | 0 | 2 | 0 |
| 15:10 - 15:20 | 2 | 7 | 85 | 24 | 4 | 0 | 2 | 1 |
| 15:20 - 15:30 | 1 | 9 | 97 | 29 | 5 | 0 | 2 | 0 |
| 15:30 - 15:40 | 2 | 4 | 85 | 34 | 2 | 0 | 0 | 1 |
| 15:40 - 15:50 | 1 | 4 | 78 | 27 | 1 | 0 | 2 | 1 |
| 15:50 - 16:00 | 2 | 9 | 102 | 33 | 2 | 0 | 3 | 0 |
| 16:00 - 16:10 | 0 | 4 | 81 | 29 | 1 | 0 | 0 | 0 |
| 16:10 - 16:20 | 0 | 5 | 78 | 49 | 2 | 0 | 0 | 0 |
| 16:20 - 16:30 | 0 | 6 | 62 | 42 | 3 | 0 | 0 | 0 |
| 16:30 - 16:40 | 1 | 3 | 72 | 39 | 2 | 0 | 0 | 0 |
| 16:40 - 16:50 | 0 | 3 | 71 | 37 | 0 | 0 | 0 | 0 |
| 16:50 - 17:00 | 0 | 5 | 74 | 37 | 3 | 0 | 0 | 0 |
| 17:00 - 17:10 | 0 | 8 | 70 | 33 | 0 | 0 | 0 | 0 |
| 17:10 - 17:20 | 0 | 5 | 77 | 27 | 0 | 0 | 2 | 0 |
| 17:20 - 17:30 | 0 | 4 | 80 | 37 | 0 | 0 | 1 | 0 |
| 17:30 - 17:40 | 0 | 5 | 96 | 28 | 0 | 0 | 1 | 0 |
| 17:40 - 17:50 | 1 | 5 | 55 | 31 | 2 | 0 | 0 | 0 |
| 17:50 - 18:00 | 3 | 6 | 101 | 32 | 0 | 0 | 2 | 0 |
| 18:00 - 18:10 | 1 | 6 | 82 | 42 | 1 | 0 | 1 | 0 |
| 18:10 - 18:20 | 0 | 6 | 83 | 33 | 3 | 0 | 1 | 0 |
| 18:20 - 18:30 | 1 | 7 | 96 | 28 | 0 | 0 | 1 | 0 |
| 18:30 - 18:40 | 2 | 6 | 78 | 22 | 1 | 0 | 1 | 0 |
| 18:40 - 18:50 | 1 | 2 | 89 | 18 | 4 | 0 | 1 | 0 |
| 18:50 - 19:00 | 0 | 4 | 97 | 20 | 2 | 0 | 0 | 1 |



## DIRECTIONAL TRAFFIC COUNT

DATE 20/11/2017
LOCATION SC02
DIRECTION **CHIJANZA**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 7:00 - 7:10 | 1 | 2 | 71 | 51 | 1 | 1 | 1 | 0 |
| 7:10 - 7:20 | 4 | 7 | 83 | 43 | 2 | 0 | 0 | 0 |
| 7:20 - 7:30 | 1 | 9 | 66 | 44 | 2 | 0 | 0 | 0 |
| 7:30 - 7:40 | 0 | 6 | 60 | 42 | 4 | 0 | 0 | 0 |
| 7:40 - 7:50 | 1 | 6 | 68 | 54 | 5 | 0 | 3 | 0 |
| 7:50 - 8:00 | 1 | 5 | 65 | 39 | 5 | 0 | 4 | 0 |
| 8:00 - 8:10 | 1 | 9 | 65 | 45 | 7 | 0 | 3 | 0 |
| 8:10 - 8:20 | 4 | 9 | 59 | 61 | 2 | 0 | 1 | 0 |
| 8:20 - 8:30 | 3 | 5 | 73 | 36 | 5 | 0 | 3 | 0 |
| 8:30 - 8:40 | 0 | 6 | 59 | 69 | 5 | 0 | 3 | 0 |
| 8:40 - 8:50 | 1 | 8 | 78 | 56 | 4 | 0 | 1 | 0 |
| 8:50 - 9:00 | 0 | 8 | 75 | 41 | 2 | 0 | 2 | 0 |
| 9:00 - 9:10 | 2 | 8 | 49 | 36 | 3 | 0 | 3 | 0 |
| 9:10 - 9:20 | 1 | 3 | 55 | 30 | 0 | 1 | 1 | 0 |
| 9:20 - 9:30 | 3 | 8 | 72 | 33 | 2 | 1 | 0 | 1 |
| 9:30 - 9:40 | 4 | 10 | 67 | 41 | 5 | 0 | 3 | 0 |
| 9:40 - 9:50 | 1 | 9 | 48 | 40 | 2 | 0 | 2 | 0 |
| 9:50 - 10:00 | 2 | 3 | 59 | 25 | 3 | 0 | 2 | |
| 10:00 - 10:10 | 1 | 5 | 68 | 38 | 4 | 0 | 0 | 0 |
| 10:10 - 10:20 | 4 | 13 | 65 | 39 | 5 | 0 | 3 | 1 |
| 10:20 - 10:30 | 4 | 10 | 68 | 31 | 6 | 0 | 4 | 0 |
| 10:30 - 10:40 | 1 | 10 | 75 | 32 | 2 | 0 | 2 | 0 |
| 10:40 - 10:50 | 3 | 12 | 55 | 31 | 5 | 0 | 2 | 0 |
| 10:50 - 11:00 | 1 | 7 | 84 | 33 | 5 | 0 | 1 | 0 |
| 11:00 - 11:10 | 7 | 7 | 74 | 40 | 2 | 0 | 2 | 0 |
| 11:10 - 11:20 | 2 | 7 | 70 | 40 | 7 | 0 | 2 | 0 |
| 11:20 - 11:30 | 2 | 15 | 100 | 36 | 6 | 0 | 5 | 0 |
| 11:30 - 11:40 | 2 | 7 | 96 | 21 | 7 | 0 | 0 | 0 |
| 11:40 - 11:50 | 3 | 6 | 80 | 42 | 7 | 0 | 3 | 0 |
| 11:50 - 12:00 | 2 | 11 | 63 | 32 | 2 | 0 | 1 | 0 |
| 12:00 - 12:10 | 1 | 7 | 92 | 26 | 11 | 0 | 2 | 0 |
| 12:10 - 11:20 | 4 | 9 | 98 | 30 | 11 | 1 | 1 | 0 |
| 12:20 - 12:30 | 2 | 16 | 100 | 24 | 8 | 0 | 1 | 0 |
| 12:30 - 12:40 | 4 | 6 | 78 | 36 | 5 | 0 | 2 | 0 |
| 12:40 - 12:50 | 2 | 4 | 123 | 25 | 5 | 0 | 2 | 1 |
| 12:50 - 13:00 | 1 | 10 | 110 | 28 | 2 | 0 | 1 | 0 |
| 13:00 - 13:10 | 0 | 8 | 82 | 32 | 5 | 0 | 3 | 0 |
| 13:10 - 13:20 | 0 | 10 | 93 | 29 | 2 | 0 | 4 | 0 |
| 13:20 - 13:30 | 3 | 9 | 65 | 29 | 6 | 0 | 0 | 0 |
| 13:30 - 13:40 | 1 | 9 | 65 | 13 | 4 | 1 | 1 | 0 |
| 13:40 - 13:50 | 3 | 11 | 71 | 34 | 4 | 0 | 1 | 0 |
| 13:50 - 14:00 | 4 | 7 | 60 | 15 | 5 | 0 | 3 | 0 |
| 14:00 - 14:10 | 2 | 18 | 77 | 18 | 5 | 0 | 1 | 0 |
| 14:10 - 14:20 | 4 | 7 | 95 | 26 | 6 | 0 | 1 | 0 |
| 14:20 - 14:30 | 2 | 9 | 84 | 21 | 5 | 1 | 0 | 0 |
| 14:30 - 14:40 | 3 | 12 | 95 | 22 | 3 | 0 | 1 | 0 |
| 14:40 - 14:50 | 2 | 9 | 69 | 29 | 5 | 0 | 1 | 0 |
| 14:50 - 15:00 | 0 | 10 | 116 | 25 | 2 | 0 | 0 | 0 |
| 15:00 - 15:10 | 3 | 12 | 77 | 22 | 3 | 0 | 2 | 0 |
| 15:10 - 15:20 | 3 | 6 | 79 | 35 | 3 | 0 | 0 | 0 |
| 15:20 - 15:30 | 1 | 7 | 94 | 28 | 6 | 0 | 2 | 1 |
| 15:30 - 15:40 | 3 | 10 | 112 | 22 | 5 | 0 | 0 | 0 |
| 15:40 - 15:50 | 1 | 13 | 103 | 33 | 6 | 0 | 1 | 0 |
| 15:50 - 16:00 | 2 | 6 | 100 | 30 | 5 | 0 | 0 | 0 |
| 16:00 - 16:10 | 1 | 11 | 84 | 35 | 3 | 0 | 1 | 1 |
| 16:10 - 16:20 | 3 | 10 | 85 | 21 | 4 | 0 | 0 | 0 |
| 16:20 - 16:30 | 5 | 8 | 97 | 30 | 4 | 0 | 1 | 0 |
| 16:30 - 16:40 | 2 | 13 | 120 | 35 | 1 | 0 | 0 | 0 |
| 16:40 - 16:50 | 6 | 6 | 107 | 33 | 3 | 0 | 2 | 0 |
| 16:50 - 17:00 | 6 | 7 | 85 | 22 | 5 | 0 | 2 | 0 |
| 17:00 - 17:10 | 4 | 8 | 91 | 27 | 1 | 0 | 0 | 0 |
| 17:10 - 17:20 | 5 | 8 | 114 | 17 | 1 | 0 | 1 | 0 |
| 17:20 - 17:30 | 1 | 10 | 82 | 25 | 5 | 0 | 0 | 0 |
| 17:30 - 17:40 | 1 | 5 | 87 | 29 | 5 | 0 | 0 | 0 |
| 17:40 - 17:50 | 1 | 8 | 93 | 31 | 3 | 3 | 1 | 0 |
| 17:50 - 18:00 | 2 | 10 | 100 | 33 | 6 | 1 | 1 | 0 |
| 18:00 - 18:10 | 1 | 10 | 86 | 25 | 4 | 1 | 0 | 2 |
| 18:10 - 18:20 | 0 | 3 | 70 | 35 | 2 | 1 | 2 | 1 |
| 18:20 - 18:30 | 2 | 7 | 86 | 8 | 3 | 0 | 1 | 0 |
| 18:30 - 18:40 | 6 | 8 | 0 | 30 | 4 | 0 | 1 | 0 |
| 18:40 - 18:50 | 2 | 11 | 63 | 24 | 2 | 1 | 1 | 1 |
| 18:50 - 19:00 | 6 | 5 | 96 | 28 | 1 | 1 | 0 | 0 |

## DIRECTIONAL TRAFFIC COUNT

DATE 20/11/2017
LOCATION SC02
DIRECTION **MCHINJI**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 7:00 - 7:10 | 1 | 1 | 113 | 33 | 1 | 1 | 0 | 0 |
| 7:10 - 7:20 | 3 | 3 | 106 | 31 | 4 | 3 | 1 | 1 |
| 7:20 - 7:30 | 1 | 5 | 98 | 40 | 2 | 1 | 1 | 0 |
| 7:30 - 7:40 | 0 | 5 | 134 | 28 | 4 | 2 | 2 | 0 |
| 7:40 - 7:50 | 7 | 8 | 121 | 36 | 9 | 1 | 1 | 0 |
| 7:50 - 8:00 | 5 | 2 | 110 | 30 | 3 | 0 | 3 | 0 |
| 8:00 - 8:10 | 5 | 6 | 108 | 30 | 4 | 0 | 2 | 0 |
| 8:10 - 8:20 | 3 | 10 | 128 | 30 | 5 | 4 | 4 | 0 |
| 8:20 - 8:30 | 2 | 7 | 101 | 25 | 4 | 0 | 2 | 0 |
| 8:30 - 8:40 | 0 | 8 | 107 | 29 | 1 | 0 | 3 | 1 |
| 8:40 - 8:50 | 5 | 5 | 111 | 27 | 3 | 1 | 3 | 0 |
| 8:50 - 9:00 | 4 | 7 | 77 | 36 | 8 | 0 | 6 | 1 |
| 9:00 - 9:10 | 3 | 5 | 84 | 32 | 10 | 0 | 1 | 0 |
| 9:10 - 9:20 | 2 | 9 | 102 | 27 | 9 | 0 | 3 | 0 |
| 9:20 - 9:30 | 3 | 8 | 72 | 33 | 2 | 1 | 0 | 1 |
| 9:30 - 9:40 | 4 | 10 | 67 | 41 | 5 | 0 | 3 | 0 |
| 9:40 - 9:50 | 1 | 5 | 80 | 37 | 4 | 0 | 1 | 0 |
| 9:50 - 10:00 | 3 | 12 | 109 | 56 | 10 | 1 | 1 | 0 |
| 10:00 - 10:10 | 3 | 7 | 91 | 30 | 7 | 0 | 2 | 0 |
| 10:10 - 10:20 | 2 | 7 | 78 | 37 | 3 | 0 | 0 | 0 |
| 10:20 - 10:30 | 3 | 6 | 111 | 29 | 7 | 0 | 0 | 0 |
| 10:30 - 10:40 | 1 | 13 | 79 | 20 | 7 | 1 | 1 | 0 |
| 10:40 - 10:50 | 1 | 12 | 111 | 36 | 6 | 0 | 0 | 0 |
| 10:50 - 11:00 | 3 | 13 | 112 | 35 | 5 | 1 | 3 | 0 |
| 11:00 - 11:10 | 1 | 7 | 92 | 26 | 11 | 0 | 2 | 0 |
| 11:10 - 11:20 | 4 | 9 | 98 | 30 | 11 | 1 | 1 | 0 |
| 11:20 - 11:30 | 2 | 16 | 100 | 24 | 8 | 0 | 1 | 0 |
| 11:30 - 11:40 | 4 | 6 | 78 | 36 | 5 | 0 | 2 | 0 |
| 11:40 - 11:50 | 2 | 4 | 123 | 25 | 5 | 0 | 2 | 1 |
| 11:50 - 12:00 | 1 | 10 | 110 | 28 | 2 | 0 | 1 | 0 |
| 12:00 - 12:10 | 2 | 6 | 88 | 30 | 6 | 0 | 3 | 0 |
| 12:10 - 11:20 | 6 | 17 | 78 | 26 | 6 | 0 | 4 | 0 |
| 12:20 - 12:30 | 5 | 8 | 87 | 27 | 8 | 0 | 2 | 0 |
| 12:30 - 12:40 | 2 | 13 | 105 | 24 | 4 | 1 | 2 | 0 |
| 12:40 - 12:50 | 2 | 13 | 87 | 20 | 3 | 1 | 4 | 0 |
| 12:50 - 13:00 | 4 | 13 | 82 | 35 | 7 | 0 | 3 | 0 |
| 13:00 - 13:10 | 4 | 9 | 100 | 30 | 4 | 0 | 1 | 0 |
| 13:10 - 13:20 | 4 | 8 | 94 | 28 | 13 | 2 | 1 | 0 |
| 13:20 - 13:30 | 3 | 4 | 115 | 28 | 6 | 0 | 0 | 0 |
| 13:30 - 13:40 | 1 | 3 | 90 | 22 | 5 | 0 | 1 | 0 |
| 13:40 - 13:50 | 1 | 6 | 115 | 28 | 9 | 0 | 0 | 0 |
| 13:50 - 14:00 | 4 | 9 | 118 | 43 | 7 | 0 | 2 | 0 |
| 14:00 - 14:10 | 4 | 9 | 118 | 24 | 1 | 1 | 0 | 0 |
| 14:10 - 14:20 | 2 | 11 | 105 | 18 | 8 | 0 | 1 | 0 |
| 14:20 - 14:30 | 2 | 13 | 120 | 25 | 2 | 0 | 6 | 0 |
| 14:30 - 14:40 | 0 | 10 | 120 | 26 | 6 | 0 | 1 | 1 |
| 14:40 - 14:50 | 4 | 7 | 109 | 33 | 7 | 0 | 2 | 0 |
| 14:50 - 15:00 | 3 | 8 | 116 | 25 | 7 | 0 | 3 | 0 |
| 15:00 - 15:10 | 2 | 12 | 87 | 33 | 1 | 0 | 3 | 1 |
| 15:10 - 15:20 | 4 | 9 | 102 | 25 | 9 | 0 | 5 | 1 |
| 15:20 - 15:30 | 3 | 16 | 79 | 16 | 4 | 0 | 2 | 0 |
| 15:30 - 15:40 | 1 | 4 | 119 | 26 | 4 | 2 | 2 | 0 |
| 15:40 - 15:50 | 3 | 8 | 74 | 30 | 14 | 0 | 2 | 0 |
| 15:50 - 16:00 | 2 | 14 | 86 | 32 | 5 | 0 | 5 | 0 |
| 16:00 - 16:10 | 2 | 7 | 94 | 33 | 6 | 0 | 3 | 0 |
| 16:10 - 16:20 | 4 | 5 | 93 | 39 | 10 | 1 | 2 | 1 |
| 16:20 - 16:30 | 0 | 6 | 99 | 16 | 1 | 1 | 7 | 0 |
| 16:30 - 16:40 | 4 | 9 | 123 | 24 | 4 | 1 | 3 | 0 |
| 16:40 - 16:50 | 2 | 4 | 98 | 29 | 2 | 0 | 3 | 1 |
| 16:50 - 17:00 | 7 | 8 | 93 | 28 | 3 | 0 | 4 | 0 |
| 17:00 - 17:10 | 1 | 6 | 86 | 23 | 3 | 1 | 2 | 1 |
| 17:10 - 17:20 | 3 | 8 | 80 | 40 | 2 | 2 | 1 | 0 |
| 17:20 - 17:30 | 0 | 8 | 90 | 41 | 7 | 0 | 2 | 0 |
| 17:30 - 17:40 | 0 | 7 | 88 | 33 | 5 | 0 | 0 | 0 |
| 17:40 - 17:50 | 0 | 6 | 93 | 41 | 4 | 0 | 0 | 0 |
| 17:50 - 18:00 | 3 | 12 | 100 | 25 | 6 | 0 | 2 | 3 |
| 18:00 - 18:10 | 3 | 4 | 94 | 50 | 4 | 0 | 1 | 0 |
| 18:10 - 18:20 | 0 | 8 | 83 | 20 | 5 | 0 | 0 | 0 |
| 18:20 - 18:30 | 0 | 3 | 77 | 28 | 1 | 0 | 0 | 0 |
| 18:30 - 18:40 | 2 | 5 | 79 | 3 | 3 | 0 | 0 | 1 |
| 18:40 - 18:50 | 2 | 8 | 67 | 28 | 1 | 1 | 2 | 0 |
| 18:50 - 19:00 | 0 | 9 | 83 | 38 | 1 | 0 | 1 | 0 |



## DIRECTIONAL TRAFFIC COUNT

DATE 21/11/2017
LOCATION SC02
DIRECTION **CHIJANZA**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 7:00 - 7:10 | 0 | 6 | 77 | 28 | 1 | 1 | 1 | 0 |
| 7:10 - 7:20 | 3 | 2 | 73 | 50 | 2 | 0 | 1 | 0 |
| 7:20 - 7:30 | 2 | 4 | 73 | 42 | 3 | 0 | 1 | 0 |
| 7:30 - 7:40 | 1 | 5 | 61 | 41 | 5 | 0 | 2 | 0 |
| 7:40 - 7:50 | 0 | 10 | 86 | 38 | 0 | 0 | 1 | 0 |
| 7:50 - 8:00 | 1 | 4 | 62 | 43 | 2 | 0 | 2 | 0 |
| 8:00 - 8:10 | 1 | 4 | 48 | 42 | 1 | 0 | 0 | 0 |
| 8:10 - 8:20 | 3 | 11 | 55 | 48 | 2 | 0 | 1 | 0 |
| 8:20 - 8:30 | 0 | 4 | 65 | 54 | 2 | 0 | 2 | 0 |
| 8:30 - 8:40 | 2 | 6 | 63 | 56 | 3 | 0 | 2 | 0 |
| 8:40 - 8:50 | 0 | 3 | 57 | 38 | 2 | 0 | 3 | 0 |
| 8:50 - 9:00 | 3 | 5 | 53 | 41 | 2 | 0 | 1 | 0 |
| 9:00 - 9:10 | 3 | 10 | 58 | 47 | 1 | 0 | 2 | 0 |
| 9:10 - 9:20 | 2 | 4 | 61 | 45 | 2 | 0 | 2 | 0 |
| 9:20 - 9:30 | 1 | 7 | 63 | 36 | 5 | 0 | 4 | 0 |
| 9:30 - 9:40 | 2 | 13 | 72 | 44 | 3 | 0 | 1 | 0 |
| 9:40 - 9:50 | 3 | 5 | 55 | 33 | 0 | 0 | 3 | 0 |
| 9:50 - 10:00 | 2 | 7 | 74 | 31 | 3 | 0 | 4 | 0 |
| 10:00 - 10:10 | 0 | 6 | 47 | 33 | 5 | 0 | 1 | 0 |
| 10:10 - 10:20 | 0 | 8 | 97 | 46 | 2 | 0 | 1 | 0 |
| 10:20 - 10:30 | 0 | 5 | 66 | 32 | 4 | 0 | 0 | 1 |
| 10:30 - 10:40 | 3 | 11 | 67 | 41 | 5 | 0 | 1 | 0 |
| 10:40 - 10:50 | 3 | 3 | 66 | 33 | 4 | 0 | 1 | 0 |
| 10:50 - 11:00 | 0 | 32 | 65 | 27 | 4 | 0 | 1 | 1 |
| 11:00 - 11:10 | 1 | 6 | 67 | 27 | 7 | 0 | 1 | 0 |
| 11:10 - 11:20 | 6 | 11 | 94 | 41 | 2 | 0 | 0 | 0 |
| 11:20 - 11:30 | 3 | 11 | 90 | 34 | 11 | 0 | 1 | 0 |
| 11:30 - 11:40 | 3 | 13 | 77 | 34 | 5 | 0 | 1 | 0 |
| 11:40 - 11:50 | 2 | 12 | 98 | 33 | 4 | 0 | 1 | 0 |
| 11:50 - 12:00 | 3 | 9 | 66 | 36 | 5 | 0 | 1 | 0 |
| 12:00 - 12:10 | 4 | 10 | 98 | 31 | 1 | 0 | 0 | 0 |
| 12:10 - 11:20 | 2 | 9 | 102 | 21 | 7 | 0 | 0 | 1 |
| 12:20 - 12:30 | 3 | 10 | 80 | 32 | 4 | 0 | 1 | 0 |
| 12:30 - 12:40 | 3 | 13 | 123 | 36 | 3 | 0 | 2 | 0 |
| 12:40 - 12:50 | 3 | 16 | 101 | 36 | 2 | 0 | 0 | 1 |
| 12:50 - 13:00 | 2 | 8 | 74 | 24 | 5 | 0 | 0 | 0 |
| 13:00 - 13:10 | 1 | 8 | 80 | 34 | 3 | 0 | 0 | 0 |
| 13:10 - 13:20 | 3 | 14 | 73 | 21 | 2 | 0 | 2 | 0 |
| 13:20 - 13:30 | 0 | 13 | 66 | 17 | 3 | 0 | 3 | 0 |
| 13:30 - 13:40 | 6 | 4 | 69 | 28 | 4 | 0 | 2 | 1 |
| 13:40 - 13:50 | 4 | 15 | 74 | 20 | 2 | 0 | 3 | 0 |
| 13:50 - 14:00 | 2 | 12 | 91 | 26 | 3 | 0 | 3 | 0 |
| 14:00 - 14:10 | 1 | 10 | 78 | 28 | 8 | 0 | 1 | 1 |
| 14:10 - 14:20 | 5 | 15 | 104 | 23 | 2 | 0 | 0 | 0 |
| 14:20 - 14:30 | 3 | 9 | 100 | 25 | 1 | 0 | 2 | 0 |
| 14:30 - 14:40 | 3 | 6 | 84 | 24 | 2 | 0 | 2 | 0 |
| 14:40 - 14:50 | 3 | 6 | 83 | 17 | 6 | 0 | 0 | 0 |
| 14:50 - 15:00 | 2 | 10 | 91 | 26 | 4 | 0 | 2 | 0 |
| 15:00 - 15:10 | 2 | 4 | 48 | 49 | 1 | 0 | 0 | 1 |
| 15:10 - 15:20 | 5 | 7 | 75 | 47 | 2 | 0 | 3 | 0 |
| 15:20 - 15:30 | 3 | 6 | 93 | 61 | 3 | 0 | 2 | 0 |
| 15:30 - 15:40 | 2 | 4 | 76 | 38 | 7 | 0 | 0 | 0 |
| 15:40 - 15:50 | 3 | 2 | 82 | 36 | 3 | 1 | 0 | 0 |
| 15:50 - 16:00 | 8 | 5 | 93 | 60 | 4 | 0 | 2 | 0 |
| 16:00 - 16:10 | 3 | 13 | 99 | 21 | 4 | 0 | 1 | 0 |
| 16:10 - 16:20 | 4 | 12 | 93 | 26 | 3 | 0 | 3 | 0 |
| 16:20 - 16:30 | 0 | 8 | 90 | 23 | 3 | 0 | 4 | 0 |
| 16:30 - 16:40 | 2 | 11 | 81 | 21 | 2 | 0 | 5 | 0 |
| 16:40 - 16:50 | 3 | 10 | 87 | 29 | 8 | 0 | 4 | 1 |
| 16:50 - 17:00 | 4 | 5 | 108 | 22 | 5 | 0 | 3 | 0 |
| 17:00 - 17:10 | 0 | 7 | 77 | 36 | 2 | 0 | 1 | 0 |
| 17:10 - 17:20 | 2 | 66 | 69 | 36 | 5 | 0 | 0 | 0 |
| 17:20 - 17:30 | 1 | 4 | 102 | 24 | 2 | 0 | 0 | 0 |
| 17:30 - 17:40 | 3 | 10 | 81 | 38 | 3 | 0 | 1 | 0 |
| 17:40 - 17:50 | 4 | 7 | 97 | 65 | 3 | 0 | 1 | 0 |
| 17:50 - 18:00 | 5 | 4 | 96 | 73 | 14 | 0 | 0 | 0 |
| 18:00 - 18:10 | 2 | 16 | 114 | 71 | 7 | 1 | 0 | 1 |
| 18:10 - 18:20 | 3 | 12 | 87 | 41 | 4 | 0 | 1 | 0 |
| 18:20 - 18:30 | 2 | 11 | 103 | 38 | 4 | 0 | 11 | 1 |
| 18:30 - 18:40 | 2 | 3 | 22 | 19 | 1 | 0 | 0 | 0 |
| 18:40 - 18:50 | 1 | 3 | 65 | 36 | 0 | 1 | 0 | 1 |
| 18:50 - 19:00 | 2 | 6 | 73 | 43 | 0 | 0 | 0 | 0 |

DIRECTIONAL TRAFFIC COUNT

DATE 21/11/2017
LOCATION SC02
DIRECTION **MCHINJI**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 7:00 - 7:10 | 0 | 1 | 130 | 31 | 2 | 0 | 0 | 0 |
| 7:10 - 7:20 | 2 | 4 | 134 | 37 | 2 | 0 | 0 | 0 |
| 7:20 - 7:30 | 1 | 9 | 127 | 20 | 4 | 1 | 0 | 2 |
| 7:30 - 7:40 | 3 | 10 | 112 | 32 | 6 | 0 | 1 | 0 |
| 7:40 - 7:50 | 3 | 5 | 133 | 50 | 4 | 0 | 2 | 0 |
| 7:50 - 8:00 | 6 | 4 | 130 | 34 | 5 | 0 | 1 | 1 |
| 8:00 - 8:10 | 4 | 5 | 145 | 21 | 6 | 0 | 1 | 0 |
| 8:10 - 8:20 | 3 | 7 | 140 | 32 | 7 | 0 | 2 | 0 |
| 8:20 - 8:30 | 4 | 5 | 101 | 33 | 8 | 0 | 0 | 0 |
| 8:30 - 8:40 | 3 | 6 | 79 | 31 | 5 | 0 | 2 | 0 |
| 8:40 - 8:50 | 1 | 9 | 91 | 25 | 3 | 0 | 5 | 0 |
| 8:50 - 9:00 | 4 | 3 | 135 | 27 | 8 | 0 | 1 | 0 |
| 9:00 - 9:10 | 2 | 6 | 129 | 39 | 6 | 0 | 0 | 0 |
| 9:10 - 9:20 | 4 | 14 | 112 | 18 | 3 | 0 | 2 | 0 |
| 9:20 - 9:30 | 2 | 4 | 100 | 23 | 4 | 0 | 1 | 0 |
| 9:30 - 9:40 | 0 | 9 | 101 | 23 | 7 | 0 | 1 | 1 |
| 9:40 - 9:50 | 2 | 10 | 45 | 28 | 3 | 0 | 0 | 0 |
| 9:50 - 10:00 | 0 | 7 | 105 | 26 | 5 | 0 | 1 | 2 |
| 10:00 - 10:10 | 1 | 6 | 93 | 35 | 0 | 0 | 2 | 0 |
| 10:10 - 10:20 | 3 | 7 | 89 | 25 | 4 | 0 | 1 | 0 |
| 10:20 - 10:30 | 0 | 7 | 74 | 25 | 3 | 0 | 1 | 0 |
| 10:30 - 10:40 | 3 | 11 | 96 | 24 | 8 | 0 | 3 | 0 |
| 10:40 - 10:50 | 4 | 7 | 78 | 29 | 2 | 0 | 2 | 0 |
| 10:50 - 11:00 | 4 | 5 | 93 | 26 | 4 | 0 | 1 | 0 |
| 11:00 - 11:10 | 2 | 12 | 105 | 21 | 3 | 0 | 0 | 0 |
| 11:10 - 11:20 | 2 | 8 | 79 | 29 | 5 | 0 | 1 | 0 |
| 11:20 - 11:30 | 3 | 15 | 90 | 25 | 2 | 0 | 4 | 0 |
| 11:30 - 11:40 | 1 | 15 | 96 | 29 | 2 | 0 | 1 | 0 |
| 11:40 - 11:50 | 4 | 12 | 91 | 26 | 4 | 0 | 2 | 1 |
| 11:50 - 12:00 | 2 | 15 | 107 | 18 | 5 | 0 | 3 | 1 |
| 12:00 - 12:10 | 4 | 11 | 91 | 26 | 1 | 0 | 3 | 1 |
| 12:10 - 12:20 | 3 | 9 | 100 | 35 | 3 | 0 | 2 | 0 |
| 12:20 - 12:30 | 3 | 10 | 80 | 33 | 3 | 0 | 5 | 0 |
| 12:30 - 12:40 | 4 | 11 | 99 | 22 | 5 | 0 | 3 | 0 |
| 12:40 - 12:50 | 2 | 9 | 90 | 28 | 3 | 0 | 6 | 0 |
| 12:50 - 13:00 | 0 | 7 | 74 | 30 | 4 | 0 | 3 | 0 |
| 13:00 - 13:10 | 1 | 9 | 103 | 32 | 6 | 0 | 0 | 0 |
| 13:10 - 13:20 | 2 | 16 | 114 | 24 | 6 | 0 | 2 | 1 |
| 13:20 - 13:30 | 1 | 14 | 109 | 24 | 3 | 0 | 4 | 0 |
| 13:30 - 13:40 | 1 | 12 | 106 | 20 | 5 | 0 | 3 | 0 |
| 13:40 - 13:50 | 0 | 7 | 114 | 21 | 4 | 0 | 1 | 0 |
| 13:50 - 14:00 | 5 | 8 | 96 | 23 | 2 | 0 | 0 | 0 |
| 14:00 - 14:10 | 2 | 10 | 129 | 30 | 6 | 0 | 11 | 0 |
| 14:10 - 14:20 | 1 | 14 | 131 | 27 | 6 | 0 | 2 | 1 |
| 14:20 - 14:30 | 2 | 14 | 107 | 21 | 4 | 0 | 5 | 0 |
| 14:30 - 14:40 | 0 | 7 | 111 | 21 | 4 | 0 | 3 | 1 |
| 14:40 - 14:50 | 7 | 11 | 128 | 25 | 9 | 0 | 2 | 0 |
| 14:50 - 15:00 | 3 | 6 | 95 | 35 | 9 | 0 | 5 | 0 |
| 15:00 - 15:10 | 6 | 7 | 130 | 33 | 4 | 0 | 3 | 1 |
| 15:10 - 15:20 | 0 | 10 | 114 | 27 | 6 | 0 | 0 | 0 |
| 15:20 - 15:30 | 1 | 12 | 100 | 21 | 7 | 0 | 3 | 0 |
| 15:30 - 15:40 | 4 | 8 | 110 | 24 | 9 | 0 | 3 | 0 |
| 15:40 - 15:50 | 4 | 13 | 36 | 27 | 3 | 0 | 4 | 0 |
| 15:50 - 16:00 | 2 | 5 | 103 | 27 | 12 | 0 | 2 | 1 |
| 16:00 - 16:10 | 3 | 9 | 101 | 22 | 2 | 0 | 6 | 0 |
| 16:10 - 16:20 | 3 | 3 | 85 | 31 | 3 | 0 | 6 | 0 |
| 16:20 - 16:30 | 2 | 7 | 99 | 29 | 2 | 0 | 3 | 0 |
| 16:30 - 16:40 | 4 | 4 | 90 | 36 | 5 | 0 | 4 | 0 |
| 16:40 - 16:50 | 4 | 13 | 84 | 28 | 5 | 0 | 1 | 0 |
| 16:50 - 17:00 | 5 | 7 | 97 | 29 | 3 | 0 | 1 | 0 |
| 17:00 - 17:10 | 3 | 11 | 79 | 35 | 4 | 0 | 1 | 0 |
| 17:10 - 17:20 | 1 | 9 | 100 | 24 | 6 | 0 | 4 | 0 |
| 17:20 - 17:30 | 2 | 4 | 76 | 40 | 6 | 0 | 1 | 0 |
| 17:30 - 17:40 | 0 | 8 | 83 | 28 | 3 | 0 | 0 | 1 |
| 17:40 - 17:50 | 3 | 7 | 93 | 32 | 3 | 0 | 0 | 0 |
| 17:50 - 18:00 | 0 | 8 | 85 | 41 | 3 | 0 | 1 | 0 |
| 18:00 - 18:10 | 0 | 8 | 87 | 43 | 3 | 0 | 4 | 0 |
| 18:10 - 18:20 | 0 | 8 | 67 | 35 | 1 | 0 | 1 | 0 |
| 18:20 - 18:30 | 0 | 4 | 83 | 26 | 1 | 1 | 1 | 0 |
| 18:30 - 18:40 | 2 | 5 | 83 | 29 | 5 | 0 | 1 | 0 |
| 18:40 - 18:50 | 0 | 5 | 70 | 24 | 1 | 0 | 2 | 0 |
| 18:50 - 19:00 | 1 | 11 | 95 | 29 | 2 | 0 | 0 | 0 |



DIRECTIONAL TRAFFIC COUNT

DATE 01-02/02/2018
LOCATION SC02
DIRECTION **CHIDZANJA**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 7:00 - 7:10 | 2 | 2 | 73 | 49 | 2 | 2 | 1 | 0 |
| 7:10 - 7:20 | 0 | 4 | 40 | 34 | 1 | 0 | 0 | 0 |
| 7:20 - 7:30 | 0 | 4 | 76 | 47 | 7 | 0 | 0 | 0 |
| 7:30 - 7:40 | 3 | 3 | 75 | 41 | 2 | 1 | 3 | 0 |
| 7:40 - 7:50 | 1 | 8 | 67 | 60 | 3 | 0 | 3 | 1 |
| 7:50 - 8:00 | 1 | 6 | 67 | 62 | 2 | 2 | 3 | 0 |
| 8:00 - 8:10 | 2 | 13 | 65 | 55 | 4 | 0 | 1 | 0 |
| 8:10 - 8:20 | 2 | 8 | 64 | 60 | 4 | 1 | 1 | 0 |
| 8:20 - 8:30 | 3 | 9 | 68 | 42 | 3 | 1 | 2 | 0 |
| 8:30 - 8:40 | 1 | 7 | 53 | 54 | 5 | 0 | 0 | 0 |
| 8:40 - 8:50 | 0 | 6 | 76 | 44 | 5 | 0 | 2 | 0 |
| 8:50 - 9:00 | 3 | 12 | 48 | 46 | 5 | 1 | 2 | 0 |
| 9:00 - 9:10 | 3 | 9 | 58 | 56 | 2 | 0 | 2 | 0 |
| 9:10 - 9:20 | 0 | 13 | 55 | 51 | 0 | 0 | 0 | 0 |
| 9:20 - 9:30 | 2 | 10 | 77 | 42 | 5 | 0 | 0 | 0 |
| 9:30 - 9:40 | 1 | 8 | 70 | 39 | 3 | 0 | 2 | 0 |
| 9:40 - 9:50 | 0 | 8 | 61 | 23 | 5 | 1 | 0 | 0 |
| 9:50 - 10:00 | 3 | 3 | 69 | 40 | 7 | 1 | 3 | 0 |
| 10:00 - 10:10 | 2 | 8 | 75 | 44 | 3 | 0 | 1 | |
| 10:10 - 10:20 | 0 | 8 | 65 | 38 | 2 | 0 | 2 | 0 |
| 10:20 - 10:30 | 3 | 12 | 62 | 42 | 5 | 0 | 2 | 0 |
| 10:30 - 10:40 | 2 | 10 | 60 | 31 | 4 | 0 | 3 | 0 |
| 10:40 - 10:50 | 3 | 9 | 68 | 31 | 5 | 0 | 3 | 2 |
| 10:50 - 11:00 | 3 | 11 | 63 | 34 | 8 | 0 | 3 | 2 |
| 11:00 - 11:10 | 3 | 13 | 57 | 32 | 1 | 1 | 0 | 0 |
| 11:10 - 11:20 | 3 | 11 | 75 | 33 | 5 | 1 | 3 | 1 |
| 11:20 - 11:30 | 3 | 6 | 63 | 39 | 5 | 0 | 3 | 0 |
| 11:30 - 11:40 | 2 | 11 | 72 | 31 | 4 | 0 | 3 | 0 |
| 11:40 - 11:50 | 3 | 10 | 60 | 31 | 6 | 0 | 2 | 0 |
| 11:50 - 12:00 | 6 | 10 | 80 | 33 | 4 | 0 | 1 | 0 |
| 12:00 - 12:10 | 5 | 11 | 80 | 40 | 3 | 1 | 0 | 1 |
| 12:10 - 11:20 | 0 | 14 | 65 | 41 | 4 | 0 | 1 | 0 |
| 12:20 - 12:30 | 5 | 18 | 80 | 25 | 2 | 0 | 1 | 1 |
| 12:30 - 12:40 | 3 | 6 | 80 | 31 | 3 | 0 | 0 | 0 |
| 12:40 - 12:50 | 0 | 8 | 82 | 38 | 2 | 0 | 4 | 0 |
| 12:50 - 13:00 | 2 | 9 | 92 | 33 | 1 | 1 | 2 | 0 |
| 13:00 - 13:10 | 2 | 8 | 76 | 39 | 3 | 1 | 1 | 0 |
| 13:10 - 13:20 | 4 | 12 | 87 | 33 | 3 | 0 | 0 | 0 |
| 13:20 - 13:30 | 2 | 5 | 66 | 35 | 6 | 0 | 5 | 0 |
| 13:30 - 13:40 | 1 | 7 | 91 | 30 | 5 | 0 | 2 | 0 |
| 13:40 - 13:50 | 2 | 10 | 85 | 38 | 4 | 0 | 2 | 0 |
| 13:50 - 14:00 | 1 | 11 | 80 | 28 | 6 | 1 | 3 | 0 |
| 14:00 - 14:10 | 2 | 11 | 88 | 28 | 2 | 0 | 2 | 1 |
| 14:10 - 14:20 | 1 | 10 | 74 | 29 | 3 | 0 | 5 | 0 |
| 14:20 - 14:30 | 0 | 9 | 95 | 28 | 4 | 3 | 0 | 0 |
| 14:30 - 14:40 | 5 | 13 | 92 | 23 | 7 | 0 | 5 | 0 |
| 14:40 - 14:50 | 1 | 11 | 89 | 37 | 8 | 0 | 3 | 1 |
| 14:50 - 15:00 | 2 | 9 | 76 | 29 | 3 | 0 | 1 | 0 |
| 15:00 - 15:10 | 1 | 16 | 82 | 28 | 5 | 0 | 3 | 0 |
| 15:10 - 15:20 | 1 | 10 | 92 | 28 | 2 | 0 | 0 | 0 |
| 15:20 - 15:30 | 2 | 11 | 87 | 21 | 5 | 0 | 0 | 0 |
| 15:30 - 15:40 | 3 | 8 | 82 | 19 | 2 | 1 | 0 | 0 |
| 15:40 - 15:50 | 2 | 3 | 86 | 26 | 3 | 0 | 0 | 0 |
| 15:50 - 16:00 | 3 | 2 | 84 | 33 | 5 | 0 | 0 | 0 |
| 16:00 - 16:10 | 1 | 3 | 90 | 32 | 3 | 0 | 3 | 1 |
| 16:10 - 16:20 | 5 | 12 | 96 | 22 | 6 | 3 | 1 | 1 |
| 16:20 - 16:30 | 0 | 14 | 80 | 32 | 3 | 0 | 2 | 1 |
| 16:30 - 16:40 | 2 | 7 | 102 | 30 | 3 | 0 | 2 | 1 |
| 16:40 - 16:50 | 1 | 5 | 90 | 13 | 2 | 0 | 1 | 1 |
| 16:50 - 17:00 | 2 | 3 | 75 | 27 | 6 | 3 | 2 | 0 |
| 17:00 - 17:10 | 9 | 8 | 107 | 41 | 3 | 0 | 1 | 0 |
| 17:10 - 17:20 | 0 | 4 | 62 | 14 | 5 | 1 | 0 | 0 |
| 17:20 - 17:30 | 3 | 6 | 82 | 28 | 6 | 0 | 6 | 0 |
| 17:30 - 17:40 | 4 | 4 | 92 | 25 | 6 | 1 | 2 | 1 |
| 17:40 - 17:50 | 1 | 10 | 71 | 33 | 1 | 2 | 1 | 0 |
| 17:50 - 18:00 | 0 | 17 | 90 | 25 | 2 | 1 | 2 | 0 |
| 18:00 - 18:10 | 3 | 2 | 105 | 35 | 3 | 1 | 1 | 1 |
| 18:10 - 18:20 | 0 | 8 | 105 | 26 | 4 | 2 | 3 | 0 |
| 18:20 - 18:30 | 2 | 9 | 91 | 45 | 5 | 0 | 0 | 0 |
| 18:30 - 18:40 | 1 | 4 | 75 | 18 | 1 | 1 | 0 | 1 |
| 18:40 - 18:50 | 1 | 8 | 78 | 22 | 7 | 1 | 0 | 1 |
| 18:50 - 19:00 | 4 | 8 | 62 | 21 | 2 | 0 | 2 | 1 |

DIRECTIONAL TRAFFIC COUNT

DATE 01-02/02/2018
LOCATION SC02
DIRECTION **CHIDZANJA**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 19:00 - 19:10 | 3 | 7 | 82 | 25 | 1 | 0 | 0 | 1 |
| 19:10 - 19:20 | 3 | 5 | 72 | 15 | 3 | 0 | 0 | 2 |
| 19:20 - 19:30 | 1 | 5 | 76 | 27 | 5 | 0 | 0 | 1 |
| 19:30 - 19:40 | 1 | 3 | 85 | 16 | 1 | 0 | 0 | 0 |
| 19:40 - 19:50 | 1 | 3 | 93 | 20 | 2 | 0 | 4 | 0 |
| 19:50 - 20:00 | 3 | 3 | 70 | 15 | 0 | 0 | 0 | 0 |
| 20:00 - 20:10 | 2 | 2 | 70 | 14 | 1 | 0 | 1 | 1 |
| 20:10 - 20:20 | 0 | 4 | 83 | 10 | 2 | 2 | 2 | 0 |
| 20:20 - 20:30 | 1 | 1 | 27 | 1 | 0 | 0 | 0 | 0 |
| 20:30 - 20:40 | 0 | 3 | 74 | 10 | 2 | 0 | 0 | 2 |
| 20:40 - 20:50 | 1 | 1 | 43 | 7 | 0 | 0 | 0 | 0 |
| 20:50 - 21:00 | 0 | 1 | 50 | 4 | 2 | 0 | 0 | 0 |
| 21:00 - 21:10 | 1 | 3 | 36 | 4 | 1 | 0 | 0 | 0 |
| 21:10 - 21:20 | 1 | 3 | 39 | 7 | 1 | 0 | 0 | 0 |
| 21:20 - 21:30 | 0 | 1 | 37 | 6 | 1 | 0 | 0 | 0 |
| 21:30 - 21:40 | 0 | 1 | 34 | 5 | 2 | 0 | 0 | 0 |
| 21:40 - 21:50 | 1 | 2 | 36 | 7 | 1 | 0 | 0 | 1 |
| 21:50 - 22:00 | 0 | 0 | 52 | 1 | 0 | 0 | 0 | 0 |
| 22:00 - 22:10 | 0 | 1 | 31 | 4 | 0 | 0 | 0 | 0 |
| 22:10 - 22:20 | 0 | 1 | 22 | 0 | 1 | 0 | 1 | 0 |
| 22:20 - 22:30 | 0 | 1 | 30 | 3 | 0 | 1 | 1 | 0 |
| 22:30 - 22:40 | 1 | 0 | 21 | 3 | 0 | 0 | 0 | 0 |
| 22:40 - 22:50 | 1 | 0 | 20 | 1 | 0 | 0 | 0 | 0 |
| 22:50 - 23:00 | 0 | 0 | 14 | 3 | 1 | 0 | 0 | 0 |
| 23:00 - 23:10 | 0 | 0 | 10 | 0 | 1 | 1 | 0 | 0 |
| 23:10 - 23:20 | 0 | 0 | 17 | 0 | 1 | 0 | 2 | 0 |
| 23:20 - 23:30 | 0 | 1 | 13 | 1 | 2 | 0 | 0 | 0 |
| 23:30 - 23:40 | 1 | 0 | 16 | 2 | 0 | 0 | 0 | 0 |
| 23:40 - 23:50 | 0 | 0 | 10 | 0 | 2 | 0 | 0 | 0 |
| 23:50 - 00:00 | 0 | 0 | 12 | 1 | 0 | 0 | 0 | 0 |
| 00:00 - 00:10 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 |
| 00:10 - 00:20 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 |
| 00:20 - 00:30 | 0 | 0 | 8 | 1 | 0 | 0 | 0 | 0 |
| 00:30 - 00:40 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 1 |
| 00:40 - 00:50 | 0 | 0 | 9 | 0 | 2 | 1 | 0 | 0 |
| 00:50 - 01:00 | 0 | 1 | 8 | 0 | 0 | 0 | 0 | 0 |
| 01:00 - 01:10 | 0 | 0 | 5 | 1 | 0 | 0 | 2 | 0 |
| 01:10 - 01:20 | 0 | 0 | 7 | 2 | 0 | 0 | 0 | 0 |
| 01:20 - 01:30 | 0 | 0 | 8 | 2 | 0 | 0 | 0 | 0 |
| 01:30 - 01:40 | 0 | 0 | 10 | 2 | 0 | 0 | 2 | 0 |
| 01:40 - 01:50 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 |
| 01:50 - 02:00 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 |
| 02:00 - 02:10 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| 02:10 - 02:20 | 0 | 0 | 4 | 0 | 0 | 0 | 1 | 0 |
| 02:20 - 02:30 | 0 | 0 | 5 | 0 | 0 | 0 | 1 | 0 |
| 02:30 - 02:40 | 0 | 0 | 5 | 1 | 0 | 0 | 0 | 0 |
| 02:40 - 02:50 | 0 | 0 | 4 | 1 | 0 | 1 | 0 | 0 |
| 02:50 - 03:00 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 1 |
| 03:00 - 03:10 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| 03:10 - 03:20 | 0 | 0 | 3 | 1 | 1 | 0 | 1 | 0 |
| 03:20 - 03:30 | 0 | 0 | 12 | 4 | 1 | 4 | 0 | 0 |
| 03:30 - 03:40 | 0 | 0 | 7 | 6 | 6 | 0 | 0 | 0 |
| 03:40 - 03:50 | 0 | 0 | 7 | 16 | 0 | 2 | 0 | 0 |
| 03:50 - 04:00 | 0 | 0 | 5 | 11 | 4 | 0 | 0 | 0 |
| 04:00 - 04:10 | 1 | 0 | 6 | 4 | 1 | 0 | 1 | 0 |
| 04:10 - 04:20 | 0 | 0 | 8 | 6 | 0 | 0 | 1 | 0 |
| 04:20 - 04:30 | 0 | 0 | 4 | 5 | 0 | 0 | 2 | 2 |
| 04:30 - 04:40 | 0 | 0 | 8 | 6 | 0 | 0 | 2 | 0 |
| 04:40 - 04:50 | 0 | 0 | 13 | 17 | 1 | 0 | 0 | 0 |
| 04:50 - 05:00 | 0 | 1 | 10 | 15 | 0 | 0 | 0 | 1 |
| 05:00 - 05:10 | 0 | 1 | 13 | 16 | 1 | 0 | 1 | 0 |
| 05:10 - 05:20 | 1 | 0 | 15 | 24 | 3 | 0 | 2 | 0 |
| 05:20 - 05:30 | 1 | 1 | 16 | 10 | 1 | 0 | 3 | 0 |
| 05:30 - 05:40 | 0 | 0 | 26 | 29 | 1 | 0 | 0 | 0 |
| 05:40 - 05:50 | 4 | 1 | 12 | 28 | 0 | 0 | 2 | 0 |
| 05:50 - 06:00 | 2 | 0 | 30 | 24 | 1 | 1 | 2 | 0 |
| 06:00 - 06:10 | 1 | 1 | 23 | 40 | 0 | 1 | 3 | 0 |
| 06:10 - 06:20 | 2 | 1 | 27 | 38 | 0 | 0 | 0 | 0 |
| 06:20 - 06:30 | 0 | 2 | 25 | 44 | 1 | 0 | 2 | 0 |
| 06:30 - 06:40 | 2 | 3 | 35 | 58 | 1 | 0 | 0 | 0 |
| 06:40 - 06:50 | 0 | 1 | 51 | 56 | 0 | 0 | 2 | 0 |
| 06:50 - 07:00 | 1 | 8 | 87 | 63 | 0 | 0 | 1 | 0 |



DIRECTIONAL TRAFFIC COUNT

DATE 01-02/02/2018
LOCATION SC02
DIRECTION **MCHINJI**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 7:00 - 7:10 | 5 | 0 | 120 | 40 | 1 | 1 | 2 | 0 |
| 7:10 - 7:20 | 1 | 2 | 125 | 39 | 0 | 2 | 1 | 0 |
| 7:20 - 7:30 | 1 | 5 | 99 | 49 | 1 | 0 | 2 | 0 |
| 7:30 - 7:40 | 6 | 4 | 118 | 45 | 2 | 2 | 3 | 0 |
| 7:40 - 7:50 | 5 | 3 | 118 | 42 | 2 | 2 | 0 | 1 |
| 7:50 - 8:00 | 2 | 9 | 128 | 33 | 5 | 0 | 3 | 0 |
| 8:00 - 8:10 | 6 | 10 | 100 | 41 | 6 | 0 | 7 | 0 |
| 8:10 - 8:20 | 2 | 6 | 117 | 33 | 4 | 1 | 1 | 0 |
| 8:20 - 8:30 | 2 | 4 | 110 | 34 | 2 | 0 | 4 | 0 |
| 8:30 - 8:40 | 5 | 9 | 91 | 45 | 5 | 0 | 0 | 0 |
| 8:40 - 8:50 | 4 | 6 | 100 | 26 | 7 | 0 | 1 | 0 |
| 8:50 - 9:00 | 3 | 9 | 100 | 29 | 5 | 0 | 0 | 1 |
| 9:00 - 9:10 | 3 | 9 | 8 | 38 | 7 | 0 | 0 | 0 |
| 9:10 - 9:20 | 1 | 5 | 93 | 39 | 6 | 0 | 3 | 0 |
| 9:20 - 9:30 | 1 | 5 | 66 | 47 | 7 | 0 | 1 | 0 |
| 9:30 - 9:40 | 0 | 7 | 72 | 30 | 4 | 1 | 3 | 0 |
| 9:40 - 9:50 | 1 | 9 | 96 | 41 | 6 | 1 | 2 | 0 |
| 9:50 - 10:00 | 1 | 14 | 100 | 40 | 5 | 1 | 2 | 0 |
| 10:00 - 10:10 | 6 | 8 | 85 | 20 | 6 | 1 | 2 | 1 |
| 10:10 - 10:20 | 3 | 9 | 92 | 29 | 5 | 1 | 1 | 0 |
| 10:20 - 10:30 | 6 | 13 | 86 | 31 | 7 | 0 | 0 | 0 |
| 10:30 - 10:40 | 0 | 8 | 81 | 34 | 9 | 0 | 0 | 0 |
| 10:40 - 10:50 | 1 | 11 | 82 | 30 | 6 | 0 | 1 | 0 |
| 10:50 - 11:00 | 4 | 10 | 69 | 19 | 4 | 1 | 1 | 0 |
| 11:00 - 11:10 | 1 | 11 | 89 | 29 | 2 | 0 | 0 | 0 |
| 11:10 - 11:20 | 1 | 11 | 75 | 38 | 5 | 0 | 1 | 0 |
| 11:20 - 11:30 | 1 | 11 | 81 | 24 | 3 | 0 | 0 | 0 |
| 11:30 - 11:40 | 3 | 15 | 86 | 21 | 3 | 1 | 1 | 1 |
| 11:40 - 11:50 | 2 | 7 | 115 | 37 | 2 | 0 | 1 | 0 |
| 11:50 - 12:00 | 3 | 12 | 98 | 36 | 7 | 1 | 0 | 0 |
| 12:00 - 12:10 | 0 | 19 | 80 | 30 | 9 | 1 | 0 | 0 |
| 12:10 - 11:20 | 1 | 9 | 75 | 38 | 3 | 0 | 2 | 1 |
| 12:20 - 12:30 | 2 | 10 | 91 | 22 | 5 | 1 | 0 | 1 |
| 12:30 - 12:40 | 3 | 8 | 84 | 28 | 5 | 0 | 1 | 1 |
| 12:40 - 12:50 | 2 | 9 | 79 | 25 | 5 | 0 | 1 | 0 |
| 12:50 - 13:00 | 3 | 9 | 78 | 17 | 3 | 2 | 1 | 1 |
| 13:00 - 13:10 | 2 | 18 | 92 | 18 | 7 | 0 | 0 | 0 |
| 13:10 - 13:20 | 2 | 7 | 101 | 32 | 2 | 0 | 3 | 0 |
| 13:20 - 13:30 | 3 | 7 | 100 | 36 | 4 | 0 | 1 | 0 |
| 13:30 - 13:40 | 5 | 9 | 122 | 29 | 6 | 0 | 2 | 0 |
| 13:40 - 13:50 | 3 | 9 | 100 | 40 | 3 | 0 | 3 | 0 |
| 13:50 - 14:00 | 0 | 6 | 96 | 33 | 5 | 0 | 1 | 1 |
| 14:00 - 14:10 | 4 | 10 | 112 | 30 | 4 | 1 | 1 | 0 |
| 14:10 - 14:20 | 0 | 8 | 129 | 27 | 2 | 0 | 4 | 0 |
| 14:20 - 14:30 | 1 | 7 | 121 | 36 | 3 | 1 | 2 | 0 |
| 14:30 - 14:40 | 1 | 5 | 140 | 29 | 1 | 1 | 2 | 0 |
| 14:40 - 14:50 | 1 | 17 | 100 | 38 | 2 | 0 | 2 | 0 |
| 14:50 - 15:00 | 4 | 17 | 105 | 38 | 6 | 0 | 3 | 0 |
| 15:00 - 15:10 | 1 | 5 | 114 | 36 | 8 | 0 | 2 | 0 |
| 15:10 - 15:20 | 2 | 9 | 111 | 29 | 6 | 0 | 0 | 0 |
| 15:20 - 15:30 | 1 | 16 | 92 | 31 | 5 | 0 | 1 | 0 |
| 15:30 - 15:40 | 2 | 15 | 92 | 26 | 6 | 1 | 2 | 0 |
| 15:40 - 15:50 | 1 | 9 | 70 | 48 | 6 | 0 | 4 | 0 |
| 15:50 - 16:00 | 3 | 7 | 87 | 38 | 5 | 0 | 3 | 0 |
| 16:00 - 16:10 | 0 | 9 | 89 | 26 | 11 | 1 | 0 | 0 |
| 16:10 - 16:20 | 1 | 4 | 83 | 33 | 4 | 1 | 1 | 0 |
| 16:20 - 16:30 | 1 | 5 | 80 | 25 | 6 | 0 | 0 | 0 |
| 16:30 - 16:40 | 3 | 2 | 110 | 18 | 4 | 0 | 0 | 0 |
| 16:40 - 16:50 | 1 | 7 | 75 | 17 | 7 | 0 | 1 | 2 |
| 16:50 - 17:00 | 2 | 5 | 86 | 35 | 2 | 0 | 2 | 0 |
| 17:00 - 17:10 | 2 | 8 | 97 | 29 | 7 | 0 | 0 | 1 |
| 17:10 - 17:20 | 0 | 5 | 64 | 21 | 5 | 0 | 0 | 0 |
| 17:20 - 17:30 | 2 | 9 | 85 | 53 | 5 | 0 | 0 | 0 |
| 17:30 - 17:40 | 1 | 2 | 55 | 25 | 4 | 0 | 0 | 0 |
| 17:40 - 17:50 | 1 | 6 | 78 | 40 | 4 | 0 | 0 | 0 |
| 17:50 - 18:00 | 1 | 11 | 116 | 30 | 7 | 1 | 3 | 0 |
| 18:00 - 18:10 | 1 | 2 | 83 | 21 | 1 | 0 | 1 | 0 |
| 18:10 - 18:20 | 2 | 5 | 75 | 40 | 4 | 2 | 1 | 0 |
| 18:20 - 18:30 | 0 | 8 | 65 | 28 | 1 | 0 | 1 | 0 |
| 18:30 - 18:40 | 2 | 3 | 60 | 29 | 4 | 1 | 0 | 0 |
| 18:40 - 18:50 | 2 | 4 | 64 | 20 | 5 | 0 | 0 | 0 |
| 18:50 - 19:00 | 0 | 9 | 62 | 12 | 5 | 0 | 0 | 0 |

DIRECTIONAL TRAFFIC COUNT

DATE 01-02/02/2018
LOCATION SC02
DIRECTION **MCHINJI**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 19:00 - 19:10 | 1 | 5 | 90 | 19 | 3 | 2 | 1 | 0 |
| 19:10 - 19:20 | 0 | 5 | 78 | 24 | 2 | 1 | 3 | 1 |
| 19:20 - 19:30 | 1 | 8 | 79 | 21 | 4 | 0 | 2 | 0 |
| 19:30 - 19:40 | 0 | 6 | 73 | 23 | 1 | 1 | 3 | 0 |
| 19:40 - 19:50 | 0 | 5 | 69 | 17 | 2 | 0 | 2 | 1 |
| 19:50 - 20:00 | 0 | 3 | 67 | 14 | 1 | 2 | 1 | 0 |
| 20:00 - 20:10 | 0 | 6 | 63 | 15 | 6 | 0 | 0 | 0 |
| 20:10 - 20:20 | 1 | 9 | 79 | 11 | 1 | 0 | 2 | 0 |
| 20:20 - 20:30 | 1 | 3 | 68 | 8 | 1 | 1 | 1 | 1 |
| 20:30 - 20:40 | 0 | 4 | 66 | 7 | 0 | 0 | 1 | 1 |
| 20:40 - 20:50 | 0 | 3 | 61 | 5 | 2 | 0 | 2 | 1 |
| 20:50 - 21:00 | 0 | 4 | 35 | 5 | 0 | 0 | 3 | 0 |
| 21:00 - 21:10 | 1 | 1 | 49 | 10 | 3 | 0 | 3 | 0 |
| 21:10 - 21:20 | 0 | 2 | 25 | 4 | 4 | 0 | 2 | 1 |
| 21:20 - 21:30 | 0 | 4 | 28 | 4 | 0 | 0 | 0 | 0 |
| 21:30 - 21:40 | 0 | 1 | 26 | 3 | 1 | 1 | 0 | 0 |
| 21:40 - 21:50 | 0 | 2 | 46 | 4 | 2 | 0 | 1 | 0 |
| 21:50 - 22:00 | 1 | 0 | 41 | 3 | 0 | 0 | 0 | 0 |
| 22:00 - 22:10 | 0 | 0 | 45 | 4 | 0 | 0 | 0 | 0 |
| 22:10 - 22:20 | 0 | 1 | 28 | 3 | 1 | 0 | 0 | 0 |
| 22:20 - 22:30 | 0 | 0 | 26 | 1 | 0 | 0 | 1 | 0 |
| 22:30 - 22:40 | 0 | 0 | 21 | 2 | 0 | 0 | 0 | 1 |
| 22:40 - 22:50 | 0 | 0 | 18 | 0 | 0 | 1 | 0 | 0 |
| 22:50 - 23:00 | 0 | 0 | 27 | 1 | 2 | 1 | 1 | 0 |
| 23:00 - 23:10 | 0 | 0 | 10 | 1 | 0 | 0 | 2 | 0 |
| 23:10 - 23:20 | 0 | 0 | 22 | 1 | 1 | 0 | 0 | 0 |
| 23:20 - 23:30 | 0 | 0 | 9 | 0 | 1 | 0 | 0 | 0 |
| 23:30 - 23:40 | 0 | 0 | 8 | 1 | 2 | 0 | 0 | 0 |
| 23:40 - 23:50 | 0 | 1 | 18 | 1 | 0 | 0 | 1 | 0 |
| 23:50 - 00:00 | 0 | 0 | 9 | 1 | 1 | 0 | 0 | 0 |
| 00:00 - 00:10 | 0 | 0 | 15 | 0 | 0 | 0 | 1 | 0 |
| 00:10 - 00:20 | 0 | 1 | 4 | 0 | 0 | 0 | 1 | 0 |
| 00:20 - 00:30 | 0 | 0 | 4 | 2 | 0 | 0 | 1 | 0 |
| 00:30 - 00:40 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 |
| 00:40 - 00:50 | 0 | 0 | 3 | 0 | 2 | 0 | 0 | 0 |
| 00:50 - 01:00 | 0 | 0 | 4 | 0 | 0 | 1 | 1 | 0 |
| 01:00 - 01:10 | 0 | 0 | 5 | 1 | 1 | 1 | 0 | 0 |
| 01:10 - 01:20 | 0 | 0 | 6 | 0 | 0 | 0 | 1 | 1 |
| 01:20 - 01:30 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 |
| 01:30 - 01:40 | 0 | 0 | 6 | 0 | 1 | 0 | 0 | 0 |
| 01:40 - 01:50 | 0 | 0 | 2 | 2 | 1 | 0 | 0 | 0 |
| 01:50 - 02:00 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 |
| 02:00 - 02:10 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| 02:10 - 02:20 | 0 | 0 | 3 | 0 | 2 | 0 | 0 | 0 |
| 02:20 - 02:30 | 0 | 0 | 5 | 0 | 2 | 1 | 2 | 0 |
| 02:30 - 02:40 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 |
| 02:40 - 02:50 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 |
| 02:50 - 03:00 | 0 | 0 | 3 | 0 | 1 | 0 | 1 | 0 |
| 03:00 - 03:10 | 0 | 0 | 4 | 2 | 2 | 0 | 1 | 0 |
| 03:10 - 03:20 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 |
| 03:20 - 03:30 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 |
| 03:30 - 03:40 | 0 | 0 | 5 | 1 | 0 | 1 | 1 | 0 |
| 03:40 - 03:50 | 0 | 0 | 3 | 1 | 2 | 0 | 0 | 0 |
| 03:50 - 04:00 | 0 | 0 | 2 | 2 | 1 | 1 | 0 | 0 |
| 04:00 - 04:10 | 1 | 0 | 3 | 1 | 2 | 0 | 0 | 0 |
| 04:10 - 04:20 | 0 | 0 | 4 | 2 | 1 | 0 | 0 | 0 |
| 04:20 - 04:30 | 0 | 0 | 4 | 1 | 1 | 1 | 2 | 0 |
| 04:30 - 04:40 | 0 | 0 | 8 | 2 | 0 | 0 | 2 | 0 |
| 04:40 - 04:50 | 0 | 0 | 10 | 9 | 0 | 0 | 0 | 0 |
| 04:50 - 05:00 | 0 | 0 | 9 | 7 | 0 | 0 | 0 | 0 |
| 05:00 - 05:10 | 0 | 1 | 9 | 10 | 2 | 0 | 1 | 1 |
| 05:10 - 05:20 | 0 | 1 | 7 | 16 | 0 | 0 | 0 | 0 |
| 05:20 - 05:30 | 2 | 0 | 14 | 6 | 1 | 0 | 3 | 1 |
| 05:30 - 05:40 | 1 | 1 | 18 | 19 | 2 | 0 | 0 | 0 |
| 05:40 - 05:50 | 1 | 0 | 18 | 19 | 1 | 0 | 1 | 0 |
| 05:50 - 06:00 | 0 | 0 | 27 | 20 | 2 | 0 | 2 | 0 |
| 06:00 - 06:10 | 0 | 1 | 28 | 23 | 1 | 0 | 0 | 0 |
| 06:10 - 06:20 | 0 | 0 | 22 | 28 | 3 | 1 | 0 | 0 |
| 06:20 - 06:30 | 3 | 1 | 30 | 34 | 0 | 0 | 4 | 0 |
| 06:30 - 06:40 | 0 | 2 | 35 | 33 | 1 | 1 | 3 | 0 |
| 06:40 - 06:50 | 0 | 1 | 62 | 25 | 2 | 0 | 1 | 0 |
| 06:50 - 07:00 | 1 | 1 | 76 | 45 | 4 | 0 | 0 | 0 |



DIRECTIONAL TRAFFIC COUNT

DATE 16/11/2017
LOCATION SC03
DIRECTION **A, 8 / KAWALE**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 7:00 - 7:10 | 2 | 10 | 88 | 10 | 20 | 2 | 2 | 1 |
| 7:10 - 7:20 | 1 | 13 | 80 | 6 | 10 | 2 | 0 | 1 |
| 7:20 - 7:30 | 0 | 7 | 41 | 10 | 4 | 1 | 0 | 2 |
| 7:30 - 7:40 | 2 | 10 | 50 | 8 | 4 | 1 | 0 | 0 |
| 7:40 - 7:50 | 0 | 7 | 70 | 4 | 1 | 0 | 0 | 1 |
| 7:50 - 8:00 | 1 | 13 | 70 | 8 | 5 | 1 | 1 | 1 |
| 8:00 - 8:10 | 3 | 11 | 57 | 15 | 11 | 1 | 2 | 1 |
| 8:10 - 8:20 | 5 | 9 | 62 | 13 | 7 | 1 | 0 | 1 |
| 8:20 - 8:30 | 3 | 9 | 91 | 8 | 8 | 0 | 2 | 1 |
| 8:30 - 8:40 | 2 | 4 | 96 | 11 | 6 | 1 | 4 | 0 |
| 8:40 - 8:50 | 0 | 6 | 92 | 4 | 4 | 2 | 1 | 2 |
| 8:50 - 9:00 | 1 | 6 | 6 | 5 | 5 | 0 | 0 | 1 |
| 9:00 - 9:10 | 4 | 3 | 97 | 7 | 5 | 0 | 0 | 0 |
| 9:10 - 9:20 | 0 | 11 | 87 | 2 | 6 | 0 | 4 | 0 |
| 9:20 - 9:30 | 1 | 3 | 86 | 11 | 6 | 0 | 4 | 1 |
| 9:30 - 9:40 | 3 | 4 | 64 | 0 | 3 | 0 | 4 | 1 |
| 9:40 - 9:50 | 0 | 6 | 101 | 9 | 1 | 1 | 2 | 1 |
| 9:50 - 10:00 | 2 | 4 | 73 | 5 | 0 | 0 | 4 | 0 |
| 10:00 - 10:10 | 1 | 3 | 86 | 7 | 6 | 0 | 2 | 0 |
| 10:10 - 10:20 | 1 | 7 | 106 | 6 | 6 | 2 | 3 | 1 |
| 10:20 - 10:30 | 1 | 1 | 73 | 3 | 5 | 4 | 1 | 1 |
| 10:30 - 10:40 | 1 | 7 | 97 | 3 | 2 | 2 | 2 | 4 |
| 10:40 - 10:50 | 1 | 2 | 69 | 7 | 3 | 0 | 3 | 2 |
| 10:50 - 11:00 | 0 | 8 | 80 | 6 | 6 | 0 | 2 | 3 |
| 11:00 - 11:10 | 3 | 6 | 118 | 6 | 4 | 1 | 2 | 1 |
| 11:10 - 11:20 | 2 | 6 | 116 | 6 | 2 | 2 | 1 | 1 |
| 11:20 - 11:30 | 4 | 6 | 138 | 6 | 4 | 0 | 3 | 1 |
| 11:30 - 11:40 | 3 | 5 | 67 | 1 | 0 | 0 | 1 | 1 |
| 11:40 - 11:50 | 1 | 4 | 114 | 2 | 4 | 0 | 10 | 1 |
| 11:50 - 12:00 | 2 | 7 | 113 | 5 | 2 | 1 | 3 | 2 |
| 12:00 - 12:10 | 4 | 7 | 122 | 3 | 7 | 0 | 2 | 3 |
| 12:10 - 11:20 | 2 | 8 | 111 | 3 | 11 | 0 | 3 | 3 |
| 12:20 - 12:30 | 2 | 6 | 115 | 3 | 11 | 0 | 2 | 2 |
| 12:30 - 12:40 | 0 | 5 | 112 | 5 | 3 | 0 | 3 | 1 |
| 12:40 - 12:50 | 4 | 7 | 122 | 3 | 5 | 0 | 5 | 1 |
| 12:50 - 13:00 | 2 | 8 | 111 | 3 | 3 | 0 | 3 | 1 |
| 13:00 - 13:10 | 3 | 5 | 103 | 4 | 9 | 0 | 2 | 2 |
| 13:10 - 13:20 | 1 | 4 | 104 | 3 | 4 | 0 | 0 | 0 |
| 13:20 - 13:30 | 1 | 4 | 104 | 3 | 7 | 1 | 4 | 2 |
| 13:30 - 13:40 | 0 | 5 | 76 | 7 | 9 | 0 | 3 | 2 |
| 13:40 - 13:50 | 0 | 10 | 60 | 3 | 3 | 0 | 1 | 3 |
| 13:50 - 14:00 | 0 | 5 | 91 | 6 | 5 | 0 | 3 | 0 |
| 14:00 - 14:10 | 3 | 5 | 81 | 4 | 8 | 1 | 2 | 1 |
| 14:10 - 14:20 | 1 | 2 | 84 | 5 | 4 | 2 | 3 | 1 |
| 14:20 - 14:30 | 1 | 5 | 81 | 0 | 7 | 1 | 3 | 3 |
| 14:30 - 14:40 | 0 | 4 | 108 | 3 | 8 | 0 | 5 | 1 |
| 14:40 - 14:50 | 1 | 8 | 83 | 6 | 7 | 0 | 4 | 3 |
| 14:50 - 15:00 | 0 | 11 | 95 | 5 | 7 | 0 | 2 | 2 |
| 15:00 - 15:10 | 4 | 4 | 83 | 2 | 4 | 1 | 2 | 2 |
| 15:10 - 15:20 | 1 | 5 | 110 | 5 | 6 | 1 | 5 | 2 |
| 15:20 - 15:30 | 1 | 7 | 75 | 4 | 7 | 1 | 0 | 2 |
| 15:30 - 15:40 | 2 | 12 | 120 | 5 | 9 | 1 | 1 | 1 |
| 15:40 - 15:50 | 1 | 7 | 119 | 5 | 4 | 0 | 2 | 1 |
| 15:50 - 16:00 | 5 | 6 | 118 | 3 | 8 | 1 | 4 | 0 |
| 16:00 - 16:10 | 0 | 4 | 162 | 6 | 10 | 1 | 7 | 1 |
| 16:10 - 16:20 | 1 | 1 | 94 | 4 | 6 | 0 | 1 | 1 |
| 16:20 - 16:30 | 1 | 7 | 115 | 6 | 10 | 2 | 5 | 0 |
| 16:30 - 16:40 | 3 | 8 | 135 | 5 | 2 | 0 | 3 | 1 |
| 16:40 - 16:50 | 3 | 5 | 155 | 7 | 3 | 1 | 3 | 1 |
| 16:50 - 17:00 | 2 | 4 | 120 | 6 | 3 | 0 | 2 | 0 |
| 17:00 - 17:10 | 1 | 2 | 100 | 4 | 8 | 0 | 3 | 0 |
| 17:10 - 17:20 | 10 | 3 | 123 | 7 | 7 | 2 | 5 | 0 |
| 17:20 - 17:30 | 7 | 11 | 162 | 8 | 5 | 1 | 7 | 0 |
| 17:30 - 17:40 | 4 | 4 | 165 | 13 | 8 | 0 | 1 | 3 |
| 17:40 - 17:50 | 4 | 6 | 176 | 10 | 4 | 0 | 6 | 0 |
| 17:50 - 18:00 | 1 | 6 | 172 | 9 | 7 | 0 | 4 | 0 |
| 18:00 - 18:10 | 2 | 8 | 114 | 15 | 3 | 0 | 6 | 3 |
| 18:10 - 18:20 | 3 | 5 | 112 | 7 | 3 | 0 | 2 | 3 |
| 18:20 - 18:30 | 3 | 6 | 116 | 2 | 1 | 0 | 0 | 4 |
| 18:30 - 18:40 | 1 | 1 | 108 | 4 | 2 | 0 | 1 | 1 |
| 18:40 - 18:50 | 2 | 2 | 100 | 3 | 0 | 0 | 1 | 1 |
| 18:50 - 19:00 | 0 | 3 | 60 | 2 | 2 | 0 | 0 | 0 |

DIRECTIONAL TRAFFIC COUNT

DATE 16/11/2017
LOCATION SC03
DIRECTION **MCHINJI**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 7:00 - 7:10 | 7 | 2 | 57 | 18 | 2 | 2 | 8 | 1 |
| 7:10 - 7:20 | 3 | 8 | 125 | 9 | 3 | 1 | 1 | 1 |
| 7:20 - 7:30 | 2 | 12 | 138 | 11 | 1 | 0 | 3 | 3 |
| 7:30 - 7:40 | 3 | 6 | 122 | 3 | 3 | 1 | 1 | 0 |
| 7:40 - 7:50 | 9 | 18 | 148 | 17 | 4 | 1 | 3 | 0 |
| 7:50 - 8:00 | 6 | 13 | 97 | 18 | 4 | 2 | 3 | 2 |
| 8:00 - 8:10 | 4 | 18 | 111 | 13 | 4 | 0 | 3 | 1 |
| 8:10 - 8:20 | 1 | 9 | 86 | 8 | 1 | 1 | 1 | 2 |
| 8:20 - 8:30 | 3 | 15 | 89 | 12 | 1 | 0 | 1 | 2 |
| 8:30 - 8:40 | 3 | 11 | 75 | 6 | 7 | 0 | 4 | 3 |
| 8:40 - 8:50 | 1 | 11 | 118 | 14 | 8 | 0 | 0 | 0 |
| 8:50 - 9:00 | 1 | 10 | 90 | 4 | 4 | 1 | 0 | 0 |
| 9:00 - 9:10 | 2 | 5 | 83 | 4 | 2 | 0 | 0 | 0 |
| 9:10 - 9:20 | 3 | 7 | 78 | 7 | 3 | 0 | 4 | 0 |
| 9:20 - 9:30 | 1 | 7 | 92 | 6 | 7 | 1 | 4 | 1 |
| 9:30 - 9:40 | 3 | 6 | 90 | 4 | 1 | 0 | 4 | 1 |
| 9:40 - 9:50 | 1 | 4 | 87 | 5 | 6 | 0 | 2 | 1 |
| 9:50 - 10:00 | 2 | 7 | 69 | 8 | 7 | 0 | 4 | 0 |
| 10:00 - 10:10 | 1 | 6 | 83 | 3 | 4 | 2 | 3 | 0 |
| 10:10 - 10:20 | 0 | 3 | 64 | 3 | 2 | 1 | 3 | 6 |
| 10:20 - 10:30 | 2 | 5 | 81 | 12 | 2 | 1 | 1 | 2 |
| 10:30 - 10:40 | 0 | 6 | 83 | 7 | 3 | 0 | 2 | 3 |
| 10:40 - 10:50 | 1 | 4 | 91 | 7 | 5 | 1 | 4 | 2 |
| 10:50 - 11:00 | 2 | 6 | 76 | 6 | 9 | 1 | 2 | 0 |
| 11:00 - 11:10 | 1 | 4 | 75 | 3 | 6 | 2 | 2 | 1 |
| 11:10 - 11:20 | 2 | 2 | 71 | 3 | 9 | 0 | 1 | 2 |
| 11:20 - 11:30 | 2 | 7 | 110 | 6 | 17 | 0 | 2 | 3 |
| 11:30 - 11:40 | 0 | 4 | 55 | 1 | 4 | 1 | 2 | 0 |
| 11:40 - 11:50 | 0 | 4 | 70 | 5 | 2 | 0 | 3 | 3 |
| 11:50 - 12:00 | 3 | 3 | 87 | 4 | 7 | 0 | 5 | 0 |
| 12:00 - 12:10 | 8 | 3 | 83 | 3 | 4 | 2 | 3 | 0 |
| 12:10 - 11:20 | 2 | 5 | 80 | 4 | 5 | 0 | 4 | 1 |
| 12:20 - 12:30 | 2 | 7 | 82 | 5 | 7 | 0 | 3 | 0 |
| 12:30 - 12:40 | 1 | 5 | 88 | 3 | 6 | 1 | 3 | 0 |
| 12:40 - 12:50 | 1 | 3 | 99 | 5 | 8 | 0 | 2 | 0 |
| 12:50 - 13:00 | 2 | 4 | 74 | 1 | 6 | 0 | 6 | 0 |
| 13:00 - 13:10 | 1 | 6 | 116 | 6 | 8 | 0 | 5 | 1 |
| 13:10 - 13:20 | 0 | 5 | 138 | 5 | 9 | 0 | 4 | 0 |
| 13:20 - 13:30 | 2 | 12 | 125 | 11 | 18 | 0 | 6 | 1 |
| 13:30 - 13:40 | 1 | 6 | 63 | 6 | 10 | 0 | 4 | 0 |
| 13:40 - 13:50 | 1 | 4 | 71 | 3 | 3 | 0 | 3 | 1 |
| 13:50 - 14:00 | 1 | 10 | 80 | 4 | 5 | 0 | 3 | 1 |
| 14:00 - 14:10 | 4 | 4 | 82 | 2 | 3 | 0 | 0 | 1 |
| 14:10 - 14:20 | 1 | 3 | 76 | 5 | 4 | 0 | 3 | 1 |
| 14:20 - 14:30 | 3 | 8 | 81 | 5 | 4 | 1 | 4 | 2 |
| 14:30 - 14:40 | 3 | 5 | 84 | 8 | 5 | 0 | 5 | 1 |
| 14:40 - 14:50 | 1 | 4 | 68 | 3 | 5 | 0 | 0 | 1 |
| 14:50 - 15:00 | 0 | 6 | 71 | 1 | 3 | 0 | 0 | 1 |
| 15:00 - 15:10 | 2 | 4 | 66 | 4 | 11 | 0 | 3 | 1 |
| 15:10 - 15:20 | 2 | 7 | 76 | 2 | 4 | 1 | 2 | 0 |
| 15:20 - 15:30 | 2 | 6 | 88 | 2 | 2 | 0 | 4 | 0 |
| 15:30 - 15:40 | 1 | 7 | 59 | 5 | 7 | 2 | 2 | 3 |
| 15:40 - 15:50 | 2 | 4 | 72 | 1 | 6 | 2 | 2 | 2 |
| 15:50 - 16:00 | 2 | 7 | 84 | 5 | 8 | 1 | 3 | 1 |
| 16:00 - 16:10 | 1 | 4 | 113 | 3 | 14 | 0 | 3 | 1 |
| 16:10 - 16:20 | 2 | 4 | 60 | 5 | 5 | 2 | 1 | 2 |
| 16:20 - 16:30 | 1 | 3 | 90 | 7 | 11 | 0 | 5 | 1 |
| 16:30 - 16:40 | 0 | 6 | 84 | 6 | 9 | 1 | 4 | 0 |
| 16:40 - 16:50 | 0 | 3 | 110 | 7 | 8 | 3 | 8 | 0 |
| 16:50 - 17:00 | 0 | 3 | 98 | 8 | 7 | 1 | 5 | 0 |
| 17:00 - 17:10 | 1 | 2 | 72 | 3 | 3 | 0 | 3 | 1 |
| 17:10 - 17:20 | 2 | 3 | 110 | 5 | 9 | 2 | 3 | 0 |
| 17:20 - 17:30 | 1 | 11 | 92 | 6 | 1 | 0 | 5 | 1 |
| 17:30 - 17:40 | 3 | 4 | 66 | 3 | 2 | 1 | 5 | 1 |
| 17:40 - 17:50 | 1 | 6 | 76 | 4 | 3 | 0 | 3 | 3 |
| 17:50 - 18:00 | 0 | 6 | 68 | 8 | 2 | 1 | 2 | 0 |
| 18:00 - 18:10 | 1 | 11 | 60 | 4 | 3 | 1 | 2 | 2 |
| 18:10 - 18:20 | 0 | 7 | 74 | 1 | 3 | 0 | 1 | 1 |
| 18:20 - 18:30 | 2 | 4 | 81 | 4 | 2 | 1 | 1 | 2 |
| 18:30 - 18:40 | 1 | 4 | 72 | 2 | 3 | 0 | 1 | 2 |
| 18:40 - 18:50 | 0 | 6 | 73 | 3 | 2 | 0 | 1 | 1 |
| 18:50 - 19:00 | 0 | 0 | 42 | 2 | 3 | 0 | 0 | 0 |



DIRECTIONAL TRAFFIC COUNT

DATE 16/11/2017
LOCATION SC04
DIRECTION **KAWALE**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 7:00 - 7:10 | 0 | 1 | 53 | 1 | 2 | 0 | 0 | 1 |
| 7:10 - 7:20 | 0 | 0 | 54 | 0 | 1 | 0 | 1 | 0 |
| 7:20 - 7:30 | 0 | 0 | 41 | 5 | 4 | 0 | 4 | 1 |
| 7:30 - 7:40 | 0 | 0 | 68 | 5 | 2 | 0 | 2 | 0 |
| 7:40 - 7:50 | 0 | 0 | 55 | 2 | 0 | 0 | 0 | 1 |
| 7:50 - 8:00 | 0 | 0 | 35 | 2 | 0 | 0 | 2 | 0 |
| 8:00 - 8:10 | 0 | 0 | 45 | 2 | 2 | 0 | 1 | 0 |
| 8:10 - 8:20 | 0 | 0 | 40 | 3 | 1 | 0 | 1 | 0 |
| 8:20 - 8:30 | 1 | 0 | 60 | 2 | 4 | 0 | 1 | 0 |
| 8:30 - 8:40 | 1 | 0 | 40 | 3 | 0 | 0 | 0 | 0 |
| 8:40 - 8:50 | 0 | 0 | 49 | 3 | 2 | 0 | 0 | 0 |
| 8:50 - 9:00 | 0 | 0 | 42 | 2 | 1 | 0 | 1 | 0 |
| 9:00 - 9:10 | 1 | 0 | 50 | 1 | 3 | 0 | 0 | 0 |
| 9:10 - 9:20 | 0 | 0 | 30 | 1 | 1 | 0 | 1 | 0 |
| 9:20 - 9:30 | 2 | 1 | 28 | 1 | 3 | 0 | 2 | 0 |
| 9:30 - 9:40 | 0 | 1 | 50 | 0 | 0 | 0 | 0 | 0 |
| 9:40 - 9:50 | 1 | 0 | 46 | 0 | 5 | 0 | 1 | 0 |
| 9:50 - 10:00 | 4 | 0 | 60 | 0 | 1 | 0 | 1 | 0 |
| 10:00 - 10:10 | 1 | 0 | 45 | 0 | 2 | 0 | 2 | 0 |
| 10:10 - 10:20 | 0 | 0 | 55 | 2 | 2 | 0 | 0 | 0 |
| 10:20 - 10:30 | 1 | 1 | 28 | 0 | 3 | 0 | 3 | 0 |
| 10:30 - 10:40 | 1 | 1 | 32 | 0 | 0 | 0 | 2 | 1 |
| 10:40 - 10:50 | 4 | 2 | 56 | 0 | 1 | 0 | 0 | 1 |
| 10:50 - 11:00 | 1 | 1 | 53 | 2 | 0 | 0 | 1 | 0 |
| 11:00 - 11:10 | 1 | 0 | 44 | 2 | 3 | 0 | 0 | 0 |
| 11:10 - 11:20 | 2 | 0 | 46 | 2 | 3 | 0 | 3 | 0 |
| 11:20 - 11:30 | 0 | 0 | 54 | 4 | 4 | 0 | 0 | 1 |
| 11:30 - 11:40 | 0 | 0 | 43 | 4 | 9 | 0 | 0 | 0 |
| 11:40 - 11:50 | 0 | 1 | 50 | 3 | 1 | 0 | 0 | 1 |
| 11:50 - 12:00 | 1 | 0 | 33 | 1 | 4 | 0 | 3 | 1 |
| 12:00 - 12:10 | 0 | 0 | 35 | 1 | 3 | 1 | 2 | 0 |
| 12:10 - 11:20 | 3 | 0 | 57 | 1 | 0 | 0 | 2 | 0 |
| 12:20 - 12:30 | 1 | 0 | 41 | 3 | 3 | 1 | 0 | 0 |
| 12:30 - 12:40 | 1 | 0 | 52 | 0 | 1 | 1 | 3 | 0 |
| 12:40 - 12:50 | 0 | 0 | 63 | 0 | 3 | 0 | 2 | 0 |
| 12:50 - 13:00 | 1 | 0 | 38 | 2 | 1 | 0 | 1 | 1 |
| 13:00 - 13:10 | 0 | 0 | 29 | 0 | 0 | 0 | 1 | 0 |
| 13:10 - 13:20 | 1 | 1 | 27 | 0 | 0 | 0 | 2 | 0 |
| 13:20 - 13:30 | 0 | 0 | 45 | 3 | 0 | 0 | 3 | 0 |
| 13:30 - 13:40 | 3 | 0 | 41 | 2 | 1 | 0 | 0 | 1 |
| 13:40 - 13:50 | 0 | 0 | 46 | 2 | 2 | 0 | 2 | 0 |
| 13:50 - 14:00 | 0 | 1 | 49 | 2 | 2 | 0 | 3 | 0 |
| 14:00 - 14:10 | 0 | 0 | 46 | 0 | 2 | 0 | 0 | 0 |
| 14:10 - 14:20 | 2 | 0 | 80 | 0 | 6 | 0 | 1 | 1 |
| 14:20 - 14:30 | 3 | 0 | 53 | 3 | 3 | 0 | 1 | 0 |
| 14:30 - 14:40 | 0 | 0 | 76 | 2 | 6 | 0 | 4 | 0 |
| 14:40 - 14:50 | 1 | 0 | 59 | 2 | 4 | 0 | 2 | 0 |
| 14:50 - 15:00 | 2 | 1 | 52 | 2 | 2 | 0 | 1 | 0 |
| 15:00 - 15:10 | 1 | 0 | 43 | 3 | 3 | 1 | 4 | 0 |
| 15:10 - 15:20 | 0 | 1 | 28 | 0 | 1 | 0 | 0 | 0 |
| 15:20 - 15:30 | 1 | 1 | 71 | 4 | 2 | 0 | 0 | 1 |
| 15:30 - 15:40 | 1 | 0 | 83 | 4 | 4 | 1 | 2 | 0 |
| 15:40 - 15:50 | 0 | 0 | 55 | 6 | 3 | 1 | 2 | 0 |
| 15:50 - 16:00 | 5 | 0 | 99 | 12 | 7 | 0 | 2 | 0 |
| 16:00 - 16:10 | 1 | 0 | 82 | 9 | 0 | 3 | 2 | 0 |
| 16:10 - 16:20 | 2 | 0 | 94 | 4 | 3 | 1 | 2 | 0 |
| 16:20 - 16:30 | 1 | 0 | 93 | 10 | 6 | 0 | 1 | 0 |
| 16:30 - 16:40 | 3 | 1 | 95 | 14 | 4 | 0 | 5 | 0 |
| 16:40 - 16:50 | 2 | 0 | 117 | 6 | 4 | 0 | 2 | 1 |
| 16:50 - 17:00 | 3 | 3 | 122 | 13 | 5 | 0 | 4 | 0 |
| 17:00 - 17:10 | 1 | 0 | 100 | 8 | 7 | 0 | 1 | 0 |
| 17:10 - 17:20 | 1 | 0 | 160 | 16 | 9 | 3 | 2 | 0 |
| 17:20 - 17:30 | 0 | 0 | 140 | 10 | 4 | 3 | 2 | 0 |
| 17:30 - 17:40 | 3 | 0 | 145 | 15 | 2 | 0 | 3 | 1 |
| 17:40 - 17:50 | 0 | 0 | 125 | 6 | 1 | 4 | 1 | 0 |
| 17:50 - 18:00 | 4 | 1 | 115 | 10 | 3 | 2 | 1 | 2 |
| 18:00 - 18:10 | 0 | 0 | 125 | 7 | 5 | 0 | 0 | 3 |
| 18:10 - 18:20 | 3 | 1 | 115 | 11 | 0 | 1 | 2 | 3 |
| 18:20 - 18:30 | 0 | 0 | 71 | 10 | 4 | 0 | 2 | 1 |
| 18:30 - 18:40 | 2 | 0 | 68 | 9 | 2 | 1 | 2 | 0 |
| 18:40 - 18:50 | 2 | 0 | 75 | 8 | 3 | 1 | 0 | 0 |
| 18:50 - 19:00 | 2 | 0 | 75 | 6 | 4 | 0 | 1 | 0 |

DIRECTIONAL TRAFFIC COUNT

DATE 16/11/2017
LOCATION SC04
DIRECTION **CITY CENTRE**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 7:00 - 7:10 | 1 | 0 | 120 | 15 | 1 | 0 | 1 | 1 |
| 7:10 - 7:20 | 3 | 1 | 165 | 17 | 0 | 0 | 2 | 1 |
| 7:20 - 7:30 | 0 | 0 | 169 | 15 | 2 | 1 | 1 | 1 |
| 7:30 - 7:40 | 2 | 0 | 165 | 9 | 2 | 1 | 4 | 0 |
| 7:40 - 7:50 | 0 | 1 | 150 | 15 | 1 | 0 | 3 | 0 |
| 7:50 - 8:00 | 1 | 1 | 167 | 25 | 0 | 1 | 3 | 1 |
| 8:00 - 8:10 | 2 | 0 | 128 | 8 | 3 | 0 | 0 | 0 |
| 8:10 - 8:20 | 0 | 0 | 87 | 7 | 0 | 0 | 0 | 0 |
| 8:20 - 8:30 | 1 | 0 | 95 | 8 | 1 | 1 | 2 | 0 |
| 8:30 - 8:40 | 2 | 0 | 76 | 7 | 3 | 0 | 3 | 0 |
| 8:40 - 8:50 | 3 | 0 | 39 | 6 | 1 | 1 | 3 | 1 |
| 8:50 - 9:00 | 0 | 0 | 63 | 7 | 1 | 0 | 4 | 1 |
| 9:00 - 9:10 | 1 | 0 | 65 | 7 | 0 | 0 | 1 | 1 |
| 9:10 - 9:20 | 1 | 0 | 68 | 3 | 1 | 0 | 2 | 1 |
| 9:20 - 9:30 | 0 | 1 | 60 | 4 | 0 | 0 | 1 | 0 |
| 9:30 - 9:40 | 1 | 0 | 45 | 5 | 2 | 0 | 2 | 1 |
| 9:40 - 9:50 | 0 | 1 | 81 | 4 | 2 | 0 | 2 | 1 |
| 9:50 - 10:00 | 0 | 0 | 39 | 0 | 0 | 0 | 0 | 0 |
| 10:00 - 10:10 | 0 | 0 | 54 | 6 | 2 | 0 | 3 | 0 |
| 10:10 - 10:20 | 0 | 0 | 76 | 13 | 1 | 1 | 6 | 0 |
| 10:20 - 10:30 | 0 | 1 | 75 | 7 | 2 | 1 | 6 | 0 |
| 10:30 - 10:40 | 2 | 0 | 68 | 4 | 1 | 0 | 3 | 1 |
| 10:40 - 10:50 | 0 | 3 | 73 | 3 | 1 | 1 | 2 | 0 |
| 10:50 - 11:00 | 1 | 0 | 56 | 5 | 2 | 0 | 1 | 2 |
| 11:00 - 11:10 | 3 | 1 | 45 | 6 | 1 | 1 | 2 | 0 |
| 11:10 - 11:20 | 1 | 0 | 54 | 2 | 1 | 1 | 4 | 0 |
| 11:20 - 11:30 | 1 | 0 | 39 | 7 | 7 | 0 | 3 | 1 |
| 11:30 - 11:40 | 1 | 0 | 41 | 5 | 1 | 0 | 1 | 3 |
| 11:40 - 11:50 | 2 | 1 | 42 | 4 | 5 | 0 | 1 | 0 |
| 11:50 - 12:00 | 1 | 0 | 45 | 2 | 4 | 0 | 1 | 0 |
| 12:00 - 12:10 | 1 | 0 | 51 | 6 | 5 | 0 | 2 | 0 |
| 12:10 - 11:20 | 0 | 0 | 43 | 5 | 0 | 1 | 0 | 0 |
| 12:20 - 12:30 | 2 | 0 | 37 | 4 | 1 | 0 | 4 | 1 |
| 12:30 - 12:40 | 2 | 2 | 50 | 3 | 1 | 1 | 0 | 1 |
| 12:40 - 12:50 | 1 | 0 | 40 | 6 | 1 | 1 | 1 | 0 |
| 12:50 - 13:00 | 1 | 1 | 56 | 2 | 3 | 0 | 2 | 0 |
| 13:00 - 13:10 | 0 | 0 | 42 | 4 | 2 | 1 | 0 | 1 |
| 13:10 - 13:20 | 3 | 0 | 50 | 2 | 1 | 0 | 1 | 1 |
| 13:20 - 13:30 | 0 | 0 | 53 | 3 | 0 | 0 | 0 | 0 |
| 13:30 - 13:40 | 0 | 0 | 61 | 6 | 3 | 0 | 2 | 1 |
| 13:40 - 13:50 | 0 | 0 | 66 | 3 | 1 | 0 | 4 | 0 |
| 13:50 - 14:00 | 3 | 0 | 54 | 4 | 1 | 0 | 1 | 0 |
| 14:00 - 14:10 | 1 | 0 | 64 | 3 | 2 | 0 | 2 | 1 |
| 14:10 - 14:20 | 1 | 1 | 58 | 2 | 3 | 0 | 0 | 2 |
| 14:20 - 14:30 | 1 | 0 | 47 | 7 | 3 | 1 | 3 | 0 |
| 14:30 - 14:40 | 1 | 1 | 57 | 9 | 2 | 0 | 0 | 0 |
| 14:40 - 14:50 | 0 | 1 | 40 | 4 | 1 | 0 | 1 | 1 |
| 14:50 - 15:00 | 2 | 0 | 59 | 10 | 1 | 1 | 1 | 1 |
| 15:00 - 15:10 | 0 | 2 | 47 | 6 | 1 | 0 | 3 | 1 |
| 15:10 - 15:20 | 0 | 0 | 58 | 7 | 2 | 0 | 1 | 2 |
| 15:20 - 15:30 | 0 | 0 | 58 | 4 | 2 | 0 | 4 | 1 |
| 15:30 - 15:40 | 1 | 0 | 49 | 2 | 1 | 0 | 1 | 0 |
| 15:40 - 15:50 | 1 | 0 | 46 | 6 | 2 | 0 | 3 | 0 |
| 15:50 - 16:00 | 0 | 0 | 52 | 7 | 0 | 0 | 4 | 2 |
| 16:00 - 16:10 | 0 | 0 | 55 | 8 | 1 | 0 | 2 | 0 |
| 16:10 - 16:20 | 1 | 2 | 56 | 13 | 0 | 1 | 3 | 3 |
| 16:20 - 16:30 | 0 | 0 | 63 | 5 | 1 | 1 | 2 | 1 |
| 16:30 - 16:40 | 0 | 0 | 46 | 10 | 2 | 0 | 2 | 0 |
| 16:40 - 16:50 | 0 | 1 | 47 | 6 | 1 | 0 | 1 | 0 |
| 16:50 - 17:00 | 0 | 0 | 69 | 10 | 2 | 0 | 3 | 0 |
| 17:00 - 17:10 | 0 | 0 | 39 | 6 | 1 | 1 | 3 | 0 |
| 17:10 - 17:20 | 0 | 1 | 65 | 14 | 1 | 1 | 0 | 0 |
| 17:20 - 17:30 | 1 | 0 | 50 | 3 | 1 | 0 | 2 | 1 |
| 17:30 - 17:40 | 0 | 1 | 69 | 11 | 2 | 0 | 4 | 0 |
| 17:40 - 17:50 | 1 | 1 | 56 | 1 | 0 | 0 | 2 | 0 |
| 17:50 - 18:00 | 1 | 0 | 45 | 6 | 1 | 0 | 3 | 1 |
| 18:00 - 18:10 | 1 | 1 | 60 | 2 | 1 | 1 | 3 | 1 |
| 18:10 - 18:20 | 0 | 1 | 55 | 3 | 2 | 2 | 0 | 0 |
| 18:20 - 18:30 | 0 | 0 | 89 | 3 | 0 | 2 | 1 | 0 |
| 18:30 - 18:40 | 0 | 0 | 25 | 1 | 2 | 1 | 2 | 0 |
| 18:40 - 18:50 | 0 | 1 | 52 | 3 | 1 | 2 | 0 | 0 |
| 18:50 - 19:00 | 2 | 0 | 47 | 2 | 0 | 0 | 2 | 0 |



DIRECTIONAL TRAFFIC COUNT

DATE 16/11/2017
LOCATION SC05
DIRECTION **CITY CENTRE**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 7:00 - 7:10 | 0 | 0 | 14 | 0 | 1 | 0 | 0 | 0 |
| 7:10 - 7:20 | 1 | 0 | 12 | 0 | 0 | 0 | 0 | 0 |
| 7:20 - 7:30 | 2 | 0 | 10 | 0 | 0 | 0 | 0 | 0 |
| 7:30 - 7:40 | 0 | 0 | 15 | 0 | 1 | 0 | 1 | 0 |
| 7:40 - 7:50 | 0 | 0 | 14 | 0 | 1 | 0 | 0 | 0 |
| 7:50 - 8:00 | 3 | 0 | 8 | 1 | 0 | 0 | 0 | 0 |
| 8:00 - 8:10 | 0 | 0 | 7 | 0 | 2 | 0 | 0 | 0 |
| 8:10 - 8:20 | 0 | 0 | 13 | 0 | 0 | 0 | 1 | 0 |
| 8:20 - 8:30 | 0 | 0 | 10 | 0 | 0 | 0 | 1 | 0 |
| 8:30 - 8:40 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 |
| 8:40 - 8:50 | 0 | 0 | 11 | 0 | 3 | 0 | 0 | 0 |
| 8:50 - 9:00 | 0 | 0 | 9 | 0 | 2 | 0 | 0 | 0 |
| 9:00 - 9:10 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 |
| 9:10 - 9:20 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| 9:20 - 9:30 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 |
| 9:30 - 9:40 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 |
| 9:40 - 9:50 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| 9:50 - 10:00 | 0 | 0 | 8 | 1 | 0 | 0 | 1 | 0 |
| 10:00 - 10:10 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| 10:10 - 10:20 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 |
| 10:20 - 10:30 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 |
| 10:30 - 10:40 | 1 | 0 | 8 | 0 | 0 | 0 | 1 | 0 |
| 10:40 - 10:50 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| 10:50 - 11:00 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 |
| 11:00 - 11:10 | 0 | 0 | 8 | 0 | 2 | 0 | 0 | 0 |
| 11:10 - 11:20 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 |
| 11:20 - 11:30 | 0 | 0 | 9 | 1 | 4 | 0 | 0 | 0 |
| 11:30 - 11:40 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 |
| 11:40 - 11:50 | 0 | 0 | 9 | 1 | 0 | 0 | 0 | 0 |
| 11:50 - 12:00 | 0 | 0 | 8 | 0 | 1 | 0 | 0 | 0 |
| 12:00 - 12:10 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| 12:10 - 11:20 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 1 |
| 12:20 - 12:30 | 4 | 0 | 16 | 0 | 1 | 0 | 1 | 0 |
| 12:30 - 12:40 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 |
| 12:40 - 12:50 | 0 | 0 | 4 | 0 | 1 | 0 | 0 | 0 |
| 12:50 - 13:00 | 0 | 0 | 5 | 0 | 1 | 0 | 0 | 0 |
| 13:00 - 13:10 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 13:10 - 13:20 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| 13:20 - 13:30 | 0 | 0 | 5 | 0 | 1 | 0 | 0 | 0 |
| 13:30 - 13:40 | 0 | 0 | 10 | 0 | 2 | 1 | 0 | 0 |
| 13:40 - 13:50 | 0 | 0 | 9 | 0 | 1 | 0 | 0 | 0 |
| 13:50 - 14:00 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 |
| 14:00 - 14:10 | 0 | 0 | 8 | 1 | 0 | 0 | 0 | 0 |
| 14:10 - 14:20 | 0 | 0 | 10 | 1 | 0 | 0 | 0 | 0 |
| 14:20 - 14:30 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 |
| 14:30 - 14:40 | 0 | 0 | 5 | 0 | 2 | 0 | 0 | 0 |
| 14:40 - 14:50 | 0 | 0 | 5 | 2 | 0 | 0 | 0 | 0 |
| 14:50 - 15:00 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 |
| 15:00 - 15:10 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 |
| 15:10 - 15:20 | 1 | 0 | 7 | 0 | 0 | 0 | 0 | 0 |
| 15:20 - 15:30 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| 15:30 - 15:40 | 0 | 0 | 5 | 1 | 0 | 0 | 0 | 0 |
| 15:40 - 15:50 | 0 | 0 | 7 | 1 | 1 | 0 | 0 | 0 |
| 15:50 - 16:00 | 0 | 0 | 7 | 0 | 2 | 0 | 0 | 0 |
| 16:00 - 16:10 | 0 | 0 | 8 | 1 | 2 | 0 | 0 | 0 |
| 16:10 - 16:20 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 |
| 16:20 - 16:30 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 |
| 16:30 - 16:40 | 0 | 0 | 5 | 0 | 1 | 0 | 0 | 0 |
| 16:40 - 16:50 | 0 | 0 | 4 | 1 | 1 | 0 | 0 | 0 |
| 16:50 - 17:00 | 1 | 0 | 5 | 0 | 0 | 0 | 0 | 0 |
| 17:00 - 17:10 | 1 | 0 | 4 | 1 | 0 | 0 | 0 | 0 |
| 17:10 - 17:20 | 1 | 0 | 11 | 2 | 1 | 0 | 0 | 0 |
| 17:20 - 17:30 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 |
| 17:30 - 17:40 | 0 | 0 | 5 | 1 | 0 | 0 | 0 | 0 |
| 17:40 - 17:50 | 1 | 0 | 2 | 1 | 0 | 1 | 1 | 0 |
| 17:50 - 18:00 | 0 | 0 | 9 | 0 | 0 | 1 | 0 | 0 |
| 18:00 - 18:10 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 |
| 18:10 - 18:20 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 18:20 - 18:30 | 0 | 0 | 5 | 0 | 1 | 0 | 0 | 0 |
| 18:30 - 18:40 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| 18:40 - 18:50 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 |
| 18:50 - 19:00 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |

DIRECTIONAL TRAFFIC COUNT

DATE 16/11/2017
LOCATION SC05
DIRECTION **STATE HOUSE**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 7:00 - 7:10 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 |
| 7:10 - 7:20 | 1 | 0 | 9 | 0 | 0 | 0 | 0 | 0 |
| 7:20 - 7:30 | 0 | 0 | 8 | 0 | 1 | 0 | 0 | 0 |
| 7:30 - 7:40 | 0 | 0 | 10 | 0 | 0 | 0 | 1 | 0 |
| 7:40 - 7:50 | 2 | 0 | 7 | 0 | 0 | 0 | 0 | 0 |
| 7:50 - 8:00 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 |
| 8:00 - 8:10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 |
| 8:10 - 8:20 | 1 | 0 | 5 | 0 | 1 | 0 | 1 | 0 |
| 8:20 - 8:30 | 0 | 0 | 7 | 0 | 1 | 0 | 1 | 0 |
| 8:30 - 8:40 | 1 | 0 | 8 | 0 | 0 | 0 | 0 | 0 |
| 8:40 - 8:50 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 0 |
| 8:50 - 9:00 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 |
| 9:00 - 9:10 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 |
| 9:10 - 9:20 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| 9:20 - 9:30 | 0 | 0 | 7 | 0 | 1 | 0 | 0 | 0 |
| 9:30 - 9:40 | 0 | 0 | 7 | 0 | 0 | 0 | 1 | 0 |
| 9:40 - 9:50 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| 9:50 - 10:00 | 0 | 0 | 9 | 0 | 1 | 0 | 0 | 0 |
| 10:00 - 10:10 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 10:10 - 10:20 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 |
| 10:20 - 10:30 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| 10:30 - 10:40 | 0 | 1 | 7 | 0 | 1 | 0 | 0 | 0 |
| 10:40 - 10:50 | 0 | 0 | 8 | 0 | 1 | 0 | 0 | 0 |
| 10:50 - 11:00 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 11:00 - 11:10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:10 - 11:20 | 0 | 0 | 11 | 0 | 1 | 1 | 0 | 0 |
| 11:20 - 11:30 | 0 | 0 | 8 | 0 | 0 | 1 | 0 | 0 |
| 11:30 - 11:40 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 |
| 11:40 - 11:50 | 0 | 0 | 9 | 1 | 0 | 0 | 0 | 0 |
| 11:50 - 12:00 | 1 | 0 | 8 | 0 | 1 | 0 | 0 | 0 |
| 12:00 - 12:10 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| 12:10 - 11:20 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| 12:20 - 12:30 | 0 | 0 | 16 | 0 | 1 | 0 | 1 | 0 |
| 12:30 - 12:40 | 0 | 0 | 9 | 0 | 1 | 0 | 0 | 0 |
| 12:40 - 12:50 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| 12:50 - 13:00 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 |
| 13:00 - 13:10 | 0 | 0 | 8 | 0 | 5 | 0 | 0 | 0 |
| 13:10 - 13:20 | 0 | 0 | 10 | 0 | 1 | 0 | 0 | 0 |
| 13:20 - 13:30 | 0 | 0 | 9 | 0 | 2 | 0 | 0 | 0 |
| 13:30 - 13:40 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| 13:40 - 13:50 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 |
| 13:50 - 14:00 | 0 | 0 | 20 | 0 | 1 | 0 | 1 | 0 |
| 14:00 - 14:10 | 1 | 0 | 6 | 1 | 0 | 0 | 0 | 0 |
| 14:10 - 14:20 | 0 | 0 | 9 | 1 | 0 | 0 | 0 | 0 |
| 14:20 - 14:30 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 |
| 14:30 - 14:40 | 0 | 0 | 4 | 0 | 1 | 1 | 0 | 0 |
| 14:40 - 14:50 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 |
| 14:50 - 15:00 | 1 | 0 | 4 | 0 | 0 | 0 | 2 | 0 |
| 15:00 - 15:10 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 |
| 15:10 - 15:20 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| 15:20 - 15:30 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| 15:30 - 15:40 | 0 | 0 | 7 | 0 | 1 | 0 | 0 | 0 |
| 15:40 - 15:50 | 0 | 0 | 11 | 1 | 0 | 1 | 0 | 0 |
| 15:50 - 16:00 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 |
| 16:00 - 16:10 | 0 | 0 | 6 | 0 | 0 | 0 | 1 | 0 |
| 16:10 - 16:20 | 0 | 0 | 9 | 0 | 0 | 0 | 1 | 0 |
| 16:20 - 16:30 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| 16:30 - 16:40 | 0 | 0 | 6 | 0 | 0 | 0 | 1 | 0 |
| 16:40 - 16:50 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| 16:50 - 17:00 | 1 | 0 | 16 | 1 | 0 | 0 | 0 | 0 |
| 17:00 - 17:10 | 0 | 0 | 7 | 1 | 0 | 0 | 0 | 0 |
| 17:10 - 17:20 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 |
| 17:20 - 17:30 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 |
| 17:30 - 17:40 | 0 | 0 | 15 | 1 | 1 | 0 | 0 | 0 |
| 17:40 - 17:50 | 0 | 0 | 8 | 1 | 0 | 1 | 0 | 0 |
| 17:50 - 18:00 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 |
| 18:00 - 18:10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 |
| 18:10 - 18:20 | 0 | 0 | 8 | 0 | 1 | 0 | 0 | 0 |
| 18:20 - 18:30 | 0 | 0 | 11 | 1 | 0 | 0 | 0 | 0 |
| 18:30 - 18:40 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 |
| 18:40 - 18:50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:50 - 19:00 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 |



DIRECTIONAL TRAFFIC COUNT

DATE 23/11/2017
LOCATION SC06
DIRECTION **MCHINJI R/A**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 7:00 - 7:10 | 1 | 0 | 42 | 0 | 4 | 0 | 2 | 0 |
| 7:10 - 7:20 | 2 | 0 | 28 | 0 | 1 | 0 | 0 | 0 |
| 7:20 - 7:30 | 1 | 0 | 29 | 0 | 1 | 0 | 1 | 0 |
| 7:30 - 7:40 | 1 | 0 | 19 | 0 | 1 | 0 | 2 | 0 |
| 7:40 - 7:50 | 2 | 0 | 28 | 0 | 2 | 0 | 3 | 0 |
| 7:50 - 8:00 | 1 | 0 | 38 | 1 | 1 | 0 | 2 | 0 |
| 8:00 - 8:10 | 0 | 0 | 49 | 4 | 2 | 0 | 3 | 0 |
| 8:10 - 8:20 | 0 | 0 | 26 | 1 | 2 | 0 | 1 | 0 |
| 8:20 - 8:30 | 1 | 1 | 27 | 2 | 0 | 0 | 2 | 0 |
| 8:30 - 8:40 | 0 | 0 | 20 | 1 | 4 | 0 | 1 | 1 |
| 8:40 - 8:50 | 1 | 0 | 13 | 1 | 2 | 0 | 1 | 0 |
| 8:50 - 9:00 | 1 | 0 | 26 | 0 | 1 | 0 | 0 | 0 |
| 9:00 - 9:10 | 1 | 1 | 14 | 2 | 5 | 0 | 1 | 1 |
| 9:10 - 9:20 | 0 | 0 | 17 | 0 | 2 | 0 | 0 | 0 |
| 9:20 - 9:30 | 1 | 0 | 21 | 2 | 1 | 0 | 1 | 1 |
| 9:30 - 9:40 | 0 | 0 | 20 | 1 | 4 | 0 | 3 | 0 |
| 9:40 - 9:50 | 1 | 0 | 14 | 0 | 2 | 0 | 4 | 0 |
| 9:50 - 10:00 | 1 | 1 | 15 | 0 | 1 | 0 | 8 | 0 |
| 10:00 - 10:10 | 0 | 0 | 26 | 1 | 3 | 0 | 4 | 2 |
| 10:10 - 10:20 | 0 | 0 | 6 | 2 | 0 | 0 | 0 | 0 |
| 10:20 - 10:30 | 1 | 0 | 11 | 0 | 2 | 1 | 3 | 1 |
| 10:30 - 10:40 | 0 | 0 | 5 | 0 | 4 | 0 | 0 | 0 |
| 10:40 - 10:50 | 0 | 0 | 14 | 0 | 4 | 0 | 3 | 0 |
| 10:50 - 11:00 | 1 | 0 | 14 | 0 | 2 | 0 | 5 | 2 |
| 11:00 - 11:10 | 0 | 0 | 13 | 0 | 2 | 1 | 3 | 0 |
| 11:10 - 11:20 | 0 | 0 | 14 | 1 | 1 | 0 | 6 | 0 |
| 11:20 - 11:30 | 1 | 0 | 11 | 0 | 1 | 1 | 3 | 0 |
| 11:30 - 11:40 | 1 | 0 | 16 | 0 | 3 | 0 | 5 | 0 |
| 11:40 - 11:50 | 1 | 0 | 17 | 0 | 1 | 0 | 3 | 0 |
| 11:50 - 12:00 | 2 | 0 | 7 | 0 | 1 | 0 | 2 | 0 |
| 12:00 - 12:10 | 0 | 0 | 32 | 2 | 3 | 0 | 3 | 0 |
| 12:10 - 11:20 | 0 | 0 | 18 | 0 | 1 | 1 | 0 | 0 |
| 12:20 - 12:30 | 0 | 0 | 14 | 0 | 1 | 2 | 0 | 0 |
| 12:30 - 12:40 | 0 | 0 | 15 | 0 | 2 | 0 | 3 | 1 |
| 12:40 - 12:50 | 1 | 0 | 17 | 0 | 2 | 0 | 1 | 0 |
| 12:50 - 13:00 | 0 | 0 | 13 | 0 | 2 | 0 | 2 | 0 |
| 13:00 - 13:10 | 0 | 0 | 19 | 1 | 1 | 0 | 3 | 0 |
| 13:10 - 13:20 | 1 | 0 | 16 | 0 | 0 | 1 | 0 | 0 |
| 13:20 - 13:30 | 0 | 0 | 14 | 0 | 1 | 1 | 0 | 0 |
| 13:30 - 13:40 | 0 | 0 | 12 | 0 | 1 | 1 | 2 | 0 |
| 13:40 - 13:50 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 |
| 13:50 - 14:00 | 0 | 0 | 15 | 1 | 2 | 0 | 1 | 1 |
| 14:00 - 14:10 | 0 | 0 | 11 | 1 | 1 | 2 | 2 | 0 |
| 14:10 - 14:20 | 0 | 0 | 14 | 0 | 2 | 0 | 0 | 0 |
| 14:20 - 14:30 | 0 | 1 | 13 | 0 | 1 | 1 | 3 | 0 |
| 14:30 - 14:40 | 2 | 0 | 15 | 0 | 1 | 0 | 2 | 0 |
| 14:40 - 14:50 | 0 | 0 | 30 | 0 | 1 | 0 | 4 | 0 |
| 14:50 - 15:00 | 0 | 0 | 17 | 1 | 1 | 0 | 3 | 0 |
| 15:00 - 15:10 | 0 | 0 | 20 | 0 | 0 | 1 | 0 | 0 |
| 15:10 - 15:20 | 0 | 1 | 11 | 1 | 0 | 0 | 0 | 0 |
| 15:20 - 15:30 | 0 | 0 | 19 | 1 | 3 | 0 | 4 | 0 |
| 15:30 - 15:40 | 0 | 0 | 24 | 0 | 1 | 0 | 3 | 0 |
| 15:40 - 15:50 | 0 | 0 | 15 | 2 | 2 | 0 | 2 | 1 |
| 15:50 - 16:00 | 0 | 0 | 26 | 4 | 0 | 0 | 2 | 0 |
| 16:00 - 16:10 | 0 | 0 | 27 | 1 | 0 | 1 | 0 | 0 |
| 16:10 - 16:20 | 0 | 0 | 14 | 1 | 1 | 2 | 2 | 1 |
| 16:20 - 16:30 | 0 | 0 | 28 | 0 | 2 | 0 | 3 | 0 |
| 16:30 - 16:40 | 1 | 0 | 21 | 0 | 1 | 1 | 3 | 0 |
| 16:40 - 16:50 | 0 | 0 | 22 | 1 | 2 | 0 | 1 | 0 |
| 16:50 - 17:00 | 0 | 0 | 27 | 1 | 2 | 1 | 4 | 1 |
| 17:00 - 17:10 | 1 | 0 | 22 | 1 | 2 | 0 | 2 | 0 |
| 17:10 - 17:20 | 1 | 1 | 24 | 1 | 1 | 0 | 0 | 0 |
| 17:20 - 17:30 | 1 | 0 | 19 | 2 | 2 | 0 | 2 | 0 |
| 17:30 - 17:40 | 0 | 0 | 36 | 0 | 2 | 0 | 2 | 1 |
| 17:40 - 17:50 | 1 | 0 | 28 | 2 | 2 | 0 | 1 | 1 |
| 17:50 - 18:00 | 0 | 0 | 30 | 1 | 1 | 0 | 1 | 0 |
| 18:00 - 18:10 | 0 | 0 | 12 | 1 | 2 | 0 | 3 | 0 |
| 18:10 - 18:20 | 0 | 0 | 21 | 0 | 3 | 0 | 3 | 1 |
| 18:20 - 18:30 | 0 | 0 | 26 | 0 | 0 | 0 | 1 | 1 |
| 18:30 - 18:40 | 0 | 0 | 19 | 0 | 1 | 0 | 0 | 0 |
| 18:40 - 18:50 | 0 | 0 | 15 | 3 | 0 | 0 | 0 | 0 |
| 18:50 - 19:00 | 0 | 0 | 10 | 0 | 0 | 0 | 1 | 1 |

## DIRECTIONAL TRAFFIC COUNT

DATE 23/11/2017
LOCATION SC06
DIRECTION **BLANTYRE**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 7:00 - 7:10 | 3 | 0 | 20 | 0 | 1 | 1 | 1 | 0 |
| 7:10 - 7:20 | 0 | 0 | 25 | 2 | 0 | 0 | 0 | 1 |
| 7:20 - 7:30 | 0 | 0 | 14 | 1 | 4 | 0 | 2 | 0 |
| 7:30 - 7:40 | 0 | 0 | 20 | 0 | 1 | 1 | 0 | 0 |
| 7:40 - 7:50 | 1 | 0 | 17 | 1 | 1 | 0 | 4 | 0 |
| 7:50 - 8:00 | 0 | 0 | 25 | 0 | 2 | 1 | 0 | 0 |
| 8:00 - 8:10 | 2 | 0 | 21 | 2 | 0 | 0 | 1 | 0 |
| 8:10 - 8:20 | 1 | 0 | 18 | 0 | 0 | 0 | 3 | 0 |
| 8:20 - 8:30 | 2 | 0 | 28 | 3 | 2 | 0 | 2 | 0 |
| 8:30 - 8:40 | 0 | 0 | 22 | 0 | 0 | 0 | 5 | 0 |
| 8:40 - 8:50 | 1 | 0 | 24 | 1 | 0 | 0 | 3 | 0 |
| 8:50 - 9:00 | 1 | 0 | 23 | 1 | 0 | 0 | 3 | 0 |
| 9:00 - 9:10 | 1 | 0 | 17 | 1 | 3 | 0 | 1 | 2 |
| 9:10 - 9:20 | 2 | 0 | 22 | 0 | 1 | 0 | 2 | 2 |
| 9:20 - 9:30 | 2 | 0 | 16 | 0 | 2 | 0 | 4 | 2 |
| 9:30 - 9:40 | 1 | 0 | 20 | 0 | 0 | 0 | 6 | 0 |
| 9:40 - 9:50 | 0 | 0 | 20 | 0 | 0 | 1 | 0 | 0 |
| 9:50 - 10:00 | 1 | 0 | 19 | 0 | 1 | 0 | 6 | 2 |
| 10:00 - 10:10 | 0 | 0 | 12 | 0 | 2 | 0 | 4 | 3 |
| 10:10 - 10:20 | 2 | 1 | 6 | 0 | 0 | 0 | 1 | 1 |
| 10:20 - 10:30 | 0 | 0 | 20 | 0 | 0 | 1 | 3 | 0 |
| 10:30 - 10:40 | 0 | 0 | 10 | 0 | 2 | 0 | 1 | 1 |
| 10:40 - 10:50 | 0 | 0 | 6 | 2 | 3 | 0 | 2 | 1 |
| 10:50 - 11:00 | 1 | 0 | 8 | 1 | 0 | 0 | 2 | 0 |
| 11:00 - 11:10 | 0 | 0 | 21 | 1 | 4 | 0 | 1 | 2 |
| 11:10 - 11:20 | 0 | 0 | 14 | 0 | 0 | 0 | 1 | 1 |
| 11:20 - 11:30 | 1 | 0 | 17 | 0 | 1 | 0 | 1 | 3 |
| 11:30 - 11:40 | 0 | 0 | 13 | 1 | 4 | 1 | 0 | 0 |
| 11:40 - 11:50 | 1 | 0 | 22 | 0 | 2 | 0 | 4 | 0 |
| 11:50 - 12:00 | 0 | 0 | 15 | 0 | 3 | 0 | 3 | 0 |
| 12:00 - 12:10 | 0 | 0 | 12 | 1 | 1 | 0 | 0 | 1 |
| 12:10 - 11:20 | 0 | 0 | 17 | 1 | 0 | 0 | 2 | 1 |
| 12:20 - 12:30 | 0 | 0 | 16 | 0 | 0 | 0 | 1 | 2 |
| 12:30 - 12:40 | 1 | 0 | 19 | 0 | 0 | 0 | 1 | 0 |
| 12:40 - 12:50 | 0 | 0 | 11 | 1 | 1 | 0 | 2 | 0 |
| 12:50 - 13:00 | 0 | 0 | 10 | 0 | 2 | 0 | 1 | 3 |
| 13:00 - 13:10 | 0 | 0 | 14 | 0 | 0 | 0 | 2 | 4 |
| 13:10 - 13:20 | 1 | 0 | 13 | 1 | 0 | 2 | 1 | 0 |
| 13:20 - 13:30 | 0 | 0 | 10 | 1 | 3 | 0 | 2 | 1 |
| 13:30 - 13:40 | 0 | 0 | 9 | 0 | 0 | 1 | 2 | 0 |
| 13:40 - 13:50 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 2 |
| 13:50 - 14:00 | 0 | 0 | 11 | 1 | 1 | 0 | 0 | 0 |
| 14:00 - 14:10 | 0 | 0 | 10 | 1 | 2 | 2 | 1 | 3 |
| 14:10 - 14:20 | 0 | 0 | 14 | 0 | 2 | 0 | 0 | 0 |
| 14:20 - 14:30 | 0 | 0 | 18 | 2 | 0 | 0 | 0 | 1 |
| 14:30 - 14:40 | 1 | 0 | 16 | 0 | 0 | 0 | 1 | 0 |
| 14:40 - 14:50 | 0 | 0 | 16 | 0 | 0 | 0 | 1 | 3 |
| 14:50 - 15:00 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 |
| 15:00 - 15:10 | 1 | 0 | 13 | 0 | 1 | 1 | 0 | 0 |
| 15:10 - 15:20 | 0 | 0 | 25 | 0 | 0 | 0 | 4 | 0 |
| 15:20 - 15:30 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 1 |
| 15:30 - 15:40 | 0 | 0 | 15 | 0 | 1 | 0 | 5 | 4 |
| 15:40 - 15:50 | 0 | 0 | 24 | 0 | 2 | 0 | 1 | 2 |
| 15:50 - 16:00 | 1 | 0 | 24 | 0 | 0 | 0 | 2 | 3 |
| 16:00 - 16:10 | 0 | 0 | 22 | 0 | 0 | 1 | 1 | 0 |
| 16:10 - 16:20 | 0 | 0 | 24 | 1 | 1 | 1 | 2 | 3 |
| 16:20 - 16:30 | 1 | 1 | 21 | 1 | 2 | 0 | 1 | 0 |
| 16:30 - 16:40 | 0 | 0 | 38 | 0 | 0 | 1 | 2 | 1 |
| 16:40 - 16:50 | 0 | 0 | 26 | 0 | 1 | 0 | 2 | 1 |
| 16:50 - 17:00 | 1 | 0 | 36 | 0 | 3 | 1 | 3 | 1 |
| 17:00 - 17:10 | 2 | 0 | 38 | 1 | 2 | 0 | 1 | 0 |
| 17:10 - 17:20 | 2 | 0 | 25 | 1 | 2 | 0 | 1 | 1 |
| 17:20 - 17:30 | 2 | 1 | 35 | 2 | 2 | 0 | 0 | 2 |
| 17:30 - 17:40 | 1 | 0 | 34 | 5 | 2 | 0 | 0 | 0 |
| 17:40 - 17:50 | 0 | 0 | 34 | 1 | 2 | 0 | 3 | 3 |
| 17:50 - 18:00 | 0 | 1 | 20 | 0 | 1 | 0 | 3 | 3 |
| 18:00 - 18:10 | 1 | 0 | 18 | 1 | 0 | 0 | 1 | 0 |
| 18:10 - 18:20 | 0 | 0 | 20 | 1 | 1 | 0 | 0 | 0 |
| 18:20 - 18:30 | 1 | 0 | 12 | 1 | 0 | 1 | 0 | 1 |
| 18:30 - 18:40 | 0 | 0 | 13 | 0 | 1 | 0 | 0 | 0 |
| 18:40 - 18:50 | 0 | 0 | 29 | 0 | 1 | 0 | 1 | 2 |
| 18:50 - 19:00 | 0 | 0 | 17 | 1 | 0 | 0 | 1 | 2 |



## DIRECTIONAL TRAFFIC COUNT

DATE 23/11/2017
LOCATION SC07
DIRECTION **AREA 6**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 7:00 - 7:10 | 0 | 2 | 103 | 1 | 4 | 0 | 2 | 0 |
| 7:10 - 7:20 | 3 | 0 | 142 | 1 | 3 | 0 | 0 | 0 |
| 7:20 - 7:30 | 1 | 2 | 104 | 1 | 2 | 0 | 1 | 0 |
| 7:30 - 7:40 | 2 | 2 | 96 | 0 | 4 | 0 | 3 | 0 |
| 7:40 - 7:50 | 1 | 4 | 106 | 0 | 2 | 0 | 1 | 0 |
| 7:50 - 8:00 | 0 | 1 | 138 | 0 | 3 | 0 | 1 | 0 |
| 8:00 - 8:10 | 0 | 2 | 104 | 0 | 2 | 0 | 2 | 0 |
| 8:10 - 8:20 | 1 | 3 | 96 | 0 | 3 | 0 | 3 | 0 |
| 8:20 - 8:30 | 1 | 0 | 87 | 0 | 2 | 0 | 2 | 0 |
| 8:30 - 8:40 | 1 | 2 | 93 | 1 | 5 | 0 | 1 | 1 |
| 8:40 - 8:50 | 0 | 2 | 99 | 0 | 2 | 2 | 0 | 0 |
| 8:50 - 9:00 | 1 | 1 | 81 | 1 | 1 | 0 | 0 | 0 |
| 9:00 - 9:10 | 0 | 0 | 95 | 0 | 3 | 0 | 4 | 0 |
| 9:10 - 9:20 | 0 | 0 | 80 | 2 | 4 | 0 | 4 | 0 |
| 9:20 - 9:30 | 3 | 1 | 75 | 0 | 3 | 0 | 0 | 0 |
| 9:30 - 9:40 | 1 | 1 | 83 | 0 | 3 | 0 | 1 | 1 |
| 9:40 - 9:50 | 1 | 2 | 80 | 1 | 1 | 0 | 2 | 0 |
| 9:50 - 10:00 | 0 | 1 | 80 | 0 | 6 | 0 | 4 | 0 |
| 10:00 - 10:10 | 1 | 0 | 69 | 0 | 2 | 0 | 1 | 0 |
| 10:10 - 10:20 | 0 | 0 | 72 | 0 | 3 | 1 | 0 | 1 |
| 10:20 - 10:30 | 2 | 0 | 90 | 0 | 7 | 0 | 0 | 2 |
| 10:30 - 10:40 | 3 | 0 | 70 | 0 | 3 | 0 | 1 | 1 |
| 10:40 - 10:50 | 0 | 1 | 88 | 1 | 6 | 1 | 1 | 0 |
| 10:50 - 11:00 | 2 | 0 | 101 | 0 | 4 | 0 | 0 | 2 |
| 11:00 - 11:10 | 1 | 1 | 67 | 0 | 0 | 0 | 0 | 0 |
| 11:10 - 11:20 | 5 | 2 | 92 | 3 | 4 | 0 | 0 | 1 |
| 11:20 - 11:30 | 0 | 0 | 96 | 1 | 5 | 0 | 1 | 0 |
| 11:30 - 11:40 | 2 | 1 | 124 | 0 | 4 | 0 | 1 | 1 |
| 11:40 - 11:50 | 1 | 6 | 80 | 1 | 3 | 0 | 0 | 1 |
| 11:50 - 12:00 | 1 | 3 | 55 | 0 | 6 | 0 | 1 | 0 |
| 12:00 - 12:10 | 1 | 3 | 87 | 1 | 3 | 0 | 3 | 0 |
| 12:10 - 11:20 | 0 | 3 | 79 | 1 | 2 | 0 | 2 | 1 |
| 12:20 - 12:30 | 0 | 1 | 75 | 0 | 0 | 0 | 2 | 1 |
| 12:30 - 12:40 | 0 | 2 | 100 | 0 | 2 | 0 | 1 | 0 |
| 12:40 - 12:50 | 1 | 1 | 96 | 0 | 2 | 0 | 2 | 1 |
| 12:50 - 13:00 | 1 | 2 | 75 | 1 | 2 | 0 | 5 | 2 |
| 13:00 - 13:10 | 1 | 0 | 83 | 0 | 1 | 0 | 3 | 1 |
| 13:10 - 13:20 | 2 | 1 | 78 | 0 | 3 | 0 | 0 | 1 |
| 13:20 - 13:30 | 0 | 2 | 84 | 0 | 3 | 0 | 1 | 1 |
| 13:30 - 13:40 | 0 | 0 | 83 | 3 | 6 | 0 | 1 | 0 |
| 13:40 - 13:50 | 0 | 3 | 85 | 0 | 8 | 0 | 0 | 1 |
| 13:50 - 14:00 | 0 | 1 | 98 | 0 | 10 | 0 | 2 | 0 |
| 14:00 - 14:10 | 0 | 2 | 98 | 0 | 5 | 0 | 1 | 0 |
| 14:10 - 14:20 | 0 | 5 | 91 | 1 | 1 | 2 | 2 | 1 |
| 14:20 - 14:30 | 0 | 1 | 78 | 2 | 3 | 0 | 1 | 0 |
| 14:30 - 14:40 | 4 | 2 | 77 | 0 | 2 | 0 | 5 | 3 |
| 14:40 - 14:50 | 2 | 3 | 95 | 1 | 1 | 1 | 2 | 0 |
| 14:50 - 15:00 | 1 | 2 | 91 | 0 | 16 | 0 | 2 | 0 |
| 15:00 - 15:10 | 1 | 2 | 155 | 0 | 4 | 0 | 3 | 0 |
| 15:10 - 15:20 | 0 | 0 | 105 | 1 | 2 | 0 | 1 | 0 |
| 15:20 - 15:30 | 1 | 0 | 74 | 1 | 3 | 0 | 2 | 0 |
| 15:30 - 15:40 | 0 | 1 | 93 | 0 | 4 | 0 | 0 | 0 |
| 15:40 - 15:50 | 0 | 2 | 78 | 0 | 7 | 0 | 3 | 0 |
| 15:50 - 16:00 | 1 | 0 | 80 | 1 | 3 | 0 | 1 | 0 |
| 16:00 - 16:10 | 0 | 3 | 81 | 0 | 1 | 0 | 1 | 1 |
| 16:10 - 16:20 | 1 | 0 | 82 | 0 | 3 | 0 | 1 | 0 |
| 16:20 - 16:30 | 0 | 3 | 105 | 0 | 3 | 0 | 2 | 0 |
| 16:30 - 16:40 | 2 | 1 | 88 | 0 | 3 | 0 | 0 | 0 |
| 16:40 - 16:50 | 3 | 1 | 79 | 2 | 7 | 1 | 0 | 0 |
| 16:50 - 17:00 | 0 | 0 | 78 | 2 | 2 | 0 | 2 | 0 |
| 17:00 - 17:10 | 4 | 2 | 69 | 0 | 4 | 0 | 2 | 0 |
| 17:10 - 17:20 | 1 | 0 | 94 | 1 | 1 | 0 | 3 | 0 |
| 17:20 - 17:30 | 3 | 0 | 74 | 1 | 1 | 0 | 1 | 2 |
| 17:30 - 17:40 | 2 | 1 | 97 | 2 | 2 | 0 | 1 | 0 |
| 17:40 - 17:50 | 0 | 1 | 76 | 0 | 1 | 0 | 3 | 0 |
| 17:50 - 18:00 | 1 | 1 | 86 | 2 | 1 | 0 | 0 | 0 |
| 18:00 - 18:10 | 0 | 3 | 64 | 0 | 2 | 0 | 1 | 0 |
| 18:10 - 18:20 | 1 | 0 | 70 | 0 | 0 | 1 | 0 | 0 |
| 18:20 - 18:30 | 2 | 0 | 54 | 0 | 1 | 0 | 0 | 0 |
| 18:30 - 18:40 | 0 | 0 | 49 | 0 | 1 | 0 | 0 | 0 |
| 18:40 - 18:50 | 0 | 1 | 83 | 0 | 1 | 0 | 0 | 2 |
| 18:50 - 19:00 | 1 | 0 | 43 | 0 | 2 | 0 | 0 | 0 |

DIRECTIONAL TRAFFIC COUNT

DATE 23/11/2017
LOCATION SC07
DIRECTION **MCHINJI**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 7:00 - 7:10 | 0 | 1 | 55 | 0 | 0 | 0 | 2 | 0 |
| 7:10 - 7:20 | 1 | 0 | 45 | 1 | 0 | 1 | 0 | 0 |
| 7:20 - 7:30 | 1 | 2 | 60 | 2 | 0 | 0 | 1 | 1 |
| 7:30 - 7:40 | 0 | 2 | 63 | 3 | 1 | 1 | 2 | 1 |
| 7:40 - 7:50 | 1 | 0 | 58 | 5 | 0 | 1 | 3 | 0 |
| 7:50 - 8:00 | 1 | 0 | 63 | 2 | 3 | 0 | 1 | 0 |
| 8:00 - 8:10 | 1 | 4 | 59 | 1 | 1 | 0 | 1 | 0 |
| 8:10 - 8:20 | 3 | 0 | 56 | 6 | 0 | 0 | 4 | 0 |
| 8:20 - 8:30 | 3 | 1 | 63 | 0 | 1 | 1 | 2 | 0 |
| 8:30 - 8:40 | 0 | 3 | 78 | 2 | 1 | 1 | 3 | 0 |
| 8:40 - 8:50 | 3 | 1 | 63 | 0 | 1 | 1 | 2 | 0 |
| 8:50 - 9:00 | 0 | 3 | 78 | 2 | 1 | 1 | 3 | 0 |
| 9:00 - 9:10 | 0 | 0 | 70 | 0 | 1 | 0 | 1 | 0 |
| 9:10 - 9:20 | 0 | 2 | 76 | 0 | 1 | 0 | 2 | 0 |
| 9:20 - 9:30 | 3 | 1 | 53 | 1 | 2 | 0 | 3 | 0 |
| 9:30 - 9:40 | 2 | 1 | 56 | 3 | 3 | 0 | 4 | 0 |
| 9:40 - 9:50 | 1 | 1 | 62 | 0 | 1 | 0 | 1 | 0 |
| 9:50 - 10:00 | 3 | 1 | 68 | 2 | 1 | 0 | 2 | 1 |
| 10:00 - 10:10 | 2 | 0 | 69 | 1 | 2 | 0 | 3 | 0 |
| 10:10 - 10:20 | 2 | 3 | 74 | 3 | 2 | 0 | 3 | 0 |
| 10:20 - 10:30 | 1 | 0 | 75 | 0 | 1 | 0 | 1 | 1 |
| 10:30 - 10:40 | 0 | 1 | 90 | 1 | 1 | 0 | 2 | 1 |
| 10:40 - 10:50 | 1 | 2 | 65 | 0 | 3 | 0 | 1 | 1 |
| 10:50 - 11:00 | 1 | 0 | 71 | 3 | 1 | 0 | 3 | 0 |
| 11:00 - 11:10 | 4 | 0 | 85 | 1 | 3 | 0 | 2 | 1 |
| 11:10 - 11:20 | 0 | 2 | 91 | 1 | 4 | 0 | 4 | 0 |
| 11:20 - 11:30 | 2 | 2 | 73 | 1 | 4 | 0 | 0 | 0 |
| 11:30 - 11:40 | 1 | 2 | 81 | 1 | 0 | 0 | 0 | 0 |
| 11:40 - 11:50 | 1 | 1 | 90 | 1 | 2 | 0 | 2 | 0 |
| 11:50 - 12:00 | 1 | 2 | 90 | 0 | 1 | 0 | 1 | 0 |
| 12:00 - 12:10 | 4 | 1 | 103 | 1 | 3 | 0 | 6 | 0 |
| 12:10 - 11:20 | 1 | 3 | 115 | 3 | 1 | 0 | 0 | 0 |
| 12:20 - 12:30 | 0 | 0 | 105 | 0 | 4 | 0 | 0 | 0 |
| 12:30 - 12:40 | 1 | 3 | 80 | 1 | 0 | 0 | 0 | 0 |
| 12:40 - 12:50 | 1 | 1 | 107 | 1 | 3 | 0 | 0 | 0 |
| 12:50 - 13:00 | 1 | 0 | 70 | 1 | 1 | 0 | 1 | 0 |
| 13:00 - 13:10 | 2 | 2 | 88 | 2 | 3 | 0 | 2 | 0 |
| 13:10 - 13:20 | 3 | 0 | 75 | 1 | 3 | 0 | 2 | 0 |
| 13:20 - 13:30 | 0 | 0 | 92 | 1 | 2 | 0 | 0 | 1 |
| 13:30 - 13:40 | 0 | 2 | 92 | 6 | 3 | 0 | 2 | 0 |
| 13:40 - 13:50 | 2 | 2 | 97 | 1 | 3 | 0 | 2 | 2 |
| 13:50 - 14:00 | 0 | 0 | 58 | 1 | 1 | 0 | 1 | 0 |
| 14:00 - 14:10 | 1 | 0 | 69 | 3 | 3 | 0 | 2 | 1 |
| 14:10 - 14:20 | 0 | 3 | 57 | 2 | 4 | 0 | 3 | 0 |
| 14:20 - 14:30 | 0 | 0 | 80 | 8 | 2 | 0 | 3 | 1 |
| 14:30 - 14:40 | 1 | 2 | 87 | 0 | 3 | 0 | 2 | 0 |
| 14:40 - 14:50 | 1 | 2 | 85 | 2 | 0 | 0 | 2 | 1 |
| 14:50 - 15:00 | 0 | 0 | 81 | 2 | 2 | 1 | 3 | 2 |
| 15:00 - 15:10 | 0 | 4 | 75 | 0 | 5 | 0 | 1 | 2 |
| 15:10 - 15:20 | 1 | 3 | 109 | 0 | 0 | 0 | 1 | 0 |
| 15:20 - 15:30 | 1 | 0 | 81 | 3 | 0 | 0 | 4 | 0 |
| 15:30 - 15:40 | 1 | 1 | 100 | 1 | 4 | 0 | 3 | 0 |
| 15:40 - 15:50 | 1 | 1 | 100 | 1 | 2 | 0 | 0 | 1 |
| 15:50 - 16:00 | 0 | 0 | 98 | 4 | 4 | 0 | 3 | 0 |
| 16:00 - 16:10 | 1 | 2 | 100 | 4 | 2 | 0 | 2 | 1 |
| 16:10 - 16:20 | 0 | 3 | 99 | 2 | 0 | 0 | 0 | 0 |
| 16:20 - 16:30 | 2 | 0 | 106 | 4 | 3 | 0 | 1 | 0 |
| 16:30 - 16:40 | 2 | 2 | 122 | 2 | 5 | 0 | 2 | 0 |
| 16:40 - 16:50 | 2 | 3 | 141 | 2 | 6 | 1 | 1 | 0 |
| 16:50 - 17:00 | 0 | 2 | 95 | 6 | 0 | 0 | 0 | 0 |
| 17:00 - 17:10 | 3 | 1 | 130 | 4 | 5 | 0 | 2 | 0 |
| 17:10 - 17:20 | 2 | 1 | 109 | 2 | 3 | 0 | 2 | 0 |
| 17:20 - 17:30 | 0 | 1 | 130 | 3 | 4 | 0 | 2 | 0 |
| 17:30 - 17:40 | 0 | 1 | 95 | 2 | 1 | 0 | 2 | 0 |
| 17:40 - 17:50 | 0 | 0 | 94 | 2 | 0 | 1 | 2 | 2 |
| 17:50 - 18:00 | 0 | 0 | 108 | 1 | 3 | 0 | 0 | 0 |
| 18:00 - 18:10 | 1 | 2 | 76 | 0 | 1 | 0 | 2 | 2 |
| 18:10 - 18:20 | 1 | 0 | 83 | 0 | 3 | 0 | 1 | 0 |
| 18:20 - 18:30 | 0 | 1 | 77 | 2 | 0 | 0 | 2 | 0 |
| 18:30 - 18:40 | 1 | 0 | 71 | 0 | 2 | 0 | 3 | 1 |
| 18:40 - 18:50 | 1 | 0 | 53 | 1 | 1 | 0 | 2 | 1 |
| 18:50 - 19:00 | 0 | 1 | 64 | 0 | 0 | 0 | 0 | 0 |



DIRECTIONAL TRAFFIC COUNT

DATE 23/11/2017
LOCATION SC08
DIRECTION **CITY CENTRE**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 7:00 - 7:10 | 0 | 0 | 245 | 6 | 1 | 3 | 1 | 1 |
| 7:10 - 7:20 | 0 | 0 | 192 | 2 | 3 | 0 | 1 | 0 |
| 7:20 - 7:30 | 1 | 2 | 345 | 5 | 1 | 2 | 0 | 0 |
| 7:30 - 7:40 | 1 | 0 | 315 | 2 | 1 | 0 | 4 | 1 |
| 7:40 - 7:50 | 0 | 0 | 340 | 5 | 0 | 0 | 0 | 0 |
| 7:50 - 8:00 | 0 | 1 | 360 | 3 | 4 | 1 | 0 | 1 |
| 8:00 - 8:10 | 2 | 1 | 245 | 3 | 2 | 0 | 2 | 1 |
| 8:10 - 8:20 | 2 | 0 | 210 | 3 | 1 | 1 | 0 | 1 |
| 8:20 - 8:30 | 0 | 1 | 226 | 2 | 4 | 0 | 1 | 0 |
| 8:30 - 8:40 | 0 | 1 | 223 | 6 | 1 | 0 | 0 | 0 |
| 8:40 - 8:50 | 1 | 1 | 225 | 10 | 5 | 1 | 4 | 1 |
| 8:50 - 9:00 | 0 | 1 | 105 | 5 | 1 | 0 | 0 | 2 |
| 9:00 - 9:10 | 0 | 0 | 73 | 2 | 2 | 0 | 0 | 0 |
| 9:10 - 9:20 | 0 | 0 | 75 | 6 | 5 | 2 | 1 | 0 |
| 9:20 - 9:30 | 0 | 1 | 79 | 4 | 2 | 0 | 5 | 0 |
| 9:30 - 9:40 | 0 | 0 | 75 | 9 | 2 | 0 | 2 | 0 |
| 9:40 - 9:50 | 0 | 0 | 78 | 6 | 7 | 1 | 3 | 0 |
| 9:50 - 10:00 | 2 | 0 | 66 | 4 | 5 | 0 | 1 | 1 |
| 10:00 - 10:10 | 1 | 0 | 116 | 7 | 2 | 0 | 3 | 0 |
| 10:10 - 10:20 | 1 | 2 | 70 | 5 | 2 | 0 | 4 | 2 |
| 10:20 - 10:30 | 0 | 1 | 75 | 3 | 6 | 1 | 1 | 0 |
| 10:30 - 10:40 | 1 | 0 | 75 | 5 | 2 | 0 | 4 | 3 |
| 10:40 - 10:50 | 1 | 0 | 62 | 6 | 4 | 0 | 1 | 1 |
| 10:50 - 11:00 | 0 | 0 | 62 | 3 | 3 | 1 | 1 | 0 |
| 11:00 - 11:10 | 2 | 1 | 105 | 10 | 1 | 0 | 1 | 1 |
| 11:10 - 11:20 | 0 | 2 | 69 | 7 | 0 | 1 | 1 | 1 |
| 11:20 - 11:30 | 0 | 1 | 90 | 13 | 5 | 0 | 2 | 2 |
| 11:30 - 11:40 | 0 | 0 | 61 | 4 | 3 | 0 | 2 | 0 |
| 11:40 - 11:50 | 0 | 2 | 79 | 9 | 7 | 1 | 4 | 0 |
| 11:50 - 12:00 | 1 | 1 | 105 | 12 | 4 | 0 | 0 | 0 |
| 12:00 - 12:10 | 0 | 0 | 100 | 5 | 1 | 1 | 0 | 1 |
| 12:10 - 11:20 | 1 | 0 | 150 | 7 | 4 | 2 | 0 | 1 |
| 12:20 - 12:30 | 2 | 2 | 100 | 5 | 1 | 0 | 2 | 1 |
| 12:30 - 12:40 | 0 | 0 | 155 | 7 | 0 | 0 | 0 | 0 |
| 12:40 - 12:50 | 0 | 0 | 185 | 10 | 5 | 1 | 2 | 1 |
| 12:50 - 13:00 | 0 | 0 | 205 | 8 | 1 | 1 | 2 | 0 |
| 13:00 - 13:10 | 1 | 4 | 65 | 8 | 2 | 0 | 0 | 1 |
| 13:10 - 13:20 | 0 | 0 | 102 | 3 | 0 | 1 | 2 | 5 |
| 13:20 - 13:30 | 1 | 0 | 116 | 4 | 6 | 0 | 0 | 2 |
| 13:30 - 13:40 | 0 | 0 | 120 | 9 | 2 | 0 | 0 | 4 |
| 13:40 - 13:50 | 0 | 1 | 150 | 5 | 1 | 1 | 1 | 4 |
| 13:50 - 14:00 | 0 | 0 | 92 | 3 | 5 | 2 | 0 | 3 |
| 14:00 - 14:10 | 1 | 0 | 108 | 6 | 6 | 0 | 0 | 0 |
| 14:10 - 14:20 | 0 | 0 | 95 | 10 | 3 | 1 | 0 | 0 |
| 14:20 - 14:30 | 0 | 1 | 105 | 1 | 0 | 0 | 0 | 1 |
| 14:30 - 14:40 | 0 | 0 | 124 | 11 | 3 | 1 | 0 | 2 |
| 14:40 - 14:50 | 0 | 0 | 90 | 3 | 1 | 1 | 2 | 1 |
| 14:50 - 15:00 | 0 | 0 | 100 | 7 | 0 | 1 | 0 | 4 |
| 15:00 - 15:10 | 0 | 1 | 90 | 6 | 4 | 1 | 1 | 6 |
| 15:10 - 15:20 | 0 | 4 | 90 | 1 | 3 | 1 | 0 | 4 |
| 15:20 - 15:30 | 1 | 0 | 85 | 4 | 2 | 0 | 0 | 11 |
| 15:30 - 15:40 | 1 | 0 | 85 | 2 | 2 | 1 | 1 | 8 |
| 15:40 - 15:50 | 2 | 3 | 84 | 5 | 6 | 1 | 0 | 4 |
| 15:50 - 16:00 | 1 | 1 | 81 | 3 | 1 | 0 | 0 | 5 |
| 16:00 - 16:10 | 0 | 0 | 70 | 4 | 1 | 0 | 1 | 2 |
| 16:10 - 16:20 | 0 | 0 | 65 | 6 | 0 | 1 | 0 | 1 |
| 16:20 - 16:30 | 1 | 2 | 75 | 5 | 0 | 1 | 0 | 2 |
| 16:30 - 16:40 | 0 | 0 | 82 | 7 | 5 | 1 | 0 | 3 |
| 16:40 - 16:50 | 0 | 0 | 56 | 3 | 1 | 2 | 0 | 3 |
| 16:50 - 17:00 | 2 | 0 | 55 | 8 | 4 | 2 | 0 | 3 |
| 17:00 - 17:10 | 0 | 0 | 101 | 3 | 1 | 2 | 1 | 4 |
| 17:10 - 17:20 | 0 | 1 | 64 | 5 | 2 | 1 | 0 | 2 |
| 17:20 - 17:30 | 1 | 0 | 67 | 2 | 1 | 3 | 2 | 4 |
| 17:30 - 17:40 | 0 | 0 | 47 | 3 | 2 | 3 | 2 | 1 |
| 17:40 - 17:50 | 1 | 0 | 75 | 4 | 2 | 6 | 2 | 2 |
| 17:50 - 18:00 | 1 | 0 | 65 | 3 | 5 | 0 | 0 | 1 |
| 18:00 - 18:10 | 1 | 2 | 77 | 4 | 4 | 0 | 2 | 6 |
| 18:10 - 18:20 | 0 | 0 | 50 | 5 | 1 | 0 | 6 | 3 |
| 18:20 - 18:30 | 1 | 0 | 80 | 5 | 3 | 0 | 1 | 4 |
| 18:30 - 18:40 | 0 | 0 | 23 | 0 | 0 | 0 | 0 | 0 |
| 18:40 - 18:50 | 1 | 0 | 95 | 0 | 2 | 1 | 0 | 0 |
| 18:50 - 19:00 | 1 | 0 | 48 | 3 | 5 | 1 | 0 | 3 |

A-211

DIRECTIONAL TRAFFIC COUNT

DATE 23/11/2017
LOCATION SC08
DIRECTION **AREA 18**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 7:00 - 7:10 | 0 | 0 | 79 | 7 | 2 | 0 | 1 | 0 |
| 7:10 - 7:20 | 0 | 1 | 79 | 7 | 2 | 0 | 0 | 0 |
| 7:20 - 7:30 | 1 | 1 | 90 | 7 | 1 | 1 | 0 | 0 |
| 7:30 - 7:40 | 1 | 1 | 60 | 9 | 2 | 0 | 1 | 0 |
| 7:40 - 7:50 | 0 | 0 | 79 | 7 | 2 | 0 | 1 | 0 |
| 7:50 - 8:00 | 0 | 1 | 79 | 7 | 2 | 0 | 0 | 0 |
| 8:00 - 8:10 | 0 | 0 | 58 | 7 | 3 | 0 | 4 | 1 |
| 8:10 - 8:20 | 3 | 0 | 65 | 9 | 3 | 0 | 1 | 1 |
| 8:20 - 8:30 | 0 | 1 | 56 | 10 | 6 | 0 | 1 | 2 |
| 8:30 - 8:40 | 1 | 3 | 67 | 8 | 1 | 1 | 2 | 1 |
| 8:40 - 8:50 | 1 | 0 | 76 | 12 | 6 | 1 | 1 | 0 |
| 8:50 - 9:00 | 0 | 0 | 43 | 4 | 0 | 0 | 5 | 1 |
| 9:00 - 9:10 | 0 | 1 | 33 | 7 | 2 | 1 | 1 | 0 |
| 9:10 - 9:20 | 0 | 0 | 68 | 10 | 1 | 0 | 4 | 2 |
| 9:20 - 9:30 | 0 | 0 | 64 | 8 | 1 | 0 | 1 | 0 |
| 9:30 - 9:40 | 0 | 2 | 70 | 3 | 7 | 2 | 3 | 1 |
| 9:40 - 9:50 | 0 | 1 | 73 | 5 | 0 | 1 | 3 | 1 |
| 9:50 - 10:00 | 0 | 2 | 63 | 9 | 2 | 0 | 1 | 2 |
| 10:00 - 10:10 | 0 | 1 | 95 | 9 | 1 | 0 | 4 | 6 |
| 10:10 - 10:20 | 0 | 0 | 46 | 5 | 2 | 0 | 0 | 0 |
| 10:20 - 10:30 | 1 | 0 | 61 | 4 | 2 | 0 | 3 | 2 |
| 10:30 - 10:40 | 0 | 0 | 22 | 1 | 1 | 0 | 0 | 1 |
| 10:40 - 10:50 | 2 | 0 | 66 | 5 | 3 | 1 | 0 | 6 |
| 10:50 - 11:00 | 1 | 2 | 60 | 2 | 6 | 0 | 1 | 5 |
| 11:00 - 11:10 | 1 | 0 | 67 | 5 | 0 | 0 | 0 | 3 |
| 11:10 - 11:20 | 0 | 0 | 77 | 16 | 1 | 0 | 1 | 0 |
| 11:20 - 11:30 | 0 | 2 | 86 | 17 | 2 | 0 | 0 | 1 |
| 11:30 - 11:40 | 0 | 0 | 50 | 20 | 0 | 0 | 0 | 1 |
| 11:40 - 11:50 | 0 | 0 | 92 | 10 | 1 | 2 | 0 | 1 |
| 11:50 - 12:00 | 0 | 2 | 104 | 5 | 0 | 0 | 1 | 0 |
| 12:00 - 12:10 | 0 | 0 | 131 | 5 | 1 | 1 | 0 | 4 |
| 12:10 - 11:20 | 1 | 1 | 137 | 1 | 0 | 0 | 1 | 0 |
| 12:20 - 12:30 | 0 | 0 | 140 | 1 | 0 | 1 | 3 | 1 |
| 12:30 - 12:40 | 0 | 0 | 80 | 15 | 0 | 0 | 3 | 5 |
| 12:40 - 12:50 | 0 | 0 | 75 | 0 | 0 | 0 | 0 | 1 |
| 12:50 - 13:00 | 0 | 0 | 81 | 2 | 0 | 0 | 0 | 0 |
| 13:00 - 13:10 | 0 | 0 | 75 | 0 | 0 | 3 | 2 | 1 |
| 13:10 - 13:20 | 0 | 0 | 80 | 6 | 0 | 0 | 0 | 5 |
| 13:20 - 13:30 | 0 | 0 | 65 | 2 | 0 | 0 | 0 | 0 |
| 13:30 - 13:40 | 0 | 0 | 90 | 15 | 0 | 0 | 0 | 5 |
| 13:40 - 13:50 | 0 | 0 | 55 | 1 | 0 | 0 | 1 | 0 |
| 13:50 - 14:00 | 0 | 0 | 75 | 10 | 1 | 0 | 0 | 0 |
| 14:00 - 14:10 | 0 | 0 | 65 | 0 | 0 | 0 | 0 | 2 |
| 14:10 - 14:20 | 0 | 0 | 26 | 2 | 0 | 0 | 0 | 0 |
| 14:20 - 14:30 | 0 | 0 | 50 | 1 | 0 | 0 | 0 | 0 |
| 14:30 - 14:40 | 0 | 1 | 53 | 2 | 0 | 0 | 0 | 1 |
| 14:40 - 14:50 | 0 | 1 | 75 | 6 | 0 | 1 | 0 | 1 |
| 14:50 - 15:00 | 0 | 1 | 51 | 5 | 0 | 2 | 1 | 1 |
| 15:00 - 15:10 | 0 | 0 | 76 | 6 | 5 | 0 | 2 | 0 |
| 15:10 - 15:20 | 0 | 0 | 76 | 6 | 6 | 0 | 4 | 0 |
| 15:20 - 15:30 | 0 | 2 | 75 | 3 | 1 | 0 | 1 | 0 |
| 15:30 - 15:40 | 0 | 0 | 90 | 3 | 2 | 0 | 1 | 0 |
| 15:40 - 15:50 | 1 | 1 | 128 | 6 | 2 | 3 | 0 | 2 |
| 15:50 - 16:00 | 2 | 3 | 106 | 4 | 3 | 0 | 2 | 0 |
| 16:00 - 16:10 | 2 | 0 | 113 | 6 | 7 | 1 | 3 | 0 |
| 16:10 - 16:20 | 3 | 0 | 120 | 7 | 2 | 0 | 2 | 0 |
| 16:20 - 16:30 | 2 | 1 | 92 | 2 | 4 | 0 | 1 | 0 |
| 16:30 - 16:40 | 0 | 0 | 125 | 5 | 1 | 3 | 1 | 0 |
| 16:40 - 16:50 | 0 | 0 | 106 | 2 | 3 | 0 | 1 | 0 |
| 16:50 - 17:00 | 1 | 1 | 117 | 5 | 3 | 5 | 1 | 1 |
| 17:00 - 17:10 | 0 | 1 | 150 | 8 | 4 | 3 | 1 | 0 |
| 17:10 - 17:20 | 0 | 0 | 110 | 1 | 0 | 0 | 3 | 1 |
| 17:20 - 17:30 | 0 | 0 | 91 | 4 | 0 | 0 | 4 | 1 |
| 17:30 - 17:40 | 0 | 0 | 90 | 2 | 1 | 0 | 0 | 0 |
| 17:40 - 17:50 | 1 | 1 | 93 | 0 | 0 | 0 | 2 | 4 |
| 17:50 - 18:00 | 0 | 0 | 60 | 2 | 1 | 0 | 0 | 0 |
| 18:00 - 18:10 | 0 | 0 | 70 | 1 | 1 | 0 | 0 | 0 |
| 18:10 - 18:20 | 0 | 0 | 85 | 1 | 2 | 0 | 0 | 0 |
| 18:20 - 18:30 | 0 | 0 | 68 | 0 | 3 | 0 | 2 | 0 |
| 18:30 - 18:40 | 0 | 0 | 115 | 3 | 0 | 1 | 2 | 1 |
| 18:40 - 18:50 | 0 | 0 | 85 | 1 | 2 | 0 | 3 | 0 |
| 18:50 - 19:00 | 0 | 0 | 75 | 0 | 0 | 0 | 2 | 0 |



DIRECTIONAL TRAFFIC COUNT

DATE 23/11/2017
LOCATION SC09
DIRECTION **MCHINJI**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 7:00 - 7:10 | 3 | 0 | 45 | 14 | 3 | 1 | 0 | 2 |
| 7:10 - 7:20 | 3 | 0 | 40 | 22 | 1 | 1 | 7 | 0 |
| 7:20 - 7:30 | 3 | 0 | 48 | 23 | 5 | 1 | 2 | 0 |
| 7:30 - 7:40 | 5 | 0 | 42 | 20 | 1 | 1 | 2 | 0 |
| 7:40 - 7:50 | 5 | 0 | 43 | 24 | 4 | 2 | 1 | 1 |
| 7:50 - 8:00 | 6 | 0 | 46 | 18 | 2 | 0 | 3 | 1 |
| 8:00 - 8:10 | 2 | 0 | 56 | 15 | 3 | 0 | 1 | 0 |
| 8:10 - 8:20 | 4 | 3 | 34 | 13 | 5 | 1 | 4 | 0 |
| 8:20 - 8:30 | 1 | 0 | 50 | 19 | 7 | 0 | 0 | 0 |
| 8:30 - 8:40 | 1 | 0 | 39 | 16 | 8 | 0 | 0 | 0 |
| 8:40 - 8:50 | 5 | 0 | 37 | 27 | 7 | 0 | 3 | 1 |
| 8:50 - 9:00 | 2 | 1 | 38 | 17 | 5 | 1 | 4 | 0 |
| 9:00 - 9:10 | 3 | 1 | 39 | 17 | 3 | 0 | 5 | 0 |
| 9:10 - 9:20 | 3 | 1 | 31 | 18 | 4 | 0 | 0 | 0 |
| 9:20 - 9:30 | 2 | 1 | 43 | 27 | 4 | 0 | 0 | 3 |
| 9:30 - 9:40 | 1 | 0 | 47 | 17 | 4 | 0 | 2 | 2 |
| 9:40 - 9:50 | 1 | 0 | 29 | 18 | 2 | 0 | 2 | 0 |
| 9:50 - 10:00 | 1 | 0 | 45 | 19 | 8 | 0 | 1 | 1 |
| 10:00 - 10:10 | 1 | 0 | 38 | 17 | 2 | 0 | 2 | 1 |
| 10:10 - 10:20 | 2 | 1 | 42 | 12 | 3 | 1 | 2 | 1 |
| 10:20 - 10:30 | 1 | 1 | 28 | 12 | 3 | 0 | 1 | 3 |
| 10:30 - 10:40 | 3 | 1 | 43 | 19 | 3 | 1 | 2 | 2 |
| 10:40 - 10:50 | 2 | 0 | 31 | 15 | 5 | 1 | 5 | 0 |
| 10:50 - 11:00 | 1 | 1 | 37 | 18 | 8 | 0 | 4 | 1 |
| 11:00 - 11:10 | 5 | 0 | 37 | 19 | 1 | 0 | 2 | 1 |
| 11:10 - 11:20 | 4 | 0 | 27 | 14 | 6 | 0 | 3 | 2 |
| 11:20 - 11:30 | 2 | 3 | 29 | 15 | 8 | 1 | 4 | 0 |
| 11:30 - 11:40 | 4 | 0 | 37 | 14 | 3 | 1 | 1 | 1 |
| 11:40 - 11:50 | 2 | 1 | 41 | 14 | 2 | 0 | 4 | 3 |
| 11:50 - 12:00 | 2 | 0 | 37 | 14 | 3 | 0 | 4 | 2 |
| 12:00 - 12:10 | 3 | 0 | 34 | 11 | 4 | 1 | 1 | 1 |
| 12:10 - 11:20 | 5 | 0 | 33 | 17 | 8 | 1 | 1 | 1 |
| 12:20 - 12:30 | 2 | 0 | 46 | 17 | 3 | 1 | 0 | 3 |
| 12:30 - 12:40 | 1 | 2 | 37 | 11 | 3 | 1 | 3 | 2 |
| 12:40 - 12:50 | 3 | 0 | 51 | 19 | 8 | 2 | 1 | 2 |
| 12:50 - 13:00 | 1 | 1 | 55 | 13 | 6 | 1 | 2 | 1 |
| 13:00 - 13:10 | 2 | 1 | 54 | 23 | 6 | 0 | 5 | 0 |
| 13:10 - 13:20 | 2 | 1 | 40 | 28 | 4 | 0 | 3 | 0 |
| 13:20 - 13:30 | 1 | 0 | 45 | 5 | 4 | 2 | 2 | 1 |
| 13:30 - 13:40 | 5 | 1 | 49 | 20 | 4 | 0 | 0 | 2 |
| 13:40 - 13:50 | 1 | 0 | 55 | 17 | 4 | 0 | 2 | 0 |
| 13:50 - 14:00 | 1 | 1 | 39 | 15 | 0 | 1 | 8 | 0 |
| 14:00 - 14:10 | 0 | 1 | 36 | 9 | 2 | 2 | 2 | 3 |
| 14:10 - 14:20 | 2 | 1 | 45 | 15 | 3 | 1 | 3 | 1 |
| 14:20 - 14:30 | 4 | 0 | 46 | 14 | 0 | 0 | 4 | 0 |
| 14:30 - 14:40 | 4 | 1 | 49 | 8 | 5 | 0 | 1 | 1 |
| 14:40 - 14:50 | 3 | 0 | 49 | 20 | 9 | 1 | 3 | 0 |
| 14:50 - 15:00 | 3 | 0 | 47 | 19 | 2 | 1 | 4 | 0 |
| 15:00 - 15:10 | 4 | 0 | 63 | 24 | 0 | 4 | 7 | 0 |
| 15:10 - 15:20 | 2 | 0 | 37 | 11 | 2 | 0 | 4 | 2 |
| 15:20 - 15:30 | 4 | 1 | 41 | 22 | 5 | 0 | 4 | 3 |
| 15:30 - 15:40 | 3 | 0 | 68 | 19 | 4 | 1 | 5 | 2 |
| 15:40 - 15:50 | 5 | 0 | 41 | 13 | 1 | 0 | 5 | 2 |
| 15:50 - 16:00 | 5 | 0 | 50 | 50 | 2 | 2 | 4 | 1 |
| 16:00 - 16:10 | 5 | 1 | 45 | 13 | 3 | 0 | 5 | 3 |
| 16:10 - 16:20 | 3 | 0 | 56 | 21 | 3 | 0 | 4 | 2 |
| 16:20 - 16:30 | 1 | 1 | 83 | 11 | 6 | 0 | 3 | 2 |
| 16:30 - 16:40 | 2 | 0 | 68 | 20 | 1 | 0 | 2 | 1 |
| 16:40 - 16:50 | 3 | 0 | 48 | 13 | 3 | 0 | 2 | 2 |
| 16:50 - 17:00 | 2 | 0 | 67 | 17 | 4 | 0 | 2 | 1 |
| 17:00 - 17:10 | 3 | 3 | 62 | 16 | 8 | 0 | 2 | 0 |
| 17:10 - 17:20 | 7 | 1 | 61 | 15 | 4 | 2 | 3 | 4 |
| 17:20 - 17:30 | 4 | 0 | 53 | 10 | 9 | 0 | 0 | 1 |
| 17:30 - 17:40 | 1 | 2 | 66 | 12 | 3 | 1 | 3 | 2 |
| 17:40 - 17:50 | 4 | 2 | 63 | 19 | 6 | 2 | 3 | 1 |
| 17:50 - 18:00 | 3 | 0 | 75 | 11 | 4 | 0 | 4 | 3 |
| 18:00 - 18:10 | 3 | 0 | 72 | 36 | 4 | 0 | 3 | 7 |
| 18:10 - 18:20 | 4 | 0 | 33 | 7 | 2 | 2 | 3 | 5 |
| 18:20 - 18:30 | 7 | 0 | 50 | 13 | 2 | 1 | 1 | 1 |
| 18:30 - 18:40 | 6 | 0 | 53 | 10 | 3 | 0 | 1 | 6 |
| 18:40 - 18:50 | 9 | 1 | 41 | 19 | 1 | 0 | 2 | 0 |
| 18:50 - 19:00 | 6 | 4 | 53 | 13 | 0 | 0 | 1 | 3 |

DIRECTIONAL TRAFFIC COUNT

DATE 23/11/2017
LOCATION SC09
DIRECTION **BLANTYRE**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 7:00 - 7:10 | 6 | 0 | 77 | 33 | 1 | 2 | 8 | 1 |
| 7:10 - 7:20 | 5 | 0 | 72 | 21 | 0 | 0 | 8 | 1 |
| 7:20 - 7:30 | 8 | 1 | 63 | 24 | 2 | 1 | 3 | 0 |
| 7:30 - 7:40 | 3 | 0 | 33 | 23 | 3 | 0 | 2 | 2 |
| 7:40 - 7:50 | 7 | 0 | 55 | 25 | 4 | 0 | 6 | 0 |
| 7:50 - 8:00 | 2 | 0 | 41 | 18 | 3 | 0 | 2 | 3 |
| 8:00 - 8:10 | 3 | 0 | 53 | 27 | 4 | 0 | 4 | 2 |
| 8:10 - 8:20 | 1 | 0 | 43 | 21 | 1 | 0 | 2 | 5 |
| 8:20 - 8:30 | 1 | 0 | 47 | 18 | 1 | 1 | 1 | 3 |
| 8:30 - 8:40 | 6 | 0 | 31 | 16 | 2 | 2 | 2 | 5 |
| 8:40 - 8:50 | 3 | 1 | 66 | 19 | 7 | 0 | 4 | 2 |
| 8:50 - 9:00 | 3 | 0 | 41 | 8 | 1 | 0 | 1 | 3 |
| 9:00 - 9:10 | 1 | 1 | 55 | 22 | 2 | 0 | 5 | 2 |
| 9:10 - 9:20 | 0 | 0 | 27 | 25 | 3 | 0 | 1 | 5 |
| 9:20 - 9:30 | 1 | 0 | 41 | 20 | 2 | 0 | 1 | 2 |
| 9:30 - 9:40 | 1 | 1 | 36 | 20 | 0 | 0 | 4 | 2 |
| 9:40 - 9:50 | 2 | 0 | 41 | 19 | 0 | 0 | 6 | 2 |
| 9:50 - 10:00 | 0 | 0 | 42 | 17 | 2 | 1 | 5 | 3 |
| 10:00 - 10:10 | 2 | 0 | 40 | 15 | 2 | 0 | 5 | 1 |
| 10:10 - 10:20 | 2 | 0 | 35 | 13 | 3 | 0 | 5 | 1 |
| 10:20 - 10:30 | 2 | 1 | 30 | 17 | 1 | 0 | 6 | 1 |
| 10:30 - 10:40 | 0 | 1 | 44 | 14 | 7 | 1 | 7 | 3 |
| 10:40 - 10:50 | 2 | 1 | 53 | 10 | 2 | 0 | 8 | 0 |
| 10:50 - 11:00 | 1 | 1 | 39 | 10 | 4 | 0 | 8 | 0 |
| 11:00 - 11:10 | 3 | 2 | 36 | 8 | 4 | 0 | 2 | 0 |
| 11:10 - 11:20 | 8 | 0 | 41 | 10 | 0 | 0 | 2 | 5 |
| 11:20 - 11:30 | 1 | 3 | 36 | 19 | 2 | 1 | 3 | 2 |
| 11:30 - 11:40 | 3 | 0 | 38 | 21 | 1 | 1 | 6 | 0 |
| 11:40 - 11:50 | 1 | 1 | 45 | 9 | 4 | 1 | 0 | 1 |
| 11:50 - 12:00 | 2 | 0 | 28 | 13 | 5 | 0 | 2 | 0 |
| 12:00 - 12:10 | 2 | 0 | 37 | 11 | 2 | 1 | 2 | 2 |
| 12:10 - 11:20 | 2 | 0 | 36 | 12 | 0 | 0 | 3 | 0 |
| 12:20 - 12:30 | 2 | 0 | 28 | 7 | 8 | 0 | 3 | 1 |
| 12:30 - 12:40 | 4 | 0 | 39 | 14 | 5 | 0 | 2 | 1 |
| 12:40 - 12:50 | 2 | 1 | 40 | 13 | 2 | 0 | 3 | 0 |
| 12:50 - 13:00 | 2 | 1 | 41 | 12 | 1 | 0 | 8 | 2 |
| 13:00 - 13:10 | 2 | 1 | 30 | 24 | 1 | 0 | 6 | 1 |
| 13:10 - 13:20 | 3 | 0 | 52 | 30 | 0 | 0 | 9 | 1 |
| 13:20 - 13:30 | 1 | 1 | 40 | 32 | 5 | 0 | 8 | 2 |
| 13:30 - 13:40 | 1 | 1 | 40 | 13 | 0 | 0 | 8 | 0 |
| 13:40 - 13:50 | 1 | 0 | 35 | 17 | 0 | 3 | 6 | 1 |
| 13:50 - 14:00 | 2 | 0 | 65 | 17 | 0 | 3 | 1 | 1 |
| 14:00 - 14:10 | 0 | 0 | 51 | 11 | 0 | 0 | 5 | 0 |
| 14:10 - 14:20 | 3 | 0 | 46 | 12 | 0 | 1 | 1 | 0 |
| 14:20 - 14:30 | 3 | 1 | 53 | 17 | 1 | 1 | 5 | 1 |
| 14:30 - 14:40 | 0 | 0 | 55 | 13 | 2 | 3 | 5 | 0 |
| 14:40 - 14:50 | 3 | 0 | 52 | 22 | 2 | 1 | 5 | 0 |
| 14:50 - 15:00 | 8 | 1 | 37 | 20 | 2 | 1 | 1 | 1 |
| 15:00 - 15:10 | 5 | 0 | 68 | 18 | 2 | 0 | 3 | 0 |
| 15:10 - 15:20 | 6 | 0 | 37 | 15 | 1 | 0 | 2 | 3 |
| 15:20 - 15:30 | 7 | 1 | 57 | 22 | 2 | 0 | 1 | 1 |
| 15:30 - 15:40 | 0 | 0 | 45 | 22 | 1 | 0 | 6 | 0 |
| 15:40 - 15:50 | 2 | 0 | 48 | 18 | 1 | 3 | 2 | 0 |
| 15:50 - 16:00 | 2 | 0 | 62 | 17 | 1 | 0 | 6 | 3 |
| 16:00 - 16:10 | 4 | 0 | 36 | 12 | 4 | 2 | 2 | 0 |
| 16:10 - 16:20 | 4 | 0 | 40 | 7 | 1 | 0 | 5 | 1 |
| 16:20 - 16:30 | 2 | 2 | 42 | 20 | 2 | 1 | 6 | 1 |
| 16:30 - 16:40 | 4 | 1 | 44 | 22 | 2 | 1 | 4 | 2 |
| 16:40 - 16:50 | 1 | 0 | 48 | 15 | 2 | 1 | 2 | 1 |
| 16:50 - 17:00 | 3 | 2 | 52 | 15 | 4 | 3 | 3 | 3 |
| 17:00 - 17:10 | 3 | 0 | 56 | 13 | 2 | 0 | 4 | 1 |
| 17:10 - 17:20 | 1 | 2 | 58 | 14 | 4 | 1 | 2 | 2 |
| 17:20 - 17:30 | 3 | 0 | 44 | 10 | 3 | 1 | 2 | 0 |
| 17:30 - 17:40 | 4 | 0 | 50 | 20 | 4 | 0 | 2 | 1 |
| 17:40 - 17:50 | 3 | 0 | 51 | 13 | 5 | 1 | 1 | 0 |
| 17:50 - 18:00 | 0 | 4 | 63 | 8 | 3 | 0 | 2 | 0 |
| 18:00 - 18:10 | 6 | 0 | 58 | 16 | 2 | 0 | 2 | 2 |
| 18:10 - 18:20 | 5 | 0 | 50 | 13 | 3 | 2 | 1 | 3 |
| 18:20 - 18:30 | 5 | 0 | 51 | 11 | 3 | 2 | 5 | 4 |
| 18:30 - 18:40 | 8 | 0 | 73 | 14 | 5 | 2 | 1 | 2 |
| 18:40 - 18:50 | 3 | 1 | 46 | 11 | 1 | 0 | 3 | 3 |
| 18:50 - 19:00 | 5 | 0 | 50 | 8 | 4 | 0 | 3 | 5 |



DIRECTIONAL TRAFFIC COUNT

DATE 23/11/2017
LOCATION SC10
DIRECTION **CITY CENTRE**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 7:00 - 7:10 | 1 | 0 | 130 | 6 | 2 | 3 | 0 | 1 |
| 7:10 - 7:20 | 8 | 0 | 180 | 9 | 4 | 2 | 1 | 0 |
| 7:20 - 7:30 | 6 | 9 | 160 | 2 | 0 | 1 | 0 | 0 |
| 7:30 - 7:40 | 1 | 0 | 260 | 7 | 5 | 0 | 0 | 2 |
| 7:40 - 7:50 | 1 | 2 | 150 | 7 | 3 | 0 | 1 | 1 |
| 7:50 - 8:00 | 0 | 1 | 110 | 3 | 0 | 1 | 2 | 1 |
| 8:00 - 8:10 | 3 | 3 | 147 | 5 | 2 | 0 | 0 | 1 |
| 8:10 - 8:20 | 2 | 2 | 155 | 8 | 2 | 0 | 0 | 4 |
| 8:20 - 8:30 | 1 | 2 | 170 | 11 | 3 | 0 | 2 | 0 |
| 8:30 - 8:40 | 3 | 1 | 95 | 3 | 0 | 2 | 1 | 2 |
| 8:40 - 8:50 | 1 | 2 | 200 | 5 | 3 | 0 | 0 | 3 |
| 8:50 - 9:00 | 5 | 2 | 160 | 9 | 2 | 3 | 1 | 1 |
| 9:00 - 9:10 | 3 | 0 | 100 | 12 | 19 | 0 | 0 | 0 |
| 9:10 - 9:20 | 1 | 6 | 30 | 18 | 9 | 0 | 0 | 0 |
| 9:20 - 9:30 | 0 | 1 | 135 | 9 | 9 | 0 | 0 | 0 |
| 9:30 - 9:40 | 1 | 6 | 126 | 14 | 6 | 0 | 0 | 0 |
| 9:40 - 9:50 | 2 | 2 | 124 | 11 | 2 | 0 | 1 | 0 |
| 9:50 - 10:00 | 2 | 4 | 137 | 14 | 5 | 0 | 2 | 0 |
| 10:00 - 10:10 | 1 | 3 | 56 | 14 | 5 | 0 | 2 | 0 |
| 10:10 - 10:20 | 2 | 0 | 104 | 9 | 3 | 0 | 1 | 0 |
| 10:20 - 10:30 | 3 | 4 | 135 | 11 | 2 | 0 | 1 | 1 |
| 10:30 - 10:40 | 4 | 2 | 145 | 16 | 6 | 1 | 1 | 1 |
| 10:40 - 10:50 | 1 | 1 | 126 | 8 | 3 | 1 | 2 | 1 |
| 10:50 - 11:00 | 0 | 3 | 110 | 12 | 4 | 0 | 0 | 0 |
| 11:00 - 11:10 | 5 | 3 | 165 | 10 | 2 | 1 | 5 | 0 |
| 11:10 - 11:20 | 6 | 1 | 145 | 18 | 3 | 2 | 0 | 1 |
| 11:20 - 11:30 | 1 | 2 | 172 | 11 | 6 | 1 | 1 | 1 |
| 11:30 - 11:40 | 1 | 1 | 173 | 15 | 2 | 1 | 1 | 0 |
| 11:40 - 11:50 | 2 | 6 | 195 | 12 | 2 | 0 | 2 | 0 |
| 11:50 - 12:00 | 5 | 1 | 183 | 23 | 3 | 0 | 2 | 1 |
| 12:00 - 12:10 | 2 | 1 | 230 | 15 | 3 | 0 | 6 | 0 |
| 12:10 - 11:20 | 6 | 2 | 153 | 15 | 1 | 0 | 2 | 0 |
| 12:20 - 12:30 | 1 | 1 | 172 | 11 | 6 | 1 | 3 | 0 |
| 12:30 - 12:40 | 0 | 6 | 171 | 20 | 6 | 0 | 2 | 0 |
| 12:40 - 12:50 | 3 | 3 | 155 | 16 | 6 | 1 | 0 | 0 |
| 12:50 - 13:00 | 2 | 2 | 165 | 7 | 2 | 0 | 0 | 0 |
| 13:00 - 13:10 | 1 | 2 | 140 | 4 | 3 | 1 | 3 | 0 |
| 13:10 - 13:20 | 0 | 2 | 89 | 4 | 3 | 0 | 1 | 1 |
| 13:20 - 13:30 | 2 | 3 | 134 | 15 | 2 | 1 | 0 | 1 |
| 13:30 - 13:40 | 2 | 1 | 91 | 5 | 3 | 2 | 1 | 1 |
| 13:40 - 13:50 | 1 | 2 | 84 | 15 | 6 | 0 | 1 | 1 |
| 13:50 - 14:00 | 1 | 0 | 127 | 7 | 8 | 0 | 0 | 0 |
| 14:00 - 14:10 | 2 | 4 | 123 | 4 | 0 | 0 | 2 | 1 |
| 14:10 - 14:20 | 0 | 11 | 104 | 4 | 2 | 0 | 0 | 1 |
| 14:20 - 14:30 | 2 | 5 | 136 | 13 | 3 | 0 | 2 | 1 |
| 14:30 - 14:40 | 0 | 2 | 104 | 12 | 6 | 0 | 1 | 0 |
| 14:40 - 14:50 | 1 | 2 | 146 | 10 | 5 | 0 | 0 | 0 |
| 14:50 - 15:00 | 0 | 2 | 82 | 4 | 1 | 1 | 1 | 1 |
| 15:00 - 15:10 | 4 | 2 | 175 | 12 | 7 | 2 | 2 | 0 |
| 15:10 - 15:20 | 2 | 1 | 125 | 2 | 6 | 0 | 1 | 1 |
| 15:20 - 15:30 | 1 | 2 | 168 | 11 | 1 | 0 | 4 | 0 |
| 15:30 - 15:40 | 3 | 3 | 185 | 11 | 4 | 0 | 1 | 1 |
| 15:40 - 15:50 | 3 | 4 | 240 | 12 | 4 | 1 | 4 | 3 |
| 15:50 - 16:00 | 2 | 2 | 153 | 7 | 3 | 0 | 2 | 0 |
| 16:00 - 16:10 | 2 | 4 | 206 | 21 | 4 | 1 | 2 | 0 |
| 16:10 - 16:20 | 4 | 5 | 143 | 8 | 4 | 0 | 0 | 0 |
| 16:20 - 16:30 | 4 | 1 | 135 | 5 | 3 | 2 | 1 | 1 |
| 16:30 - 16:40 | 0 | 0 | 130 | 11 | 4 | 0 | 2 | 0 |
| 16:40 - 16:50 | 0 | 1 | 170 | 20 | 1 | 1 | 1 | 2 |
| 16:50 - 17:00 | 1 | 0 | 150 | 11 | 1 | 0 | 2 | 0 |
| 17:00 - 17:10 | 1 | 0 | 79 | 8 | 5 | 1 | 1 | 0 |
| 17:10 - 17:20 | 2 | 0 | 103 | 7 | 3 | 0 | 1 | 1 |
| 17:20 - 17:30 | 1 | 0 | 76 | 6 | 3 | 0 | 0 | 0 |
| 17:30 - 17:40 | 0 | 0 | 85 | 7 | 4 | 0 | 1 | 0 |
| 17:40 - 17:50 | 2 | 1 | 100 | 5 | 1 | 0 | 2 | 1 |
| 17:50 - 18:00 | 3 | 2 | 89 | 17 | 2 | 1 | 2 | 1 |
| 18:00 - 18:10 | 0 | 1 | 93 | 7 | 3 | 0 | 0 | 0 |
| 18:10 - 18:20 | 0 | 0 | 84 | 8 | 3 | 0 | 0 | 0 |
| 18:20 - 18:30 | 0 | 0 | 88 | 3 | 2 | 0 | 1 | 0 |
| 18:30 - 18:40 | 1 | 0 | 94 | 4 | 2 | 1 | 0 | 2 |
| 18:40 - 18:50 | 0 | 2 | 67 | 5 | 2 | 1 | 0 | 2 |
| 18:50 - 19:00 | 0 | 0 | 54 | 6 | 1 | 0 | 1 | 1 |

## DIRECTIONAL TRAFFIC COUNT

DATE 23/11/2017
LOCATION SC10
DIRECTION **LLW OLD TOWN**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 7:00 - 7:10 | 3 | 1 | 174 | 19 | 2 | 0 | 1 | 0 |
| 7:10 - 7:20 | 2 | 1 | 171 | 34 | 2 | 3 | 2 | 0 |
| 7:20 - 7:30 | 2 | 2 | 225 | 40 | 5 | 0 | 1 | 0 |
| 7:30 - 7:40 | 3 | 3 | 305 | 65 | 8 | 0 | 0 | 0 |
| 7:40 - 7:50 | 1 | 1 | 230 | 45 | 1 | 1 | 1 | 0 |
| 7:50 - 8:00 | 1 | 1 | 235 | 40 | 0 | 0 | 5 | 0 |
| 8:00 - 8:10 | 1 | 5 | 84 | 26 | 5 | 1 | 2 | 0 |
| 8:10 - 8:20 | 5 | 2 | 135 | 30 | 3 | 1 | 1 | 0 |
| 8:20 - 8:30 | 7 | 2 | 260 | 70 | 6 | 2 | 0 | 0 |
| 8:30 - 8:40 | 3 | 3 | 265 | 55 | 2 | 4 | 2 | 4 |
| 8:40 - 8:50 | 2 | 1 | 140 | 4 | 1 | 1 | 0 | 0 |
| 8:50 - 9:00 | 3 | 2 | 95 | 13 | 0 | 1 | 2 | 0 |
| 9:00 - 9:10 | 0 | 2 | 114 | 10 | 3 | 0 | 1 | 0 |
| 9:10 - 9:20 | 0 | 2 | 116 | 18 | 7 | 0 | 1 | 0 |
| 9:20 - 9:30 | 4 | 2 | 130 | 19 | 2 | 1 | 3 | 0 |
| 9:30 - 9:40 | 0 | 2 | 180 | 15 | 2 | 0 | 4 | 1 |
| 9:40 - 9:50 | 3 | 3 | 143 | 7 | 5 | 0 | 0 | 1 |
| 9:50 - 10:00 | 6 | 2 | 158 | 16 | 3 | 1 | 2 | 0 |
| 10:00 - 10:10 | 1 | 4 | 145 | 0 | 0 | 0 | 3 | 0 |
| 10:10 - 10:20 | 1 | 1 | 158 | 10 | 1 | 0 | 2 | 0 |
| 10:20 - 10:30 | 5 | 2 | 175 | 14 | 4 | 1 | 4 | 2 |
| 10:30 - 10:40 | 1 | 2 | 242 | 13 | 3 | 2 | 3 | 0 |
| 10:40 - 10:50 | 1 | 6 | 230 | 13 | 0 | 1 | 4 | 0 |
| 10:50 - 11:00 | 4 | 1 | 227 | 21 | 0 | 0 | 4 | 1 |
| 11:00 - 11:10 | 1 | 1 | 210 | 10 | 13 | 0 | 0 | 0 |
| 11:10 - 11:20 | 0 | 0 | 165 | 11 | 4 | 2 | 1 | 2 |
| 11:20 - 11:30 | 1 | 1 | 170 | 4 | 5 | 4 | 2 | 1 |
| 11:30 - 11:40 | 6 | 2 | 170 | 22 | 3 | 0 | 0 | 0 |
| 11:40 - 11:50 | 0 | 2 | 170 | 10 | 9 | 0 | 1 | 0 |
| 11:50 - 12:00 | 4 | 0 | 150 | 6 | 4 | 1 | 0 | 0 |
| 12:00 - 12:10 | 4 | 3 | 160 | 26 | 8 | 1 | 0 | 0 |
| 12:10 - 11:20 | 0 | 2 | 170 | 9 | 7 | 0 | 2 | 1 |
| 12:20 - 12:30 | 1 | 2 | 195 | 15 | 2 | 0 | 3 | 2 |
| 12:30 - 12:40 | 2 | 2 | 210 | 22 | 2 | 0 | 0 | 0 |
| 12:40 - 12:50 | 1 | 0 | 175 | 20 | 5 | 0 | 0 | 0 |
| 12:50 - 13:00 | 2 | 1 | 170 | 17 | 2 | 0 | 0 | 1 |
| 13:00 - 13:10 | 2 | 4 | 169 | 8 | 8 | 0 | 0 | 2 |
| 13:10 - 13:20 | 2 | 3 | 89 | 9 | 3 | 0 | 1 | 1 |
| 13:20 - 13:30 | 3 | 4 | 134 | 11 | 7 | 1 | 3 | 0 |
| 13:30 - 13:40 | 2 | 7 | 91 | 15 | 4 | 1 | 1 | 0 |
| 13:40 - 13:50 | 0 | 2 | 84 | 2 | 0 | 2 | 1 | 0 |
| 13:50 - 14:00 | 0 | 2 | 127 | 2 | 5 | 0 | 1 | 1 |
| 14:00 - 14:10 | 0 | 1 | 126 | 20 | 2 | 2 | 0 | 0 |
| 14:10 - 14:20 | 0 | 0 | 97 | 7 | 4 | 1 | 0 | 0 |
| 14:20 - 14:30 | 0 | 2 | 106 | 13 | 2 | 1 | 2 | 1 |
| 14:30 - 14:40 | 0 | 4 | 171 | 20 | 1 | 2 | 1 | 0 |
| 14:40 - 14:50 | 0 | 3 | 158 | 11 | 3 | 1 | 0 | 0 |
| 14:50 - 15:00 | 3 | 4 | 142 | 9 | 4 | 1 | 3 | 2 |
| 15:00 - 15:10 | 5 | 2 | 200 | 20 | 5 | 1 | 1 | 0 |
| 15:10 - 15:20 | 3 | 3 | 145 | 7 | 3 | 0 | 3 | 1 |
| 15:20 - 15:30 | 1 | 1 | 145 | 8 | 3 | 0 | 7 | 2 |
| 15:30 - 15:40 | 1 | 1 | 147 | 11 | 2 | 0 | 13 | 0 |
| 15:40 - 15:50 | 2 | 2 | 150 | 13 | 4 | 1 | 4 | 0 |
| 15:50 - 16:00 | 1 | 3 | 83 | 11 | 11 | 1 | 1 | 1 |
| 16:00 - 16:10 | 2 | 2 | 135 | 13 | 6 | 1 | 1 | 0 |
| 16:10 - 16:20 | 1 | 3 | 100 | 9 | 2 | 1 | 0 | 0 |
| 16:20 - 16:30 | 4 | 3 | 135 | 16 | 3 | 3 | 3 | 1 |
| 16:30 - 16:40 | 0 | 3 | 131 | 11 | 3 | 1 | 2 | 1 |
| 16:40 - 16:50 | 1 | 5 | 127 | 6 | 1 | 0 | 4 | 0 |
| 16:50 - 17:00 | 1 | 0 | 76 | 4 | 0 | 1 | 0 | 0 |
| 17:00 - 17:10 | 1 | 1 | 115 | 39 | 4 | 1 | 1 | 4 |
| 17:10 - 17:20 | 1 | 1 | 188 | 9 | 0 | 0 | 1 | 2 |
| 17:20 - 17:30 | 1 | 0 | 112 | 1 | 3 | 0 | 1 | 1 |
| 17:30 - 17:40 | 0 | 0 | 93 | 12 | 3 | 2 | 2 | 1 |
| 17:40 - 17:50 | 0 | 0 | 147 | 11 | 5 | 0 | 1 | 1 |
| 17:50 - 18:00 | 0 | 0 | 193 | 12 | 2 | 0 | 2 | 2 |
| 18:00 - 18:10 | 2 | 1 | 140 | 12 | 2 | 0 | 2 | 0 |
| 18:10 - 18:20 | 1 | 0 | 131 | 4 | 0 | 1 | 1 | 1 |
| 18:20 - 18:30 | 0 | 1 | 57 | 5 | 3 | 0 | 0 | 7 |
| 18:30 - 18:40 | 3 | 1 | 84 | 5 | 2 | 0 | 0 | 0 |
| 18:40 - 18:50 | 0 | 1 | 112 | 4 | 1 | 0 | 1 | 2 |
| 18:50 - 19:00 | 0 | 2 | 68 | 3 | 3 | 0 | 0 | 0 |





## DIRECTIONAL TRAFFIC COUNT

DATE 23/11/2017
LOCATION SC11
DIRECTION **MCHINJI R/A**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 7:00 - 7:10 | 0 | 2 | 61 | 7 | 1 | 0 | 3 | 0 |
| 7:10 - 7:20 | 1 | 0 | 46 | 13 | 2 | 0 | 0 | 0 |
| 7:20 - 7:30 | 1 | 0 | 45 | 7 | 4 | 0 | 2 | 0 |
| 7:30 - 7:40 | 1 | 0 | 38 | 4 | 2 | 0 | 3 | 0 |
| 7:40 - 7:50 | 1 | 0 | 51 | 10 | 4 | 0 | 5 | 0 |
| 7:50 - 8:00 | 0 | 0 | 39 | 12 | 3 | 1 | 3 | 0 |
| 8:00 - 8:10 | 2 | 0 | 35 | 8 | 2 | 0 | 3 | 1 |
| 8:10 - 8:20 | 0 | 0 | 48 | 5 | 4 | 1 | 5 | 0 |
| 8:20 - 8:30 | 0 | 0 | 38 | 10 | 3 | 0 | 5 | 1 |
| 8:30 - 8:40 | 2 | 0 | 35 | 2 | 2 | 0 | 6 | 0 |
| 8:40 - 8:50 | 0 | 1 | 44 | 5 | 0 | 1 | 3 | 1 |
| 8:50 - 9:00 | 0 | 0 | 42 | 4 | 4 | 0 | 4 | 2 |
| 9:00 - 9:10 | 1 | 0 | 39 | 6 | 3 | 0 | 4 | 1 |
| 9:10 - 9:20 | 3 | 0 | 34 | 8 | 3 | 0 | 5 | 0 |
| 9:20 - 9:30 | 0 | 1 | 51 | 3 | 1 | 0 | 2 | 1 |
| 9:30 - 9:40 | 0 | 0 | 38 | 7 | 2 | 0 | 2 | 1 |
| 9:40 - 9:50 | 1 | 0 | 36 | 8 | 0 | 0 | 5 | 0 |
| 9:50 - 10:00 | 0 | 0 | 35 | 0 | 4 | 0 | 5 | 0 |
| 10:00 - 10:10 | 2 | 0 | 31 | 5 | 2 | 0 | 11 | 3 |
| 10:10 - 10:20 | 0 | 0 | 28 | 6 | 3 | 1 | 4 | 1 |
| 10:20 - 10:30 | 1 | 0 | 32 | 5 | 3 | 0 | 2 | 0 |
| 10:30 - 10:40 | 0 | 0 | 34 | 1 | 3 | 0 | 2 | 0 |
| 10:40 - 10:50 | 1 | 1 | 30 | 3 | 4 | 0 | 1 | 3 |
| 10:50 - 11:00 | 3 | 0 | 31 | 2 | 2 | 0 | 2 | 1 |
| 11:00 - 11:10 | 0 | 0 | 26 | 8 | 2 | 0 | 3 | 1 |
| 11:10 - 11:20 | 0 | 2 | 29 | 5 | 1 | 0 | 6 | 3 |
| 11:20 - 11:30 | 1 | 0 | 45 | 2 | 1 | 0 | 6 | 0 |
| 11:30 - 11:40 | 0 | 0 | 29 | 6 | 4 | 0 | 6 | 0 |
| 11:40 - 11:50 | 0 | 0 | 31 | 8 | 4 | 0 | 2 | 0 |
| 11:50 - 12:00 | 2 | 0 | 44 | 2 | 2 | 0 | 1 | 0 |
| 12:00 - 12:10 | 0 | 0 | 33 | 5 | 0 | 0 | 8 | 0 |
| 12:10 - 11:20 | 3 | 1 | 36 | 4 | 4 | 2 | 6 | 3 |
| 12:20 - 12:30 | 1 | 0 | 40 | 2 | 0 | 0 | 4 | 1 |
| 12:30 - 12:40 | 0 | 0 | 33 | 7 | 4 | 0 | 8 | 0 |
| 12:40 - 12:50 | 0 | 0 | 35 | 5 | 2 | 1 | 2 | 0 |
| 12:50 - 13:00 | 0 | 0 | 42 | 3 | 0 | 0 | 6 | 0 |
| 13:00 - 13:10 | 1 | 0 | 49 | 2 | 4 | 0 | 1 | 2 |
| 13:10 - 13:20 | 0 | 1 | 33 | 7 | 1 | 0 | 4 | 0 |
| 13:20 - 13:30 | 1 | 0 | 48 | 6 | 5 | 0 | 4 | 4 |
| 13:30 - 13:40 | 2 | 1 | 37 | 3 | 1 | 0 | 4 | 0 |
| 13:40 - 13:50 | 0 | 2 | 39 | 3 | 4 | 1 | 5 | 1 |
| 13:50 - 14:00 | 0 | 2 | 45 | 5 | 1 | 0 | 5 | 1 |
| 14:00 - 14:10 | 0 | 0 | 39 | 4 | 1 | 0 | 4 | 0 |
| 14:10 - 14:20 | 0 | 0 | 42 | 4 | 3 | 0 | 1 | 1 |
| 14:20 - 14:30 | 1 | 0 | 40 | 6 | 1 | 0 | 3 | 3 |
| 14:30 - 14:40 | 0 | 1 | 40 | 2 | 3 | 0 | 2 | 0 |
| 14:40 - 14:50 | 0 | 0 | 35 | 4 | 3 | 0 | 1 | 0 |
| 14:50 - 15:00 | 0 | 0 | 37 | 6 | 4 | 0 | 2 | 0 |
| 15:00 - 15:10 | 2 | 0 | 46 | 5 | 0 | 1 | 6 | 1 |
| 15:10 - 15:20 | 2 | 0 | 37 | 1 | 2 | 0 | 2 | 1 |
| 15:20 - 15:30 | 1 | 0 | 46 | 6 | 2 | 0 | 1 | 0 |
| 15:30 - 15:40 | 1 | 0 | 43 | 2 | 2 | 0 | 8 | 0 |
| 15:40 - 15:50 | 1 | 0 | 40 | 3 | 4 | 1 | 2 | 0 |
| 15:50 - 16:00 | 1 | 0 | 32 | 4 | 2 | 0 | 3 | 2 |
| 16:00 - 16:10 | 1 | 2 | 54 | 5 | 1 | 1 | 3 | 2 |
| 16:10 - 16:20 | 1 | 2 | 48 | 3 | 5 | 1 | 2 | 0 |
| 16:20 - 16:30 | 1 | 2 | 38 | 0 | 3 | 1 | 4 | 1 |
| 16:30 - 16:40 | 0 | 0 | 45 | 7 | 5 | 0 | 4 | 1 |
| 16:40 - 16:50 | 0 | 0 | 59 | 14 | 1 | 2 | 7 | 1 |
| 16:50 - 17:00 | 1 | 1 | 62 | 2 | 4 | 4 | 5 | 1 |
| 17:00 - 17:10 | 2 | 2 | 80 | 15 | 3 | 0 | 4 | 2 |
| 17:10 - 17:20 | 1 | 0 | 80 | 15 | 5 | 0 | 5 | 1 |
| 17:20 - 17:30 | 1 | 1 | 68 | 3 | 4 | 0 | 2 | 0 |
| 17:30 - 17:40 | 0 | 1 | 50 | 3 | 2 | 0 | 3 | 1 |
| 17:40 - 17:50 | 1 | 0 | 42 | 2 | 3 | 0 | 1 | 0 |
| 17:50 - 18:00 | 0 | 0 | 54 | 2 | 5 | 1 | 2 | 0 |
| 18:00 - 18:10 | 0 | 0 | 43 | 8 | 1 | 1 | 3 | 1 |
| 18:10 - 18:20 | 1 | 0 | 54 | 4 | 0 | 0 | 0 | 1 |
| 18:20 - 18:30 | 0 | 0 | 21 | 1 | 2 | 1 | 1 | 0 |
| 18:30 - 18:40 | 0 | 0 | 27 | 0 | 0 | 0 | 2 | 1 |
| 18:40 - 18:50 | 0 | 0 | 35 | 0 | 3 | 0 | 1 | 0 |
| 18:50 - 19:00 | 0 | 0 | 25 | 3 | 1 | 0 | 0 | 1 |

## DIRECTIONAL TRAFFIC COUNT

DATE 23/11/2017
LOCATION SC11
DIRECTION **MCHINJI**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 7:00 - 7:10 | 0 | 0 | 25 | 7 | 2 | 0 | 3 | 0 |
| 7:10 - 7:20 | 4 | 0 | 39 | 2 | 2 | 0 | 0 | 0 |
| 7:20 - 7:30 | 1 | 0 | 54 | 10 | 1 | 0 | 0 | 1 |
| 7:30 - 7:40 | 3 | 0 | 45 | 6 | 1 | 6 | 6 | 1 |
| 7:40 - 7:50 | 0 | 0 | 54 | 3 | 5 | 1 | 1 | 0 |
| 7:50 - 8:00 | 2 | 0 | 41 | 7 | 5 | 2 | 4 | 0 |
| 8:00 - 8:10 | 0 | 0 | 56 | 6 | 2 | 0 | 4 | 0 |
| 8:10 - 8:20 | 2 | 0 | 59 | 9 | 3 | 0 | 5 | 0 |
| 8:20 - 8:30 | 0 | 1 | 29 | 5 | 4 | 3 | 3 | 1 |
| 8:30 - 8:40 | 0 | 0 | 45 | 4 | 7 | 1 | 1 | 0 |
| 8:40 - 8:50 | 0 | 0 | 39 | 1 | 1 | 0 | 3 | 0 |
| 8:50 - 9:00 | 0 | 0 | 32 | 1 | 1 | 0 | 4 | 3 |
| 9:00 - 9:10 | 5 | 0 | 27 | 9 | 4 | 0 | 3 | 4 |
| 9:10 - 9:20 | 1 | 1 | 39 | 8 | 1 | 1 | 4 | 2 |
| 9:20 - 9:30 | 0 | 0 | 28 | 8 | 2 | 0 | 3 | 1 |
| 9:30 - 9:40 | 0 | 0 | 27 | 4 | 4 | 0 | 4 | 8 |
| 9:40 - 9:50 | 1 | 0 | 42 | 7 | 4 | 0 | 6 | 0 |
| 9:50 - 10:00 | 1 | 0 | 29 | 6 | 5 | 0 | 5 | 2 |
| 10:00 - 10:10 | 1 | 0 | 36 | 7 | 1 | 0 | 8 | 2 |
| 10:10 - 10:20 | 1 | 0 | 33 | 7 | 4 | 0 | 4 | 0 |
| 10:20 - 10:30 | 0 | 2 | 35 | 5 | 2 | 0 | 7 | 1 |
| 10:30 - 10:40 | 0 | 1 | 32 | 5 | 2 | 0 | 5 | 0 |
| 10:40 - 10:50 | 0 | 0 | 32 | 7 | 4 | 0 | 6 | 1 |
| 10:50 - 11:00 | 0 | 1 | 45 | 9 | 2 | 1 | 3 | 2 |
| 11:00 - 11:10 | 1 | 1 | 33 | 8 | 2 | 0 | 6 | 2 |
| 11:10 - 11:20 | 3 | 0 | 28 | 4 | 3 | 0 | 3 | 0 |
| 11:20 - 11:30 | 0 | 0 | 32 | 5 | 6 | 0 | 3 | 0 |
| 11:30 - 11:40 | 4 | 0 | 33 | 6 | 2 | 0 | 5 | 3 |
| 11:40 - 11:50 | 2 | 0 | 33 | 7 | 2 | 0 | 1 | 1 |
| 11:50 - 12:00 | 0 | 0 | 28 | 3 | 1 | 0 | 6 | 0 |
| 12:00 - 12:10 | 2 | 0 | 41 | 4 | 5 | 0 | 3 | 0 |
| 12:10 - 11:20 | 1 | 0 | 44 | 8 | 1 | 0 | 3 | 0 |
| 12:20 - 12:30 | 0 | 0 | 48 | 8 | 2 | 1 | 0 | 1 |
| 12:30 - 12:40 | 1 | 0 | 37 | 6 | 0 | 1 | 1 | 0 |
| 12:40 - 12:50 | 1 | 0 | 55 | 5 | 4 | 1 | 3 | 0 |
| 12:50 - 13:00 | 0 | 0 | 35 | 4 | 3 | 0 | 1 | 3 |
| 13:00 - 13:10 | 1 | 0 | 27 | 6 | 4 | 0 | 3 | 2 |
| 13:10 - 13:20 | 1 | 1 | 49 | 12 | 4 | 0 | 2 | 1 |
| 13:20 - 13:30 | 1 | 1 | 29 | 8 | 3 | 0 | 1 | 0 |
| 13:30 - 13:40 | 0 | 1 | 36 | 3 | 3 | 0 | 6 | 3 |
| 13:40 - 13:50 | 1 | 1 | 46 | 7 | 0 | 0 | 2 | 4 |
| 13:50 - 14:00 | 0 | 0 | 28 | 5 | 6 | 0 | 4 | 2 |
| 14:00 - 14:10 | 0 | 0 | 41 | 11 | 9 | 1 | 6 | 0 |
| 14:10 - 14:20 | 0 | 0 | 27 | 2 | 1 | 0 | 1 | 0 |
| 14:20 - 14:30 | 0 | 1 | 37 | 6 | 6 | 0 | 1 | 0 |
| 14:30 - 14:40 | 1 | 0 | 46 | 2 | 2 | 1 | 4 | 1 |
| 14:40 - 14:50 | 2 | 0 | 33 | 10 | 3 | 0 | 4 | 2 |
| 14:50 - 15:00 | 0 | 0 | 41 | 12 | 3 | 0 | 4 | 2 |
| 15:00 - 15:10 | 1 | 1 | 48 | 2 | 1 | 1 | 0 | 0 |
| 15:10 - 15:20 | 0 | 2 | 42 | 3 | 3 | 0 | 0 | 4 |
| 15:20 - 15:30 | 1 | 0 | 43 | 5 | 0 | 0 | 2 | 0 |
| 15:30 - 15:40 | 1 | 0 | 44 | 6 | 2 | 0 | 4 | 0 |
| 15:40 - 15:50 | 1 | 0 | 47 | 8 | 1 | 1 | 3 | 1 |
| 15:50 - 16:00 | 0 | 1 | 41 | 5 | 1 | 0 | 1 | 3 |
| 16:00 - 16:10 | 0 | 1 | 50 | 7 | 4 | 0 | 1 | 1 |
| 16:10 - 16:20 | 2 | 1 | 58 | 8 | 3 | 1 | 1 | 1 |
| 16:20 - 16:30 | 1 | 0 | 36 | 2 | 0 | 1 | 1 | 1 |
| 16:30 - 16:40 | 1 | 0 | 45 | 7 | 3 | 0 | 4 | 2 |
| 16:40 - 16:50 | 0 | 3 | 50 | 8 | 4 | 1 | 4 | 0 |
| 16:50 - 17:00 | 0 | 0 | 54 | 4 | 1 | 0 | 2 | 0 |
| 17:00 - 17:10 | 2 | 1 | 49 | 8 | 0 | 0 | 3 | 0 |
| 17:10 - 17:20 | 1 | 0 | 47 | 2 | 4 | 0 | 3 | 0 |
| 17:20 - 17:30 | 2 | 2 | 43 | 7 | 3 | 1 | 2 | 0 |
| 17:30 - 17:40 | 1 | 1 | 61 | 5 | 3 | 1 | 5 | 0 |
| 17:40 - 17:50 | 0 | 1 | 36 | 5 | 3 | 0 | 4 | 1 |
| 17:50 - 18:00 | 0 | 2 | 31 | 5 | 2 | 0 | 4 | 1 |
| 18:00 - 18:10 | 0 | 0 | 35 | 2 | 1 | 0 | 3 | 0 |
| 18:10 - 18:20 | 0 | 1 | 30 | 0 | 1 | 0 | 0 | 1 |
| 18:20 - 18:30 | 0 | 0 | 33 | 3 | 0 | 1 | 5 | 1 |
| 18:30 - 18:40 | 0 | 0 | 43 | 5 | 2 | 1 | 3 | 1 |
| 18:40 - 18:50 | 0 | 3 | 44 | 5 | 2 | 1 | 2 | 3 |
| 18:50 - 19:00 | 0 | 2 | 65 | 2 | 0 | 0 | 4 | 1 |



## DIRECTIONAL TRAFFIC COUNT

DATE 23/11/2017
LOCATION SC12
DIRECTION **BYPASS**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 7:00 - 7:10 | 1 | 0 | 21 | 19 | 4 | 0 | 0 | 0 |
| 7:10 - 7:20 | 0 | 0 | 14 | 35 | 2 | 0 | 1 | 0 |
| 7:20 - 7:30 | 0 | 0 | 28 | 63 | 3 | 0 | 0 | 0 |
| 7:30 - 7:40 | 0 | 0 | 19 | 53 | 1 | 0 | 0 | 0 |
| 7:40 - 7:50 | 0 | 0 | 30 | 45 | 4 | 5 | 0 | 0 |
| 7:50 - 8:00 | 0 | 0 | 17 | 45 | 0 | 0 | 0 | 0 |
| 8:00 - 8:10 | 0 | 1 | 16 | 23 | 3 | 0 | 2 | 0 |
| 8:10 - 8:20 | 0 | 1 | 12 | 30 | 0 | 0 | 0 | 0 |
| 8:20 - 8:30 | 0 | 0 | 21 | 30 | 3 | 0 | 0 | 0 |
| 8:30 - 8:40 | 0 | 0 | 18 | 20 | 2 | 0 | 0 | 0 |
| 8:40 - 8:50 | 0 | 3 | 19 | 9 | 3 | 1 | 1 | 0 |
| 8:50 - 9:00 | 1 | 1 | 17 | 11 | 2 | 0 | 1 | 0 |
| 9:00 - 9:10 | 0 | 0 | 7 | 6 | 1 | 1 | 1 | 0 |
| 9:10 - 9:20 | 1 | 0 | 16 | 10 | 2 | 2 | 0 | 0 |
| 9:20 - 9:30 | 0 | 0 | 21 | 9 | 4 | 1 | 3 | 0 |
| 9:30 - 9:40 | 0 | 0 | 18 | 4 | 0 | 0 | 1 | 0 |
| 9:40 - 9:50 | 0 | 0 | 21 | 10 | 1 | 1 | 2 | 0 |
| 9:50 - 10:00 | 1 | 1 | 16 | 11 | 1 | 1 | 2 | 0 |
| 10:00 - 10:10 | 4 | 3 | 30 | 14 | 2 | 1 | 3 | 1 |
| 10:10 - 10:20 | 2 | 0 | 14 | 18 | 1 | 1 | 0 | 0 |
| 10:20 - 10:30 | 1 | 1 | 14 | 8 | 0 | 2 | 0 | 0 |
| 10:30 - 10:40 | 2 | 0 | 18 | 7 | 1 | 1 | 0 | 2 |
| 10:40 - 10:50 | 0 | 1 | 17 | 20 | 4 | 2 | 1 | 1 |
| 10:50 - 11:00 | 0 | 1 | 14 | 6 | 2 | 1 | 0 | 0 |
| 11:00 - 11:10 | 0 | 1 | 19 | 11 | 3 | 0 | 2 | 0 |
| 11:10 - 11:20 | 1 | 1 | 19 | 9 | 0 | 0 | 0 | 0 |
| 11:20 - 11:30 | 3 | 0 | 19 | 18 | 1 | 0 | 0 | 0 |
| 11:30 - 11:40 | 2 | 0 | 15 | 12 | 2 | 0 | 0 | 0 |
| 11:40 - 11:50 | 0 | 0 | 16 | 8 | 1 | 2 | 0 | 0 |
| 11:50 - 12:00 | 0 | 1 | 30 | 18 | 3 | 0 | 2 | 0 |
| 12:00 - 12:10 | 0 | 2 | 21 | 8 | 3 | 0 | 2 | 0 |
| 12:10 - 11:20 | 2 | 0 | 26 | 11 | 1 | 0 | 0 | 0 |
| 12:20 - 12:30 | 1 | 0 | 24 | 11 | 2 | 1 | 3 | 0 |
| 12:30 - 12:40 | 0 | 0 | 26 | 7 | 3 | 0 | 1 | 0 |
| 12:40 - 12:50 | 1 | 1 | 24 | 7 | 5 | 0 | 0 | 0 |
| 12:50 - 13:00 | 0 | 0 | 18 | 12 | 2 | 0 | 2 | 0 |
| 13:00 - 13:10 | 1 | 1 | 16 | 13 | 2 | 4 | 0 | 1 |
| 13:10 - 13:20 | 1 | 1 | 15 | 13 | 0 | 0 | 1 | 0 |
| 13:20 - 13:30 | 1 | 1 | 26 | 8 | 1 | 2 | 2 | 0 |
| 13:30 - 13:40 | 1 | 0 | 21 | 9 | 1 | 1 | 0 | 0 |
| 13:40 - 13:50 | 0 | 2 | 18 | 10 | 3 | 0 | 0 | 0 |
| 13:50 - 14:00 | 0 | 0 | 16 | 6 | 2 | 0 | 0 | 0 |
| 14:00 - 14:10 | 0 | 1 | 41 | 9 | 1 | 0 | 1 | 1 |
| 14:10 - 14:20 | 1 | 2 | 24 | 2 | 0 | 2 | 2 | 0 |
| 14:20 - 14:30 | 0 | 2 | 23 | 6 | 3 | 0 | 2 | 0 |
| 14:30 - 14:40 | 1 | 1 | 19 | 8 | 1 | 1 | 2 | 1 |
| 14:40 - 14:50 | 0 | 0 | 31 | 10 | 0 | 1 | 1 | 0 |
| 14:50 - 15:00 | 0 | 2 | 23 | 10 | 0 | 2 | 0 | 0 |
| 15:00 - 15:10 | 0 | 2 | 35 | 11 | 0 | 0 | 0 | 0 |
| 15:10 - 15:20 | 0 | 0 | 21 | 20 | 0 | 0 | 0 | 0 |
| 15:20 - 15:30 | 3 | 1 | 25 | 15 | 2 | 0 | 0 | 0 |
| 15:30 - 15:40 | 2 | 1 | 26 | 23 | 6 | 2 | 2 | 0 |
| 15:40 - 15:50 | 6 | 4 | 45 | 23 | 5 | 0 | 0 | 0 |
| 15:50 - 16:00 | 2 | 1 | 51 | 24 | 3 | 0 | 0 | 0 |
| 16:00 - 16:10 | 0 | 1 | 42 | 17 | 4 | 0 | 1 | 0 |
| 16:10 - 16:20 | 6 | 0 | 29 | 21 | 7 | 0 | 0 | 0 |
| 16:20 - 16:30 | 1 | 0 | 44 | 19 | 1 | 0 | 2 | 1 |
| 16:30 - 16:40 | 5 | 1 | 62 | 23 | 5 | 1 | 0 | 0 |
| 16:40 - 16:50 | 2 | 1 | 66 | 3 | 2 | 0 | 0 | 0 |
| 16:50 - 17:00 | 1 | 3 | 94 | 30 | 3 | 0 | 3 | 0 |
| 17:00 - 17:10 | 1 | 0 | 53 | 12 | 3 | 4 | 1 | 0 |
| 17:10 - 17:20 | 6 | 0 | 64 | 26 | 4 | 8 | 0 | 0 |
| 17:20 - 17:30 | 7 | 1 | 54 | 25 | 7 | 10 | 1 | 0 |
| 17:30 - 17:40 | 5 | 2 | 68 | 21 | 1 | 2 | 1 | 0 |
| 17:40 - 17:50 | 6 | 1 | 91 | 35 | 4 | 9 | 2 | 1 |
| 17:50 - 18:00 | 7 | 1 | 58 | 23 | 6 | 4 | 1 | 0 |
| 18:00 - 18:10 | 1 | 2 | 63 | 19 | 4 | 9 | 0 | 0 |
| 18:10 - 18:20 | 1 | 2 | 41 | 15 | 0 | 2 | 0 | 0 |
| 18:20 - 18:30 | 1 | 3 | 73 | 27 | 2 | 4 | 0 | 0 |
| 18:30 - 18:40 | 2 | 9 | 51 | 18 | 2 | 8 | 1 | 0 |
| 18:40 - 18:50 | 3 | 5 | 65 | 30 | 4 | 5 | 1 | 1 |
| 18:50 - 19:00 | 3 | 9 | 48 | 24 | 4 | 5 | 0 | 0 |

DIRECTIONAL TRAFFIC COUNT

DATE 23/11/2017
LOCATION SC12
DIRECTION **LIKUNI**

| TIME | MOTOTBIKE | TUKTUK | PASSENGER | MINIBUS | LIGHT TRUCK | BUS | MEDIUM HEAVY TRUCK | HEAVY TRUCK AND TRAILER |
|---|---|---|---|---|---|---|---|---|
| 7:00 - 7:10 | 3 | 4 | 19 | 44 | 1 | 8 | 4 | 0 |
| 7:10 - 7:20 | 0 | 6 | 88 | 26 | 5 | 7 | 1 | 0 |
| 7:20 - 7:30 | 6 | 4 | 89 | 27 | 4 | 5 | 3 | 0 |
| 7:30 - 7:40 | 2 | 1 | 72 | 28 | 0 | 7 | 1 | 0 |
| 7:40 - 7:50 | 4 | 3 | 67 | 24 | 2 | 3 | 2 | 0 |
| 7:50 - 8:00 | 3 | 0 | 53 | 21 | 1 | 7 | 3 | 0 |
| 8:00 - 8:10 | 1 | 1 | 46 | 20 | 2 | 4 | 2 | 0 |
| 8:10 - 8:20 | 1 | 5 | 39 | 17 | 1 | 3 | 0 | 0 |
| 8:20 - 8:30 | 2 | 1 | 40 | 15 | 0 | 5 | 1 | 0 |
| 8:30 - 8:40 | 2 | 3 | 41 | 14 | 1 | 6 | 1 | 0 |
| 8:40 - 8:50 | 1 | 1 | 34 | 17 | 1 | 4 | 0 | 0 |
| 8:50 - 9:00 | 2 | 2 | 35 | 15 | 0 | 2 | 4 | 2 |
| 9:00 - 9:10 | 1 | 1 | 17 | 10 | 2 | 3 | 2 | 0 |
| 9:10 - 9:20 | 0 | 1 | 34 | 16 | 3 | 4 | 2 | 0 |
| 9:20 - 9:30 | 1 | 1 | 26 | 12 | 1 | 3 | 3 | 0 |
| 9:30 - 9:40 | 1 | 2 | 13 | 6 | 0 | 3 | 1 | 0 |
| 9:40 - 9:50 | 1 | 0 | 34 | 14 | 4 | 1 | 1 | 0 |
| 9:50 - 10:00 | 1 | 1 | 22 | 8 | 1 | 1 | 2 | 0 |
| 10:00 - 10:10 | 2 | 1 | 18 | 15 | 2 | 2 | 2 | 1 |
| 10:10 - 10:20 | 0 | 1 | 10 | 5 | 1 | 1 | 1 | 0 |
| 10:20 - 10:30 | 3 | 2 | 19 | 9 | 1 | 1 | 2 | 0 |
| 10:30 - 10:40 | 0 | 1 | 25 | 7 | 1 | 0 | 0 | 0 |
| 10:40 - 10:50 | 1 | 2 | 19 | 12 | 3 | 3 | 0 | 0 |
| 10:50 - 11:00 | 2 | 4 | 26 | 10 | 1 | 1 | 2 | 0 |
| 11:00 - 11:10 | 2 | 2 | 14 | 9 | 1 | 1 | 1 | 0 |
| 11:10 - 11:20 | 1 | 1 | 19 | 10 | 2 | 1 | 1 | 2 |
| 11:20 - 11:30 | 0 | 2 | 19 | 7 | 0 | 2 | 0 | 0 |
| 11:30 - 11:40 | 2 | 0 | 14 | 9 | 2 | 2 | 0 | 0 |
| 11:40 - 11:50 | 3 | 0 | 13 | 7 | 1 | 1 | 2 | 1 |
| 11:50 - 12:00 | 2 | 0 | 15 | 8 | 1 | 1 | 2 | 1 |
| 12:00 - 12:10 | 2 | 2 | 27 | 12 | 2 | 1 | 2 | 0 |
| 12:10 - 11:20 | 2 | 0 | 29 | 6 | 1 | 0 | 0 | 0 |
| 12:20 - 12:30 | 1 | 0 | 15 | 11 | 0 | 0 | 3 | 0 |
| 12:30 - 12:40 | 1 | 2 | 19 | 5 | 0 | 2 | 1 | 0 |
| 12:40 - 12:50 | 1 | 1 | 20 | 7 | 1 | 1 | 0 | 0 |
| 12:50 - 13:00 | 0 | 0 | 17 | 7 | 2 | 1 | 2 | 0 |
| 13:00 - 13:10 | 1 | 1 | 18 | 4 | 1 | 1 | 2 | 2 |
| 13:10 - 13:20 | 0 | 0 | 11 | 7 | 3 | 1 | 2 | 0 |
| 13:20 - 13:30 | 0 | 1 | 25 | 12 | 2 | 0 | 1 | 0 |
| 13:30 - 13:40 | 0 | 1 | 20 | 4 | 2 | 3 | 3 | 0 |
| 13:40 - 13:50 | 0 | 0 | 17 | 5 | 2 | 2 | 0 | 0 |
| 13:50 - 14:00 | 0 | 0 | 19 | 5 | 1 | 0 | 0 | 0 |
| 14:00 - 14:10 | 1 | 0 | 19 | 8 | 3 | 0 | 1 | 0 |
| 14:10 - 14:20 | 0 | 1 | 22 | 11 | 2 | 1 | 1 | 0 |
| 14:20 - 14:30 | 1 | 1 | 30 | 12 | 0 | 0 | 0 | 0 |
| 14:30 - 14:40 | 1 | 0 | 23 | 12 | 4 | 0 | 1 | 0 |
| 14:40 - 14:50 | 0 | 2 | 17 | 7 | 3 | 1 | 0 | 0 |
| 14:50 - 15:00 | 1 | 0 | 18 | 7 | 3 | 3 | 1 | 0 |
| 15:00 - 15:10 | 0 | 2 | 17 | 7 | 0 | 0 | 0 | 0 |
| 15:10 - 15:20 | 4 | 0 | 11 | 9 | 2 | 2 | 0 | 0 |
| 15:20 - 15:30 | 0 | 1 | 24 | 9 | 1 | 2 | 2 | 0 |
| 15:30 - 15:40 | 1 | 1 | 20 | 17 | 1 | 1 | 1 | 0 |
| 15:40 - 15:50 | 2 | 1 | 21 | 19 | 1 | 5 | 0 | 0 |
| 15:50 - 16:00 | 1 | 2 | 27 | 16 | 3 | 2 | 0 | 0 |
| 16:00 - 16:10 | 0 | 4 | 29 | 17 | 2 | 5 | 2 | 0 |
| 16:10 - 16:20 | 1 | 1 | 17 | 10 | 3 | 1 | 0 | 0 |
| 16:20 - 16:30 | 2 | 1 | 20 | 16 | 2 | 6 | 0 | 0 |
| 16:30 - 16:40 | 1 | 1 | 10 | 10 | 3 | 3 | 0 | 0 |
| 16:40 - 16:50 | 0 | 0 | 15 | 14 | 3 | 4 | 1 | 0 |
| 16:50 - 17:00 | 1 | 0 | 18 | 19 | 2 | 3 | 1 | 0 |
| 17:00 - 17:10 | 1 | 1 | 11 | 16 | 1 | 4 | 1 | 0 |
| 17:10 - 17:20 | 3 | 2 | 29 | 15 | 1 | 6 | 2 | 0 |
| 17:20 - 17:30 | 2 | 2 | 44 | 34 | 3 | 10 | 0 | 0 |
| 17:30 - 17:40 | 3 | 1 | 22 | 16 | 1 | 1 | 0 | 0 |
| 17:40 - 17:50 | 1 | 1 | 28 | 15 | 2 | 3 | 0 | 0 |
| 17:50 - 18:00 | 1 | 2 | 20 | 19 | 2 | 4 | 0 | 0 |
| 18:00 - 18:10 | 0 | 1 | 24 | 15 | 1 | 8 | 2 | 0 |
| 18:10 - 18:20 | 2 | 2 | 13 | 11 | 3 | 3 | 0 | 0 |
| 18:20 - 18:30 | 0 | 1 | 28 | 12 | 0 | 5 | 0 | 0 |
| 18:30 - 18:40 | 0 | 1 | 33 | 11 | 0 | 2 | 0 | 0 |
| 18:40 - 18:50 | 0 | 0 | 26 | 11 | 1 | 0 | 1 | 0 |
| 18:50 - 19:00 | 0 | 0 | 20 | 10 | 1 | 0 | 0 | 0 |





# QUEUE LENGTH SURVEY

## QL 01 – QL 06

21/11/2017

Queue length survey was conducted on the same day as the intersection to determine the maximum traffic length every 10 minutes at the selected locations. This was conducted for 3hours in the morning and 3 hours in the afternoon, 8am-11am & 3pm-6pm.

*Queue Length Survey at QL4 - Surveyor marking the longest point of the queue during the 10-minute period*

## QUEUE LENGTH SURVEY

GEOCONSULT

| | | | |
|---|---|---|---|
| LOCATION | QL 1 | DIRECTION | |
| SURVEYOR | CHISOMO NDOVIE | SUPERVISOR | PHYSON MWALE |
| DATE | 21/11/2017 | TIME START | 08:00 |

| Morning Traffic Survey | |
|---|---|
| TIME | QUEUE LENGTH (m) |
| 08:00 | 130 |
| 08:10 | 150 |
| 08:20 | 160 |
| 08:30 | 140 |
| 08:40 | 130 |
| 08:50 | 120 |
| 09:00 | 110 |
| 09:10 | 120 |
| 09:20 | 140 |
| 09:30 | 130 |
| 09:40 | 170 |
| 09:50 | 0 |
| 10:00 | 150 |
| 10:10 | 170 |
| 10:20 | 100 |
| 10:30 | 110 |
| 10:40 | 180 |
| 10:50 | 160 |
| 11:00 | 170 |

| Afternoon Traffic Survey | |
|---|---|
| TIME | QUEUE LENGTH (m) |
| 15:00 | 180 |
| 15:10 | 120 |
| 15:20 | 150 |
| 15:30 | 140 |
| 15:40 | 130 |
| 15:50 | 170 |
| 16:00 | 210 |
| 16:10 | 250 |
| 16:20 | 230 |
| 16:30 | 180 |
| 16:40 | 140 |
| 16:50 | 110 |
| 17:00 | 80 |
| 17:10 | 90 |
| 17:20 | 130 |
| 17:30 | 180 |
| 17:40 | 160 |
| 17:50 | 140 |
| 18:00 | 120 |

REMARKS:



## QUEUE LENGTH SURVEY

GEOCONSULT

| | | | |
|---|---|---|---|
| LOCATION | QL 2 | DIRECTION | |
| SURVEYOR | INNOCENT PHAMBANA | SUPERVISOR | FYSON MWALE |
| DATE | 21/11/2017 | TIME START | 08:00 |

| Morning Traffic Survey | |
|---|---|
| TIME | QUEUE LENGTH (m) |
| 08:00 | 250 |
| 08:10 | 245 |
| 08:20 | 260 |
| 08:30 | 190 |
| 08:40 | 170 |
| 08:50 | 120 |
| 09:00 | 40 |
| 09:10 | 50 |
| 09:20 | 20 |
| 09:30 | 35 |
| 09:40 | 10 |
| 09:50 | 35 |
| 10:00 | 60 |
| 10:10 | 40 |
| 10:20 | 20 |
| 10:30 | 50 |
| 10:40 | 70 |
| 10:50 | 100 |
| 11:00 | 90 |

| Afternoon Traffic Survey | |
|---|---|
| TIME | QUEUE LENGTH (m) |
| 15:00 | 0 |
| 15:10 | 10 |
| 15:20 | 30 |
| 15:30 | 50 |
| 15:40 | 30 |
| 15:50 | 70 |
| 16:00 | 40 |
| 16:10 | 30 |
| 16:20 | 50 |
| 16:30 | 20 |
| 16:40 | 20 |
| 16:50 | 140 |
| 17:00 | 130 |
| 17:10 | 190 |
| 17:20 | 220 |
| 17:30 | 130 |
| 17:40 | 210 |
| 17:50 | 240 |
| 18:00 | 170 |

REMARKS:

## QUEUE LENGTH SURVEY

GEOCONSULT

| | | | |
|---|---|---|---|
| LOCATION | QL 3 | DIRECTION | |
| SURVEYOR | McDONALD BAILA | SUPERVISOR | A. KAMANGA |
| DATE | 21/11/2017 | TIME START | 08:00 |

| Morning Traffic Survey | |
|---|---|
| TIME | QUEUE LENGTH (m) |
| 08:00 | 375 |
| 08:10 | 310 |
| 08:20 | 300 |
| 08:30 | 370 |
| 08:40 | 295 |
| 08:50 | 310 |
| 09:00 | 340 |
| 09:10 | 350 |
| 09:20 | 360 |
| 09:30 | 300 |
| 09:40 | 280 |
| 09:50 | 325 |
| 10:00 | 300 |
| 10:10 | 340 |
| 10:20 | 315 |
| 10:30 | 290 |
| 10:40 | 300 |
| 10:50 | 290 |
| 11:00 | 310 |

| Afternoon Traffic Survey | |
|---|---|
| TIME | QUEUE LENGTH (m) |
| 15:00 | 40 |
| 15:10 | 30 |
| 15:20 | 10 |
| 15:30 | 20 |
| 15:40 | 60 |
| 15:50 | 180 |
| 16:00 | 140 |
| 16:10 | 70 |
| 16:20 | 30 |
| 16:30 | 45 |
| 16:40 | 50 |
| 16:50 | 310 |
| 17:00 | 240 |
| 17:10 | 210 |
| 17:20 | 115 |
| 17:30 | 140 |
| 17:40 | 50 |
| 17:50 | 30 |
| 18:00 | 30 |

REMARKS:



## QUEUE LENGTH SURVEY

GEOCONSULT

| | | | |
|---|---|---|---|
| LOCATION | QL 4 | DIRECTION | |
| SURVEYOR | LONLEY KABOTOLO | SUPERVISOR | Y. KADZIKUMANJA |
| DATE | 21/11/2017 | TIME START | 08:00 |

| Morning Traffic Survey | |
|---|---|
| TIME | QUEUE LENGTH (m) |
| 08:00 | 200 |
| 08:10 | 180 |
| 08:20 | 300 |
| 08:30 | 270 |
| 08:40 | 320 |
| 08:50 | 300 |
| 09:00 | 200 |
| 09:10 | 250 |
| 09:20 | 540 |
| 09:30 | 400 |
| 09:40 | 590 |
| 09:50 | 600 |
| 10:00 | 800 |
| 10:10 | 410 |
| 10:20 | 310 |
| 10:30 | 400 |
| 10:40 | 650 |
| 10:50 | 360 |
| 11:00 | 500 |

| Afternoon Traffic Survey | |
|---|---|
| TIME | QUEUE LENGTH (m) |
| 15:00 | 360 |
| 15:10 | 100 |
| 15:20 | 0 |
| 15:30 | 0 |
| 15:40 | 200 |
| 15:50 | 240 |
| 16:00 | 150 |
| 16:10 | 210 |
| 16:20 | 50 |
| 16:30 | 0 |
| 16:40 | 0 |
| 16:50 | 290 |
| 17:00 | 260 |
| 17:10 | 300 |
| 17:20 | 610 |
| 17:30 | 320 |
| 17:40 | 120 |
| 17:50 | 50 |
| 18:00 | 250 |

REMARKS:

## QUEUE LENGTH SURVEY

GEOCONSULT

| | | | |
|---|---|---|---|
| LOCATION | QL 5 | DIRECTION | |
| SURVEYOR | CHRIFTON MAKALAN | SUPERVISOR | G. KACHIWALA |
| DATE | 22/11/2017 | TIME START | 08:00 |

| Morning Traffic Survey | |
|---|---|
| TIME | QUEUE LENGTH (m) |
| 08:00 | 0 |
| 08:10 | 0 |
| 08:20 | 15 |
| 08:30 | 0 |
| 08:40 | 5 |
| 08:50 | 20 |
| 09:00 | 95 |
| 09:10 | 30 |
| 09:20 | 0 |
| 09:30 | 20 |
| 09:40 | 20 |
| 09:50 | 0 |
| 10:00 | 20 |
| 10:10 | 0 |
| 10:20 | 0 |
| 10:30 | 0 |
| 10:40 | 10 |
| 10:50 | 30 |
| 11:00 | 0 |

| Afternoon Traffic Survey | |
|---|---|
| TIME | QUEUE LENGTH (m) |
| 15:00 | 0 |
| 15:10 | 20 |
| 15:20 | 0 |
| 15:30 | 20 |
| 15:40 | 60 |
| 15:50 | 0 |
| 16:00 | 10 |
| 16:10 | 0 |
| 16:20 | 10 |
| 16:30 | 0 |
| 16:40 | 110 |
| 16:50 | 10 |
| 17:00 | 55 |
| 17:10 | 0 |
| 17:20 | 95 |
| 17:30 | 0 |
| 17:40 | 15 |
| 17:50 | 35 |
| 18:00 | 0 |

REMARKS:



## QUEUE LENGTH SURVEY

GEOCONSULT

| | | | |
|---|---|---|---|
| LOCATION | QL6 | DIRECTION | |
| SURVEYOR | MOSES PHIRI | SUPERVISOR | Y. KADZIKUMANJA |
| DATE | 21/11/2017 | TIME START | 08:00 |

| Morning Traffic Survey | |
|---|---|
| TIME | QUEUE LENGTH (m) |
| 08:00 | 50 |
| 08:10 | 70 |
| 08:20 | 10 |
| 08:30 | 5 |
| 08:40 | 0 |
| 08:50 | 230 |
| 09:00 | 185 |
| 09:10 | 300 |
| 09:20 | 280 |
| 09:30 | 255 |
| 09:40 | 250 |
| 09:50 | 235 |
| 10:00 | 270 |
| 10:10 | 230 |
| 10:20 | 250 |
| 10:30 | 160 |
| 10:40 | 180 |
| 10:50 | 175 |
| 11:00 | 180 |

| Afternoon Traffic Survey | |
|---|---|
| TIME | QUEUE LENGTH (m) |
| 15:00 | 20 |
| 15:10 | 0 |
| 15:20 | 0 |
| 15:30 | 10 |
| 15:40 | 30 |
| 15:50 | 10 |
| 16:00 | 15 |
| 16:10 | 40 |
| 16:20 | 35 |
| 16:30 | 60 |
| 16:40 | 35 |
| 16:50 | 40 |
| 17:00 | 60 |
| 17:10 | 80 |
| 17:20 | 110 |
| 17:30 | 75 |
| 17:40 | 45 |
| 17:50 | 10 |
| 18:00 | 30 |

REMARKS:

# TRAVEL SPEED SURVEY

## MCHINJI R.A. – CHIZANJA JUNCTION

21/11/2017

Travel speed survey was conducted by driving in the traffic stream between the two end locations continuously to achieve one round trip per hour. Trips were logged on a GPS as well as marking the time taken to reach various checkpoints.

The survey was conducted over a 12-hour period, 6:45am-7:00pm.

A-219



GEOCONSULT

| | | | |
|---|---|---|---|
| DATE: | 09/11/2017 | LAB REF No. | GC078/09N17/08:31 |
| DRIVER: | M.SABELLI | START TIME: | 06:37 |
| LOGGER: | EMMANUEL NKUKU | FINISH TIME: | 07:28 |
| PASSENGER: | | TOTAL TIME: | |
| CAR REG: | CC26 | LOCATION START: | MCHINJI ROUNDABOUT |
| **PROJECT:** | IMPROVEMENT OF ARTERY ROAD LILONGWE | **CLIENT:** | KATAHIRA ENGINEERS |

## TRAFFIC SPEED SURVEY

**TRIP No. 02**

| CHECK POINT | TIME | TIME ELAPSED |
|---|---|---|
| CP0 | 06:47:10 | 0 |
| CP1 | 06:49:00 | 00:01:50 |
| CP2 | 06:50:28 | 00:01:28 |
| CP3 | 06:51:03 | 00:00:35 |
| CP4 | 06:51:42 | 00:00:39 |
| CP5 | 06:52:40 | 00:00:58 |
| CP6 | 06:54:00 | 00:01:20 |
| CP7 | 06:54:24 | 00:00:24 |
| CP8 | 06:54:41 | 00:00:17 |
| CP9 | 06:55:05 | 00:00:24 |
| CP10 | 06:55:24 | 00:00:19 |
| CP11 | 06:55:58 | 00:00:34 |
| CP12 | 06:57:24 | 00:01:26 |

**TRIP No. 01**

| CHECK POINT | TIME | TIME ELAPSED |
|---|---|---|
| CP12 | 06:37:02 | 0 |
| CP11 | 06:37:49 | 00:00:47 |
| CP10 | 06:38:38 | 00:00:49 |
| CP9 | 06:38:45 | 00:00:07 |
| CP8 | 06:39:10 | 00:00:25 |
| CP7 | 06:40:00 | 00:00:50 |
| CP6 | 06:40:40 | 00:00:40 |
| CP5 | 06:41:20 | 00:00:40 |
| CP4 | 06:42:12 | 00:00:52 |
| CP3 | 06:42:42 | 00:00:30 |
| CP2 | 06:43:45 | 00:01:03 |
| CP1 | 06:43:50 | 00:00:05 |
| CP0 | 06:45:05 | 00:01:15 |

**TRIP No. 04**

| CHECK POINT | TIME | MINUTES STOPPED / PHOTO |
|---|---|---|
| CP0 | 07:09:48 | 0 |
| CP1 | 07:12:31 | 00:02:43 |
| CP2 | 07:14:07 | 00:01:36 |
| CP3 | 07:14:45 | 00:00:38 |
| CP4 | 07:16:16 | 00:01:31 |
| CP5 | 07:23:40 | 00:07:24 |
| CP6 | 07:24:50 | 00:01:10 |
| CP7 | 07:25:09 | 00:00:19 |
| CP8 | 07:25:44 | 00:00:35 |
| CP9 | 07:26:17 | 00:00:33 |
| CP10 | 07:26:22 | 00:00:05 |
| CP11 | 07:27:00 | 00:00:38 |
| CP12 | 07:28:26 | 00:01:26 |

**TRIP No. 03**

| CHECK POINT | TIME | MINUTES STOPPED / PHOTO |
|---|---|---|
| CP12 | 06:57:00 | 0 |
| CP11 | 06:58:00 | 00:01:00 |
| CP10 | 06:59:00 | 00:01:00 |
| CP9 | 06:59:00 | 00:00:00 |
| CP8 | 06:59:00 | 00:00:00 |
| CP7 | 07:00:00 | 00:01:00 |
| CP6 | 07:01:00 | 00:01:00 |
| CP5 | 07:03:00 | 00:02:00 |
| CP4 | 07:04:00 | 00:01:00 |
| CP3 | 07:05:00 | 00:01:00 |
| CP2 | 07:05:00 | 00:00:00 |
| CP1 | 07:07:00 | 00:02:00 |
| CP0 | 07:09:00 | 00:02:00 |

REMARKS: NO TRAFFIC LIGHTS WORKING

| | | | |
|---|---|---|---|
| DATE: | 09/11/2017 | LAB REF No. | GC078/09N17/08:31 |
| DRIVER: | M.SABELLI | START TIME: | 07:28 |
| LOGGER: | EMMANUEL NKUKU | FINISH TIME: | 08:14 |
| PASSENGER: | | TOTAL TIME: | |
| CAR REG: | CC26 | LOCATION START: | MCHINJI ROUNDABOUT |

**PROJECT:** IMPROVEMENT OF ARTERY ROAD LILONGWE **CLIENT:** KATAHIRA ENGINEERS

## TRAFFIC SPEED SURVEY

| TRIP No. 06 | | | TRIP No. 05 | | |
|---|---|---|---|---|---|
| CHECK POINT | TIME | TIME ELAPSED | CHECK POINT | TIME | TIME ELAPSED |
| CP0 | 07:55:55 | 0 | CP12 | 07:28:26 | 0 |
| CP1 | 07:57:12 | 00:01:17 | CP11 | 07:30:30 | 00:02:04 |
| CP2 | 07:58:32 | 00:01:20 | CP10 | 07:31:17 | 00:00:47 |
| CP3 | 07:59:04 | 00:00:32 | CP9 | 07:31:25 | 00:00:08 |
| CP4 | 08:00:07 | 00:01:03 | CP8 | 07:31:56 | 00:00:31 |
| CP5 | 08:09:05 | 00:08:58 | CP7 | 07:38:53 | 00:06:57 |
| CP6 | 08:10:08 | 00:01:03 | CP6 | 07:46:00 | 00:07:07 |
| CP7 | 08:10:27 | 00:00:19 | CP5 | 07:49:06 | 00:03:06 |
| CP8 | 08:10:59 | 00:00:32 | CP4 | 07:50:26 | 00:01:20 |
| CP9 | 08:11:23 | 00:00:24 | CP3 | 07:51:30 | 00:01:04 |
| CP10 | 08:11:33 | 00:00:10 | CP2 | 07:52:35 | 00:01:05 |
| CP11 | 08:12:22 | 00:00:49 | CP1 | 07:54:18 | 00:01:43 |
| CP12 | 08:14:20 | 00:01:58 | CP0 | 07:55:40 | 00:01:22 |

| TRIP No. | | | TRIP No. | | |
|---|---|---|---|---|---|
| CHECK POINT | TIME | MINUTES STOPPED / PHOTO | CHECK POINT | TIME | MINUTES STOPPED / PHOTO |
| CP0 | | 0 | CP12 | | 0 |
| CP1 | | 00:00:00 | CP11 | | 00:00:00 |
| CP2 | | 00:00:00 | CP10 | | 00:00:00 |
| CP3 | | 00:00:00 | CP9 | | 00:00:00 |
| CP4 | | 00:00:00 | CP8 | | 00:00:00 |
| CP5 | | 00:00:00 | CP7 | | 00:00:00 |
| CP6 | | 00:00:00 | CP6 | | 00:00:00 |
| CP7 | | 00:00:00 | CP5 | | 00:00:00 |
| CP8 | | 00:00:00 | CP4 | | 00:00:00 |
| CP9 | | 00:00:00 | CP3 | | 00:00:00 |
| CP10 | | 00:00:00 | CP2 | | 00:00:00 |
| CP11 | | 00:00:00 | CP1 | | 00:00:00 |
| CP12 | | 00:00:00 | CP0 | | 00:00:00 |

REMARKS: NO TRAFFIC LIGHTS WORKING



| | | | |
|---|---|---|---|
| DATE: | 09/11/2017 | LAB REF No. | GC078/09N17/14:12 |
| DRIVER: | M.SABELLI | START TIME: | 10:27 |
| LOGGER: | EMMANUEL NKUKU | FINISH TIME: | 12:03 |
| PASSENGER: | | TOTAL TIME: | |
| CAR REG: | CC26 | LOCATION START: | MCHINJI ROUNDABOUT |

**PROJECT:** IMPROVEMENT OF ARTERY ROAD LILONGWE **CLIENT:** KATAHIRA ENGINEERS

## TRAFFIC SPEED SURVEY

| TRIP No. 08 | | | TRIP No. 07 | | |
|---|---|---|---|---|---|
| CHECK POINT | TIME | TIME ELAPSED | CHECK POINT | TIME | TIME ELAPSED |
| CP0 | 10:51:50 | 0 | CP12 | 10:27:24 | 0 |
| CP1 | 10:53:04 | 00:01:14 | CP11 | 10:29:00 | 00:01:36 |
| CP2 | 10:54:37 | 00:01:33 | CP10 | 10:29:15 | 00:00:15 |
| CP3 | 10:55:15 | 00:00:38 | CP9 | 10:29:15 | 00:00:00 |
| CP4 | 10:56:25 | 00:01:10 | CP8 | 10:30:17 | 00:01:02 |
| CP5 | 10:57:08 | 00:00:43 | CP7 | 10:38:48 | 00:08:31 |
| CP6 | 10:58:16 | 00:01:08 | CP6 | 10:42:11 | 00:03:23 |
| CP7 | 10:58:44 | 00:00:28 | CP5 | 10:45:57 | 00:03:46 |
| CP8 | 10:59:32 | 00:00:48 | CP4 | 10:46:47 | 00:00:50 |
| CP9 | 11:00:12 | 00:00:40 | CP3 | 10:47:36 | 00:00:49 |
| CP10 | 11:00:27 | 00:00:15 | CP2 | 10:48:12 | 00:00:36 |
| CP11 | 11:01:26 | 00:00:59 | CP1 | 10:49:40 | 00:01:28 |
| CP12 | 11:03:38 | 00:02:12 | CP0 | 10:51:36 | 00:01:56 |

| TRIP No. 10 | | | TRIP No. 09 | | |
|---|---|---|---|---|---|
| CHECK POINT | TIME | MINUTES STOPPED / PHOTO | CHECK POINT | TIME | MINUTES STOPPED / PHOTO |
| CP0 | 11:48:12 | 0 | CP12 | 11:22:14 | 0 |
| CP1 | 11:49:20 | 00:01:08 | CP11 | 11:24:32 | 00:02:18 |
| CP2 | 11:50:26 | 00:01:06 | CP10 | 11:25:27 | 00:00:55 |
| CP3 | 11:51:02 | 00:00:36 | CP9 | 11:25:37 | 00:00:10 |
| CP4 | 11:52:24 | 00:01:22 | CP8 | 11:25:59 | 00:00:22 |
| CP5 | 11:55:40 | 00:03:16 | CP7 | 11:31:49 | 00:05:50 |
| CP6 | 11:57:00 | 00:01:20 | CP6 | 11:36:56 | 00:05:07 |
| CP7 | 11:58:00 | 00:01:00 | CP5 | 11:42:00 | 00:05:04 |
| CP8 | 12:00:08 | 00:02:08 | CP4 | 11:43:58 | 00:01:58 |
| CP9 | 12:00:52 | 00:00:44 | CP3 | 11:45:03 | 00:01:05 |
| CP10 | 12:01:13 | 00:00:21 | CP2 | 11:45:06 | 00:00:03 |
| CP11 | 12:02:00 | 00:00:47 | CP1 | 11:46:39 | 00:01:33 |
| CP12 | 12:03:59 | 00:01:59 | CP0 | 11:48:00 | 00:01:21 |

REMARKS: NO TRAFFIC LIGHTS WORKING

| | | | |
|---|---|---|---|
| GEOCONSULT | DATE: 09/11/2017 | LAB REF No. GC078/09N17/14:12 | |
| | DRIVER: M.SABELLI | START TIME: 12:04 | |
| | LOGGER: EMMANUEL NKUKU | FINISH TIME: 13:11 | |
| | PASSENGER: | TOTAL TIME: | |
| | CAR REG: CC26 | LOCATION START: MCHINJI ROUNDABOUT | |
| PROJECT: IMPROVEMENT OF ARTERY ROAD LILONGWE | | CLIENT: KATAHIRA ENGINEERS | |

## TRAFFIC SPEED SURVEY

| TRIP No. 12 | | | TRIP No. 11 | | |
|---|---|---|---|---|---|
| CHECK POINT | TIME | TIME ELAPSED | CHECK POINT | TIME | TIME ELAPSED |
| CP0 | 12:27:18 | 0 | CP12 | 12:04:11 | 0 |
| CP1 | 12:28:33 | 00:01:15 | CP11 | 12:05:15 | 00:01:04 |
| CP2 | 12:29:38 | 00:01:05 | CP10 | 12:05:48 | 00:00:33 |
| CP3 | 12:30:24 | 00:00:46 | CP9 | 12:06:00 | 00:00:12 |
| CP4 | 12:31:22 | 00:00:58 | CP8 | 12:06:53 | 00:00:53 |
| CP5 | 12:33:04 | 00:01:42 | CP7 | 12:15:29 | 00:08:36 |
| CP6 | 12:34:03 | 00:00:59 | CP6 | 12:19:26 | 00:03:57 |
| CP7 | 12:34:21 | 00:00:18 | CP5 | 12:21:35 | 00:02:09 |
| CP8 | 12:35:17 | 00:00:56 | CP4 | 12:22:52 | 00:01:17 |
| CP9 | 12:35:58 | 00:00:41 | CP3 | 12:23:49 | 00:00:57 |
| CP10 | 12:36:51 | 00:00:53 | CP2 | 12:24:30 | 00:00:41 |
| CP11 | 12:37:26 | 00:00:35 | CP1 | 12:25:53 | 00:01:23 |
| CP12 | 12:39:27 | 00:02:01 | CP0 | 12:26:57 | 00:01:04 |

| TRIP No. 14 | | | TRIP No. 13 | | |
|---|---|---|---|---|---|
| CHECK POINT | TIME | MINUTES STOPPED / PHOTO | CHECK POINT | TIME | MINUTES STOPPED / PHOTO |
| CP0 | 13:00:20 | 0 | CP12 | 12:39:40 | 0 |
| CP1 | 13:01:45 | 00:01:25 | CP11 | 12:41:14 | 00:01:34 |
| CP2 | 13:03:15 | 00:01:30 | CP10 | 12:41:43 | 00:00:29 |
| CP3 | 13:03:48 | 00:00:33 | CP9 | 12:41:52 | 00:00:09 |
| CP4 | 13:04:31 | 00:00:43 | CP8 | 12:42:46 | 00:00:54 |
| CP5 | 13:05:48 | 00:01:17 | CP7 | 12:48:05 | 00:05:19 |
| CP6 | 13:06:40 | 00:00:52 | CP6 | 12:52:24 | 00:04:19 |
| CP7 | 13:07:05 | 00:00:25 | CP5 | 12:54:24 | 00:02:00 |
| CP8 | 13:08:05 | 00:01:00 | CP4 | 12:55:33 | 00:01:09 |
| CP9 | 13:08:44 | 00:00:39 | CP3 | 12:56:28 | 00:00:55 |
| CP10 | 13:08:54 | 00:00:10 | CP2 | 12:57:01 | 00:00:33 |
| CP11 | 13:09:45 | 00:00:51 | CP1 | 12:58:29 | 00:01:28 |
| CP12 | 13:11:37 | 00:01:52 | CP0 | 12:59:50 | 00:01:21 |

REMARKS: NO TRAFFIC LIGHTS WORKING



| | | | |
|---|---|---|---|
| GEOCONSULT | DATE: 09/11/2017 | LAB REF No. GC078/09N17/14:12 | |
| | DRIVER: M.SABELLI | START TIME: 13:28 | |
| | LOGGER: EMMANUEL NKUKU | FINISH TIME: 13:50 | |
| | PASSENGER: | TOTAL TIME: | |
| | CAR REG: CC26 | LOCATION START: MCHINJI ROUNDABOUT | |
| PROJECT: IMPROVEMENT OF ARTERY ROAD LILONGWE | | CLIENT: KATAHIRA ENGINEERS | |

## TRAFFIC SPEED SURVEY

| TRIP No. 16 | | | TRIP No. 15 | | |
|---|---|---|---|---|---|
| CHECK POINT | TIME | TIME ELAPSED | CHECK POINT | TIME | TIME ELAPSED |
| CP0 | 13:39:10 | 0 | CP12 | 13:28:22 | 0 |
| CP1 | 13:40:43 | 00:01:33 | CP11 | 13:29:54 | 00:01:32 |
| CP2 | 13:42:00 | 00:01:17 | CP10 | 13:30:24 | 00:00:30 |
| CP3 | 13:42:40 | 00:00:40 | CP9 | 13:30:37 | 00:00:13 |
| CP4 | 13:43:30 | 00:00:50 | CP8 | 13:31:08 | 00:00:31 |
| CP5 | 13:45:08 | 00:01:38 | CP7 | 13:31:33 | 00:00:25 |
| CP6 | 13:46:12 | 00:01:04 | CP6 | 13:31:53 | 00:00:20 |
| CP7 | 13:46:28 | 00:00:16 | CP5 | 13:33:00 | 00:01:07 |
| CP8 | 13:47:04 | 00:00:36 | CP4 | 13:34:40 | 00:01:40 |
| CP9 | 13:47:47 | 00:00:43 | CP3 | 13:35:44 | 00:01:04 |
| CP10 | 13:48:06 | 00:00:19 | CP2 | 13:36:15 | 00:00:31 |
| CP11 | 13:48:52 | 00:00:46 | CP1 | 13:37:34 | 00:01:19 |
| CP12 | 13:50:29 | 00:01:37 | CP0 | 13:38:51 | 00:01:17 |

| TRIP No. | | | TRIP No. | | |
|---|---|---|---|---|---|
| CHECK POINT | TIME | MINUTES STOPPED / PHOTO | CHECK POINT | TIME | MINUTES STOPPED / PHOTO |
| CP0 | | | CP12 | | |
| CP1 | | | CP11 | | |
| CP2 | | | CP10 | | |
| CP3 | | | CP9 | | |
| CP4 | | | CP8 | | |
| CP5 | | | CP7 | | |
| CP6 | | | CP6 | | |
| CP7 | | | CP5 | | |
| CP8 | | | CP4 | | |
| CP9 | | | CP3 | | |
| CP10 | | | CP2 | | |
| CP11 | | | CP1 | | |
| CP12 | | | CP0 | | |

REMARKS: NO TRAFFIC LIGHTS WORKING

| | | | |
|---|---|---|---|
| GEOCONSULT | DATE: 09/11/2017 | LAB REF No. | GC078/09N17/14:12 |
| | DRIVER: M.SABELLI | START TIME: 14:44 | |
| | LOGGER: EMMANUEL NKUKU | FINISH TIME: 16:00 | |
| | PASSENGER: | TOTAL TIME: | |
| | CAR REG: CC26 | LOCATION START: | MCHINJI ROUNDABOUT |
| **PROJECT:** IMPROVEMENT OF ARTERY ROAD LILONGWE | | **CLIENT:** | KATAHIRA ENGINEERS |

## TRAFFIC SPEED SURVEY

| TRIP No. 18 | | | TRIP No. 17 | | |
|---|---|---|---|---|---|
| CHECK POINT | TIME | TIME ELAPSED | CHECK POINT | TIME | TIME ELAPSED |
| CP0 | 14:44:00 | 0 | CP12 | 14:28:36 | 0 |
| CP1 | 14:45:33 | 00:01:33 | CP11 | 14:30:24 | 00:01:48 |
| CP2 | 14:46:35 | 00:01:02 | CP10 | 14:30:58 | 00:00:34 |
| CP3 | 14:47:10 | 00:00:35 | CP9 | 14:31:10 | 00:00:12 |
| CP4 | 14:48:50 | 00:01:40 | CP8 | 14:31:56 | 00:00:46 |
| CP5 | 14:51:15 | 00:02:25 | CP7 | 14:32:38 | 00:00:42 |
| CP6 | 14:51:35 | 00:00:20 | CP6 | 14:36:13 | 00:03:35 |
| CP7 | 14:51:49 | 00:00:14 | CP5 | 14:38:32 | 00:02:19 |
| CP8 | 14:52:42 | 00:00:53 | CP4 | 14:39:34 | 00:01:02 |
| CP9 | 14:53:17 | 00:00:35 | CP3 | 14:40:16 | 00:00:42 |
| CP10 | 14:53:45 | 00:00:28 | CP2 | 14:40:52 | 00:00:36 |
| CP11 | 14:54:56 | 00:01:11 | CP1 | 14:42:09 | 00:01:17 |
| CP12 | 14:57:18 | 00:02:22 | CP0 | 14:43:54 | 00:01:45 |

| TRIP No. 20 | | | TRIP No. 19 | | |
|---|---|---|---|---|---|
| CHECK POINT | TIME | MINUTES STOPPED / PHOTO | CHECK POINT | TIME | MINUTES STOPPED / PHOTO |
| CP0 | 15:46:37 | 0 | CP12 | 15:32:43 | 0 |
| CP1 | 15:47:47 | 00:01:10 | CP11 | 15:34:24 | 00:01:41 |
| CP2 | 15:49:13 | 00:01:26 | CP10 | 15:35:11 | 00:00:47 |
| CP3 | 15:49:53 | 00:00:40 | CP9 | 15:35:32 | 00:00:21 |
| CP4 | 15:51:14 | 00:01:21 | CP8 | 15:36:08 | 00:00:36 |
| CP5 | 15:54:15 | 00:03:01 | CP7 | 15:36:34 | 00:00:26 |
| CP6 | 15:55:33 | 00:01:18 | CP6 | 15:37:08 | 00:00:34 |
| CP7 | 15:56:11 | 00:00:38 | CP5 | 15:40:38 | 00:03:30 |
| CP8 | 15:56:42 | 00:00:31 | CP4 | 15:41:08 | 00:00:30 |
| CP9 | 15:57:14 | 00:00:32 | CP3 | 15:42:13 | 00:01:05 |
| CP10 | 15:57:27 | 00:00:13 | CP2 | 15:42:42 | 00:00:29 |
| CP11 | 15:58:11 | 00:00:44 | CP1 | 15:44:26 | 00:01:44 |
| CP12 | 16:00:04 | 00:01:53 | CP0 | 15:46:21 | 00:01:55 |

REMARKS: NO TRAFFIC LIGHTS WORKING



| | | | |
|---|---|---|---|
| GEOCONSULT | DATE: 09/11/2017 | LAB REF No. | GC078/09N17/13:45 |
| | DRIVER: GIFT KACHIWALA | START TIME: 06:35 | |
| | LOGGER: HAPPY CHIRWA | FINISH TIME: 07:34 | |
| | PASSENGER: | TOTAL TIME: | |
| | CAR REG: SA5997 | LOCATION START: | CHIDZANJ JUNCTION |
| **PROJECT:** IMPROVEMENT OF ARTERY ROAD LILONGWE | | **CLIENT:** | KATAHIRA ENGINEERS |

## TRAFFIC SPEED SURVEY

| TRIP No. 01 | | | TRIP No. 02 | | |
|---|---|---|---|---|---|
| CHECK POINT | TIME | TIME ELAPSED | CHECK POINT | TIME | TIME ELAPSED |
| CP0 | 06:35:40 | 0 | CP12 | 06:47:10 | 0 |
| CP1 | 06:37:20 | 00:01:40 | CP11 | 06:49:26 | 00:02:16 |
| CP2 | 06:39:32 | 00:02:12 | CP10 | 06:50:06 | 00:00:40 |
| CP3 | 06:40:50 | 00:01:18 | CP9 | 06:50:23 | 00:00:17 |
| CP4 | 06:41:14 | 00:00:24 | CP8 | 06:50:41 | 00:00:18 |
| CP5 | 06:41:43 | 00:00:29 | CP7 | 06:50:58 | 00:00:17 |
| CP6 | 06:42:37 | 00:00:54 | CP6 | 06:51:47 | 00:00:49 |
| CP7 | 06:43:12 | 00:00:35 | CP5 | 06:53:15 | 00:01:28 |
| CP8 | 06:43:38 | 00:00:26 | CP4 | 06:54:27 | 00:01:12 |
| CP9 | 06:43:57 | 00:00:19 | CP3 | 06:55:36 | 00:01:09 |
| CP10 | 06:44:35 | 00:00:38 | CP2 | 06:55:49 | 00:00:13 |
| CP11 | 06:45:47 | 00:01:12 | CP1 | 06:57:09 | 00:01:20 |
| CP12 | 06:47:44 | 00:01:57 | CP0 | 06:59:45 | 00:02:36 |

| TRIP No. 03 | | | TRIP No. 04 | | |
|---|---|---|---|---|---|
| CHECK POINT | TIME | MINUTES STOPPED / PHOTO | CHECK POINT | TIME | MINUTES STOPPED / PHOTO |
| CP0 | 07:00:12 | 0 | CP12 | 07:13:05 | 0 |
| CP1 | 07:01:14 | 00:01:02 | CP11 | 07:14:50 | 00:01:45 |
| CP2 | 07:03:26 | 00:02:12 | CP10 | 07:15:13 | 00:00:23 |
| CP3 | 07:04:54 | 00:01:28 | CP9 | 07:15:55 | 00:00:42 |
| CP4 | 07:05:44 | 00:00:50 | CP8 | 07:17:34 | 00:01:39 |
| CP5 | 07:06:17 | 00:00:33 | CP7 | 07:18:22 | 00:00:48 |
| CP6 | 07:08:14 | 00:01:57 | CP6 | 07:25:27 | 00:07:05 |
| CP7 | 07:08:56 | 00:00:42 | CP5 | 07:28:11 | 00:02:44 |
| CP8 | 07:09:17 | 00:00:21 | CP4 | 07:29:39 | 00:01:28 |
| CP9 | 07:09:28 | 00:00:11 | CP3 | 07:30:24 | 00:00:45 |
| CP10 | 07:09:46 | 00:00:18 | CP2 | 07:31:51 | 00:01:27 |
| CP11 | 07:10:36 | 00:00:50 | CP1 | 07:32:41 | 00:00:50 |
| CP12 | 07:12:22 | 00:01:46 | CP0 | 07:34:58 | 00:02:17 |

REMARKS: NO TRAFFIC LIGHTS WORKING

| | | | |
|---|---|---|---|
| GEOCONSULT | DATE: 09/11/2017 | LAB REF No. | GC078/09N17/13:45 |
| | DRIVER: GIFT KACHIWALA | START TIME: | 07:35 |
| | LOGGER: HAPPY CHIRWA | FINISH TIME: | 09:15 |
| | PASSENGER: | TOTAL TIME: | |
| | CAR REG: SA5997 | LOCATION START: | CHIDZANJ JUNCTION |
| **PROJECT:** IMPROVEMENT OF ARTERY ROAD LILONGWE | | **CLIENT:** | KATAHIRA ENGINEERS |

## TRAFFIC SPEED SURVEY

**TRIP No. 05**

| CHECK POINT | TIME | TIME ELAPSED |
|---|---|---|
| CP0 | 07:35:12 | 0 |
| CP1 | 07:38:46 | 00:03:34 |
| CP2 | 07:40:27 | 00:01:41 |
| CP3 | 07:41:22 | 00:00:55 |
| CP4 | 07:43:35 | 00:02:13 |
| CP5 | 08:02:22 | 00:18:47 |
| CP6 | 08:03:48 | 00:01:26 |
| CP7 | 08:04:17 | 00:00:29 |
| CP8 | 08:04:26 | 00:00:09 |
| CP9 | 08:05:02 | 00:00:36 |
| CP10 | 08:05:12 | 00:00:10 |
| CP11 | 08:06:28 | 00:01:16 |
| CP12 | 08:07:50 | 00:01:22 |

**TRIP No. 06**

| CHECK POINT | TIME | TIME ELAPSED |
|---|---|---|
| CP12 | 08:10:11 | 0 |
| CP11 | 08:11:26 | 00:01:15 |
| CP10 | 08:13:46 | 00:02:20 |
| CP9 | 08:14:09 | 00:00:23 |
| CP8 | 08:14:36 | 00:00:27 |
| CP7 | 08:19:27 | 00:04:51 |
| CP6 | 08:24:54 | 00:05:27 |
| CP5 | 08:27:09 | 00:02:15 |
| CP4 | 08:27:44 | 00:00:35 |
| CP3 | 08:28:14 | 00:00:30 |
| CP2 | 08:29:32 | 00:01:18 |
| CP1 | 08:31:26 | 00:01:54 |
| CP0 | 08:32:57 | 00:01:31 |

**TRIP No. 07**

| CHECK POINT | TIME | MINUTES STOPPED / PHOTO |
|---|---|---|
| CP0 | 08:33:14 | 0 |
| CP1 | 08:35:20 | 00:02:06 |
| CP2 | 08:37:11 | 00:01:51 |
| CP3 | 08:37:51 | 00:00:40 |
| CP4 | 08:39:44 | 00:01:53 |
| CP5 | 08:4_:19 | 00:00:35 |
| CP6 | 08:42:06 | 00:01:47 |
| CP7 | 08:42:40 | 00:00:34 |
| CP8 | 08:43:14 | 00:00:34 |
| CP9 | 08:43:38 | 00:00:24 |
| CP10 | 08:43:41 | 00:00:03 |
| CP11 | 08:44:46 | 00:01:05 |
| CP12 | 08:46:55 | 00:02:09 |

**TRIP No. 08**

| CHECK POINT | TIME | MINUTES STOPPED / PHOTO |
|---|---|---|
| CP12 | 08:47:12 | 0 |
| CP11 | 08:50:28 | 00:03:16 |
| CP10 | 08:51:06 | 00:00:38 |
| CP9 | 08:51:12 | 00:00:06 |
| CP8 | 08:52:41 | 00:01:29 |
| CP7 | 09:0_:19 | 00:07:38 |
| CP6 | 09:07:10 | 00:06:51 |
| CP5 | 09:10:48 | 00:03:38 |
| CP4 | 09:11:25 | 00:00:37 |
| CP3 | 09:11:45 | 00:00:20 |
| CP2 | 09:12:16 | 00:00:31 |
| CP1 | 09:13:44 | 00:01:28 |
| CP0 | 09:15:30 | 00:01:46 |

REMARKS: NO TRAFFIC LIGHTS WORKING



| | | | |
|---|---|---|---|
| GEOCONSULT | DATE: 09/11/2017 | LAB REF No. | GC078/09N17/13:45 |
| | DRIVER: GIFT KACHIWALA | START TIME: | 09:34 |
| | LOGGER: HAPPY CHIRWA | FINISH TIME: | 11:18 |
| | PASSENGER: | TOTAL TIME: | |
| | CAR REG: SA5997 | LOCATION START: | CHIDZANJ JUNCTION |
| **PROJECT:** IMPROVEMENT OF ARTERY ROAD LILONGWE | | **CLIENT:** | KATAHIRA ENGINEERS |

## TRAFFIC SPEED SURVEY

**TRIP No. 09**

| CHECK POINT | TIME | TIME ELAPSED |
|---|---|---|
| CP0 | 09:34:14 | 0 |
| CP1 | 09:35:48 | 00:01:34 |
| CP2 | 09:37:11 | 00:01:23 |
| CP3 | 09:37:39 | 00:00:28 |
| CP4 | 09:39:08 | 00:01:29 |
| CP5 | 09:40:17 | 00:01:09 |
| CP6 | 09:41:08 | 00:00:51 |
| CP7 | 09:42:25 | 00:01:17 |
| CP8 | 09:43:05 | 00:00:40 |
| CP9 | 09:43:47 | 00:00:42 |
| CP10 | 09:43:52 | 00:00:05 |
| CP11 | 09:44:22 | 00:00:30 |
| CP12 | 09:46:50 | 00:02:28 |

**TRIP No. 10**

| CHECK POINT | TIME | TIME ELAPSED |
|---|---|---|
| CP12 | 09:47:09 | 0 |
| CP11 | 09:48:25 | 00:01:16 |
| CP10 | 09:49:39 | 00:01:14 |
| CP9 | 09:49:54 | 00:00:15 |
| CP8 | 09:50:26 | 00:00:32 |
| CP7 | 09:57:09 | 00:06:43 |
| CP6 | 10:01:36 | 00:04:27 |
| CP5 | 10:04:52 | 00:03:16 |
| CP4 | 10:05:31 | 00:00:39 |
| CP3 | 10:06:13 | 00:00:42 |
| CP2 | 10:06:44 | 00:00:31 |
| CP1 | 10:08:50 | 00:02:06 |
| CP0 | 10:10:46 | 00:01:56 |

**TRIP No. 11**

| CHECK POINT | TIME | MINUTES STOPPED / PHOTO |
|---|---|---|
| CP0 | 10:35:26 | 0 |
| CP1 | 10:38:14 | 00:02:48 |
| CP2 | 10:39:22 | 00:01:08 |
| CP3 | 10:39:49 | 00:00:27 |
| CP4 | 10:41:20 | 00:01:31 |
| CP5 | 10:43:31 | 00:02:11 |
| CP6 | 10:44:49 | 00:01:18 |
| CP7 | 10:45:21 | 00:00:32 |
| CP8 | 10:46:16 | 00:00:55 |
| CP9 | 10:46:32 | 00:00:16 |
| CP10 | 10:47:03 | 00:00:31 |
| CP11 | 10:48:09 | 00:01:06 |
| CP12 | 10:49:15 | 00:01:06 |

**TRIP No. 12**

| CHECK POINT | TIME | MINUTES STOPPED / PHOTO |
|---|---|---|
| CP12 | 10:51:07 | 0 |
| CP11 | 10:53:14 | 00:02:07 |
| CP10 | 10:54:12 | 00:00:58 |
| CP9 | 10:54:53 | 00:00:41 |
| CP8 | 10:55:32 | 00:00:39 |
| CP7 | 11:02:29 | 00:06:57 |
| CP6 | 11:09:47 | 00:07:18 |
| CP5 | 11:11:14 | 00:01:27 |
| CP4 | 11:12:07 | 00:00:53 |
| CP3 | 11:13:26 | 00:01:19 |
| CP2 | 11:14:51 | 00:01:25 |
| CP1 | 11:15:39 | 00:00:48 |
| CP0 | 11:18:58 | 00:03:19 |

REMARKS: NO TRAFFIC LIGHTS WORKING

| | | | |
|---|---|---|---|
| GEOCONSULT | DATE: 09/11/2017 | LAB REF No. | GC078/09N17/13:45 |
| | DRIVER: GIFT KACHIWALA | START TIME: | 11:30 |
| | LOGGER: HAPPY CHIRWA | FINISH TIME: | 13:06 |
| | PASSENGER: | TOTAL TIME: | |
| | CAR REG: SA5997 | LOCATION START: | CHIDZANJ JUNCTION |
| **PROJECT:** IMPROVEMENT OF ARTERY ROAD LILONGWE | | **CLIENT:** | KATAHIRA ENGINEERS |

## TRAFFIC SPEED SURVEY

| TRIP No. 13 | | | TRIP No. 14 | | |
|---|---|---|---|---|---|
| CHECK POINT | TIME | TIME ELAPSED | CHECK POINT | TIME | TIME ELAPSED |
| CP0 | 11:30:16 | 0 | CP12 | 11:54:12 | 0 |
| CP1 | 11:30:37 | 00:00:21 | CP11 | 11:56:42 | 00:02:30 |
| CP2 | 11:33:16 | 00:02:39 | CP10 | 11:57:20 | 00:00:38 |
| CP3 | 11:35:22 | 00:02:06 | CP9 | 11:57:57 | 00:00:37 |
| CP4 | 11:38:48 | 00:03:26 | CP8 | 11:58:32 | 00:00:35 |
| CP5 | 11:43:50 | 00:05:02 | CP7 | 12:04:16 | 00:05:44 |
| CP6 | 11:46:19 | 00:02:29 | CP6 | 12:12:37 | 00:08:21 |
| CP7 | 11:48:02 | 00:01:43 | CP5 | 12:14:22 | 00:01:45 |
| CP8 | 11:48:38 | 00:00:36 | CP4 | 12:15:36 | 00:01:14 |
| CP9 | 11:49:39 | 00:01:01 | CP3 | 12:16:23 | 00:00:47 |
| CP10 | 11:49:45 | 00:00:06 | CP2 | 12:16:49 | 00:00:26 |
| CP11 | 11:51:56 | 00:02:11 | CP1 | 12:19:25 | 00:02:36 |
| CP12 | 11:52:51 | 00:00:55 | CP0 | 12:20:48 | 00:01:23 |

| TRIP No. 15 | | | TRIP No. 16 | | |
|---|---|---|---|---|---|
| CHECK POINT | TIME | MINUTES STOPPED / PHOTO | CHECK POINT | TIME | MINUTES STOPPED / PHOTO |
| CP0 | 12:30:21 | 0 | CP12 | 12:45:42 | 0 |
| CP1 | 12:31:49 | 00:01:28 | CP11 | 12:46:10 | 00:00:28 |
| CP2 | 12:33:20 | 00:01:31 | CP10 | 12:46:48 | 00:00:38 |
| CP3 | 12:33:53 | 00:00:33 | CP9 | 12:47:29 | 00:00:41 |
| CP4 | 12:35:19 | 00:01:26 | CP8 | 12:48:36 | 00:01:07 |
| CP5 | 12:38:47 | 00:03:28 | CP7 | 12:51:12 | 00:02:36 |
| CP6 | 12:38:51 | 00:00:04 | CP6 | 12:59:01 | 00:07:49 |
| CP7 | 12:39:04 | 00:00:13 | CP5 | 13:00:47 | 00:01:46 |
| CP8 | 12:39:29 | 00:00:25 | CP4 | 13:01:44 | 00:00:57 |
| CP9 | 12:40:16 | 00:00:47 | CP3 | 13:02:58 | 00:01:14 |
| CP10 | 12:40:54 | 00:00:38 | CP2 | 13:03:41 | 00:00:43 |
| CP11 | 12:41:37 | 00:00:43 | CP1 | 13:04:50 | 00:01:09 |
| CP12 | 12:43:56 | 00:02:19 | CP0 | 13:06:22 | 00:01:32 |

REMARKS: NO TRAFFIC LIGHTS WORKING



| | | | |
|---|---|---|---|
| GEOCONSULT | DATE: 09/11/2017 | LAB REF No. | GC078/09N17/13:45 |
| | DRIVER: GIFT KACHIWALA | START TIME: | 13:21 |
| | LOGGER: HAPPY CHIRWA | FINISH TIME: | 13:34 |
| | PASSENGER: | TOTAL TIME: | |
| | CAR REG: SA5997 | LOCATION START: | CHIDZANJ JUNCTION |
| **PROJECT:** IMPROVEMENT OF ARTERY ROAD LILONGWE | | **CLIENT:** | KATAHIRA ENGINEERS |

## TRAFFIC SPEED SURVEY

| TRIP No. 17 | | | TRIP No. | | |
|---|---|---|---|---|---|
| CHECK POINT | TIME | TIME ELAPSED | CHECK POINT | TIME | TIME ELAPSED |
| CP0 | 13:21:47 | 0 | CP12 | | 0 |
| CP1 | 13:22:50 | 00:01:03 | CP11 | | 00:00:00 |
| CP2 | 13:24:19 | 00:01:29 | CP10 | | 00:00:00 |
| CP3 | 13:25:27 | 00:01:08 | CP9 | | 00:00:00 |
| CP4 | 13:28:45 | 00:03:18 | CP8 | | 00:00:00 |
| CP5 | 13:30:18 | 00:01:33 | CP7 | | 00:00:00 |
| CP6 | 13:30:50 | 00:00:32 | CP6 | | 00:00:00 |
| CP7 | 13:31:14 | 00:00:24 | CP5 | | 00:00:00 |
| CP8 | 13:31:56 | 00:00:42 | CP4 | | 00:00:00 |
| CP9 | 13:32:13 | 00:00:17 | CP3 | | 00:00:00 |
| CP10 | 13:32:21 | 00:00:08 | CP2 | | 00:00:00 |
| CP11 | 13:33:23 | 00:01:02 | CP1 | | 00:00:00 |
| CP12 | 13:34:53 | 00:01:30 | CP0 | | 00:00:00 |

| TRIP No. 15 | | | TRIP No. 16 | | |
|---|---|---|---|---|---|
| CHECK POINT | TIME | MINUTES STOPPED / PHOTO | CHECK POINT | TIME | MINUTES STOPPED / PHOTO |
| CP0 | | 0 | CP12 | | 0 |
| CP1 | | 00:00:00 | CP11 | | 00:00:00 |
| CP2 | | 00:00:00 | CP10 | | 00:00:00 |
| CP3 | | 00:00:00 | CP9 | | 00:00:00 |
| CP4 | | 00:00:00 | CP8 | | 00:00:00 |
| CP5 | | 00:00:00 | CP7 | | 00:00:00 |
| CP6 | | 00:00:00 | CP6 | | 00:00:00 |
| CP7 | | 00:00:00 | CP5 | | 00:00:00 |
| CP8 | | 00:00:00 | CP4 | | 00:00:00 |
| CP9 | | 00:00:00 | CP3 | | 00:00:00 |
| CP10 | | 00:00:00 | CP2 | | 00:00:00 |
| CP11 | | 00:00:00 | CP1 | | 00:00:00 |
| CP12 | | 00:00:00 | CP0 | | 00:00:00 |

REMARKS: NO TRAFFIC LIGHTS WORKING

| | | | |
|---|---|---|---|
| GEOCONSULT | DATE: 09/11/2017 | LAB REF No. | GC078/09N17/13:45 |
| | DRIVER: GIFT KACHIWALA | START TIME: 16:26 | |
| | LOGGER: HAPPY CHIRWA | FINISH TIME: 18:10 | |
| | PASSENGER: | TOTAL TIME: | |
| | CAR REG: SA5997 | LOCATION START: | CHIDZANJ JUNCTION |
| PROJECT: IMPROVEMENT OF ARTERY ROAD LILONGWE | | CLIENT: | KATAHIRA ENGINEERS |

## TRAFFIC SPEED SURVEY

| TRIP No. 18 | | | TRIP No. 19 | | |
|---|---|---|---|---|---|
| CHECK POINT | TIME | TIME ELAPSED | CHECK POINT | TIME | TIME ELAPSED |
| CP0 | 16:26:12 | 0 | CP12 | 16:50:22 | 0 |
| CP1 | 16:28:37 | 00:02:25 | CP11 | 16:52:54 | 00:02:32 |
| CP2 | 16:29:30 | 00:00:53 | CP10 | 16:53:36 | 00:00:42 |
| CP3 | 16:30:11 | 00:00:41 | CP9 | 16:54:47 | 00:01:11 |
| CP4 | 16:30:45 | 00:00:34 | CP8 | 16:55:29 | 00:00:42 |
| CP5 | 16:31:42 | 00:00:57 | CP7 | 17:01:16 | 00:05:47 |
| CP6 | 16:37:07 | 00:05:25 | CP6 | 17:04:22 | 00:03:06 |
| CP7 | 16:4_:02 | 00:02:55 | CP5 | 17:04:51 | 00:00:29 |
| CP8 | 16:42:55 | 00:02:53 | CP4 | 17:06:18 | 00:01:27 |
| CP9 | 16:43:12 | 00:00:17 | CP3 | 17:07:21 | 00:01:03 |
| CP10 | 16:44:41 | 00:01:29 | CP2 | 17:07:49 | 00:00:28 |
| CP11 | 16:45:33 | 00:00:52 | CP1 | 17:09:36 | 00:01:47 |
| CP12 | 16:47:49 | 00:02:16 | CP0 | 17:13:08 | 00:03:32 |

| TRIP No. 20 | | | TRIP No. 21 | | |
|---|---|---|---|---|---|
| CHECK POINT | TIME | MINUTES STOPPED / PHOTO | CHECK POINT | TIME | MINUTES STOPPED / PHOTO |
| CP0 | 17:16:55 | 0 | CP12 | 17:51:58 | 0 |
| CP1 | 17:19:49 | 00:02:54 | CP11 | 17:55:46 | 00:03:48 |
| CP2 | 17:20:12 | 00:00:23 | CP10 | 17:57:17 | 00:01:31 |
| CP3 | 17:20:51 | 00:00:39 | CP9 | 17:58:35 | 00:01:18 |
| CP4 | 17:21:38 | 00:00:47 | CP8 | 17:59:41 | 00:01:06 |
| CP5 | 17:32:44 | 00:11:06 | CP7 | 18:01:14 | 00:01:33 |
| CP6 | 17:38:17 | 00:05:33 | CP6 | 18:02:26 | 00:01:12 |
| CP7 | 17:41:24 | 00:03:07 | CP5 | 18:03:33 | 00:01:07 |
| CP8 | 17:42:36 | 00:01:12 | CP4 | 18:04:48 | 00:01:15 |
| CP9 | 17:43:19 | 00:00:43 | CP3 | 18:05:37 | 00:00:49 |
| CP10 | 17:44:48 | 00:01:29 | CP2 | 18:06:18 | 00:00:41 |
| CP11 | 17:46:50 | 00:02:02 | CP1 | 18:07:51 | 00:01:33 |
| CP12 | 17:49:21 | 00:02:31 | CP0 | 18:10:40 | 00:02:49 |

REMARKS: NO TRAFFIC LIGHTS WORKING





# PEDESTRIAN AND NON MOTORIZED VEHICLE COUNT

## PC 01 – PC 07

20/11/2017

Pedestrian survey was conducted on the project road to determine the volume of foot and bicycle traffic over a 6-hour period, 6:40am-11:40am & 3:30pm-6:30pm. The bridge PC01 was surveyed for 12 hours 6:40am-6:40pm.

The survey focused on:

- **Pedestrians**
- **Bicycles**
- **Hand Pulled Carts**

*Pedestrian Count at PC01*

**SURVEYED ON 12/12/2017**

| | P-LHS | | B - LHS | | P-RHS | | B-RHS | |
|---|---|---|---|---|---|---|---|---|
| | M | C | M | C | M | C | M | C |
| 11:50 - 12:00 | 215 | 241 | 2 | 47 | 154 | 142 | 39 | 3 |
| 12:00 - 12:10 | 196 | 222 | 0 | 52 | 172 | 122 | 44 | 0 |
| 12:10 - 12:20 | 192 | 235 | 0 | 54 | 170 | 229 | 62 | 4 |

KEY

| | |
|---|---|
| **P** | PEDESTRIAN |
| **B** | BICYCLE |
| **M** | MCHINJI DIRECTION |
| **C** | CHIDZANJA DIRECTION |



DATE 21/11/2017
LOCATION Pc01

| PC01 | DIRECTION - CHIDZANJA | | | | DIRECTION - MCHINJI | | | |
|---|---|---|---|---|---|---|---|---|
| TIME | PEDESTRIAN | BICYCLE | HAND CART | | PEDESTRIAN | BICYCLE | HAND CART | |
| 7:00 - 7:10 | 169 | 15 | 0 | | 157 | 30 | 0 | |
| 7:10 - 7:20 | 185 | 10 | 0 | | 190 | 45 | 1 | |
| 7:20 - 7:30 | 270 | 60 | 0 | | 220 | 42 | 1 | |
| 7:30 - 7:40 | 353 | 53 | 0 | | 258 | 39 | 1 | |
| 7:40 - 7:50 | 340 | 69 | 0 | | 284 | 29 | 0 | |
| 7:50 - 8:00 | 301 | 49 | 0 | | 268 | 34 | 0 | |
| 8:00 - 8:10 | 435 | 45 | 1 | | 279 | 31 | 1 | |
| 8:10 - 8:20 | 300 | 45 | 0 | | 212 | 33 | 0 | |
| 8:20 - 8:30 | 787 | 37 | 2 | | 280 | 35 | 0 | |
| 8:30 - 8:40 | 254 | 29 | 0 | | 216 | 41 | 0 | |
| 8:40 - 8:50 | 296 | 32 | 0 | | 254 | 40 | 1 | |
| 8:50 - 9:00 | 289 | 32 | 0 | | 211 | 25 | 1 | |
| 9:00 - 9:10 | 249 | 30 | 0 | | 217 | 16 | 2 | |
| 9:10 - 9:20 | 235 | 30 | 2 | | 173 | 29 | 0 | |
| 9:20 - 9:30 | 262 | 37 | 0 | | 243 | 34 | 2 | |
| 9:30 - 9:40 | 268 | 40 | 0 | | 181 | 25 | 1 | |
| 9:40 - 9:50 | 278 | 39 | 0 | | 151 | 18 | 0 | |
| 9:50 - 10:00 | 274 | 45 | 1 | | 162 | 21 | 0 | |
| 10:00 - 10:10 | 252 | 34 | 0 | | 273 | 37 | 1 | |
| 10:10 - 10:20 | 273 | 32 | 0 | | 252 | 40 | 1 | |
| 10:20 - 10:30 | 279 | 28 | 0 | | 254 | 43 | 0 | |
| 10:30 - 10:40 | 264 | 26 | 2 | | 279 | 28 | 1 | |
| 10:40 - 10:50 | 258 | 37 | 0 | | 264 | 39 | 0 | |
| 10:50 - 11:00 | 245 | 40 | 1 | | 251 | 30 | 0 | |
| 11:00 - 11:10 | 251 | 26 | 1 | | 260 | 32 | 0 | |
| 11:10 - 11:20 | 260 | 43 | 1 | | 258 | 26 | 1 | |
| 11:20 - 11:30 | 254 | 32 | 0 | | 245 | 32 | 0 | |
| 11:30 - 11:40 | 301 | 30 | 2 | | 301 | 34 | 0 | |
| 11:40 - 11:50 | 350 | 39 | 1 | | 350 | 26 | 1 | |
| 11:50 - 12:00 | 405 | 45 | 1 | | 435 | 41 | 1 | |
| 12:00 - 12:10 | 436 | 51 | 1 | | 426 | 58 | 0 | |
| 12:10 - 12:20 | 409 | 44 | 0 | | 412 | 51 | 0 | |
| 12:20 - 12:30 | 401 | 39 | 0 | | 402 | 49 | 0 | |
| 12:30 - 12:40 | 350 | 36 | 0 | | 388 | 54 | 1 | |
| 12:40 - 12:50 | 320 | 49 | 0 | | 350 | 56 | 0 | |
| 12:50 - 13:00 | 413 | 56 | 1 | | 340 | 48 | 0 | |
| 13:00 - 13:10 | 380 | 42 | 2 | | 240 | 38 | 2 | |
| 13:10 - 13:20 | 322 | 29 | 1 | | 285 | 32 | 0 | |
| 13:20 - 13:30 | 268 | 24 | 0 | | 198 | 27 | 1 | |
| 13:30 - 13:40 | 245 | 18 | 1 | | 255 | 29 | 1 | |
| 13:40 - 13:50 | 236 | 21 | 0 | | 259 | 30 | 2 | |
| 13:50 - 14:00 | 251 | 23 | 0 | | 215 | 18 | 0 | |
| 14:00 - 14:10 | 276 | 29 | 0 | | 322 | 27 | 1 | |
| 14:10 - 14:20 | 265 | 36 | 0 | | 226 | 21 | 0 | |
| 14:20 - 14:30 | 287 | 31 | 1 | | 239 | 14 | 0 | |
| 14:30 - 14:40 | 198 | 30 | 0 | | 276 | 26 | 0 | |
| 14:40 - 14:50 | 255 | 20 | 0 | | 236 | 36 | 0 | |
| 14:50 - 15:00 | 259 | 26 | 0 | | 287 | 40 | 1 | |
| 15:00 - 15:10 | 215 | 24 | 1 | | 245 | 29 | 0 | |
| 15:10 - 15:20 | 226 | 30 | 1 | | 251 | 16 | 2 | |
| 15:20 - 15:30 | 239 | 31 | 0 | | 288 | 18 | 1 | |
| 15:30 - 15:40 | 238 | 39 | 1 | | 120 | 10 | 2 | |
| 15:40 - 15:50 | 189 | 20 | 1 | | 145 | 10 | 0 | |
| 15:50 - 16:00 | 210 | 21 | 1 | | 160 | 13 | 0 | |
| 16:00 - 16:10 | 222 | 31 | 1 | | 153 | 24 | 0 | |
| 16:10 - 16:20 | 234 | 32 | 1 | | 193 | 26 | 0 | |
| 16:20 - 16:30 | 254 | 40 | 0 | | 196 | 38 | 1 | |
| 16:30 - 16:40 | 251 | 34 | 1 | | 219 | 34 | 1 | |
| 16:40 - 16:50 | 295 | 46 | 1 | | 271 | 45 | 0 | |
| 16:50 - 17:00 | 320 | 42 | 2 | | 357 | 52 | 0 | |
| 17:00 - 17:10 | 319 | 65 | 1 | | 367 | 50 | 0 | |
| 17:10 - 17:20 | 344 | 55 | 0 | | 360 | 38 | 1 | |
| 17:20 - 17:30 | 302 | 58 | 0 | | 356 | 33 | 1 | |
| 17:30 - 17:40 | 377 | 48 | 0 | | 382 | 30 | 0 | |
| 17:40 - 17:50 | 260 | 32 | 3 | | 419 | 23 | 0 | |
| 17:50 - 18:00 | 196 | 40 | 0 | | 249 | 20 | 0 | |
| 18:00 - 18:10 | 210 | 31 | 0 | | 243 | 18 | 1 | |
| 18:10 - 18:20 | 172 | 18 | 2 | | 129 | 8 | 0 | |
| 18:20 - 18:30 | 265 | 20 | 0 | | 230 | 14 | 0 | |

DATE 21/11/2017
LOCATION PC02

| PC02 | | | | | | |
|---|---|---|---|---|---|---|
| | DIRECTION - MCHINJI | | | DIRECTION - CHIDZANJA | | |
| TIME | PEDESTRIAN | BICYCLE | HAND CART | PEDESTRIAN | BICYCLE | HAND CART |
| 6:40 - 6:50 | 15 | 14 | 0 | 22 | 4 | 0 |
| 6:50 - 7:00 | 23 | 21 | 0 | 25 | 9 | 0 |
| 7:00 - 7:10 | 21 | 13 | 0 | 27 | 7 | 0 |
| 7:10 - 7:20 | 42 | 24 | 0 | 43 | 8 | 0 |
| 7:20 - 7:30 | 35 | 25 | 0 | 68 | 10 | 0 |
| 7:30 - 7:40 | 35 | 21 | 0 | 71 | 15 | 0 |
| 7:40 - 7:50 | 29 | 14 | 0 | 32 | 18 | 0 |
| 7:50 - 8:00 | 43 | 6 | 0 | 27 | 20 | 0 |
| 8:00 - 8:10 | 22 | 14 | 0 | 38 | 23 | 0 |
| 8:10 - 8:20 | 31 | 11 | 0 | 25 | 15 | 0 |
| 8:20 - 8:30 | 24 | 13 | 0 | 29 | 16 | 0 |
| 8:30 - 8:40 | 26 | 7 | 0 | 29 | 7 | 0 |
| 8:40 - 8:50 | 34 | 15 | 0 | 20 | 17 | 0 |
| 8:50 - 9:00 | 20 | 15 | 0 | 33 | 8 | 0 |
| 9:00 - 9:10 | 33 | 11 | 0 | 33 | 12 | 0 |
| 9:10 - 9:20 | 26 | 13 | 0 | 18 | 5 | 0 |
| 9:20 - 9:30 | 28 | 12 | 0 | 20 | 8 | 0 |
| 9:30 - 9:40 | 33 | 11 | 0 | 24 | 9 | 0 |
| 9:40 - 9:50 | 19 | 13 | 0 | 19 | 10 | 0 |
| 9:50 - 10:00 | 28 | 6 | 0 | 27 | 4 | 0 |
| 10:00 - 10:10 | 38 | 11 | 0 | 17 | 14 | 1 |
| 10:10 - 10:20 | 28 | 6 | 0 | 17 | 1 | 0 |
| 10:20 - 10:30 | 26 | 8 | 0 | 28 | 7 | 0 |
| 10:30 - 10:40 | 22 | 5 | 0 | 24 | 10 | 1 |
| 10:40 - 10:50 | 21 | 7 | 0 | 21 | 7 | 0 |
| 10:50 - 11:00 | 23 | 4 | 0 | 23 | 8 | 0 |
| 11:00 - 11:10 | 22 | 6 | 0 | 18 | 6 | 0 |
| 11:20 - 11:30 | 19 | 9 | 0 | 21 | 4 | 0 |
| 11:30 - 11:40 | 24 | 11 | 0 | 27 | 9 | 0 |
| | | | | | | |
| 15:30 - 15:40 | 12 | 5 | 0 | 14 | 6 | 0 |
| 15:40 - 15:50 | 20 | 5 | 0 | 24 | 7 | 0 |
| 15:50 - 16:00 | 27 | 14 | 0 | 13 | 11 | 0 |
| 16:00 - 16:10 | 29 | 6 | 0 | 26 | 11 | 0 |
| 16:10 - 16:20 | 27 | 10 | 0 | 45 | 10 | 0 |
| 16:20 - 16:30 | 16 | 12 | 0 | 25 | 4 | 0 |
| 16:30 - 16:40 | 25 | 14 | 0 | 39 | 5 | 0 |
| 16:40 - 16:50 | 25 | 4 | 0 | 43 | 13 | 0 |
| 16:50 - 17:00 | 39 | 15 | 0 | 31 | 13 | 0 |
| 17:00 - 17:10 | 30 | 21 | 0 | 22 | 11 | 0 |
| 17:10 - 17:20 | 36 | 22 | 0 | 70 | 14 | 0 |
| 17:20 - 17:30 | 34 | 18 | 0 | 58 | 9 | 0 |
| 17:30 - 17:40 | 39 | 14 | 0 | 31 | 11 | 0 |
| 17:40 - 17:50 | 47 | 8 | 0 | 22 | 7 | 0 |
| 17:50 - 18:00 | 29 | 11 | 0 | 19 | 9 | 0 |
| 18:00 - 18:10 | 20 | 12 | 0 | 20 | 11 | 0 |
| 18:10 - 18:20 | 13 | 10 | 0 | 11 | 4 | 0 |
| 18:20 - 18:30 | 9 | 3 | 0 | 10 | 3 | 0 |





DATE 21/11/2017
LOCATION PC03

| PC03 | | | | | | |
|---|---|---|---|---|---|---|
| | DIRECTION - MCHINJI | | | DIRECTION - CHIDZANJA | | |
| TIME | PEDESTRIAN | BICYCLE | HAND CART | PEDESTRIAN | BICYCLE | HAND CART |
| 6:40 - 6:50 | 21 | 4 | 0 | 13 | 6 | 0 |
| 6:50 - 7:00 | 39 | 9 | 0 | 23 | 12 | 0 |
| 7:00 - 7:10 | 51 | 5 | 0 | 11 | 5 | 0 |
| 7:10 - 7:20 | 116 | 13 | 0 | 40 | 22 | 0 |
| 7:20 - 7:30 | 64 | 15 | 0 | 67 | 15 | 0 |
| 7:30 - 7:40 | 20 | 5 | 0 | 30 | 9 | 0 |
| 7:40 - 7:50 | 67 | 12 | 0 | 34 | 13 | 0 |
| 7:50 - 8:00 | 97 | 17 | 0 | 37 | 19 | 0 |
| 8:00 - 8:10 | 94 | 9 | 0 | 51 | 28 | 0 |
| 8:10 - 8:20 | 107 | 10 | 0 | 54 | 21 | 0 |
| 8:20 - 8:30 | 66 | 15 | 0 | 24 | 6 | 0 |
| 8:30 - 8:40 | 78 | 14 | 0 | 63 | 16 | 0 |
| 8:40 - 8:50 | 59 | 10 | 0 | 33 | 10 | 0 |
| 8:50 - 9:00 | 71 | 19 | 0 | 45 | 15 | 0 |
| 9:00 - 9:10 | 52 | 15 | 0 | 38 | 3 | 0 |
| 9:10 - 9:20 | 73 | 11 | 0 | 37 | 15 | 0 |
| 9:20 - 9:30 | 62 | 13 | 0 | 41 | 4 | 0 |
| 9:30 - 9:40 | 70 | 9 | 1 | 33 | 12 | 0 |
| 9:40 - 9:50 | 44 | 11 | 0 | 36 | 10 | 0 |
| 9:50 - 10:00 | 51 | 11 | 0 | 46 | 9 | 0 |
| 10:00 - 10:10 | 64 | 10 | 0 | 45 | 10 | 0 |
| 10:10 - 10:20 | 39 | 10 | 0 | 39 | 6 | 1 |
| 10:20 - 10:30 | 36 | 7 | 0 | 50 | 1 | 0 |
| 10:30 - 10:40 | 42 | 7 | 0 | 26 | 7 | 0 |
| 10:40 - 10:50 | 47 | 13 | 0 | 33 | 5 | 1 |
| 10:50 - 11:00 | 36 | 5 | 1 | 21 | 9 | 0 |
| 11:00 - 11:10 | 29 | 7 | 0 | 24 | 7 | 0 |
| 11:20 - 11:30 | 42 | 10 | 0 | 32 | 4 | 0 |
| 11:30 - 11:40 | 44 | 12 | 0 | 28 | 6 | 0 |
| | | | | | | |
| 15:30 - 15:40 | 24 | 3 | 0 | 28 | 4 | 0 |
| 15:40 - 15:50 | 56 | 7 | 0 | 30 | 5 | 0 |
| 15:50 - 16:00 | 51 | 10 | 0 | 42 | 7 | 0 |
| 16:00 - 16:10 | 43 | 6 | 0 | 81 | 23 | 0 |
| 16:10 - 16:20 | 42 | 11 | 0 | 39 | 7 | 0 |
| 16:20 - 16:30 | 16 | 5 | 0 | 75 | 7 | 0 |
| 16:30 - 16:40 | 59 | 15 | 0 | 44 | 6 | 0 |
| 16:40 - 16:50 | 67 | 15 | 0 | 50 | 13 | 0 |
| 16:50 - 17:00 | 53 | 20 | 1 | 90 | 11 | 0 |
| 17:00 - 17:10 | 30 | 21 | 0 | 98 | 6 | 0 |
| 17:10 - 17:20 | 62 | 17 | 0 | 109 | 6 | 0 |
| 17:20 - 17:30 | 48 | 20 | 0 | 71 | 8 | 0 |
| 17:30 - 17:40 | 42 | 5 | 0 | 74 | 15 | 1 |
| 17:40 - 17:50 | 25 | 11 | 0 | 36 | 9 | 0 |
| 17:50 - 18:00 | 16 | 13 | 0 | 40 | 13 | 0 |
| 18:00 - 18:10 | 17 | 7 | 0 | 39 | 9 | 0 |
| 18:10 - 18:20 | 6 | 5 | 1 | 28 | 3 | 0 |
| 18:20 - 18:30 | 2 | 2 | 0 | 23 | 6 | 0 |

DATE 21/11/2017
LOCATION PC04

| PC04 | | | | | | |
|---|---|---|---|---|---|---|
| | DIRECTION - MCHINJI | | | DIRECTION - CHIDZANJA | | |
| TIME | PEDESTRIAN | BICYCLE | HAND CART | PEDESTRIAN | BICYCLE | HAND CART |
| 6:40 - 6:50 | 18 | 17 | 0 | 20 | 6 | 0 |
| 6:50 - 7:00 | 29 | 14 | 0 | 26 | 9 | 0 |
| 7:00 - 7:10 | 32 | 23 | 0 | 19 | 14 | 0 |
| 7:10 - 7:20 | 42 | 21 | 0 | 23 | 10 | 0 |
| 7:20 - 7:30 | 48 | 12 | 0 | 21 | 16 | 0 |
| 7:30 - 7:40 | 46 | 22 | 0 | 28 | 10 | 0 |
| 7:40 - 7:50 | 24 | 7 | 0 | 35 | 11 | 0 |
| 7:50 - 8:00 | 26 | 13 | 0 | 46 | 15 | 0 |
| 8:00 - 8:10 | 48 | 16 | 0 | 51 | 16 | 0 |
| 8:10 - 8:20 | 45 | 13 | 0 | 32 | 15 | 0 |
| 8:20 - 8:30 | 52 | 8 | 0 | 30 | 9 | 0 |
| 8:30 - 8:40 | 51 | 18 | 1 | 34 | 8 | 0 |
| 8:40 - 8:50 | 49 | 15 | 0 | 39 | 8 | 0 |
| 8:50 - 9:00 | 36 | 13 | 1 | 49 | 13 | 0 |
| 9:00 - 9:10 | 47 | 12 | 0 | 42 | 8 | 0 |
| 9:10 - 9:20 | 82 | 15 | 0 | 57 | 9 | 0 |
| 9:20 - 9:30 | 46 | 9 | 0 | 35 | 8 | 0 |
| 9:30 - 9:40 | 49 | 4 | 0 | 29 | 8 | 0 |
| 9:40 - 9:50 | 40 | 10 | 0 | 42 | 3 | 0 |
| 9:50 - 10:00 | 41 | 4 | 0 | 36 | 8 | 0 |
| 10:00 - 10:10 | 44 | 9 | 0 | 39 | 7 | 0 |
| 10:10 - 10:20 | 49 | 11 | 0 | 41 | 6 | 0 |
| 10:20 - 10:30 | 47 | 9 | 0 | 31 | 9 | 0 |
| 10:30 - 10:40 | 54 | 6 | 0 | 27 | 4 | 0 |
| 10:40 - 10:50 | 67 | 22 | 1 | 36 | 8 | 0 |
| 10:50 - 11:00 | 48 | 11 | 0 | 42 | 10 | 0 |
| 11:00 - 11:10 | 52 | 8 | 0 | 47 | 11 | 0 |
| 11:20 - 11:30 | 49 | 13 | 0 | 39 | 9 | 0 |
| 11:30 - 11:40 | 55 | 16 | 0 | 41 | 8 | 0 |
| | | | | | | |
| 15:30 - 15:40 | 37 | 10 | 1 | 39 | 16 | 0 |
| 15:40 - 15:50 | 28 | 8 | 0 | 41 | 21 | 0 |
| 15:50 - 16:00 | 24 | 10 | 0 | 28 | 14 | 0 |
| 16:00 - 16:10 | 36 | 14 | 0 | 21 | 16 | 0 |
| 16:10 - 16:20 | 29 | 16 | 0 | 19 | 24 | 0 |
| 16:20 - 16:30 | 49 | 17 | 0 | 45 | 22 | 0 |
| 16:30 - 16:40 | 47 | 20 | 0 | 57 | 18 | 0 |
| 16:40 - 16:50 | 57 | 19 | 0 | 76 | 16 | 0 |
| 16:50 - 17:00 | 48 | 8 | 0 | 88 | 18 | 0 |
| 17:00 - 17:10 | 18 | 6 | 0 | 54 | 14 | 0 |
| 17:10 - 17:20 | 27 | 6 | 0 | 62 | 7 | 1 |
| 17:20 - 17:30 | 25 | 10 | 0 | 42 | 12 | 0 |
| 17:30 - 17:40 | 27 | 9 | 0 | 39 | 7 | 0 |
| 17:40 - 17:50 | 25 | 5 | 0 | 14 | 1 | 0 |
| 17:50 - 18:00 | 34 | 9 | 0 | 15 | 2 | 0 |
| 18:00 - 18:10 | 27 | 9 | 0 | 27 | 8 | 0 |
| 18:10 - 18:20 | 25 | 5 | 0 | 17 | 9 | 0 |
| 18:20 - 18:30 | 34 | 9 | 0 | 16 | 4 | 0 |
| | | 6 | | | | |





DATE 21/11/2017
LOCATION PC05

| PC05 | | | | | | |
|---|---|---|---|---|---|---|
| | DIRECTION - MCHINJI | | | DIRECTION - CHIDZANJA | | |
| TIME | PEDESTRIAN | BICYCLE | HAND CART | PEDESTRIAN | BICYCLE | HAND CART |
| 6:40 - 6:50 | 532 | 39 | 0 | 111 | 22 | 0 |
| 6:50 - 7:00 | 719 | 28 | 1 | 123 | 19 | 0 |
| 7:00 - 7:10 | 855 | 33 | 1 | 109 | 17 | 0 |
| 7:10 - 7:20 | 1010 | 28 | 0 | 84 | 12 | 0 |
| 7:20 - 7:30 | 1025 | 20 | 1 | 130 | 16 | 0 |
| 7:30 - 7:40 | 621 | 29 | 1 | 160 | 13 | 0 |
| 7:40 - 7:50 | 499 | 12 | 0 | 157 | 2 | 0 |
| 7:50 - 8:00 | 652 | 15 | 0 | 146 | 3 | 0 |
| 8:00 - 8:10 | 855 | 28 | 0 | 167 | 8 | 0 |
| 8:10 - 8:20 | 880 | 21 | 0 | 195 | 8 | 0 |
| 8:20 - 8:30 | 555 | 22 | 0 | 182 | 5 | 0 |
| 8:30 - 8:40 | 761 | 30 | 0 | 189 | 5 | 0 |
| 8:40 - 8:50 | 950 | 14 | 0 | 195 | 5 | 1 |
| 8:50 - 9:00 | 875 | 5 | 0 | 180 | 4 | 0 |
| 9:00 - 9:10 | 682 | 5 | 0 | 283 | 5 | 0 |
| 9:10 - 9:20 | 726 | 13 | 0 | 267 | 8 | 0 |
| 9:20 - 9:30 | 592 | 15 | 1 | 276 | 5 | 1 |
| 9:30 - 9:40 | 553 | 8 | 0 | 197 | 7 | 0 |
| 9:40 - 9:50 | 633 | 7 | 0 | 231 | 5 | 0 |
| 9:50 - 10:00 | 515 | 5 | 0 | 277 | 3 | 0 |
| 10:00 - 10:10 | 640 | 5 | 0 | 276 | 0 | 0 |
| 10:10 - 10:20 | 1230 | 6 | 0 | 260 | 0 | 0 |
| 10:20 - 10:30 | 531 | 9 | 0 | 182 | 3 | 1 |
| 10:30 - 10:40 | 495 | 11 | 0 | 186 | 1 | 0 |
| 10:40 - 10:50 | 540 | 7 | 0 | 202 | 6 | 0 |
| 10:50 - 11:00 | 611 | 9 | 0 | 179 | 4 | 0 |
| 11:00 - 11:10 | 587 | 12 | 0 | 199 | 6 | 0 |
| 11:20 - 11:30 | 604 | 15 | 0 | 211 | 8 | 0 |
| 11:30 - 11:40 | 782 | 36 | 0 | 246 | 3 | 0 |
| | | | | | | |
| 15:30 - 15:40 | 197 | 7 | 0 | 280 | 4 | 0 |
| 15:40 - 15:50 | 479 | 5 | 0 | 266 | 4 | 0 |
| 15:50 - 16:00 | 292 | 12 | 0 | 324 | 7 | 0 |
| 16:00 - 16:10 | 231 | 10 | 0 | 258 | 10 | 0 |
| 16:10 - 16:20 | 238 | 17 | 0 | 291 | 11 | 0 |
| 16:20 - 16:30 | 190 | 14 | 0 | 365 | 16 | 0 |
| 16:30 - 16:40 | 200 | 9 | 0 | 385 | 14 | 0 |
| 16:40 - 16:50 | 240 | 19 | 0 | 443 | 22 | 0 |
| 16:50 - 17:00 | 238 | 17 | 0 | 435 | 33 | 0 |
| 17:00 - 17:10 | 231 | 11 | 0 | 589 | 34 | 0 |
| 17:10 - 17:20 | 166 | 17 | 0 | 593 | 45 | 0 |
| 17:20 - 17:30 | 175 | 6 | 0 | 486 | 14 | 0 |
| 17:30 - 17:40 | 147 | 7 | 0 | 421 | 14 | 1 |
| 17:40 - 17:50 | 155 | 15 | 0 | 439 | 20 | 0 |
| 17:50 - 18:00 | 141 | 6 | 0 | 353 | 10 | 0 |
| 18:00 - 18:10 | 101 | 11 | 0 | 453 | 16 | 0 |
| 18:10 - 18:20 | 99 | 9 | 0 | 262 | 7 | 0 |
| 18:20 - 18:30 | 139 | 4 | 0 | 323 | 2 | 0 |

DATE 21/11/2017
LOCATION PC06

**PC06**

| TIME | DIRECTION - MCHINJI | | | DIRECTION - CHIDZANJA | | |
|---|---|---|---|---|---|---|
| | PEDESTRIAN | BICYCLE | HAND CART | PEDESTRIAN | BICYCLE | HAND CART |
| 6:40 - 6:50 | 78 | 45 | 0 | 82 | 16 | 0 |
| 6:50 - 7:00 | 93 | 51 | 0 | 109 | 12 | 0 |
| 7:00 - 7:10 | 102 | 46 | 0 | 126 | 13 | 0 |
| 7:10 - 7:20 | 145 | 52 | 0 | 145 | 15 | 1 |
| 7:20 - 7:30 | 98 | 50 | 0 | 32 | 12 | 0 |
| 7:30 - 7:40 | 72 | 56 | 0 | 28 | 10 | 0 |
| 7:40 - 7:50 | 156 | 50 | 0 | 35 | 12 | 0 |
| 7:50 - 8:00 | 148 | 41 | 0 | 25 | 9 | 0 |
| 8:00 - 8:10 | 159 | 62 | 0 | 133 | 12 | 0 |
| 8:10 - 8:20 | 105 | 32 | 0 | 138 | 27 | 0 |
| 8:20 - 8:30 | 138 | 40 | 0 | 133 | 20 | 0 |
| 8:30 - 8:40 | 101 | 35 | 0 | 144 | 12 | 0 |
| 8:40 - 8:50 | 89 | 31 | 0 | 138 | 15 | 1 |
| 8:50 - 9:00 | 94 | 20 | 0 | 162 | 16 | 0 |
| 9:00 - 9:10 | 104 | 18 | 0 | 144 | 16 | 3 |
| 9:10 - 9:20 | 50 | 22 | 0 | 162 | 17 | 0 |
| 9:20 - 9:30 | 108 | 27 | 0 | 169 | 13 | 2 |
| 9:30 - 9:40 | 102 | 24 | 0 | 158 | 21 | 0 |
| 9:40 - 9:50 | 86 | 19 | 0 | 168 | 23 | 0 |
| 9:50 - 10:00 | 98 | 21 | 0 | 120 | 12 | 0 |
| 10:00 - 10:10 | 82 | 11 | 0 | 133 | 17 | 0 |
| 10:10 - 10:20 | 69 | 24 | 0 | 145 | 22 | 0 |
| 10:20 - 10:30 | 54 | 15 | 0 | 111 | 19 | 0 |
| 10:30 - 10:40 | 47 | 17 | 0 | 152 | 26 | 1 |
| 10:40 - 10:50 | 62 | 23 | 0 | 139 | 29 | 0 |
| 10:50 - 11:00 | 41 | 20 | 0 | 141 | 18 | 0 |
| 11:00 - 11:10 | 38 | 23 | 0 | 147 | 16 | 0 |
| 11:20 - 11:30 | 44 | 29 | 0 | 132 | 21 | 0 |
| 11:30 - 11:40 | 52 | 25 | 0 | 149 | 26 | 0 |
| | | | | | | |
| 15:30 - 15:40 | 38 | 16 | 0 | 102 | 15 | 3 |
| 15:40 - 15:50 | 50 | 11 | 0 | 112 | 23 | 1 |
| 15:50 - 16:00 | 48 | 22 | 0 | 127 | 30 | 0 |
| 16:00 - 16:10 | 45 | 9 | 0 | 76 | 24 | 0 |
| 16:10 - 16:20 | 42 | 24 | 0 | 155 | 33 | 0 |
| 16:20 - 16:30 | 46 | 22 | 0 | 123 | 42 | 0 |
| 16:30 - 16:40 | 40 | 16 | 0 | 145 | 31 | 1 |
| 16:40 - 16:50 | 23 | 14 | 0 | 244 | 57 | 1 |
| 16:50 - 17:00 | 35 | 13 | 0 | 443 | 80 | 1 |
| 17:00 - 17:10 | 43 | 17 | 0 | 337 | 65 | 1 |
| 17:10 - 17:20 | 34 | 10 | 0 | 407 | 133 | 0 |
| 17:20 - 17:30 | 51 | 5 | 0 | 550 | 56 | 0 |
| 17:30 - 17:40 | 14 | 10 | 0 | 533 | 50 | 0 |
| 17:40 - 17:50 | 20 | 14 | 0 | 490 | 30 | 0 |
| 17:50 - 18:00 | 19 | 5 | 0 | 321 | 31 | 0 |
| 18:00 - 18:10 | 16 | 2 | 0 | 348 | 32 | 0 |
| 18:10 - 18:20 | 21 | 11 | 0 | 261 | 13 | 0 |
| 18:20 - 18:30 | 17 | 2 | 0 | 301 | 15 | 0 |





DATE 21/11/2017
LOCATION PC07

**PC07**

| TIME | DIRECTION - MCHINJI | | | DIRECTION - CHIDZANJA | | |
|---|---|---|---|---|---|---|
| | PEDESTRIAN | BICYCLE | HAND CART | PEDESTRIAN | BICYCLE | HAND CART |
| 6:40 - 6:50 | 198 | 97 | 0 | 34 | 11 | 0 |
| 6:50 - 7:00 | 202 | 110 | 0 | 41 | 15 | 0 |
| 7:00 - 7:10 | 204 | 112 | 0 | 43 | 12 | 0 |
| 7:10 - 7:20 | 137 | 81 | 0 | 22 | 7 | 0 |
| 7:20 - 7:30 | 226 | 112 | 0 | 25 | 5 | 1 |
| 7:30 - 7:40 | 421 | 124 | 0 | 33 | 13 | 0 |
| 7:40 - 7:50 | 331 | 83 | 1 | 63 | 14 | 0 |
| 7:50 - 8:00 | 296 | 72 | 0 | 32 | 11 | 0 |
| 8:00 - 8:10 | 176 | 46 | 0 | 36 | 14 | 0 |
| 8:10 - 8:20 | 101 | 28 | 0 | 35 | 16 | 0 |
| 8:20 - 8:30 | 94 | 41 | 1 | 39 | 19 | 0 |
| 8:30 - 8:40 | 81 | 22 | 0 | 59 | 10 | 0 |
| 8:40 - 8:50 | 72 | 22 | 2 | 61 | 13 | 0 |
| 8:50 - 9:00 | 90 | 29 | 0 | 65 | 17 | 1 |
| 9:00 - 9:10 | 83 | 24 | 2 | 60 | 33 | 0 |
| 9:10 - 9:20 | 41 | 22 | 0 | 31 | 17 | 0 |
| 9:20 - 9:30 | 71 | 14 | 0 | 60 | 11 | 0 |
| 9:30 - 9:40 | 62 | 22 | 0 | 66 | 15 | 1 |
| 9:40 - 9:50 | 69 | 26 | 0 | 62 | 13 | 0 |
| 9:50 - 10:00 | 74 | 21 | 0 | 49 | 17 | 0 |
| 10:00 - 10:10 | 59 | 28 | 3 | 50 | 9 | 0 |
| 10:10 - 10:20 | 62 | 23 | 0 | 56 | 14 | 0 |
| 10:20 - 10:30 | 64 | 29 | 0 | 64 | 18 | 1 |
| 10:30 - 10:40 | 70 | 33 | 0 | 41 | 13 | 0 |
| 10:40 - 10:50 | 66 | 18 | 1 | 44 | 11 | 0 |
| 10:50 - 11:00 | 71 | 17 | 0 | 60 | 12 | 0 |
| 11:00 - 11:10 | 69 | 22 | 0 | 54 | 14 | 0 |
| 11:20 - 11:30 | 74 | 31 | 0 | 63 | 13 | 0 |
| 11:30 - 11:40 | 81 | 29 | 0 | 59 | 21 | 1 |
| | | | | | | |
| 15:30 - 15:40 | 51 | 10 | 0 | 53 | 20 | 0 |
| 15:40 - 15:50 | 37 | 12 | 3 | 64 | 8 | 0 |
| 15:50 - 16:00 | 69 | 19 | 0 | 76 | 9 | 0 |
| 16:00 - 16:10 | 49 | 8 | 0 | 45 | 15 | 0 |
| 16:10 - 16:20 | 20 | 23 | 0 | 67 | 31 | 0 |
| 16:20 - 16:30 | 62 | 18 | 1 | 54 | 25 | 0 |
| 16:30 - 16:40 | 44 | 14 | 0 | 68 | 25 | 0 |
| 16:40 - 16:50 | 36 | 11 | 0 | 79 | 36 | 0 |
| 16:50 - 17:00 | 40 | 11 | 0 | 102 | 44 | 0 |
| 17:00 - 17:10 | 39 | 20 | 2 | 137 | 43 | 0 |
| 17:10 - 17:20 | 26 | 7 | 0 | 293 | 70 | 0 |
| 17:20 - 17:30 | 18 | 9 | 1 | 202 | 46 | 0 |
| 17:30 - 17:40 | 23 | 13 | 0 | 178 | 31 | 0 |
| 17:40 - 17:50 | 15 | 7 | 0 | 151 | 34 | 0 |
| 17:50 - 18:00 | 8 | 8 | 0 | 198 | 36 | 0 |
| 18:00 - 18:10 | 11 | 8 | 0 | 166 | 16 | 0 |
| 18:10 - 18:20 | 1 | 2 | 0 | 154 | 28 | 0 |
| 18:20 - 18:30 | 2 | 0 | 1 | 128 | 17 | 1 |

# AXLE LOAD SURVEY

## MCHINJI R.A. – CHIZANJA JUNCTION

30/11/2017 – 1/12/2017

Axle Load survey was conducted in two locations, by Mchinji Roundabout and by Chidzanja Junction, selecting 250 trucks that have come onto the project road or about to leave.

Following data was collected:

- Registation & country of registration
- No. of axles
- Axle configuration
- Stopping or passing through project road
- Destination
- Commodity
- Axle load
- Origin







| TIME: | VEHICLE ID: | ORIGIN: | REG : | No. AXLES: | VEHICLE TYPE: | Axle Load1 | Axle Load2 | Axle Load3 | Axle Load4 | Axle Load5 | Axle Load6 | Axle Load7 | Axle Load8 | Axle Load9 | Axle Load10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11:23 | 542 | LILONGWE | CZ 87 | 6 | ARTICULATED | 5230 | 7330 | 7225 | 8105 | 8255 | 7045 | 70 | 80 | 90 | 100 |
| 11:25 | 543 | BIWI | KA 7813 | 3 | RIGID | 3950 | 5795 | 4855 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:19 | 540 | LILONGWE | MN 7710 | 3 | ARTICULATED | 4490 | 6955 | 3520 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:22 | 541 | LILONGWE | LL 6837 | 3 | ARTICULATED | 7215 | 7505 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:18 | 538 | NATHENJE | BS 974 | 2 | RIGID | 6275 | 12500 | 11690 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 539 | KANENGO | CK 1791 | 2 | RIGID | 2815 | 5825 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:12 | 534 | BLANTYRE | SO SC 78 | 2 | RIGID | 2170 | 1835 | 0 | 0 | 2280 | 0 | 0 | 0 | 0 | 0 |
| 11:17 | 535 | BLANTYRE | BN 1747 | 2 | RIGID | 3070 | 3070 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:09 | 532 | LILONGWE | CN 55 XT GP | 3 | ARTICULATED | 5465 | 3725 | 2195 | 2280 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:10 | 533 | LILONGWE | BU 755 | 2 | RIGID | 4000 | 4000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 652 | LILONGWE | TO 6666 | 2 | RIGID | 2870 | 2870 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 654 | LILONGWE | NB 3944 | 2 | RIGID | 2805 | 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 673 | LINTHIPE | NA 7550 | 2 | RIGID | 3025 | 2955 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 645 | LILONGWE | BU 6173 | 2 | RIGID | 4535 | 3110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:29 | 546 | LILONGWE | MN 4876 | 3 | BUS | 3025 | 3755 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:30 | 548 | KASUNGU | DZK 488 MP | 2 | RIGID | 3130 | 3840 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:30 | 549 | DEDZA | BT 5758 A | 2 | RIGID | 2680 | 2275 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:34 | 550 | LILONGWE | DZ 11705 | 2 | RIGID | 4390 | 41775 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:35 | 551 | KANENGO | ABX 1377 MC | 6 | ARTICULATED | 4855 | 7250 | 7340 | 10800 | 6160 | 7010 | 0 | 0 | 0 | 0 |
| 11:37 | 552 | LILONGWE | MC 5054 | 2 | RIGID | 7555 | 6810 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:34 | 553 | LILONGWE | MG 833 AD | 2 | RIGID | 2890 | 3630 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:38 | 554 | BLANTYRE | NU 4317 | 3 | ARTICULATED | 4750 | 3675 | 2275 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:39 | 555 | LILONGWE | NU 8597 | 2 | RIGID | 3295 | 9930 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 665 | LILONGWE | BG 8588 | 2 | RIGID | 3115 | 3910 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 666 | LILONGWE | KU 2075 | 3 | RIGID | 4525 | 2805 | 2720 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 667 | DEDZA | CP 1563 | 2 | RIGID | 3555 | 5240 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 668 | BLANTYRE | MC 9851 | 2 | RIGID | 2145 | 2470 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 667 | KASUNGU | MH 5160 | 3 | ARTICULATED | 2385 | 2040 | 2525 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 669 | LILONGWE | MH 105 | 2 | RIGID | 3420 | 3610 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:45 | 560 | MTUNDU | NA 7384 | 2 | RIGID | 2390 | 2560 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:49 | 561 | LILONGWE | BR 6668 | 2 | RIGID | 2255 | 1665 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:07 | 529 | LILONGWE | BN 3653 | 2 | RIGID | 4245 | 8005 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:08 | 530 | LILONGWE | BH 5900 | 2 | RIGID | 4680 | 11825 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:43 | 568 | BLANTYRE | BP 4674 | 2 | RIGID | 1970 | 2135 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:44 | 569 | MTUNDU | MH 1738 | 2 | RIGID | 3470 | 4645 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:40 | 555 | BLANTYRE | RU 4700 | 2 | RIGID | 3075 | 4385 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:52 | 507 | LILONGWE | DN 6823 | 2 | RIGID | 7435 | 3970 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:54 | 566 | BLANTYRE | MZ 7505 | 3 | RIGID | 4090 | 3970 | 3115 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:57 | 568 | LILONGWE | MZ 7823 | 3 | RIGID | 4440 | 5190 | 5165 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:59 | 567 | BLANTYRE | KK 3878 | 2 | RIGID | 2655 | 2715 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 109 | LILONGWE | LL 4547 | 2 | RIGID | 1900 | 1240 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 0 | LILONGWE | LL 9155 | 2 | RIGID | 2100 | 2560 | 2610 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 98 | LILONGWE | BK 9337 | 2 | RIGID | 4090 | 4165 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 99 | LILONGWE | MZ 7825 | 3 | RIGID | 4135 | 3100 | 3155 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 113 | LILONGWE | PE 1925 | 2 | RIGID | 4725 | 7450 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 114 | LILONGWE | BM 137 | 2 | RIGID | 1465 | 2125 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:53 | 148 | LILONGWE | BAD 173 | 6 | ARTICULATED | 1960 | 1885 | 2350 | 2580 | 3875 | 3485 | 0 | 0 | 0 | 0 |

| TIME: | VEHICLE ID: | ORIGIN: | REG : | No. AXLES: | VEHICLE TYPE: | Axle Load1 | Axle Load2 | Axle Load3 | Axle Load4 | Axle Load5 | Axle Load6 | Axle Load7 | Axle Load8 | Axle Load9 | Axle Load10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:23 | 161 | BLANTYRE | BP 6879 | 2 | RIGID | 4250 | 3745 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:25 | 162 | NCHEU | BK 6879 | 2 | RIGID | 3465 | 5280 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:25 | 163 | MOCAMBIQUE | ZA 3049 | 6 | ARTICUATED | 7745 | 9110 | 8735 | 9115 | 8785 | 11175 | 0 | 0 | 0 | 0 |
| 12:27 | 164 | BLANTYRE | NA 4743 | 6 | ARTICUATED | 4345 | 5395 | 4545 | 650 | 3860 | 6255 | 0 | 0 | 0 | 0 |
| 12:38 | 170 | KAPHIRI | SA 4286 | 2 | RIGID | 6005 | 5905 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:39 | 171 | KAPHIRI | ZA 9413 | 2 | RIGID | 4130 | 9340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:43 | 173 | MALAWI | BU 2603 | 6 | ARTICUATED | 5870 | 5320 | 8590 | 10465 | 7215 | 7470 | 0 | 0 | 0 | 0 |
| 12:45 | 174 | LILONGWE | BU 9206 | 2 | RIGID | 3435 | 4015 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:47 | 175 | LILONGWE | 175 | 3 | BUS | 7930 | 10915 | 3375 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:53 | 176 | MOCAMBIQUE | TO 8046 | 6 | ARTICUATED | 5560 | 8765 | 8765 | 13405 | 8390 | 9395 | 0 | 0 | 0 | 0 |
| 12:54 | 178 | MOCAMBIQUE | MB 4719 | 6 | ARTICUATED | 4300 | 9845 | 9780 | 10245 | 8385 | 8255 | 0 | 0 | 0 | 0 |
| 11:11 | 139 | KAPHIRI | BF 4884 | 2 | RIGID | 3655 | 3945 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 140 | NATHENJE | BP 6322 | 2 | RIGID | 5875 | 5275 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:02 | 629 | BLANTYRE | KA 7224 | 2 | RIGID | 1990 | 2135 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 630 | LILONGWE | LL 5468 | 2 | RIGID | 4200 | 4200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:07 | 632 | DEDZA | DZ 884 | 2 | RIGID | 2665 | 2340 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:09 | 633 | LILONGWE | BP 6079 | 2 | RIGID | 2390 | 2070 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:20 | 635 | LILONGWE | MH 4130 | 2 | RIGID | 6180 | 10325 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 634 | BLANTYRE | MZ 9205 | 2 | RIGID | 4085 | 8480 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:24 | 636 | LILONGWE | KU 8273 | 2 | RIGID | 7600 | 10540 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:24 | 637 | BLANTYRE | ZA 2849 | 4 | ARTICUATED | 3130 | 5765 | 2075 | 2060 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 650 | NU | BT 1568 | 2 | RIGID | 8090 | 8325 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 649 | LILONGWE | MHG 4204 | 2 | RIGID | 5500 | 5000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:28 | 638 | LILONGWE | BZ 8735 | 2 | RIGID | 3560 | 4275 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:29 | 639 | NTCHEU | CZ 517 | 2 | RIGID | 5235 | 8400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:33 | 641 | DEDZA | DZ 221 | 6 | ARTICUATED | 5920 | 7450 | 7210 | 9480 | 5535 | 8020 | 0 | 0 | 0 | 0 |
| 0:00 | 643 | BLANTYRE | CA 1106 | 2 | RIGID | 4645 | 4645 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 644 | NTCHEU | DZ 4801 | 2 | RIGID | 4645 | 4645 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 651 | DEDZA | LL 6408 | 2 | RIGID | 2375 | 2975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 647 | LILONGWE | NA 7509 | 3 | RIGID | 4545 | 9440 | 8775 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:00 | 568 | BLANTYE | CK 1791 | 2 | RIGID | 2250 | 1700 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:01 | 569 | LILONGWE | DZ 9509 | 2 | RIGID | 4115 | 6955 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:02 | 570 | KANENGO | CO 7747 | 2 | RIGID | 7165 | 9135 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:02 | 571 | DEDZA | LA 1723 | 2 | RIGID | 2100 | 2410 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:19 | 578 | DEDZA | BK 6865 | 2 | RIGID | 2735 | 5235 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 579 | LILONGWE | CZ 313 | 6 | ARTICUATED | 4565 | 8815 | 8600 | 10885 | 8635 | 8475 | 0 | 0 | 0 | 0 |
| 12:21 | 580 | LILONGWE | LA 2588 | 2 | RIGID | 3510 | 8780 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:22 | 581 | DEDZA | BLK 8937 | 2 | RIGID | 4140 | 3790 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 582 | NATHENJE | RU 1494 | 2 | RIGID | 3690 | 3775 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:24 | 583 | KAPHIRI | BT 516 | 2 | RIGID | 3400 | 3775 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:28 | 584 | BLANTYRE | BR 9542 | 6 | ARTICUATED | 6725 | 8245 | 7670 | 7440 | 8080 | 8260 | 0 | 0 | 0 | 0 |
| 12:28 | 585 | KAPHIRI | DZ 681 | 2 | RIGID | 2865 | 2830 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:29 | 586 | BLANTYRE | LA 1331 | 2 | RIGID | 6390 | 10090 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:30 | 587 | BLANTYRE | DA 3129 | 2 | RIGID | 4525 | 4875 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:10 | 662 | LILONGWE | LL540 | 2 | RIGID | 2440 | 2440 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:11 | 663 | LILONGWE | NS 7833 | 2 | RIGID | 2440 | 2440 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:19 | 507 | BLANTYRE | NN 3125 | 2 | BUS | 2255 | 2790 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:22 | 508 | LILONGWE | ZA 2805 | 2 | RIGID | 2200 | 2135 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:44 | 514 | LILONGWE | MN 4009 | 6 | ARTICUATED | 4420 | 9220 | 9420 | 11600 | 7905 | 0 | 0 | 0 | 0 | 0 |



| TIME: | VEHICLE ID: | ORIGIN: | REG : | No. AXLES: | VEHICLE TYPE: | Axle Load1 | Axle Load2 | Axle Load3 | Axle Load4 | Axle Load5 | Axle Load6 | Axle Load7 | Axle Load8 | Axle Load9 | Axle Load10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13:25 | 115 | LILONGWE | LL 3855 | 2 | RIGID | 3525 | 5995 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13:35 | 116 | LILONGWE | NS 3800 | 3 | RIGID | 4045 | 2205 | 3485 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13:39 | 117 | LILONGWE | NA 7269 | 6 | ARTICUATED | 5310 | 4260 | 4385 | 3515 | 2845 | 3855 | 0 | 0 | 0 | 0 |
| 13:04 | 111 | LILONGWE | NB 9612 | 2 | RIGID | 4205 | 7365 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 112 | DOWA | SA 6211 | 2 | RIGID | 5255 | 6570 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 108 | LILONGWE | SA 5301 | 6 | ARTICUATED | 5575 | 6970 | 9375 | 13720 | 9270 | 10460 | 0 | 0 | 0 | 0 |
| 0:00 | 0 | DOWA | DA 43 | 2 | RIGID | 3005 | 3015 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 106 | LILONGWE | NE 6877 | 2 | RIGID | 1505 | 1265 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 107 | LILONGWE | LL 8125 | 2 | RIGID | 3630 | 3925 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 102 | LILONGWE | BP 2886 | 2 | RIGID | 3790 | 3705 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 105 | DOWA | TO 3417 | 2 | RIGID | 2330 | 2120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 100 | LILONGWE | BR 5143 | 2 | RIGID | 1660 | 1380 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 101 | LILONGWE | LL 221 | 2 | RIGID | 3385 | 4215 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 103 | LILONGWE | NN 1231 | 2 | RIGID | 3470 | 5250 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 104 | LILONGWE | LA 3951 | 2 | RIGID | 1915 | 1220 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 593 | LILONGWE | MN 2706 | 6 | ARTICUATED | 4505 | 9390 | 9870 | 8250 | 7215 | 10170 | 0 | 0 | 0 | 0 |
| 12:46 | 594 | LILONGWE | NS 7821 | 2 | RIGID | 2925 | 3945 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:39 | 591 | BLANTYRE | BS 4302 | 2 | RIGID | 2945 | 2525 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:42 | 592 | LILONGWE | CP 5509 | 3 | RIGID | 7185 | 10325 | 3125 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:31 | 589 | BLANTYRE | MN 3212 | 3 | RIGID | 6435 | 7655 | 4995 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:38 | 590 | NATHENJE | ZA 2178 | 6 | ARTICUATED | 5105 | 7945 | 8225 | 12660 | 8740 | 9750 | 0 | 0 | 0 | 0 |
| 13:00 | 604 | BLANTYRE | CP 3287 | 6 | ARTICUATED | 5670 | 4980 | 8760 | 7345 | 6620 | 6310 | 0 | 0 | 0 | 0 |
| 13:11 | 605 | KANENGO | AAF 888 SF | 6 | ARTICUATED | 4715 | 7670 | 7280 | 11000 | 6490 | 6920 | 0 | 0 | 0 | 0 |
| 13:14 | 607 | BLANTYRE | NA 900 | 2 | RIGID | 3110 | 6495 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 608 | KAPHIRI | DZ 1600 | 2 | RIGID | 4100 | 9965 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 597 | DEDZA | KA 8632 | 2 | RIGID | 4005 | 4150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:55 | 598 | KAPHIRI | NS 7842 | 2 | RIGID | 4730 | 5565 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:56 | 599 | KANENGO | BP 6322 | 2 | RIGID | 5515 | 5560 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:58 | NU 43 | DEDZA | NU 43 | 2 | RIGID | 2865 | 3035 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13:00 | 601 | KANENGO | BP 6879 | 2 | RIGID | 5135 | 6355 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13:06 | 602 | 6 MILES | LL 3667 | 2 | RIGID | 2530 | 3975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13:15 | 609 | KARONGA | TO 8390 | 6 | ARTICUATED | 6635 | 9410 | 9220 | 9185 | 7375 | 10295 | 0 | 0 | 0 | 0 |
| 13:18 | 610 | KARONGA | TO 6884 | 6 | ARTICUATED | 4885 | 9095 | 9050 | 9995 | 8875 | 9275 | 0 | 0 | 0 | 0 |
| 14:49 | 622 | LILONGWE | BR 9425 | 2 | RIGID | 3455 | 4550 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:51 | 623 | LILONGWE | BU 9291 | 2 | RIGID | 6695 | 7245 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:04 | 631 | LILONGWE | CZ 4420 | 6 | ARTICUATED | 4985 | 5035 | 8520 | 7255 | 5250 | 5760 | 0 | 0 | 0 | 0 |
| 11:44 | 626 | LILONGWE | NU 43 | 2 | RIGID | 4800 | 5185 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:01 | 627 | LILONGWE | NN 722 | 2 | RIGID | 8260 | 7815 | 12025 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:01 | 628 | BLANTYRE | ZA 4593 | 2 | RIGID | 3105 | 3890 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:46 | 516 | LILONGWE | LL 9108 | 3 | RIGID | 3785 | 3670 | 3280 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:02 | 517 | LILONGWE | KK 7772 | 2 | RIGID | 2005 | 2995 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:57 | 524 | LILONGWE | BLK 2983 | 6 | ARTICUATED | 6566 | 5945 | 9940 | 7285 | 7155 | 7150 | 0 | 0 | 0 | 0 |
| 11:00 | 523 | LILONGWE | MH 5760 | 2 | RIGID | 4790 | 5645 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:49 | 562 | LILONGWE | MH 1422 | 2 | RIGID | 2940 | 7010 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 563 | LILONGWE | SA 2397 | 2 | RIGID | 7130 | 5660 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:54 | 512 | LILONGWE | MJ 7155 | 3 | RIGID | 4530 | 2765 | 2720 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:40 | 513 | BLANTYRE | NA 4743 | 6 | ARTICUATED | 3970 | 4450 | 4155 | 645 | 4025 | 6505 | 0 | 0 | 0 | 0 |
| 11:15 | 141 | JHB | BQ 1991 | 6 | ARTICUATED | 5205 | 8680 | 8825 | 7490 | 7970 | 9720 | 0 | 0 | 0 | 0 |
| 11:25 | 144 | LILONGWE | BN 3260 | 2 | RIGID | 4230 | 7370 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| TIME: | VEHICLE ID: | ORIGIN: | REG : | No. AXLES: | VEHICLE TYPE: | Axle Load1 | Axle Load2 | Axle Load3 | Axle Load4 | Axle Load5 | Axle Load6 | Axle Load7 | Axle Load8 | Axle Load9 | Axle Load10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0:00 | 683 | BLANTYRE | MZ 1080 | 2 | RIGID | 7480 | 9660 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 685 | BLANTYRE | BU 2139 | 2 | RIGID | 5840 | 8965 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 687 | LILONGWE | BQ 4799 | 3 | RIGID | 7235 | 8975 | 8945 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 688 | LILONGWE | BS 5057 | 3 | BUS | 5945 | 6695 | 4220 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 690 | BLANTYRE | BR 9541 | 3 | RIGID | 6810 | 7570 | 7160 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 691 | BLANTYRE | NS 7693 | 3 | RIGID | 9765 | 7625 | 8435 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 692 | BLANTYRE | BLK 2940 | 3 | RIGID | 5270 | 8480 | 8635 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 693 | BLANTYRE | KK 5025 | 3 | RIGID | 9045 | 7640 | 9275 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 694 | BLANTYRE | BR 9416 | 6 | ARTICUATED | 6990 | 8675 | 8055 | 7150 | 7010 | 7430 | 0 | 0 | 0 | 0 |
| 0:00 | 695 | BLANTYRE | BQ 3319 | 2 | RIGID | 3900 | 8935 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 695 | LILONGWE | BQ 6320 | 2 | RIGID | 6830 | 6200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 697 | BLANTYRE | KA 5205 | 6 | ARTICUATED | 5390 | 8490 | 8695 | 11450 | 7740 | 8935 | 0 | 0 | 0 | 0 |
| 0:00 | 700 | LILONGWE | 5SC 129 | 3 | RIGID | 5910 | 4375 | 4145 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 702 | BLANTYRE | CA 5225 | 3 | RIGID | 5010 | 10310 | 8970 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:25 | 703 | MALAWI | MLZ 9672 | 6 | ARTICUATED | 4925 | 6880 | 7160 | 11165 | 6355 | 6335 | 0 | 0 | 0 | 0 |
| 9:28 | 705 | MOZAMBIQUE | LA 4477 | 6 | ARTICUATED | 4545 | 8620 | 8400 | 9555 | 8085 | 8505 | 0 | 0 | 0 | 0 |
| 9:38 | 707 | BLANTYRE | CP 5509 | 3 | BUS | 10815 | 10815 | 2910 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:47 | 709 | KANENGO | BP 6324 | 2 | RIGID | 6460 | 5745 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:53 | 710 | LILONGWE | SA 8203 | 3 | RIGID | 11355 | 7265 | 7245 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9:56 | 711 | LILONGWE | NW 6369 | 2 | BUS | 6825 | 11000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:03 | 712 | BLANTYRE | CP 2053 | 3 | RIGID | 7005 | 3325 | 11875 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:09 | 715 | BLANTYRE | MZ 1084 | 3 | RIGID | 5200 | 9250 | 8970 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 718 | BUNDA | BS 7287 | 3 | RIGID | 7875 | 12155 | 11785 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:41 | 719 | KANENGO | LA 6724 | 3 | RIGID | 5240 | 7005 | 7080 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:51 | 720 | LILONGWE | MN 6509 | 2 | BUS | 4930 | 10410 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:55 | 721 | KAPHIRI | BN 1747 | 2 | RIGID | 6075 | 9485 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:49 | 518 | LILONGWE | KA7684 | 3 | RIGID | 3835 | 3525 | 3080 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:48 | 595 | LILONGWE | BU755 | 2 | RIGID | 3975 | 4015 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13:06 | 603 | LILONGWE | DZ1042 | 2 | RIGID | 2445 | 1785 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:33 | 122 | MULANJE | CZ4842 | 2 | RIGID | 1840 | 1675 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:43 | 125 | KANENGO | MZ2188 | 2 | RIGID | 3495 | 2725 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:39 | 124 | LILONGWE | KA3470 | 2 | RIGID | 6760 | 7805 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:43 | 125 | KANENGO | MZ2188 | 2 | RIGID | 3495 | 2725 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:01 | 128 | LILONGWE | 50SC122 | 2 | RIGID | 3615 | 3755 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:09 | 131 | BLANTYRE | NA7526 | 6 | ARTICUATED | 4830 | 8630 | 8890 | 13840 | 9200 | 12500 | 0 | 0 | 0 | 0 |
| 15:29 | 135 | KANENGO | SAB168 | 2 | RIGID | 7170 | 10196 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:19 | 134 | RTSS | MG967AG | 2 | RIGID | 1185 | 1000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:50 | 138 | LILONGWE | BR5138 | 2 | RIGID | 3770 | 5615 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:23 | 509 | LILONGWE | BS7288 | 3 | RIGID | 5575 | 4425 | 4075 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:57 | 522 | BEIRA MOZAM | BLK2983 | 6 | ARTICUATED | 6565 | 5945 | 9940 | 7285 | 7155 | 7750 | 0 | 0 | 0 | 0 |
| 12:50 | 596 | BLANTYRE | NN9837 | 2 | RIGID | 4870 | 3220 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:59 | - | KANENGO | KA3470 | 2 | RIGID | 660 | 7805 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:37 | - | BLANTYRE | MJ2480 | 2 | RIGID | 2795 | 3075 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:47 | 126 | BLANTYRE | BU4721 | 2 | RIGID | 3795 | 5530 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:59 | 127 | LILONGWE | RU4612 | 2 | RIGID | 2730 | 2245 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:47 | 126 | BLANTYRE | BU4721 | 2 | RIGID | 3795 | 5530 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:02 | 129 | LILONGWE | BS4828 | 2 | RIGID | 1615 | 1245 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:09 | 132 | LILONGWE | NU6383 | 2 | RIGID | 2980 | 2300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:32 | 136 | KANENGO | NA4172 | 6 | ARTICUATED | 5625 | 3210 | 6220 | 2355 | 2345 | 2705 | 0 | 0 | 0 | 0 |



| TIME: | VEHICLE ID: | ORIGIN: | REG : | No. AXLES: | VEHICLE TYPE: | Axle Load1 | Axle Load2 | Axle Load3 | Axle Load4 | Axle Load5 | Axle Load6 | Axle Load7 | Axle Load8 | Axle Load9 | Axle Load10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10:44 | 515 | KANENGO | BP 6079 | 2 | RIGID | 2885 | 3360 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 661 | BLANTYRE | BU 8042 | 2 | RIGID | 3140 | 4720 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 696 | LILONGWE | BG 6320 | 2 | RIGID | 6830 | 6200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:26 | 544 | LILONGWE | NB 32 | 2 | RIGID | 3105 | 2800 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:28 | 545 | LILONGWE | CZ 2359 | 6 | ARTICUATED | 5070 | 7410 | 7275 | 9170 | 6130 | 6660 | 0 | 0 | 0 | 0 |
| 12:07 | 572 | BLANTYRE | BQ 2686 | 2 | RIGID | 1975 | 2410 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:10 | 573 | LILONGWE | BR 9508 | 2 | RIGID | 4240 | 3260 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 660 | LILONGWE | MG 906 AF | 2 | RIGID | 3065 | 3045 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 671 | BLANTYRE | MC 562 | 2 | BUS | 3075 | 2620 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 672 | BLANTYRE | KA 2446 | 2 | RIGID | 6580 | 5295 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:10 | 574 | DEDZA | MC 587 | 2 | RIGID | 3505 | 3685 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:12 | 575 | BLANTYRE | BR 9415 | 6 | ARTICUATED | 6700 | 8535 | 7975 | 7500 | 7305 | 7900 | 0 | 0 | 0 | 0 |
| 12:14 | 576 | LILONGWE | BU 1334 | 2 | RIGID | 4990 | 4210 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:17 | 577 | NATHENJE | DZ 4654 | 2 | RIGID | 4615 | 3650 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:39 | 615 | LILONGWE | BR 9500 | 2 | RIGID | 2950 | 3280 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:39 | 616 | LILONGWE | DZ 9535 | 2 | RIGID | 4090 | 3035 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:40 | 617 | LILONGWE | BS 1630 | 2 | RIGID | 2705 | 6060 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:43 | 618 | LILONGWE | BU 579 | 2 | RIGID | 2295 | 1850 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13:22 | 612 | LILONGWE | NS 2493 | 2 | RIGID | 6385 | 6400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13:22 | 613 | BLANTYRE | LL8924 | 2 | RIGID | 6675 | 9895 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 619 | LILONGWE | BS 4184 | 6 | ARTICUATED | 3945 | 3928 | 2665 | 2965 | 6420 | 2640 | 0 | 0 | 0 | 0 |
| 14:46 | 621 | BLANTYRE | KK 810 | 2 | RIGID | 5375 | 6350 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:52 | 624 | LILONGWE | BU 755 | 2 | RIGID | 3010 | 3070 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:53 | 625 | LILONGWE | LA 7040 | 2 | RIGID | 3890 | 4185 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 668 | LILONGWE | DA 9529 | 2 | RIGID | 3310 | 3445 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 137 | KAPHIRI | MH 5985 | 2 | RIGID | 2110 | 4795 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:34 | 642 | LILONGWE | BU 9434 | 2 | RIGID | 8135 | 13435 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13:43 | 614 | BLANTYRE | PE 9862 | 2 | RIGID | 4800 | 7050 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 659 | BLANTYRE | BU 2175 | 3 | ARTICUATED | 6970 | 10190 | 10595 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 646 | LILONGWE | BP 2452 | 2 | RIGID | 4496 | 4656 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 640 | DEDZA | BR 7023 | 3 | ARTICUATED | 7390 | 9815 | 9925 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 640 | DEDZA | BR 7023 | 3 | ARTICUATED | 9390 | 9815 | 9925 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:57 | 156 | BLANTYRE | BP 2590 | 3 | RIGID | 5165 | 9485 | 9755 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:17 | 158 | LILONGWE | TO 7850 | 2 | RIGID | 3865 | 4200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:19 | 159 | LILONGWE | MDF 2377 | 2 | RIGID | 4425 | 7100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:20 | 160 | BLANTYRE | MN 4976 | 2 | BUS | 6830 | 8360 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:28 | 165 | LILONGWE | BP 6324 | 2 | RIGID | 3375 | 7575 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:33 | 167 | BLANTYRE | NA 4742 | 5 | ARTICUATED | 3655 | 3515 | 5245 | 2540 | 1645 | 0 | 0 | 0 | 0 | 0 |
| 12:34 | 168 | NATHENJE | BR 4799 | 3 | RIGID | 6860 | 5765 | 5535 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:37 | 169 | NATHENJE | BQ 8588 | 2 | RIGID | 3405 | 5985 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:40 | 172 | BLANTYRE | KK 3978 | 2 | RIGID | 4100 | 10020 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:02 | 675 | TANZANIA | ZA 4355 | 3 | ARTICUATED | 5890 | 6200 | 10090 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:02 | 677 | DEDZA | MC 5092 | 6 | ARTICUATED | 4710 | 8820 | 8215 | 10835 | 7485 | 7955 | 0 | 0 | 0 | 0 |
| 8:20 | 679 | BEIRA | MJ 7055 | 3 | ARTICUATED | 5435 | 8720 | 8485 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:11 | 678 | BLANTYRE | SA 5524 | 2 | RIGID | 8305 | 11875 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:24 | 681 | BLANTYRE | SA 9478 | 3 | RIGID | 4495 | 8330 | 8505 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 686 | LILONGWE | ZA 4242 | 3 | ARTICUATED | 6680 | 8015 | 7755 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 682 | BLANTYRE | SA 7457 | 3 | ARTICUATED | 5705 | 10585 | 10870 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0:00 | 684 | BLANTYRE | CK 2999 | 2 | RIGID | 6595 | 8580 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| TIME: | VEHICLE ID: | ORIGIN: | REG : | No. AXLES: | VEHICLE TYPE: | Axle Load1 | Axle Load2 | Axle Load3 | Axle Load4 | Axle Load5 | Axle Load6 | Axle Load7 | Axle Load8 | Axle Load9 | Axle Load10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0:00 | 537 | BLANTYRE | NA4231 | 2 | RIGID | 3345 | 4060 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:18 | 133 | KANENGO | LL7056 | 2 | RIGID | 2295 | 2090 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:26 | 674 | BLANTYRE | MC428 | 2 | RIGID | 1155 | 940 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

GEOCONSULT

# ADDITIONAL WORK
# BOREHOLE DRILLING
# BH01 – BH04

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**KATAHIRA & ENGINEERS INTERNATIONAL**

**THE GEOTECHNICAL INVESTIGATION**
**UNDER**
**THE PREPARATORY SURVEY**
**ON**
**THE PROJECT FOR IMPROVEMENT OF ARTERY ROAD OF LILONGWE**



GEOCONSULT

## PHOTOGRAPHIC REPORT

### BH 01

BH 03

BH02

GEOCONSULT

## BH 04

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| GEOCONSULT | LAB REF: | GC096/5D17/15:00 | SAMPLE No | A2.B/BH01/5D17 | | | PERCUSSIVE | ROTARY |
| | SAMPLED BY: | | DATE | 05-12-2017 | TIME | 13:00 | DIAMETER | 150MM | 76MM (NX) |
| | LOCATION: 36L | EASTING | NORTHING | | ELEVATION | DEPTH | CASING SIZE | 150MM | 92MM |
| | LILONGWE BRIDGE | 583356 | 8453272 | | 1032.3 | 5000 | MODEL | DANDO TERRIER | DANDO TERRIER |
| | TYPE OF MATERIAL: ROCK WAS FOUND TO BE GRANITE WITH A TRANSITION TO QUARTZ AT 8.4M, WHERE IT REMAINED CONSTANT UNTIL 11.5M | | | | | | ADDITIVE | - | DANDO POL |
| | TESTED BY: | E. NKUKU | DATE: | 04-05-2018 | TIME: | 13:00 | | DRILL TEAM | |
| +265 0888 846 543 | CHECKED BY | G. KACHIWALA | DATE: | 04-05-2018 | TIME: | 13:00 | DRILLER | S. KAMAU | S. KAMAU |
| sabelli@geoconsult.cc | APPROVED BY: | M. SABELLI | DATE: | 04-05-2018 | TIME: | 13:00 | RIGGER | D. ALFRED | D. ALFRED |
| PROJECT: IMPROVEMENT OF MAJOR ROADS IN LILONGWE | | CLIENT: | KATAHIRA AND ENGINEERS INTERNATIONAL | | | | RIGGER | F. CHIGOMBE | F. CHIGOMBE |

**SITE DRILL LOG STANDARD: BS 5930**

| BORING METHOD | % CORE RECOVERY | R.Q.D. % | WATER TABLE | U 100 | SPT 'N'VALUE | REDUCED ELEVATION | DEPTH (m) | LEGEND | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 0.0 | | MOIST BLACK TOP SOIL |
| PERCUSSIVE | | | | | | 1032.05 | 0.25 | | MOIST DARK REDDISH SILTY SANDY CLAY |
| | | | | | | | 0.50 | | |
| | | | | | | | 0.75 | | |
| | | | | | 4 | 1031.30 | 1.00 | | MOIST DARK BLACKISH SANDY SILTY CLAY |
| | | | | | | | 1.25 | | |
| | | | | | | | 1.50 | | |
| | | | | | | | 1.75 | | |
| | | | | | | | 2.00 | | |
| | | | | | | | 2.25 | | |
| | | | | | 14 | 1029.80 | 2.50 | | MOIST BLACK SANDY SILTY CLAY |
| | | | | | | | 2.75 | | |
| | | | | | 15 | 1029.30 | 3.00 | | MOIST GREY SILTY CLAY WITH SAND |
| | | | | | | | 3.25 | | |
| | | | 3.5m - 5D17 | | 16 | 1028.80 | 3.50 | | MOIST GREY MOTTELD SANDY SILTY COTTON CLAY |
| | | | | | | | 3.75 | | |
| | | | | | | | 4.00 | | |
| | | | | | | | 4.25 | | |
| | | | | | | | 4.50 | | |
| | | | | | | | 4.75 | | |
| | | | | | 15 | 1027.30 | 5.00 | - | WASH AND BORE DUE TO PERCUSSIVE REFUSAL |
| | | | | | | | 5.25 | | |
| | | | | | | | 5.50 | | |
| | | | | | | | 5.75 | | |
| | | | | | | | 6.00 | | |
| | | | | | | | 6.25 | | |
| | | | | | | | 6.50 | | |
| ROTARY | 82% | 83% | | | | 1025.55 | 6.75 | | ROCK B/CH |
| | | | | | | | 7.00 | | |
| | | | | | | | 7.25 | | |
| | | | | | 55++ PEN: 4CM | 1024.80 | 7.50 | | |
| | | | | | | | 7.75 | | |
| | | | | | | | 8.00 | | |
| | | | | | | | 8.25 | | |
| | | | | | | 1023.80 | 8.50 | | |
| | | | | | | | 8.75 | | |
| | | | | | | | 9.00 | | |
| | | | | | | | 9.25 | | |
| | | | | | | | 9.50 | | |
| | | | | | | | 9.75 | | |
| | | | | | | | 10.00 | | |
| | | | | | | | 10.25 | | |
| | | | | | | | 10.50 | | |
| | | | | | | | 10.75 | | |
| | | | | | | | 11.00 | | |
| | | | | | | | 11.25 | | |
| | | | | | | 1020.80 | 11.50 | | |
| | | | | | | | 11.75 | | |
| | | | | | | | 12.00 | | |

**REMARKS: 5M OF ROCK CORING WAS CONCLUDED TO ESTABLISH SUFFICIENT BEARING STRATA**
**LAST 0.5M WAS UNRECOVERABLE**

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|---|---|---|---|---|---|---|---|
| LAB REF: | GC095/4D17/17:11 | | SAMPLE No | A2.B/BH02/4D17 | | PERCUSSIVE | ROTARY |
| SAMPLED BY: | | | DATE | 04-12-2017 | TIME 17:11 | DIAMETER 150MM | 76MM (NX) |
| LOCATION: 36L | EASTING | | NORTHING | ELEVATION | DEPTH | CASING SIZE 150MM | 92MM |
| LILONGWE BRIDGE | 583379 | | 8453272 | 1029.8 | 31.00 | MODEL DANDO TERRIER | DANDO TERRIER |
| TYPE OF MATERIAL: ROCK WAS FOUND TO BE UNWEATHERED GRANITE | | | | | | ADDITIVE - | DANDO POL |
| TESTED BY: | E. NKUKU | | DATE: | 29-04-2018 | TIME: 11:50 | DRILL TEAM | |
| CHECKED BY | G. KACHIWALA | | DATE: | 29-04-2018 | TIME: 11:50 | DRILLER S. KAMAU | S. KAMAU |
| APPROVED BY: | M. SABELLI | | DATE: | 29-04-2018 | TIME: 11:50 | RIGGER D. ALFRED | D. ALFRED |
| PROJECT: IMPROVEMENT OF MAJOR ROADS IN LILONGWE | | CLIENT: | KATAHIRA AND ENGINEERS INTERNATIONAL | | | RIGGER F. CHIGOMBE | F. CHIGOMBE |

**SITE DRILL LOG STANDARD: BS 5930**

| BORING METHOD | % CORE RECOVERY | R.Q.D. % | WATER TABLE | U 100 | SPT 'N'VALUE | REDUCED ELEVATION | DEPTH (m) | LEGEND | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|
| PERCUSSIVE | | | | | | 1029.55 | 0.0 | | MOIST DARK REDDISH SILTY SANDY CLAY |
| | | | | | | | 0.25 | | |
| | | | | | | | 0.50 | | MOIST SOFT GREY DECOMPOSED ROCK |
| | | | | | | | 0.75 | | |
| | | | | | 8 | 1029.05 | 1.00 | | MOIST BLACK SANDY SILTY CLAY |
| | | | | | | | 1.25 | | |
| | | | 1.6m | | | 1028.55 | 1.50 | | MOIST DARK REDDISH SANDY SILTY CLAY |
| | | | 5D17-17:30 | | | 1028.30 | 1.75 | | MOIST HARD GREY DECOMPOSED ROCK |
| ROTARY | | | 1.9m | | | 1028.05 | 2.00 | | METAMORPHIC ROCK (GRANITE) $B/C_H$ |
| | | | 4D17-15:00 | | 55++ | | 2.25 | | |
| | | | | | | | 2.50 | | |
| | | | | | | | 2.75 | | |
| | | | | | | | 3.00 | | |
| | | | | | | | 3.25 | | |
| | | | | | | | 3.50 | | |
| | | | | | | | 3.75 | | |
| | | | | | | | 4.00 | | |
| | | | | | | | 4.25 | | |
| | | | | | | | 4.50 | | |
| | | | | | | | 4.75 | | |
| | | | | | | | 5.00 | | |
| | | | | | | | 5.25 | | |
| | | | | | | | 5.50 | | |
| | | | | | | | 5.75 | | |
| | | | | | | | 6.00 | | |
| | | | | | | | 6.25 | | |
| | | | | | | | 6.50 | | |
| | | | | | | 1023.30 | 6.75 | | |
| | | | | | | | 7.00 | | |
| | | | | | | | 7.25 | | |
| | | | | | | | 7.50 | | |
| | | | | | | | 7.75 | | |
| | | | | | | | 8.00 | | |
| | | | | | | | 8.25 | | |
| | | | | | | | 8.50 | | |
| | | | | | | | 8.75 | | |
| | | | | | | | 9.00 | | |
| | | | | | | | 9.25 | | |
| | | | | | | | 9.50 | | |
| | | | | | | | 9.75 | | |
| | | | | | | | 10.00 | | |

| | % CORE RECOVERY | R.Q.D. % |
|---|---|---|
| PERCUSSIVE | 62% | 64.2% |
| ROTARY | | |

REMARKS: 5M OF ROCK CORING WAS CONCLUDED TO ESTABLISH SUFFICIENT BEARING STRATA - LAST .25M WAS NOT RECOVERED

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| LAB REF: | GC095/4D17/17:11 | | SAMPLE No | A2.B/BH03/4D17 | | PERCUSSIVE | ROTARY |
| SAMPLED BY: | | | DATE | 04-12-2017 | TIME 13:00 | DIAMETER 150MM | 76MM (NX) |
| LOCATION: 36L | EASTING | | NORTHING | ELEVATION | DEPTH | CASING SIZE 150MM | 92MM |
| LILONGWE BRIDGE | 583427 | | 8453288 | 1030.1 | 33.00 | MODEL DANDO TERRIER | DANDO TERRIER |
| TYPE OF MATERIAL: ROCK WAS FOUND TO BE UNWEATHERED GRANITE WITH A HIGH RQD | | | | | | ADDITIVE - | DANDO POL |
| TESTED BY: | E. NKUKU | | DATE: | 01-05-2018 | TIME: 13:40 | DRILL TEAM | |
| CHECKED BY | G. KACHIWALA | | DATE: | 01-05-2018 | TIME: 13:40 | DRILLER S. KAMAU | S. KAMAU |
| APPROVED BY: | M. SABELLI | | DATE: | 01-05-2018 | TIME: 13:40 | RIGGER D. ALFRED | D. ALFRED |
| PROJECT: IMPROVEMENT OF MAJOR ROADS IN LILONGWE | | CLIENT: | KATAHIRA AND ENGINEERS INTERNATIONAL | | | RIGGER F. CHIGOMBE | F. CHIGOMBE |

**SITE DRILL LOG STANDARD: BS 5930**

| BORING METHOD | % CORE RECOVERY | R.Q.D. % | WATER TABLE | U 100 | SPT 'N'VALUE | REDUCED ELEVATION | DEPTH (m) | LEGEND | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|
| PERCUSSIVE | | | | | | | 0.0 | | MOIST DARK BROWN SANDY SILTY CLAY |
| | | | | | | | 0.25 | | |
| | | | | | | | 0.50 | | |
| | | | | | | | 0.75 | | |
| | | | | | 12 | 1029.10 | 1.00 | | MOIST GREY SOFT TO HARD DECOMPOSED ROCK |
| | | | | | | | 1.25 | | |
| | | | 1.75m | | | | 1.50 | | |
| | | | 4D17-13:30 | | | 1028.10 | 1.75 | | |
| | | | | | | | 2.00 | - | WASH AND BORE - NO RECOVERY |
| | | | | | | | 2.25 | | |
| | | | | | 55++ | 1027.35 | 2.50 | | |
| ROTARY | | | | | | | 2.75 | | METAMORPHIC ROCK (GRANITE) B |
| | | | | | | | 3.00 | | |
| | | | | | | 1026.60 | 3.25 | | |
| | | | | | | | 3.50 | | |
| | | | | | | | 3.75 | | |
| | | | | | | | 4.00 | | |
| | | | | | | | 4.25 | | |
| | | | | | | | 4.50 | | |
| | | | | | | | 4.75 | | |
| | | | | | | | 5.00 | | |
| | | | | | | | 5.25 | | |
| | | | | | | | 5.50 | | |
| | | | | | | | 5.75 | | |
| | | | | | | | 6.00 | | |
| | | | | | | | 6.25 | | |
| | | | | | | | 6.50 | | |
| | | | | | | 1023.35 | 6.75 | | |
| | | | | | | | 7.00 | | |
| | | | | | | | 7.25 | | |
| | | | | | | | 7.50 | | |
| | | | | | | | 7.75 | | |
| | | | | | | | 8.00 | | |
| | | | | | | | 8.25 | | |
| | | | | | | | 8.50 | | |
| | | | | | | | 8.75 | | |
| | | | | | | | 9.00 | | |
| | | | | | | | 9.25 | | |
| | | | | | | | 9.50 | | |
| | | | | | | | 9.75 | | |
| | | | | | | | 10.00 | | |

| | % CORE RECOVERY | R.Q.D. % |
|---|---|---|
| PERCUSSIVE | | |
| ROTARY | 93.00% | 87% |

REMARKS: 5M OF ROCK CORING WAS CONCLUDED TO ESTABLISH SUFFICIENT BEARING STRATA - LAST .25M WAS NOT RECOVERED

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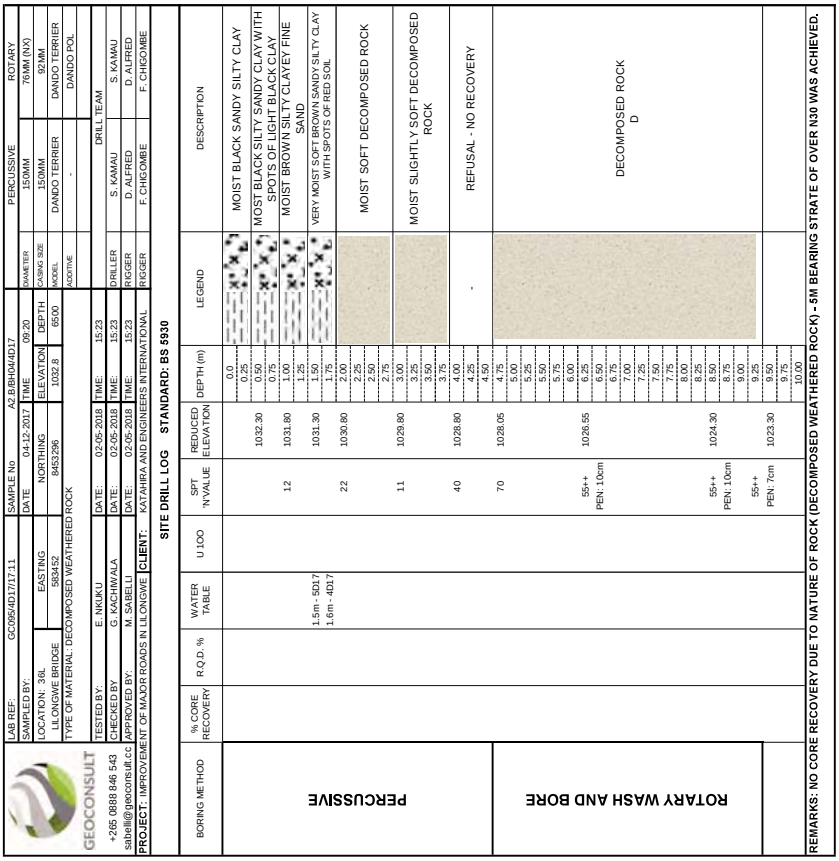
MALAWI

| | | | | |
|---|---|---|---|---|
| LAB REF: GC100 / 20D17 / 08:00 | | | SAMPLE No. MCHINJI RA - CHIDZANJA / TRIAL PITS / 15N17 | |
| SAMPLED BY: GEOCONSULT LAB. TEAM | | DATE: 15 / 11 / 2017 | TIME: 08:21 | |
| LOCATION: | EASTING | NORTHING | ELEVATION | DEPTH (m) |
| KATOTO - SONDA | | | | 1.000 |
| TYPE OF MATERIAL: | | | | |
| TESTED BY: GEOCONSULT LAB. TEAM | | DATE: 15 / 11 / 2017 | TIME: 08:00 | |
| CHECKED BY: GIFT L. KACHIWALA | | DATE: 19 / 12 / 2017 | TIME: 09:00 | |
| APPROVED BY: M. SABELLI | | DATE: 19 / 12 / 2017 | TIME: 17:00 | |

**PROJECT:** IMPROVEMENT OF MAJOR RODAS IN THE CITY OF LILONGWE **CLIENT:** KATAHIRA AND ENGINEERS

## SUMMARY OF TEST REULTS

| LAB. REF. NUMBER | DEPTH (m) | TP No. | GRADATION (PASS) 2.360 | 0.425 | 0.075 | LL % | PI | CLASSIFICATION | MDD kg/m³ | OMC % | NMC | FI | CBR @95 | @98 | SWELL % | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | |
| GC081 / 15N17 / 18:00 | 1.000 | TP 1 | | | | | | | 1990 | 11.2 | | | 11 | 17 | 0.1 | MDD, CBR |
| GC099 / 08D17 / 17:00 | 1.000 | TP 2 | | | | | | | 1900 | 13.9 | | | 7 | 12 | 0.3 | MDD, CBR |
| GC099 / 08D17 / 17:00 | 0.650 - 0.850 | TP 3 | | | | | | | 1988 | 9.4 | | | 29 | 41 | 0.1 | MDD, CBR |
| GC081 / 15N17 / 18:00 | 1.000 | TP 4 | | | | | | | 2135 | 8.4 | | | 26 | 43 | 0.3 | MDD, CBR |
| GC081 / 15N17 / 18:00 | 1.000 | TP 5 | | | | | | | 2010 | 11.4 | | | 8 | 19 | 0.4 | MDD, CBR |
| GC082 / 16N17 / 18:30 | 1.000 | TP 6 | | | | | | | 1923 | 12.4 | | | 10 | 17 | 0.5 | MDD, CBR |
| GC081 / 15N17 / 18:00 | 1.000 | TP 7 | | | | | | | 2208 | 8.0 | | | 16 | 21 | 0.5 | MDD, CBR |
| GC081 / 15N17 / 18:00 | 1.000 | TP 8 | | | | | | | 2040 | 10.0 | | | 26 | 53 | 0.3 | MDD, CBR |
| GC082 / 16N17 / 18:30 | 1.000 | TP 9 | | | | | | | 2135 | 8.5 | | | 25 | 47 | 0.2 | MDD, CBR |
| GC082 / 16N17 / 18:30 | 1.000 | TP 10 | | | | | | | 2140 | 8.0 | | | 23 | 36 | 0.3 | MDD, CBR |
| GC082 / 16N17 / 18:30 | 1.000 | TP 11 | | | | | | | 1868 | 14.7 | | | 15 | 30 | 0.5 | MDD, CBR |
| GC082 / 16N17 / 18:30 | 1.000 | TP 12 | | | | | | | 2080 | 11.6 | | | 39 | 51 | 0.1 | MDD, CBR |
| GC082 / 16N17 / 18:30 | 1.000 | TP 13 | | | | | | | 1980 | 8.7 | | | 20 | 46 | 0.2 | MDD, CBR |
| GC082 / 16N17 / 18:30 | 1.000 | TP 14 | | | | | | | 2009 | 11.3 | | | 20 | 23 | 0.2 | MDD, CBR |
| GC082 / 16N17 / 18:30 | 1.000 | TP 15 | | | | | | | 1889 | 12.7 | | | 9 | 17 | 0.5 | MDD, CBR |
| GC083 / 17N17 / 17:30 | 1.000 | TP 16 | | | | | | | 1970 | 12.2 | | | 21 | 29 | 0.3 | MDD, CBR |
| GC083 / 17N17 / 17:30 | 1.000 | TP 17 | | | | | | | 2009 | 11.3 | | | 7 | 17 | 0.6 | MDD, CBR |
| **NOT DONE** | 1.000 | TP 18 | | | | | | | | | | | | | | AREA COVERED WITH TAR |
| GC083 / 17N17 / 17:30 | 1.000 | TP 19 | | | | | | | 2030 | 9.6 | | | 43 | 77 | 0.1 | MDD, CBR |
| GC083 / 17N17 / 17:30 | 1.000 | TP 20 | | | | | | | 1942 | 9.8 | | | 15 | 20 | 0.4 | MDD, CBR |
| **REMARKS: MCHINJI ROUND ABOUT TO CHIDZANJA JUNCTION** | | | | | | | | | | | | | | | | **1 (A)** |



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MALAWI

| | | | | | |
|---|---|---|---|---|---|
| LAB REF: GC100 / 20D17 / 08:00 | | | SAMPLE No. MCHINJI RA - CHIDZANJA / TRIAL PITS / 15N17 | | |
| SAMPLED BY: GEOCONSULT LAB. TEAM | | DATE: 15 / 11 / 2017 | | TIME: 08:21 | |
| LOCATION: | EASTING | | NORTHING | ELEVATION | DEPTH (m) |
| KATOTO - SONDA | | | | | 1.000 |
| TYPE OF MATERIAL: | | | | | |
| TESTED BY: GEOCONSULT LAB. TEAM | | DATE: 15 / 11 / 2017 | | TIME: 08:00 | |
| CHECKED BY: GIFT L. KACHIWALA | | DATE: 19 / 12 / 2017 | | TIME: 09:00 | |
| APPROVED BY: M. SABELLI | | DATE: 19 / 12 / 2017 | | TIME: 17:00 | |

**PROJECT:** IMPROVEMENT OF MAJOR RODAS IN THE CITY OF LILONGWE **CLIENT:** KATAHIRA AND ENGINEERS

**SUMMARY OF TEST REULTS**

| LAB. REF. NUMBER | DEPTH (m) | TP No. | GRADATION (PASS) 2.360 | 0.425 | 0.075 | LL % | PI | CLASSIFICATION | MDD kg/m³ | OMC % | NMC | FI | CBR @95 | @98 | SWELL % | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | |
| GC099 / 08D17 / 17:00 | 1.000 | TP 41 | | | | | | | 2113 | 8.5 | | | 28 | 34 | 0.3 | MDD, CBR |
| GC086 / 21N17 / 17:30 | 1.000 | TP 42 | | | | | | | 2060 | 12.6 | | | 24 | 26 | 0.6 | MDD, CBR |
| GC086 / 21N17 / 17:30 | 1.000 | TP 43 | | | | | | | 1970 | 12.2 | | | 21 | 29 | 0.6 | MDD, CBR |
| GC086 / 21N17 / 17:30 | 1.000 | TP 44 | | | | | | | 1900 | 15.2 | | | 18 | 23 | 0.2 | MDD, CBR |
| GC086 / 21N17 / 17:30 | 1.000 | TP 45 | | | | | | | 2163 | 8.2 | | | 21 | 50 | 0.1 | MDD, CBR |
| GC086 / 21N17 / 17:30 | 1.000 | TP 46 | | | | | | | 1980 | 12.2 | | | 27 | 33 | 0.6 | MDD, CBR |
| GC086 / 21N17 / 17:30 | 1.000 | TP 47 | | | | | | | 2024 | 11.3 | | | 17 | 29 | 0.3 | MDD, CBR |
| GC086 / 21N17 / 17:30 | 1.000 | TP 48 | | | | | | | 2023 | 9.8 | | | 17 | 25 | 0.4 | MDD, CBR |
| GC086 / 21N17 / 17:30 | 1.000 | TP 49 | | | | | | | 1920 | 14.7 | | | 14 | 22 | 0.5 | MDD, CBR |
| GC086 / 21N17 / 17:30 | 1.000 | TP 50 | | | | | | | 1980 | 10.7 | | | 28 | 32 | 0.2 | MDD, CBR |
| GC086 / 21N17 / 17:30 | 1.000 | TP 51 | | | | | | | 1940 | 10.3 | | | 25 | 29 | 0.5 | MDD, CBR |
| GC086 / 21N17 / 17:30 | 1.000 | TP 52 | | | | | | | 2151 | 7.5 | | | 24 | 31 | 0.3 | MDD, CBR |
| GC099 / 06D17 / 17:00 | 1.000 | TP 53 | | | | | | | 2160 | 8.2 | | | 54 | 84 | 0.3 | MDD, CBR |
| GC099 / 06D17 / 17:00 | 1.000 | TP 54 | | | | | | | 1922 | 14.7 | | | 12 | 16 | 0.3 | MDD, CBR |
| GC099 / 06D17 / 17:00 | 1.000 | TP 55 | | | | | | | 2023 | 14.6 | | | 21 | 24 | 0.5 | MDD, CBR |
| GC099 / 06D17 / 17:00 | 1.000 | TP 56 | | | | | | | 2030 | 15.3 | | | 21 | 25 | 0.6 | MDD, CBR |
| GC099 / 06D17 / 17:00 | 1.000 | TP 57 | | | | | | | 1870 | 15.6 | | | 18 | 21 | 0.4 | MDD, CBR |
| GC099 / 06D17 / 17:00 | 1.000 | TP 58 | | | | | | | 1880 | 15.2 | | | 6 | 17 | 0.2 | MDD, CBR |
| **REMARKS: MCHINJI ROUND ABOUT TO CHIDZANJA JUNCTION** | | | | | | | | | | | | | | | | **1 (C)** |

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|---|---|---|---|---|---|
| LAB REF: GC100 / 20D17 / 08:00 | | | SAMPLE No. MCHINJI RA - CHIDZANJA / TRIAL PITS / 15N17 | | |
| SAMPLED BY: GEOCONSULT LAB. TEAM | | DATE: 15 / 11 / 2017 | | TIME: 08:21 | |
| LOCATION: | EASTING | | NORTHING | ELEVATION | DEPTH (m) |
| KATOTO - SONDA | | | | | 1.000 |
| TYPE OF MATERIAL: | | | | | |
| TESTED BY: GEOCONSULT LAB. TEAM | | DATE: 15 / 11 / 2017 | | TIME: 08:00 | |
| CHECKED BY: GIFT L. KACHIWALA | | DATE: 19 / 12 / 2017 | | TIME: 09:00 | |
| APPROVED BY: M. SABELLI | | DATE: 19 / 12 / 2017 | | TIME: 17:00 | |

**PROJECT:** IMPROVEMENT OF MAJOR RODAS IN THE CITY OF LILONGWE **CLIENT:** KATAHIRA AND ENGINEERS

**SUMMARY OF TEST REULTS**

| LAB. REF. NUMBER | DEPTH (m) | TP No. | GRADATION (PASS) 2.360 | 0.425 | 0.075 | LL % | PI | CLASSIFICATION | MDD kg/m³ | OMC % | NMC | FI | CBR @95 | @98 | SWELL % | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | |
| GC083 / 17N17 / 17:30 | 1.000 | TP21 | | | | | | | 2210 | 8.1 | | | 12 | 25 | 0.2 | MDD, CBR |
| GC083 / 17N17 / 17:30 | 1.000 | TP22 | | | | | | | 1921 | 11.1 | | | 12 | 23 | 0.2 | MDD, CBR |
| GC083 / 17N17 / 17:30 | 1.000 | TP23 | | | | | | | 2090 | 6.3 | | | 11 | 23 | 0.3 | MDD, CBR |
| GC083 / 17N17 / 17:30 | 1.000 | TP24 | | | | | | | 1923 | 11.4 | | | 6 | 9 | 0.8 | MDD, CBR |
| GC083 / 17N17 / 17:30 | 1.000 | TP25 | | | | | | | 2155 | 7.8 | | | 17 | 28 | 0.3 | MDD, CBR |
| GC083 / 17N17 / 17:30 | 1.000 | TP26 | | | | | | | 1930 | 10.2 | | | 13 | 21 | 0.2 | MDD, CBR |
| **NOT DONE** | 1.000 | TP27 | | | | | | | | | | | | | | AREA WITH CONCRETE |
| GC084 / 18N17 / 17:00 | 1.000 | TP28 | | | | | | | 2164 | 8.1 | | | 13 | 32 | 0.2 | MDD, CBR |
| GC099 / 08D17 / 17:00 | 1.000 | TP29 | | | | | | | 1992 | 15.6 | | | 17 | 23 | 0.5 | MDD, CBR |
| **NOT DONE** | 1.000 | TP30 | | | | | | | | | | | | | | AREA COVERED WITH TAR |
| GC084 / 18N17 / 17:00 | 1.000 | TP31 | | | | | | | 1920 | 12.2 | | | 13 | 17 | 0.4 | MDD, CBR |
| **NOT DONE** | 1.000 | TP32 | | | | | | | | | | | | | | AREA COVERED WITH TAR |
| **NOT DONE** | 1.000 | TP33 | | | | | | | | | | | | | | AREA COVERED WITH TAR |
| **NOT DONE** | 1.000 | TP34 | | | | | | | | | | | | | | AREA COVERED WITH TAR |
| **NOT DONE** | 1.000 | TP35 | | | | | | | | | | | | | | AREA COVERED WITH TAR |
| GC084 / 18N17 / 17:00 | 1.000 | TP36 | | | | | | | 1916 | 12.2 | | | 10 | 19 | 0.4 | MDD, CBR |
| GC099 / 08D17 / 17:00 | 1.000 | TP37 | | | | | | | 2210 | 7.1 | | | 23 | 37 | 0.3 | MDD, CBR |
| GC084 / 18N17 / 17:00 | 1.000 | TP38 | | | | | | | 2156 | 8.5 | | | 25 | 35 | 0.3 | MDD, CBR |
| GC084 / 18N17 / 17:00 | 1.000 | TP39 | | | | | | | 1920 | 12.1 | | | 12 | 13 | 0.3 | MDD, CBR |
| GC086 / 18N17 / 17:30 | 1.000 | TP40 | | | | | | | 2076 | 8.4 | | | 26 | 31 | 1.0 | MDD, CBR |
| **REMARKS: MCHINJI ROUND ABOUT TO CHIDZANJA JUNCTION** | | | | | | | | | | | | | | | | **1 B** |

GEOCONSULT

# BENKELMAN BEAM REPORT

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**KATAHIRA & ENGINEERS INTERNATIONAL**

**THE GEOTECHNICAL INVESTIGATION**

**UNDER**

**THE PREPARATORY SURVEY**

**ON**

**THE PROJECT FOR IMPROVEMENT OF ARTERY ROAD OF LILONGWE**



## 1. INTRODUCTION

Pavement evaluation and visual inspections were carried out along the M1 road between Mchinji roundabout to Chidzanja Junction. The section is an asphalt road with sections that demonstrate poor drainage, eroded shoulders surface smoothing as well as cracks and deformations.

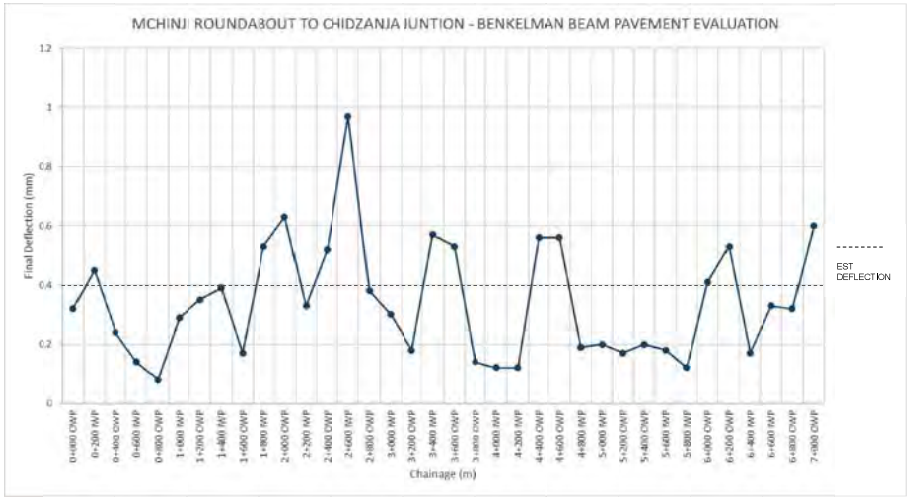
Measurements were taken at intervals of 200m using a 7 tone lorry with a rear axle load of 6350kg. Mchinji Roundabout was taken as the starting point.

## 2. SUMMARY OF RESULTS

Working with a criteria of more than 0.4mm but less than 1.0mm the following sections are classified as in a warning condition:

0+200 1+800 2+000 2+400 2+600 3+400 3+600 4+400 4+600 6+000 6+200 7+000

Visual inspection shows that embankment slopes, shoulders and side drains are still firm however show signs of minimum erosion. Some cracks were observed between chainage 3+200 – 7+000.



**4. COLLECTED DATA**

| POSITION | CHAINAGE | DEFLECTION (mm) | | | | AVERAGE | CORRECTION FACTOR | FINAL DEFLECTION | RUTTING (mm) |
|---|---|---|---|---|---|---|---|---|---|
| | | INITIAL | MAX | FINAL | DIFFERENCE | | | | |
| | | | | | | | | | |
| LHS | 0+000 | 0 | 17 | -1 | 16 | | | | |
| | OWP | | 17 | -1 | 16 | 16 | 0.16 | 0.32 | 0.4 |
| | | | | | | | | | |
| RHS | 0+200 | 0 | 25 | -2 | 23 | | | | |
| | IWP | | 24 | -2 | 22 | 22.5 | 0.225 | 0.45 | 0.4 |
| | | | | | | | | | |
| LHS | 0+400 | 0 | 12 | 0 | 12 | | | | |
| | OWP | | 13 | -1 | 12 | 12 | 0.12 | 0.24 | 0.4 |
| | | | | | | | | | |
| RHS | 0+600 | 0 | 8 | -1 | 7 | | | | |
| | IWP | | 7 | 0 | 7 | 7 | 0.07 | 0.14 | 0.4 |
| | | | | | | | | | |
| LHS | 0+800 | 0 | 4 | 0 | 4 | | | | |
| | OWP | | 4 | 0 | 4 | 4 | 0.04 | 0.08 | 0.4 |
| | | | | | | | | | |
| RHS | 1+000 | 0 | 17 | -2 | 15 | | | | |
| | IWP | | 17 | -3 | 14 | 14.5 | 0.145 | 0.29 | 0.4 |
| | | | | | | | | | |
| LHS | 1+200 | 0 | 18 | 0 | 18 | | | | |
| | OWP | | 19 | -2 | 17 | 17.5 | 0.175 | 0.35 | 0.4 |
| | | | | | | | | | |
| RHS | 1+400 | 0 | 20 | 3 | 23 | | | | |
| | IWP | | 17 | -1 | 16 | 19.5 | 0.195 | 0.39 | 0.4 |
| | | | | | | | | | |
| LHS | 1+600 | 0 | 24 | 3 | -9 | | | | |
| | OWP | | 24 | 3 | 26 | 8.5 | 0.085 | 0.17 | 0.4 |

**3. ROAD STATE OBSERVATION**

| Chainage | General Observation |
|---|---|
| 0+000 | Junction where M1 joins Mzimba street |
| 0+000-0+200 | No cracks. Shoulders and slopes are firm |
| 0+200-0+400 | No cracks. Shoulders and slopes are firm |
| 0+400-0+600 | No cracks and pot holes |
| 0+600-0+800 | No cracks, side drains and shoulders are ok |
| 0+800-1+000 | No cracks |
| 1+000-1+200 | No cracks |
| 1+200-1+400 | No cracks |
| 1+400-1+600 | No cracks |
| 1+600-1+800 | No cracks |
| 1+800-2+000 | No cracks, shoulders and slopes are ok |
| 2+000-2+200 | No cracks but shoulders are deformed |
| 2+200-2+400 | No cracks |
| 2+400-2+600 | At 2+520 there is a 3 span bridge |
| 2+600-2+800 | No cracks |
| 2+800-3+000 | No cracks, shoulders and slopes are ok |
| 3+000-3+200 | No cracks, shoulders and slopes are ok |
| 3+200-3+400 | The surface shows tiny cracks |
| 3+400-3+600 | Cracks are observed |
| 3+600-3+800 | Cracks are observed |
| 3+800-4+000 | Deformed side drains and few cracks |
| 4+000-4+200 | Cracks are observed |
| 4+200-4+400 | Cracks are observed |
| 4+400-4+600 | Few cracks observed |
| 4+600-4+800 | Cracks are observed and deformed side drains |
| 4+800-5+000 | Cracks are observed |
| 5+000-5+200 | Few cracks observed |
| 5+200-5+400 | Cracks are observed |
| 5+400-5+600 | Few cracks are observed |
| 5+600-5+800 | Cracks are observed |
| 5+800-6+000 | Cracks are observed |
| 6+000-6+200 | Cracks are observed |
| 6+200-6+400 | Few cracks are observed |
| 6+400-6+800 | Cracks are observed |
| 6+800-7+000 | Cracks are observed |

| POSITION | CHAINAGE | DEFLECTION (mm) | | | | AVERAGE | CORRECTION FACTOR | FINAL DEFLECTION | RUTTING (mm) |
|---|---|---|---|---|---|---|---|---|---|
| | | INITIAL | MAX | FINAL | DIFFERENCE | | | | |
| | | | | | | | | | |
| LHS | 3+800 | 0 | 15 | -9 | 6 | | | | |
| | OWP | | 15 | -7 | 8 | 7 | 0.07 | 0.14 | 0.4 |
| | | | | | | | | | |
| RHS | 4+000 | 0 | 8 | -2 | 6 | | | | |
| | IWP | | 7 | -7 | 6 | 6 | 0.06 | 0.12 | 0.4 |
| | | | | | | | | | |
| RHS | 4+200 | 0 | 10 | -4 | 6 | | | | |
| | IWP | | 10 | -4 | 6 | 6 | 0.06 | 0.12 | 0.4 |
| | | | | | | | | | |
| LHS | 4+400 | 0 | 8 | 0 | 8 | | | | |
| | OWP | | 50 | -2 | 48 | 28 | 0.28 | 0.56 | 0.4 |
| | | | | | | | | | |
| LHS | 4+600 | 0 | 25 | 0 | 8 | | | | |
| | OWP | | 25 | -2 | 48 | 28 | 0.28 | 0.56 | 0.4 |
| | | | | | | | | | |
| RHS | 4+800 | 0 | 12 | -3 | 9 | | | | |
| | IWP | | 13 | -3 | 10 | 9.5 | 0.095 | 0.19 | 0.4 |
| | | | | | | | | | |
| RHS | 5+000 | 0 | 13 | -3 | 10 | | | | |
| | IWP | | 13 | -3 | 10 | 10 | 0.1 | 0.2 | 0.4 |
| | | | | | | | | | |
| LHS | 5+200 | 0 | 11 | -3 | 8 | | | | |
| | OWP | | 10 | -1 | 9 | 8.5 | 0.085 | 0.17 | 0.4 |
| | | | | | | | | | |
| LHS | 5+400 | 0 | 8 | -3 | 10 | | | | |
| | OWP | | 8 | -3 | 10 | 10 | 0.1 | 0.2 | 0.4 |
| | | | | | | | | | |
| RHS | 5+600 | 0 | 10 | -1 | 9 | | | | |
| | IWP | | 10 | -1 | 9 | 9 | 0.09 | 0.18 | 0.4 |

| POSITION | CHAINAGE | DEFLECTION (mm) | | | | AVERAGE | CORRECTION FACTOR | FINAL DEFLECTION | RUTTING (mm) |
|---|---|---|---|---|---|---|---|---|---|
| | | INITIAL | MAX | FINAL | DIFFERENCE | | | | |
| | | | | | | | | | |
| RHS | 1+800 | 0 | 33 | -7 | 26 | | | | |
| | IWP | | 33 | -6 | 27 | 26.5 | 0.265 | 0.53 | 0.4 |
| | | | | | | | | | |
| LHS | 2+000 | 0 | 39 | -7 | 32 | | | | |
| | OWP | | 36 | -5 | 31 | 31.5 | 0.315 | 0.63 | 0.4 |
| | | | | | | | | | |
| RHS | 2+200 | 0 | 20 | -3 | 17 | | | | |
| | IWP | | 20 | -4 | 16 | 16.5 | 0.165 | 0.33 | 0.4 |
| | | | | | | | | | |
| LHS | 2+400 | 0 | 27 | -2 | 25 | | | | |
| | OWP | | 30 | -3 | 27 | 26 | 0.26 | 0.52 | 0.4 |
| | | | | | | | | | |
| RHS | 2+600 | 0 | 50 | 0 | 50 | | | | |
| | IWP | | 49 | -2 | 47 | 48.5 | 0.485 | 0.97 | 0.4 |
| | | | | | | | | | |
| LHS | 2+800 | 0 | 19 | 0 | 19 | | | | |
| | OWP | | 19 | 0 | 19 | 19 | 0.19 | 0.38 | 0.4 |
| | | | | | | | | | |
| RHS | 3+000 | 0 | 15 | 0 | 15 | | | | |
| | IWP | | 16 | -1 | 15 | 15 | 0.15 | 0.3 | 0.4 |
| | | | | | | | | | |
| LHS | 3+200 | 0 | 11 | -1 | 10 | | | | |
| | OWP | | 10 | -2 | 8 | 9 | 0.09 | 0.18 | 0.4 |
| | | | | | | | | | |
| RHS | 3+400 | 0 | 27 | 1 | 28 | | | | |
| | IWP | | 27 | 2 | 29 | 28.5 | 0.285 | 0.57 | 0.4 |
| | | | | | | | | | |
| LHS | 3+600 | 0 | 3 | 27 | 30 | | | | |
| | OWP | | 25 | -2 | 23 | 26.5 | 0.265 | 0.53 | 0.4 |

**TEMPORARY BRIDGE**
**BOREHOLE DRILLING**
**BH01 – BH04**

**KATAHIRA & ENGINEERS INTERNATIONAL**

THE GEOTECHNICAL INVESTIGATION
UNDER
THE PREPARATORY SURVEY
ON
THE PROJECT FOR IMPROVEMENT OF ARTERY ROAD OF LILONGWE

| POSITION | CHAINAGE | DEFLECTION (mm) | | | | AVERAGE | CORRECTION FACTOR | FINAL DEFLECTION | RUTTING (mm) |
|---|---|---|---|---|---|---|---|---|---|
| | | INITIAL | MAX | FINAL | DIFFERENCE | | | | |
| | | | | | | | | | |
| RHS | 5+800 | 0 | 10 | -4 | 6 | | | | |
| | IWP | | 10 | -4 | 6 | 6 | 0.06 | 0.12 | 0.4 |
| | | | | | | | | | |
| LHS | 6+000 | 0 | 24 | -4 | | | | | |
| | OWP | | 23 | -2 | 21 | 20.5 | 0.205 | 0.41 | 0.4 |
| | | | | | | | | | |
| LHS | 6+200 | 0 | 26 | 1 | 27 | | | | |
| | OWP | | 25 | 1 | 26 | 26.5 | 0.265 | 0.53 | 0.4 |
| | | | | | | | | | |
| RHS | 6+400 | 0 | 14 | -5 | 9 | | | | |
| | IWP | | 13 | -5 | 8 | 8.5 | 0.085 | 0.17 | 0.4 |
| | | | | | | | | | |
| RHS | 6+600 | 0 | 15 | 2 | 17 | | | | |
| | IWP | | 16 | 0 | 16 | 16.5 | 0.165 | 0.33 | 0.4 |
| | | | | | | | | | |
| LHS | 6+800 | 0 | 15 | 2 | 17 | | | | |
| | OWP | | 17 | -2 | 15 | 16 | 0.16 | 0.32 | 0.4 |
| | | | | | | | | | |
| LHS | 7+000 | 0 | 32 | -1 | 31 | | | | |
| | OWP | | 28 | 1 | 29 | 30 | 0.3 | 0.6 | 0.4 |

GEOCONSULT

## BOREHOLE LOG BH01

| | | |
|---|---|---|
| **PROJECT NUMBER** BH01 | **DRILLING DATE** 13/12/2018 | **COORDINATES** 36L 583 404, 8 453 178 |
| **PROJECT NAME** TEMPORARY BRIDE DESIGN | **TOTAL DEPTH** 9.0m | **COORD SYS** UTM |
| **CLIENT** KATAHIRA AND ENGINEERS LTD | **DIAMETER** 150 | **COMPLETION** 14/12/2018 |
| **ADDRESS** 1-14-1 Shintomi, Chuo Tokyo 104-0041, Japan | **CASING** Steel | **SURFACE ELEVATION** 1022 |

**Comments:** Water level measured after 24h

**LOGGED BY** G.Kachiwala
**CHECKED BY** M. Sabelli

| Drilling Method | RQD % | % Recovered | SPT N Number | Water Level | Depth (m) | Graphic Log | Elevation (m) | Moisture | Material Description |
|---|---|---|---|---|---|---|---|---|---|
| PERCUSSIVE | | | | | 0 | | | MST | Moist dark brown sandy silty clay |
| | | | | | 0.5 | | 1021.5 | | Moist brown greyish silty sandy clay |
| | | | 22 | | 1 | | 1021 | | Moist grey clayey silty sand with traces of pebbles |
| | | | | | 1.5 | | 1020.5 | | Moist grey fine sand with traces of pebbles |
| | | | 34 | | 2 | | 1020 | | Moist decomposed rock |
| | | | | | 2.5 | | 1019.5 | | |
| | | | 62 | | 3 | | 1019 | | |
| | | | | | 3.5 | | 1018.5 | | |
| | | | 100 | | 4 | | 1018 | | |
| ROTARY | | | | | 4.5 | | 1017.5 | | Rock - Granite |
| | | | | | 5 | | 1017 | | |
| | 73% | 93% | | | 5.5 | | 1016.5 | | |
| | | | | | 6 | | 1016 | | |
| | | | | | 6.5 | | 1015.5 | | |
| | | | | | 7 | | 1015 | | Rock - No core recovery |
| | | | | | 7.5 | | 1014.5 | | |
| | 0% | 0% | | | 8 | | 1014 | | |
| | | | | | 8.5 | | 1013.5 | | |
| | | | | | 9 | | 1013 | | Termination Depth at: 9.0 m |

**Remarks:** No water was observed throughout drilling
produced by ESlog.ESdat.net on 19 Dec 2018



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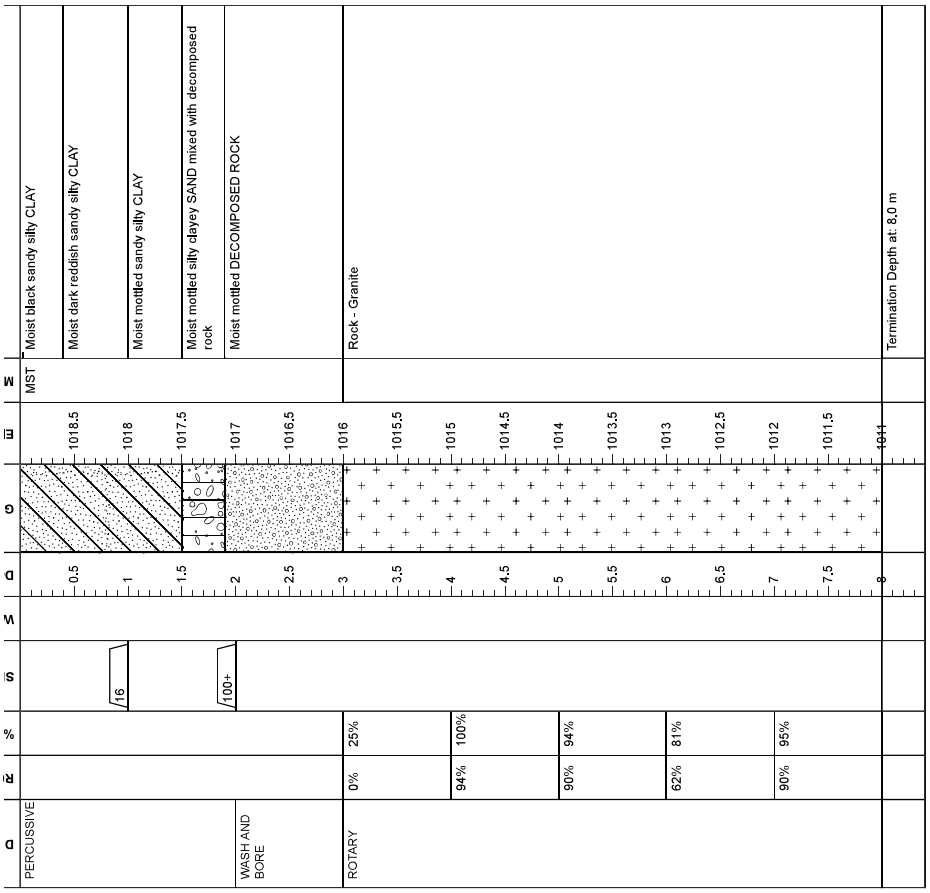
# PHOTOGRAPHIC REPORT

## BH 01




**Remarks:** No water was observed throughout percussive drilling produced by ESlog.ESdat.net on 22 Jan 2019

GEOCONSULT

| | | | |
|---|---|---|---|
| **LAB. REF. No.** GC382 / 13DEC18 / 16:20 | | **SAMPLE No.** KEI / LLC / BH01 / AL, G, NMC / 13DEC18 | |
| SAMPLED BY: GEOCONSULT LABORATORY TEAM | | DATE: 20 - 12 - 2018 | TIME: 11:07 |
| LOCATION: 36L UTM | EASTING | NORTHING | ELEVATION (m) / DEPTH |
| LLW SECTION - BBH 01 | 0 583 404 | 8 453 178 | 1022 (m) |
| TYPE OF MATERIAL: | | | |
| TEST STANDARD: BS 1377 | | | |
| TESTED BY: GEOCONSULT LABORATORY TEAM | | DATE: 20 - 12 - 2018 | TIME: |
| CHECKED BY: G. KACHIWALA | | DATE: 20 - 12 - 2018 | TIME: |
| APPROVED: M. SABELLI | | DATE: 20 - 12 - 2018 | TIME: |

**PROJECT**: REHABILITATION OF LILONGWE CITY ROADS

**CLIENT**: KATAHIRA & ENGINEERS INTERNATIONAL

## SUMMARY OF TEST RESULTS

| LAB. REFERENCE No. | DEPTH (m) | BH No. | SIEVE ANALYSIS 2.36 pass | 0.425 pass | 0.075 pass | LL % | PI | LS % | LS / P | Classification | MDD Kg/m³ | OMC % | NMC | FI | CBR @ 95 | CBR @ 98 | Swell % | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC382 / KEI / LLC / BH01 | 0.000 - 0.100 | 1 | 99 | 90 | 71 | 44 | 23 | 12.0 | 1080 | A - 7 - 6 (13) | | | 17.8 | 1633 | | | | |
| GC382 / KEI / LLC / BH01 | 0.100 - 1.000 | 1 | 99 | 85 | 63 | 48 | 31 | 16.7 | 1420 | A - 7 - 6 (15) | | | 15.2 | 1953 | | | | |
| GC382 / KEI / LLC / BH01 | 1.000 - 1.300 | 1 | 79 | 35 | 22 | 33 | 15 | 7.7 | 270 | A - 2 - 6 (0) | | | 5.0 | 330 | | | | |
| GC382 / KEI / LLC / BH01 | | | 88 | 47 | 23 | SP | SP | 0.7 | 33 | A - 1 - b (0) | | | 7.9 | 0 | | | | |
| GC382 / KEI / LLC / BH01 | | | 92 | 52 | 25 | SP | SP | 0.7 | 36 | A - 2 - 4 (0) | | | 11.7 | 0 | | | | |
| SPT | 1.000 | 1 | | | | | | | | | | | 6.3 | | | | | |
| SPT | 2.000 | 1 | | | | | | | | | | | 7.0 | | | | | |
| SPT | 3.000 | 1 | | | | | | | | | | | 9.9 | | | | | |
| SPT | 4.000 | 1 | | | | | | | | | | | 7.7 | | | | | |

**REMARKS**: SAMPLED FROM BH 01 @ LILONGWE BRIDGE

| | | | | | |
|---|---|---|---|---|---|
| GEOCONSULT | **LAB. REF. No.** GC407 / 17JAN19 / 18:00 | | | **SAMPLE No.** KEI / LLC / BH02 / AL, G, NMC / 17JAN19 | |
| | SAMPLED BY: GEOCONSULT LABORATORY TEAM | | | DATE: 25 - 01 - 2019 | TIME: 11:07 |
| | LOCATION: 36L UTM | EASTING | NORTHING | ELEVATION (m) | DEPTH |
| | LLW SECTION - BBH 02 | 0 583 415 | 8 453 182 | 1019 (m) | |
| | TYPE OF MATERIAL: | | | | |
| | TEST STANDARD: BS 1377 | | | | |
| | TESTED BY: GEOCONSULT LABORATORY TEAM | | DATE: 25 - 01 - 2019 | TIME: | |
| | CHECKED BY: G. KACHIWALA | | DATE: 25 - 01 - 2019 | TIME: | |
| | APPROVED: M. SABELLI | | DATE: 25 - 01 - 2019 | TIME: | |
| **PROJECT**: REHABILITATION OF LILONGWE CITY ROADS | | | **CLIENT**: KATAHIRA & ENGINEERS INTERNATIONAL | | |

**SUMMARY OF TEST RESULTS**

| LAB. REFERENCE No. | DEPTH (m) | BH No. | SIEVE ANALYSIS 2.36 pass | 0.425 pass | 0.075 pass | LL % | PI | LS % | LS / P | Classification | MDD $Kg/m^3$ | OMC % | NMC | FI | CBR @ 95 | CBR @ 98 | Swell % | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC407 / KEI / LLC / BH02 | | | | | | | | | | | | | | | | | | |
| | 0.000 - 0.400 | 2 | 98 | 82 | 44 | 41 | 19 | 7.7 | 631 | A - 7 - 6 (4) | | | 40.4 | 836 | | | | |
| GC407 / KEI / LLC / BH02 | | | | | | | | | | | | | | | | | | |
| | 0.400 - 1.500 | 2 | 99 | 86 | 45 | 38 | 18 | 11.1 | 955 | A - 6 (4) | | | 43.6 | 810 | | | | |
| GC407 / KEI / LLC / BH02 | | | | | | | | | | | | | | | | | | |
| | 1.500 -2.600 | 2 | 99 | 85 | 51 | 40 | 21 | 12.0 | 1020 | A - 6 (7) | | | 19.0 | 1071 | | | | |
| GC407 / KEI / LLC / BH02 | | | | | | | | | | | | | | | | | | |
| | | 2 | 81 | 55 | 28 | S.P | S.P | 2.9 | 160 | A - 2 - 4 (0) | | | 18.7 | 0 | | | | |
| GC407 / KEI / LLC / BH02 | | | | | | | | | | | | | | | | | | |
| | | 2 | 28 | 17 | 8 | S.P | S.P | 0.7 | 12 | A - 2 - 4 (0) | | | 18.7 | 0 | | | | |
| SPT | 1.000 | 2 | | | | | | | | | | | 17.0 | | | | | |
| SPT | 2.000 | 2 | | | | | | | | | | | 12.6 | | | | | |

**REMARKS**: SAMPLED FROM BH 02 @ LILONGWE BRIDGE

GEOCONSULT

**BH02**

GEOCONSULT

## BOREHOLE LOG BH03

| | | |
|---|---|---|
| **PROJECT NUMBER** BH03 | **DRILLING DATE** 17/01/2019 | **COORDINATES** 36L 583 467, 8 453 200 |
| **PROJECT NAME** TEMPORARY BRIDE DESIGN | **TOTAL DEPTH** 7.5m | **COORD SYS** UTM |
| **CLIENT** KATAHIRA AND ENGINEERS LTD | **DIAMETER** 150 | **COMPLETION** 18/12/2018 |
| **ADDRESS** 1-14-1 Shintomi, Chuo Tokyo 104-0041, Japan | **CASING** Steel | **SURFACE ELEVATION** 1019 |

**Comments:** Water level measured after 24h

**LOGGED BY** G.Kachiwala
**CHECKED BY** M. Sabelli

| Drilling Method | RQD % | % Recovered | SPT N Number | Water Level | Depth (m) | Graphic Log | Elevation (m) | Moisture | Material Description |
|---|---|---|---|---|---|---|---|---|---|
| PERCUSSIVE | | | | | 0 | | | MST | TOP SOIL |
| | | | | | 0.5 | | 1018.5 | | Moist dark reddish silty clayey SAND |
| | | | | | | | | | Moist red brownish silty sandy CLAY |
| | | | 59 | | 1 | | 1018 | | Moist mottled DECOMPOSED ROCK |
| | | | | | 1.5 | | 1017.5 | | |
| | | | 100+ | | 2 | | 1017 | | |
| WASH AND BORE | | | | | | | | | DECOMPOSED ROCK |
| ROTARY | 68% | 44% | | | 2.5 | | 1016.5 | | Rock - Granite |
| | 74% | 93% | | | 3 | | 1016 | | |
| | | | | | 3.5 | | 1015.5 | | |
| | 92% | 95% | | | 4 | | 1015 | | |
| | | | | | 4.5 | | 1014.5 | | |
| | 86% | 97% | | | 5 | | 1014 | | |
| | | | | | 5.5 | | 1013.5 | | |
| | 79% | 97% | | | 6 | | 1013 | | |
| | | | | | 6.5 | | 1012.5 | | |
| | | | | | 7 | | 1012 | | |
| | | | | | 7.5 | | 1011.5 | | |
| | | | | | 8 | | 1011 | | Termination Depth at: 7.5 m |

**Remarks:** No water was observed throughout percussive drilling
produced by ESlog.ESdat.net on 22 Jan 2019



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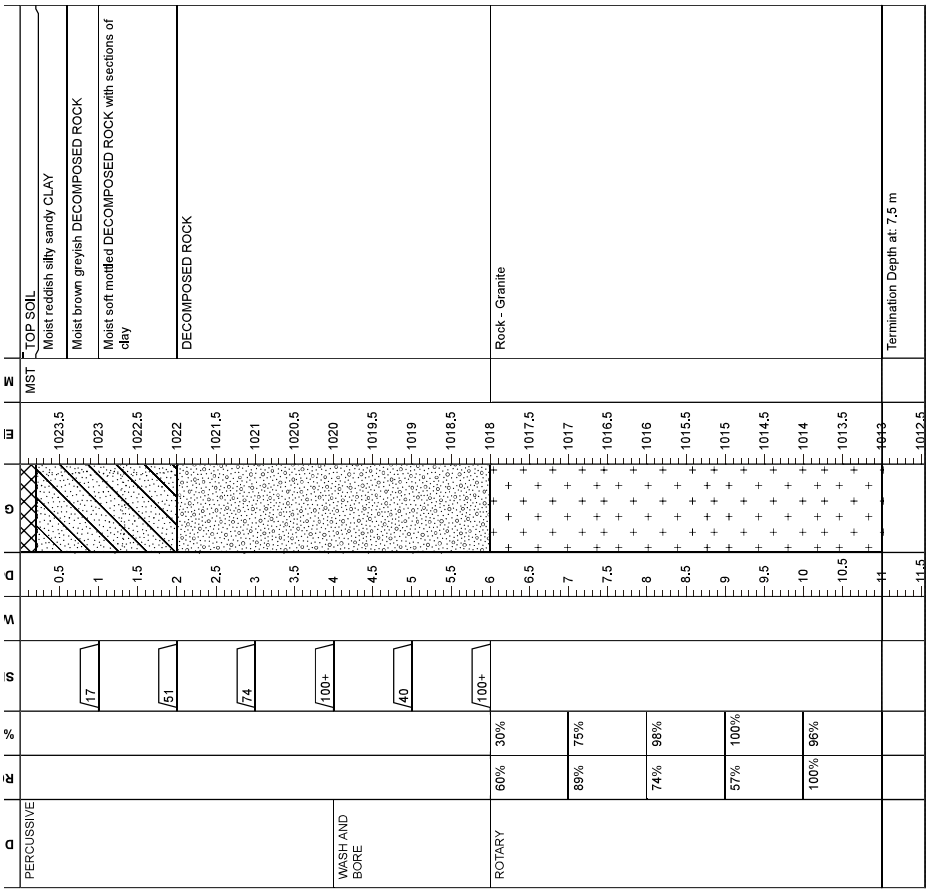
## BH 03




GEOCONSULT

| | | | |
|---|---|---|---|
| **LAB. REF. No.** GC406 / 16JAN19 / 18:00 | | **SAMPLE No.** KEI / LLC / BH03 / AL, G, NMC / 17JAN19 | |
| SAMPLED BY: GEOCONSULT LABORATORY TEAM | | DATE: 25 - 01 - 2019 | TIME: 11:07 |
| LOCATION: 36L UTM | EASTING | NORTHING | ELEVATION (m) / DEPTH |
| LLW SECTION - BBH 03 | 0 583 467 | 8 453 200 | 1019 (m) |
| TYPE OF MATERIAL: | | | |
| TEST STANDARD: BS 1377 | | | |
| TESTED BY: GEOCONSULT LABORATORY TEAM | | DATE: 25 - 01 - 2019 | TIME: |
| CHECKED BY: G. KACHIWALA | | DATE: 25 - 01 - 2019 | TIME: |
| APPROVED: M. SABELLI | | DATE: 25 - 01 - 2019 | TIME: |

**PROJECT**: REHABILITATION OF LILONGWE CITY ROADS

**CLIENT**: KATAHIRA & ENGINEERS INTERNATIONAL

**SUMMARY OF TEST RESULTS**

| LAB. REFERENCE No. | DEPTH (m) | BH No. | SIEVE ANALYSIS 2.36 pass | 0.425 pass | 0.075 pass | LL % | PI | LS % | LS / P | Classification | MDD Kg/m³ | OMC % | NMC | FI | CBR @ 95 | CBR @ 98 | Swell % | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC406 / KEI / LLC / BH03 | | | | | | | | | | | | | | | | | | |
| | 0.000 - 0.200 | 3 | 84 | 55 | 29 | S.P | S.P | 2,9 | 160 | A - 2 - 4 (0) | | | 23,1 | 0 | | | | |
| GC406 / KEI / LLC / BH03 | | | | | | | | | | | | | | | | | | |
| | 0.200 - 0.450 | 3 | 94 | 68 | 34 | 34 | 13 | 4,5 | 306 | A - 2 - 6 (1) | | | 18,9 | 442 | | | | |
| GC406 / KEI / LLC / BH02 | | | | | | | | | | | | | | | | | | |
| | 0.450 - 1.000 | 3 | 94 | 66 | 34 | 39 | 23 | 10,2 | 673 | A - 2 - 6 (2) | | | 11,2 | 782 | | | | |
| GC406 / KEI / LLC / BH03 | | | | | | | | | | | | | | | | | | |
| | 1.000 - 2.000 | 3 | 91 | 58 | 17 | N.P | N.P | 0,0 | 0 | A - 2 - 4 (0) | | | 28,7 | 0 | | | | |
| SPT | 1.000 | 3 | | | | | | | | | | | 21 | | | | | |
| SPT | 2.000 | 3 | | | | | | | | | | | 11,8 | | | | | |
| | | | | | | | | | | | | | 12,6 | | | | | |

**REMARKS**: SAMPLED FROM BH 03 @ LILONGWE BRIDGE

GEOCONSULT

| | | | | |
|---|---|---|---|---|
| **LAB. REF. No.** GC405 / 15JAN19 / 18:00 | | | **SAMPLE No.** KEI / LLC / BH04 / AL, G, NMC / 15JAN19 | |
| SAMPLED BY: GEOCONSULT LABORATORY TEAM | | | DATE: 25 - 01 - 2019 | TIME: 11:07 |
| LOCATION: 36L UTM | EASTING | NORTHING | ELEVATION (m) | DEPTH |
| LLW SECTION - BBH 04 | 0 583 480 | 8 453 206 | 1024 (m) | |
| TYPE OF MATERIAL: | | | | |
| TEST STANDARD: BS 1377 | | | | |
| TESTED BY: GEOCONSULT LABORATORY TEAM | | | DATE: 25 - 01 - 2019 | TIME: |
| CHECKED BY: G. KACHIWALA | | | DATE: 25 - 01 - 2019 | TIME: |
| APPROVED: M. SABELLI | | | DATE: 25 - 01 - 2019 | TIME: |

**PROJECT**: REHABILITATION OF LILONGWE CITY ROADS

**CLIENT**: KATAHIRA & ENGINEERS INTERNATIONAL

**SUMMARY OF TEST RESULTS**

| LAB. REFERENCE No. | DEPTH (m) | BH No. | SIEVE ANALYSIS 2.36 pass | 0.425 pass | 0.075 pass | LL % | PI | LS % | LS / P | Classification | MDD Kg/m³ | OMC % | NMC | FI | CBR @ 95 | CBR @ 98 | Swell % | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC405 / KEI / LLC / BH04 | 0.000 - 0.200 | 4 | 55 | 35 | 17 | 39 | 23 | 10.2 | 357 | A - 2 - 6 (0) | | | 24.2 | 391 | | | | |
| GC405 / KEI / LLC / BH04 | 0.200 - 0.600 | 4 | 86 | 60 | 39 | 39 | 16 | 9.4 | 564 | A - 6 (2) | | | 23.6 | 624 | | | | |
| GC405 / KEI / LLC / BH04 | 0.600 - 1.000 | 4 | 92 | 58 | 24 | S.P | S.P | 1.4 | 81 | A - 2 - 4 (0) | | | 8.9 | 0 | | | | |
| GC405 / KEI / LLC / BH04 | 1.000 - 2.000 | 4 | 83 | 57 | 23 | S.P | S.P | 2.1 | 120 | A - 2 - 4 (0) | | | 29.5 | 0 | | | | |
| GC405 / KEI / LLC / BH04 | 2.000 - 2.900 | 4 | 99 | 74 | 34 | S.P | S.P | 0.7 | 52 | A - 2 - 4 (0) | | | 9.8 | 0 | | | | |
| GC405 / KEI / LLC / BH04 | 2.900 - 3.100 | 4 | 94 | 48 | 14 | N.P | N.P | 0.0 | | A - 2 - 4 (0) | | | 7.1 | 0 | | | | |
| GC405 / KEI / LLC / BH04 | 3.100 - 4.00 | 4 | 87 | 56 | 23 | N.P | N.P | 0.0 | | A - 2 - 4 (0) | | | 14.3 | 0 | | | | |

**REMARKS**: SAMPLED FROM BH 04 @ LILONGWE BRIDGE

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**BH 04**

GEOCONSULT

**TEMPORARY BRIDGE**

**TRIAL PIT TEST RESULTS**

**KATAHIRA & ENGINEERS INTERNATIONAL**

**THE GEOTECHNICAL INVESTIGATION**

**UNDER**

**THE PREPARATORY SURVEY**

**ON**

**THE PROJECT FOR IMPROVEMENT OF ARTERY ROAD OF LILONGWE**

GEOCONSULT

| | | | | |
|---|---|---|---|---|
| **LAB. REF. No.** GC405 / 15JAN19 / 18:00 | | | **SAMPLE No.** KEI / LLC / BH04 / AL, G, NMC / 15JAN19 | |
| SAMPLED BY: GEOCONSULT LABORATORY TEAM | | | DATE: 25 - 01 - 2019 | TIME: 11:07 |
| LOCATION: 36L UTM | EASTING | NORTHING | ELEVATION (m) | DEPTH |
| LLW SECTION - BBH 04 | 0 583 480 | 8 453 206 | 1024 (m) | |
| TYPE OF MATERIAL: | | | | |
| TEST STANDARD: BS 1377 | | | | |
| TESTED BY: GEOCONSULT LABORATORY TEAM | | | DATE: 25 - 01 - 2019 | TIME: |
| CHECKED BY: G. KACHIWALA | | | DATE: 25 - 01 - 2019 | TIME: |
| APPROVED: M. SABELLI | | | DATE: 25 - 01 - 2019 | TIME: |

**PROJECT**: REHABILITATION OF LILONGWE CITY ROADS

**CLIENT**: KATAHIRA & ENGINEERS INTERNATIONAL

**SUMMARY OF TEST RESULTS**

| LAB. REFERENCE No. | DEPTH (m) | BH No. | SIEVE ANALYSIS 2.36 pass | 0.425 pass | 0.075 pass | LL % | PI | LS % | LS / P | Classification | MDD Kg/m³ | OMC % | NMC | FI | CBR @ 95 | CBR @ 98 | Swell % | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GC405 / KEI / LLC / BH04 / SPT | 1,000 | BH 04 | | | | | | | | | | 11,1 | | | | | | |
| GC405 / KEI / LLC / BH04 / SPT | 2,000 | BH 04 | | | | | | | | | | 6,9 | | | | | | |
| GC405 / KEI / LLC / BH04 / SPT | 3,000 | BH 04 | | | | | | | | | | 2 | | | | | | |
| GC405 / KEI / LLC / BH04 / SPT | 4,000 | BH 04 | | | | | | | | | | 3,9 | | | | | | |
| GC405 / KEI / LLC / BH04 / SPT | 5,000 | BH 04 | | | | | | | | | | 3,8 | | | | | | |
| GC405 / KEI / LLC / BH04 / SPT | 6,000 | BH 04 | | | | | | | | | | 3,3 | | | | | | |

**REMARKS**: SAMPLED FROM BH 04 @ LILONGWE BRIDGE

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+265 888 846 543

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LILONGWE
MALAWI

| | | | | | | |
|---|---|---|---|---|---|---|
| LAB REF: GC399 / 08JAN19 / 17:45 | | | | SAMPLE No. MCRA;CA / TP 02 / SUMMARY057 / 08JAN19 | | |
| SAMPLED BY: GEOCONSULT LAB. TEAM | | DATE: 08 / 01 / 2019 | | TIME: | 13:50 | |
| LOCATION: 36 L | EASTING | | NORTHING | ELEVATION (m) | DEPTH (m) | |
| MCHINJI RA - CHIDZANJA | 0 583 277 | | 8453150 | 1029 | 1.500 | |
| TYPE OF MATERIAL: MOIST REDDISH SANDY SILTY CLAY | | | | | | |
| TESTED BY: | GEOCONSULT LAB. TEAM | DATE: | 21-01-19 | TIME: | 10:00 | |
| CHECKED BY | G. L. KACHIWALA | DATE: | 22-01-19 | TIME: | 10:30 | |
| APPROVED BY: | M. SABELLI | DATE: | 22-01-19 | TIME: | 11:30 | |

**PROJECT:** REHABILITATION OF LLW CITY ROADS **CLIENT:** KEI ENGINEERS

**SUMMARY OF TEST REULTS**

| SAMPLE | DEPTH (m) | TP No. | GRADATION (PASS) 2.360 | 0.425 | 0.075 | LL % | PI | CLASSIFICATION | MDD kg/m³ | OMC % | NMC | FI | CBR @95 | @98 | SWELL % | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MCRA;CA / TP2 / 08JAN19 | 1.500 | 2 | 100 | 97 | 89 | 45 | 24 | A-7 - 6 (15) | 1653 | 21.2 | 23.5 | 2136 | 9 | 15 | 0.3 | GC399:NMC;AL;G;MDD;CBR |

**REMARKS:** SAMPLED FROM TRIAL PIT 02 - PROPOSED ROAD FOR DIVERSION

GEOCONSULT

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sabelli@geoconsult.cc

LAB REF: GC399 / 08JAN18 / 15:40 | SAMPLE No. KEI / LLC / TP02 / 08JAN18
SAMPLED BY: GEOCONSULT | DATE: 08 - 01 - 2019 | TIME: 13:50

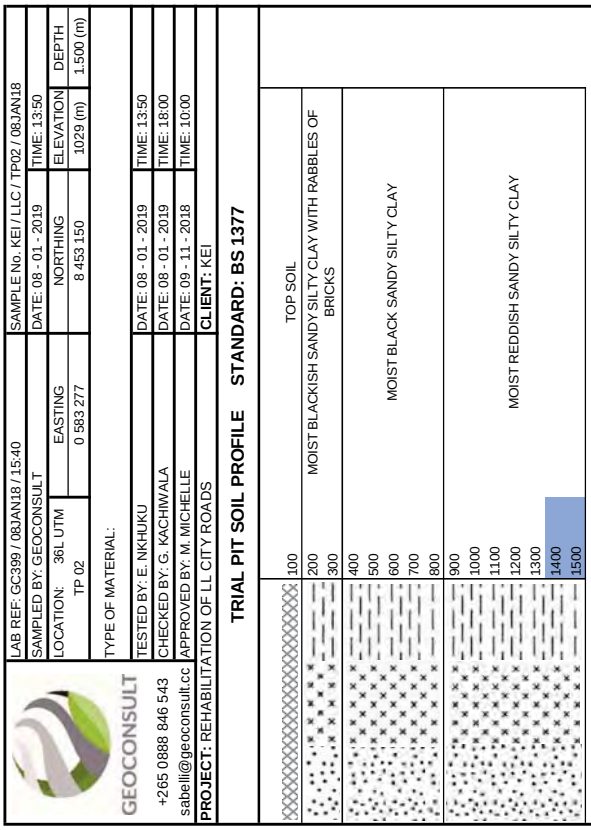
| LOCATION: | EASTING | NORTHING | ELEVATION | DEPTH |
|---|---|---|---|---|
| 36L UTM TP 02 | 0 583 277 | 8 453 150 | 1029 (m) | 1.500 (m) |

TYPE OF MATERIAL:

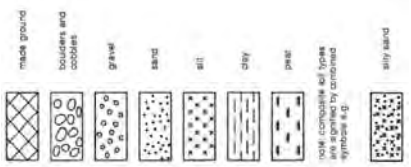
TESTED BY: E. NKHUKU | DATE: 08 - 01 - 2019 | TIME: 13:50
CHECKED BY: G. KACHIWALA | DATE: 08 - 01 - 2019 | TIME: 18:00
APPROVED BY: M. MICHELLE | DATE: 09 - 11 - 2018 | TIME: 10:00

**PROJECT:** REHABILITATION OF LL CITY ROADS **CLIENT:** KEI

**TRIAL PIT SOIL PROFILE STANDARD: BS 1377**




**LEGEND**




**PHOTOGRAPHIC REPORT**

**REMARKS:** SAMPLED FROM TP 02 @ LILONGWE BRIDGE - DIVERSION

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P.O. BOX 40
LILONGWE
MALAWI

| | | | | | | |
|---|---|---|---|---|---|---|
| LAB REF: GC399 / 08JAN19 / 17:50 | | | | SAMPLE No. MCRA;CA / TP 03 / SUMMARY058 / 08JAN19 | | |
| SAMPLED BY: GEOCONSULT LAB. TEAM | | DATE: 08 / 01 / 2019 | | TIME: | 11:45 | |
| LOCATION: 36 L | EASTING | | NORTHING | ELEVATION (m) | DEPTH (m) | |
| MCHINJI RA - CHIDZANJA | 0 583 513 | | 8453208 | 1032 | 1.500 | |
| TYPE OF MATERIAL: MOIST REDDISH SANDY SILTY CLAY | | | | | | |
| TESTED BY: | GEOCONSULT LAB. TEAM | DATE: | 21-01-19 | TIME: | 10:00 | |
| CHECKED BY | G. L. KACHIWALA | DATE: | 22-01-19 | TIME: | 10:30 | |
| APPROVED BY: | M. SABELLI | DATE: | 22-01-19 | TIME: | 11:30 | |

**PROJECT:** REHABILITATION OF LLW CITY ROADS **CLIENT:** KEI ENGINEERS

**SUMMARY OF TEST REULTS**

| SAMPLE | DEPTH (m) | TP No. | GRADATION (PASS) 2.360 | 0.425 | 0.075 | LL % | PI | CLASSIFICATION | MDD kg/m³ | OMC % | NMC | FI | CBR @95 | @98 | SWELL % | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MCRA;CA / TP3 / 08JAN19 | 1.500 | 3 | 88 | 75 | 53 | 31.8 | 15 | A - 6 (5) | 1915 | 11.3 | 9.9 | 795 | 14 | 22 | 0.1 | GC399:NMC;AL;G;MDD;CBR |

**REMARKS:** SAMPLED FROM TRIAL PIT 03 - PROPOSED ROAD FOR DIVERSION

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LAB REF: GC399 / 08JAN18 / 15:40 SAMPLE No. KEI / LLC / TP03 / 08JAN18
SAMPLED BY: GEOCONSULT DATE: 08 - 01 - 2019 TIME: 11:49

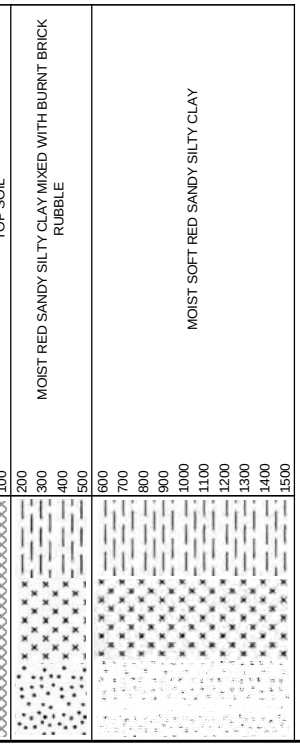
| LOCATION: | EASTING | NORTHING | ELEVATION | DEPTH |
|---|---|---|---|---|
| 36L UTM | | | | |
| TP 03 | 0 583 513 | 8 453 208 | 1032 (m) | 1.500 (m) |

TYPE OF MATERIAL:

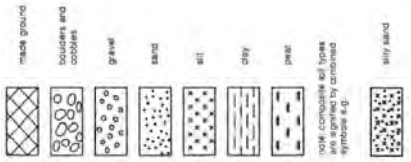
TESTED BY: E. NKHUKU DATE: 08 - 01 - 2019 TIME: 11:49
CHECKED BY: G. KACHIWALA DATE: 08 - 01 - 2019 TIME: 18:00
APPROVED BY: M. MICHELLE DATE: 09 - 11 - 2018 TIME: 10:00

**PROJECT:** REHABILITATION OF LL CITY ROADS **CLIENT:** KEI

**TRIAL PIT SOIL PROFILE STANDARD: BS 1377**




**LEGEND**




**PHOTOGRAPHIC REPORT**

**REMARKS:** SAMPLED FROM TP 03 @ LILONGWE BRIDGE - DIVERSION

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# ADDITIONAL WORK
# CBR & MDD RESULTS
# TP1 – TP2

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**KATAHIRA & ENGINEERS INTERNATIONAL**

**THE GEOTECHNICAL INVESTIGATION**

**UNDER**

**THE PREPARATORY SURVEY**

**ON**

**THE PROJECT FOR IMPROVEMENT OF ARTERY ROAD OF LILONGWE**





## PHOTOGRAPHIC REPORT

*Figure 1: Trial Pit 1*

*Figure 2: Trial Pit 2*

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| | | | | | | |
|---|---|---|---|---|---|---|
| LAB REF: GC136 / 20FEB18 / 14:30 | | | | SAMPLE No. MCRA;CA / TP 01 / SUMMARY052 / 20FEB18 | | |
| SAMPLED BY: GEOCONSULT LAB. TEAM | | DATE: 20 / 02 / 2018 | | TIME: | | |
| LOCATION: 36 L | EASTING | | NORTHING | ELEVATION (m) | | DEPTH (mm) |
| A / 2 RA - ESCOM ACCESS | 0 583 207 | | 8 453 130 | 1040 | | 500 |
| TYPE OF MATERIAL: MOIST DARK BROWN SANDY SILTY CLAY WITH SPOTS OF HARD ROCK | | | | | | |
| TESTED BY: | GEOCONSULT LAB. TEAM | DATE: | 27 / 02 / 2018 | TIME: | 8:49 | |
| CHECKED BY | G. KACHIWALA | DATE: | 27 / 02 / 2018 | TIME: | 9:20 | |
| APPROVED BY: | M. SABELLI | DATE: | 27 / 02 / 2018 | TIME: | 11:12 | |

**PROJECT:** REHABILITATION OF LLW CITY ROADS **CLIENT:** KEI ENGINEERS

## SUMMARY OF TEST REULTS

| SAMPLE | DEPTH (m) | TP No. | GRADATION (PASS) 2.360 | 0.425 | 0.075 | LL % | PI | CLASSIFICATION | MDD kg/m³ | OMC % | NMC | FI | CBR @95 | @98 | SWELL % | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MCRA;CA / TP1 / | | | | | | | | | | | | | | | | |
| G;AL;MDD;NMC;CBR052 / 20FEB18 | 0.5 | 1 | 88 | 73 | 52 | 36 | 18 | A-6 (6) | 1968 | 11 | 11.1 | 936 | 14 | 19 | 0.1 | G;MDD;NMC;CBR |

**REMARKS: AREA 2 ROUND ABOUT - ESCOM ACCESS ROAD, TRIAL PIT 01 @ 0.5m DEEP, (TAR THICKNESS IS 40mm)**

**PAGE No. 78A**

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*Figure 3: Asphalt Thickness & Surveyor Location*

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| | | | | | | |
|---|---|---|---|---|---|---|
| LAB REF: GC136 / 20FEB18 / 14:30 | | | | SAMPLE No. MCRA;CA / TP1 / SUMMARY054 / 20FEB18 | | |
| SAMPLED BY: GEOCONSULT LAB. TEAM | | DATE: 20 / 02 / 2018 | | TIME: | | |
| LOCATION: 36 L | EASTING | | NORTHING | ELEVATION (m) | | DEPTH (mm) |
| A/2 RA - ESCOM ACCESS | 0 583 210 | | 8453116 | 1020 | | 500 |
| TYPE OF MATERIAL: MOIST DARK BROWN SANDY SILTY CLAY | | | | | | |
| TESTED BY: | GEOCONSULT LAB. TEAM | DATE: | 27 / 02 / 2018 | TIME: | 9:19 | |
| CHECKED BY | G. KACHIWALA | DATE: | 27 / 02 / 2018 | TIME: | 9:30 | |
| APPROVED BY: | M. SABELLI | DATE: | 27 / 02 / 2018 | TIME: | 11:12 | |

**PROJECT:** REHABILITATION OF LLW CITY ROADS **CLIENT:** KEI ENGINEERS

**SUMMARY OF TEST REULTS**

| SAMPLE | DEPTH (m) | TP No. | GRADATION (PASS) 2.360 | 0.425 | 0.075 | LL % | PI | CLASSIFICATION | MDD kg/m³ | OMC % | NMC | FI | CBR @95 | @98 | SWELL % | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MCRA;CA / TP2 / | | | | | | | | | | | | | | | | |
| G;AL;MDD;NMC;CBR054 / 20FEB18 | 0.5 | 2 | 83 | 66 | 38 | 29 | 14 | A-6 (1) | 2112 | 8.3 | 8.6 | 532 | 40 | 51 | 0.0 | G;MDD;NMC;CBR |

**REMARKS: AREA 2 ROUND ABOUT - ESCOM ACCESS ROAD, TRIAL PIT 02 @ 0.500 m DEEP, (TAR THICKNESS IS 40mm)** **PAGE No. 088A**

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|---|---|---|---|---|---|---|
| LAB REF: GC136 / 20FEB18 / 14:30 | | | | SAMPLE No. MCRA;CA / TP1 / SUMMARY053 / 20FEB18 | | |
| SAMPLED BY: GEOCONSULT LAB. TEAM | | DATE: 20 / 02 / 2018 | | TIME: | | |
| LOCATION: 36 L | EASTING | | NORTHING | ELEVATION (m) | | DEPTH (m) |
| A/2 RA - ESCOM ACCESS | 0 583 207 | | 8 453 130 | 1040 | | 1,000 |
| TYPE OF MATERIAL: MOIST DARK BROWN SANDY SILTY CLAY WITH SPOTS OF HARD ROCK | | | | | | |
| TESTED BY: | GEOCONSULT LAB. TEAM | DATE: | 27 / 02 / 2018 | TIME: | 9:15 | |
| CHECKED BY | G. KACHIWALA | DATE: | 27 / 02 / 2018 | TIME: | 9:30 | |
| APPROVED BY: | M. SABELLI | DATE: | 27 / 02 / 2018 | TIME: | 11:12 | |

**PROJECT: REHABILITATION OF LLW CITY ROADS** **CLIENT: KEI ENGINEERS**

**SUMMARY OF TEST REULTS**

| SAMPLE | DEPTH (m) | TP No. | GRADATION (PASS) 2.360 | 0.425 | 0.075 | LL % | PI | CLASSIFICATION | MDD kg/m³ | OMC % | NMC | FI | CBR @95 | @98 | SWELL % | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MCRA;CA / TP1 / | | | | | | | | | | | | | | | | |
| G;AL;MDD;NMC;CBR053 / 20FEB18 | 1 | 1 | 95 | 78 | 45 | 40 | 20 | A-6 (5) | 1914 | 11.7 | 14.3 | 900 | 9 | 18 | 0.1 | G;MDD;NMC;CBR |

**REMARKS: AREA 2 ROUND ABOUT - ESCOM ACCESS ROAD, TRIAL PIT 01 @ 1.000m DEEP, (TAR THICKNESS IS 40mm)** **PAGE No. 83A**

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|---|---|---|---|---|---|---|
| LAB REF: GC136 / 20FEB18 / 14:30 | | | | SAMPLE No. MCRA;CA / TP 02 / SUMMARY055 / 20FEB18 | | |
| SAMPLED BY: GEOCONSULT LAB. TEAM | | DATE: 20 / 02 / 2018 | | TIME: | | |
| LOCATION: 36 L | EASTING | | NORTHING | ELEVATION (m) | | DEPTH (m) |
| A/2 RA - ESCOM ACCESS | 0 583 210 | | 8453116 | 1020 | | 1,000 |
| TYPE OF MATERIAL: MOIST DARK BROWN SANDY SILTY CLAY WITH SPOTS OF HARD ROCK | | | | | | |
| TESTED BY: | GEOCONSULT LAB. TEAM | DATE: | 27 / 02 / 2018 | TIME: | 9:37 | |
| CHECKED BY | G. KACHIWALA | DATE: | 27 / 02 / 2018 | TIME: | 9:40 | |
| APPROVED BY: | M. SABELLI | DATE: | 27 / 02 / 2018 | TIME: | 11:12 | |

**PROJECT:** REHABILITATION OF LLW CITY ROADS **CLIENT:** KEI ENGINEERS

## SUMMARY OF TEST REULTS

| SAMPLE | DEPTH (m) | TP No. | GRADATION (PASS) 2,360 | 0,425 | 0,075 | LL % | PI | CLASSIFICATION | MDD kg/m³ | OMC % | NMC | FI | CBR @95 | @98 | SWELL % | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MCRA;CA / TP2 / | | | | | | | | | | | | | | | | |
| G;AL;MDD;NMC;CBR055 / 20EB18 | 1 | 2 | 95 | 72 | 46 | 35 | 18 | A-6 (4) | 1980 | 11,0 | 11.5 | 828 | 15 | 27 | 0.1 | G;MDD;NMC;CBR |
| | | | | | | | | | | | | | | | | |
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**REMARKS: AREA 2 ROUND ABOUT - ESCOM ACCESS ROAD, TRIAL PIT 02 @ 1.000m DEEP, (TAR THICKNESS IS 40mm)** **PAGE No. 093A**

# Environmental Management Plan and Environmental Monitoring Plan

## 1. Mitigation Measures and Concomitant Costs

Table1 demonstrates mitigation measures and accompanying costs. Except costs for embankment slope protection, construction-related costs are covered by the general construction service fees.

**Table 1 Mitigation Measures and Expected Costs (Before/During Construction)**

| No. | Impact Item | Mitigation Measure | Cost | Implementing Entity | Responsible Entity |
|---|---|---|---|---|---|
| Pollution | | | | | |
| 1 | Air pollution | ▪ Spray water during construction<br>▪ Carry out routine inspection of construction machinery<br>▪ Operate construction machinery in a reasonable level | To be included in construction service fees | Contractor | Roads Authority |
| 2 | Water pollution | ▪ Form embankment slopes<br>▪ Protect slopes in the early phase | To be included in construction service fees | Contractor | Contractor and Roads Authority |
| 3 | Soil contamination | ▪ Carry out routine inspection of construction machinery<br>▪ Operate construction machinery in a reasonable level | To be included in construction service fees | Contractor | Contractor and Roads Authority |
| 4 | Waste | ▪ Dispose construction wastes in the designated waste disposal site | To be included in construction service fees | Contractor | Contractor and Roads Authority |
| 5 | Noise and vibration | ▪ Carry out routine inspection of construction machinery<br>▪ Operate construction machinery in a reasonable level | To be included in construction service fees | Contractor | Roads Authority |
| Natural Environment | | | | | |
| 6 | Ecosystem | ▪ Replant trees in response to the cutdown of roadside trees | MKW 1.3 million | Lilongwe City Council and Roads Authority | Roads Authority |
| 7 | Hydrology | ▪ Come up with a design which can prevent the deterrence of the river flow | To be included in consulting fees | D/D consultants | Roads Authority |
| Social Environment | | | | | |
| 8 | Involuntary resettlement | ▪ Carry out land acquisition and resettlement based on ARAP | To be included in ARAP | Lilongwe City Council | Lilongwe City Council and Roads Authority |
| 9 | Poor people | ▪ Carry out land acquisition and resettlement based on ARAP | To be included in ARAP | Lilongwe City Council | Lilongwe City Council and Roads Authority |
| 10 | Local economy Including employment and livelihood | ▪ Carry out land acquisition and resettlement based on ARAP | To be included in ARAP | Lilongwe City Council | Lilongwe City Council and Roads Authority |

| No. | Impact Item | Mitigation Measure | Cost | Implementing Entity | Responsible Entity |
|---|---|---|---|---|---|
| 11 | Uneven distribution of benefits and damages | ▪ Carry out land acquisition and resettlement based on ARAP | To be included in ARAP | Lilongwe City Council | Lilongwe City Council and Roads Authority |
| 12 | Risks of infectious diseases including HIV/AIDS | ▪ Implement education and awareness programs targeting construction workers | To be included in construction service fees | Contractor | Roads Authority |
| 13 | Working conditions including occupational safety | ▪ Prepare a construction safety plan | To be included in construction service fees | Contractor | Roads Authority |
| Others | | | | | |
| 14 | Transboundary impacts and climate change | ▪ Carry out routine inspection of construction machinery<br>▪ Operate construction machinery in a reasonable level<br>▪ Replanting after the cutdown of roadside trees | To be included in construction service fees | Lilongwe City Council and Roads Authority | Roads Authority |

## 2. Environmental Monitoring Plan

The environmental monitoring plan is presented in Table2.

**Table 2 Monitoring Plan (Before/During Construction)**

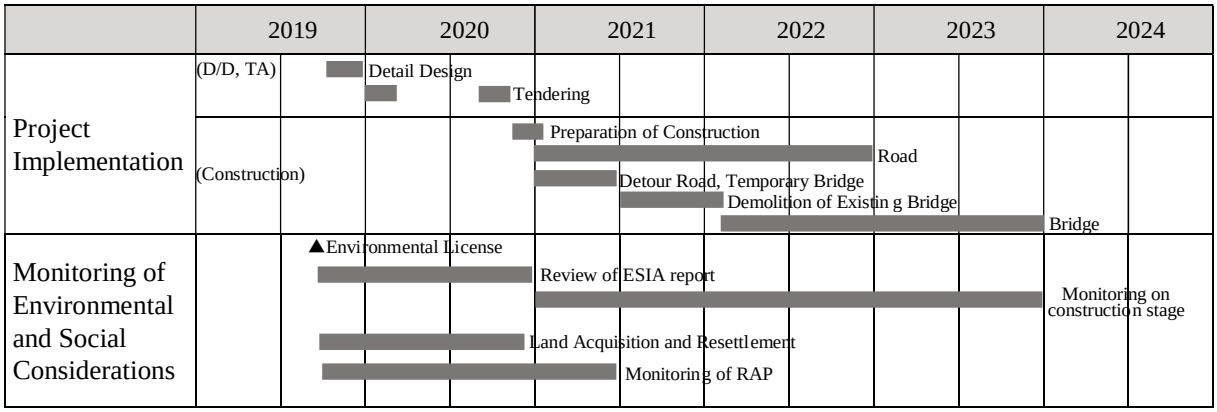
| No. | Impact Item | Monitoring Item | Location | Timing | Cost | Responsible Entity |
|---|---|---|---|---|---|---|
| Pollution | | | | | | |
| 1 | Air pollution | ▪ Verify environmental measures in the construction plan | - | Before construction | Included in routine tasks of consultants | Roads Authority |
| | | ▪ Verify the following conditions during construction:<br>- Sprinkling of water during construction<br>- Routine inspection of construction machinery<br>- Reasonable operation of construction machinery | Construction sites | At any time during construction | Included in routine tasks of consultants | Roads Authority |
| 2 | Water pollution | ▪ Verify environmental measures in the construction plan | - | Before construction | Included in routine tasks of consultants | Roads Authority |
| | | ▪ Verify the following conditions during construction:<br>- Current conditions of water quality of the Lilongwe River with the unaided eye<br>- Progress of slope formation and protection | Construction sites | At any time during construction | Included in routine tasks of consultants | Roads Authority |
| | | ▪ Conduct water quality survey | Construction sites | Twice a year during construction | US$ 950 per water quality survey | Roads Authority |
| 3 | Soil contamination | ▪ Verify environmental measures in the construction plan | - | Before construction | Included in routine tasks of consultants | Roads Authority |

| No. | Impact Item | Monitoring Item | Location | Timing | Cost | Responsible Entity |
|---|---|---|---|---|---|---|
| | | ▪ Verify the implementation of routine inspection of construction machinery | Construction sites | At any time during construction | Included in routine tasks of consultants | Roads Authority |
| 4 | Waste | ▪ Verify environmental measures in the construction plan | - | Before construction | Included in routine tasks of consultants | Roads Authority |
| | | ▪ Verify conditions of waste disposal | Waste disposal site | At any time during construction | Included in routine tasks of consultants | Roads Authority and Lilongwe City Council |
| 5 | Noise and vibration | ▪ Verify environmental measures in the construction plan | - | Before construction | Included in routine tasks of consultants | Roads Authority |
| | | ▪ Verify the following conditions during construction:<br>- Routine inspection of construction machinery<br>- Reasonable operation of construction machinery | Waste disposal site | At any time during construction | Included in routine tasks of consultants | Roads Authority |
| Natural Environment | | | | | | |
| 6 | Ecosystem | ▪ Check a tree cutting and replanting plan | - | Before construction | Included in routine tasks of consultants | Roads Authority and Lilongwe City Council |
| | | ▪ Verify replanting progress | Replanting sites | Before construction and at any time during construction | Included in routine tasks of consultants | Roads Authority and Lilongwe City Council |
| 7 | Hydrology | ▪ Verify the project design | - | During D/D stage | - | Roads Authority |
| Social Environment | | | | | | |
| 8 | Involuntary resettlement | ▪ Verify the ARAP report | - | Before construction | - | Roads Authority and Lilongwe City Council |
| | | ▪ Verify the implementation of land acquisition and resettlement | Project sites | Before construction and at any time during construction | Included in ARAP | Roads Authority and Lilongwe City Council |
| 9 | Poor people | ▪ Verify the implementation of land acquisition and resettlement | Project sites | Before construction and at any time during construction | Included in ARAP | Roads Authority and Lilongwe City Council |
| 10 | Local economy including employment and livelihood | ▪ Verify the implementation of land acquisition and resettlement | Project sites | Before construction and at any time during construction | Included in ARAP | Roads Authority and Lilongwe City Council |
| 11 | Uneven distribution of | ▪ Verify the implementation of land acquisition and | Project sites | Before construction | Included in ARAP | Roads Authority |

| No. | Impact Item | Monitoring Item | Location | Timing | Cost | Responsible Entity |
|---|---|---|---|---|---|---|
| | benefits and damages | resettlement | | and at any time during construction | | and Lilongwe City Council |
| 12 | Risks of infectious diseases including HIV/AIDS | ▪ Verify education and awareness programs in the construction plan | - | Before construction | Included in routine tasks of consultants | Roads Authority |
| | | ▪ Verify the implementation of education and awareness programs | - | At any time during construction | Included in routine tasks of consultants | Roads Authority |
| 13 | Working conditions including occupational safety | ▪ Verify the construction plan (safety plan) | - | Before construction | Included in routine tasks of consultants | Roads Authority |
| | | ▪ Check the implementation of mitigation measures | Construction sites | At any time during construction | Included in routine tasks of consultants | Roads Authority |
| Others | | | | | | |
| 14 | Transboundary impacts and climate change | ▪ Verify routine inspection of construction machinery<br>▪ Verify reasonable operation of construction machinery | Construction sites | At any time during construction | Included in routine tasks of consultants | Roads Authority |
| | | ▪ Verify the implementation of replanting | Replanting sites | Before construction and at any time during construction | Included in routine tasks of consultants | Roads Authority |

The monitoring process is portrayed in Table3.

**Table 3 Monitoring Process**




## 3. Implementation Structure

The Roads Authority (RA), or the implementing agency will be the major responsible entity for monitoring. In specific, the Environmental and Social Planner under RA's Planning Section will carry out monitoring. Considering that the Lilongwe City Council (LCC) will be responsible for waste management and tree cutting and replanting, the council will implement monitoring in cooperation with the RA. In addition, monitoring results will be reported to the Environmental Affairs Department (EAD) and JICA.

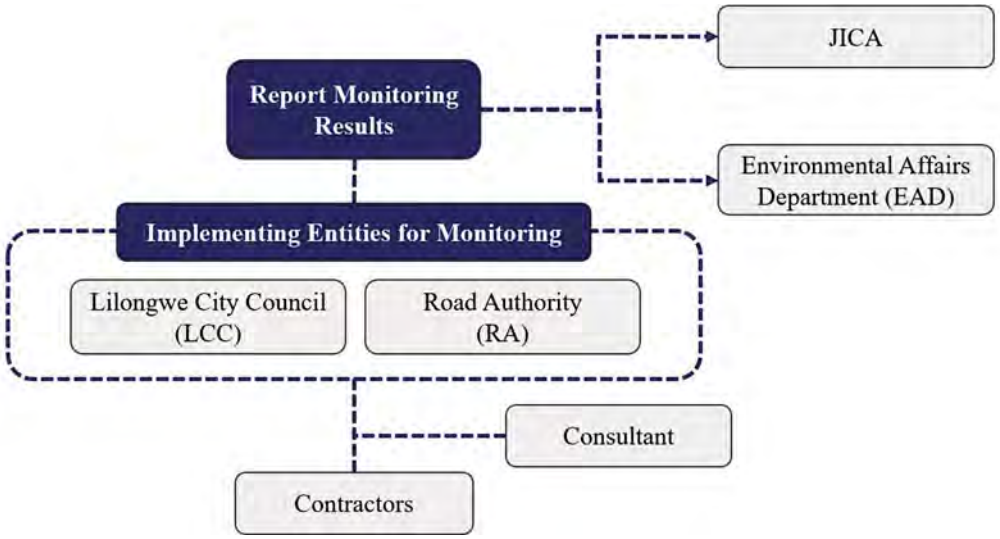



**Figure 1 Implementation Structure for Monitoring**

## Monitoring Form
## Project: The Project for The Improvement of Major Roads in The City of Lilongwe

Construction Phase (including Detail Design Phase)

### 1. Response/Actions to Comments and Guidance from Government Authorities and the Public

| Monitoring Item | Monitoring Results during Report Period |
|---|---|
| Number and contents of formal comments made by public | |
| Number and contents from Government agencies | |

### 2. Pollution

### (1) Air Pollution

| Item | Monitoring Results during Report Period | Measured to be Taken | Frequency |
|---|---|---|---|
| Confirmation for environmental mitigation measures in construction plan | | | Before commencement of construction activities |
| Confirmation for implementation of environmental mitigation measures on construction activities<br>・ Water spray in/around the project site<br>・ Regular inspection of construction machinery<br>・ Rational operation of construction machinery | | | Any time during construction phase |

### (2) Water Pollution (Lilongwe River)

| Item | Monitoring Results during Report Period | Measured to be Taken | Frequency |
|---|---|---|---|
| Confirmation for environmental mitigation measures in construction plan | | | Before commencement of construction activities |
| Confirmation for implementation of environmental mitigation measures on construction activities<br>・ Water quality (turbid) of Lilongwe river (visual inspection)<br>・ Protection of embankment slope<br>・ Sampling of water | | | Any time during construction phase<br><br>(Sampling of water) Semiyearly |

Criteria of Water Sampling

| Item | Unit | Measured Value (Mean) | Measured Value (Max) | Country's Standards (Effluence) | Reference (measured value in feasibility survey) | Referred International Standards* | Measurement Point | Frequency |
|---|---|---|---|---|---|---|---|---|
| pH | | | | 6.5 – 9.0 | 7.53 -7.63 | 7.0-8.3 | Lilongwe river (Construction areas of piers) | Semiyearly |
| DO | mg/L | | | >5.0 | 5.16 - 6.10 | =>2 | | |
| BOD | mg/L | | | 20 | 2.2 – 2.8 | =>5.0 | | |
| COD | mg/L | | | 60 | 11.8 – 14.1 | - | | |
| SS | mg/L | | | 30 | 97 - 140 | - | | |
| FC | Counts/100mL | | | - | 100 - 300 | =<8 | | |

*: MoE, Japan

### (3) Soil Pollution

| Item | Monitoring Results during Report Period | Survey Points | Frequency |
|---|---|---|---|
| Confirmation for environmental mitigation measures in construction plan | | - | Before commencement of construction activities |
| Confirmation for implementation of environmental mitigation measures on construction activities<br>・ Regular inspection of construction machinery | | Project site | Any time during construction phase |

### (4) Waste

| Item | Monitoring Results during Report Period | Measured to be Taken | Frequency |
|---|---|---|---|
| Confirmation for environmental mitigation measures in construction plan | | - | Before commencement of construction activities |
| Confirmation for implementation of environmental mitigation measures on construction activities<br>・ Dumping of construction wastes | | Project site, Dumping site of wastes | Any time during construction phase |

### (5) Noise (Construction Noise)

| Item | Monitoring Results during Report Period | Measured to be Taken | Frequency |
|---|---|---|---|
| Confirmation for environmental mitigation measures in construction plan | | - | Before commencement of construction activities |
| Confirmation for implementation of environmental mitigation measures on construction activities<br>・ Regular inspection of construction machinery<br>・ Rational operation of construction machinery | | Project site | Any time during construction phase |

## 3. Natural Environment

### (1) Ecosystem

| Item | Monitoring Results during Report Period | Survey Points | Frequency |
|---|---|---|---|
| Confirmation for the plan of tree cutting and reforestation | | - | Before commencement of construction activities |
| Confirmation for the reforestation | | Project site, Reforestation site | Any time during construction phase |

### (2) Hydrology

| Item | Monitoring Results during Report Period | Survey Point | Frequency |
|---|---|---|---|
| Condition of pier design of Lilongwe bridge (mitigation measures against water flow obstruction) | | - | During Detail Design phase |

**4. Social Environment**

**(1) Resettlement /Poor**

| Item | Monitoring Results during Report Period | Survey Point | Frequency |
|---|---|---|---|
| Review of ARAP | | - | Before commencement of construction activities |
| Progress of land acquisition and resettlement under ARAP | | Project site | Before commencement construction activities, and during construction activities |

**(2) Local economies, such as employment, livelihood, etc.**

Including in Resettlement / Poor

**(3) Misdistribution of benefits and damages**

Including in Resettlement / Poor

**(4) HIV/AIDS and other STDs**

| Item | Monitoring Results during Report Period | Measured to be Taken | Frequency |
|---|---|---|---|
| Confirmation of construction plan (education and enlightenment) | | - | Before commencement of construction activities |
| Confirmation of records of construction activities including protection against HIV/AIDS | | Project site | During construction period |

**(5) Working Environment (including Safety)**

| Item | Monitoring Results during Report Period | Measured to be Taken | Frequency |
|---|---|---|---|
| Confirmation of safety plan of construction work | | | Before commencement of construction work |
| Confirmation of records of construction activities including safety | | | During construction phase |

**(6) Trans-boundary impacts or climate change**

| Item | Monitoring Results during Report Period | Measured to be Taken | Frequency |
|---|---|---|---|
| (Maintenance of construction machinery)<br>Confirmation of construction records | | | During construction period |
| (Reforestation)<br>Confirmation of records of construction activities and field reconnaissance | | | After completion of replanting |

**4. Others**

**(1) Grievance on Environmental and Social Matters**

| Number of Grievance | Details of Grievance | Handling and Outcomes |
|---|---|---|
| | | |
| | | |

| Category | Environmental Item | Main Check Items | Yes: Y<br>No: N | Confirmation of Environmental Considerations<br>(Reasons, Mitigation Measures) |
|---|---|---|---|---|
| 1 Permits and Explanation | (1) EIA and Environmental Permits | (a) Have EIA reports been already prepared in official process?<br>(b) Have EIA reports been approved by authorities of the host country's government?<br>(c) Have EIA reports been unconditionally approved? If conditions are imposed on the approval of EIA reports, are the conditions satisfied?<br>(d) In addition to the above approvals, have other required environmental permits been obtained from the appropriate regulatory authorities of the host country's government? | (a) Y<br>(b) N<br>(c) Y<br>(d) N | (a) EIA (ESIA) report has been prepared by conducting environmental impact assessment in accordance with EMA in Malawi and JICA guidelines. The EIA report will be submitted to EAD soon after the preparation.<br>(b) Not yet.<br>(c) EIA report will be unconditionally approved.<br>(d) There is no environmental permit except Environmental License based on ESIA system. |
| | (2) Explanation to the Local Stakeholders | (a) Have contents of the project and the potential impacts been adequately explained to the Local stakeholders based on appropriate procedures, including information disclosure? Is understanding obtained from the Local stakeholders?<br>(b) Have the comment from the stakeholders (such as local residents) been reflected to the project design? | (a) Y<br>(b) Y | (a) Contents of the project and the potential impacts were explained to local stakeholders at public consultation meeting, and understanding was obtained from the local stakeholders.<br>(b) Comments from the local residents were recorded in minutes of meeting and reflected to the project design. |
| | (3) Examination of Alternatives | (a) Have alternative plans of the project been examined with social and environmental considerations? | (a) Y | (a) Including the view of the social and environmental considerations, some alternatives were examined. The alternative which gives minimum impacts were selected.. |
| 2 Pollution Control | (1) Air Quality | (a) Is there a possibility that air pollutants emitted from the project related sources, such as vehicles traffic will affect ambient air quality? Does ambient air quality comply with the country's air quality standards? Are any mitigating measures taken?<br>(b) If air quality already exceed country's standards near the route, is there a possibility that the project will make air pollution worse? | (a) Y<br>(b) Y | (a) This project is not a project increasing traffic volume significantly, but improving travel speed. Therefore the project substantially does not affect ambient air quality.<br>(b) Ditto |
| | (2) Water Quality | (a) Is there a possibility that soil runoff from the bare lands resulting from earthmoving activities, such as cutting and filling will cause water quality degradation in downstream water areas?<br>(b) Is there a possibility that surface runoff from roads will contaminate water sources, such as groundwater?<br>(c) Is there a possibility that the project will contaminate water sources, such as well water? | (a) Y<br>(b) N<br>(c) N | (a) Around the Lilongwe River, embankment is built. The embankment may cause water quality degradation of the Lilongwe River. To mitigate this, protection of the embankment will be prepared.<br>(b) There is not a possibility that surface runoff from roads will contaminate water source such as groundwater.<br>(c) Because the project does not have underground work, the project does not contaminate water sources. |
| | (3) Wastes | (a) In the case of that large volumes of excavated/dredged materials are generated, are the excavated/dredged materials properly treated and disposed of in accordance with the country's standards? | (a) Y | (a) Wastes will be generated by construction work. The wastes will be handled based on Malawi's waste management system. |
| | (4) Noise and Vibration | (a) Do noise and vibrations from the vehicle traffic comply with the country's standards?<br>(b) Do low frequency sound from the vehicle traffic comply with the country's standards? | (a) Y/N<br>(b) Y/N | (a) There is no standards of road noise and vibration in Malawi. Because this project is not a project increasing traffic volume significantly, it is expected that the project does not increase noise and vibrations.<br>(b) There is no reguration for low frequency sound in Malawi. |

| Category | Environmental Item | Main Check Items | Yes: Y<br>No: N | Confirmation of Environmental Considerations<br>(Reasons, Mitigation Measures) |
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| 3 Natural Environment | (1) Protected Areas | (a) Is the project site located in protected areas designated by the country's laws or international treaties and conventions? Is there a possibility that the project will affect the protected areas? | (a) N | (a) The project site is not located in/around protected areas. There is no possibilitiy that the project will affect the protected areas. |
| | (2) Ecosystem | (a) Does the project site encompass primeval forests, tropical rain forests, ecologically valuable habitats (e.g., coral reefs, mangroves, or tidal flats)?<br>(b) Does the project site encompass the protected habitats of endangered species designated by the country's laws or international treaties and conventions?<br>(c) If significant ecological impacts are anticipated, are adequate protection measures taken to reduce the impacts on the ecosystem?<br>(d) Are adequate protection measures taken to prevent impacts, such as disruption of migration routes, habitat fragmentation, and traffic accident of wildlife and livestock?<br>(e) Is there a possibility that installation of bridges and access roads will cause impacts, such as destruction of forest, poaching, desertification, reduction in wetland areas, and disturbance of ecosystems due to introduction of exotic (non-native invasive) species and pests? Are adequate measures for preventing such impacts considered?<br>(f) Is there a possibility that the changes in water flows due to the project will adversely affect aquatic environments in the river? Are adequate measures taken to reduce the impacts on aquatic environments, such as aquatic organisms? | (a) N<br>(b) N<br>(c) Y<br>(d) N<br>(e) N<br>(f) N | (a) The project site does not encompass primeval forests, tropical rain forests, ecologically valuable habitats.<br>(b) The project site does not encompass the protected habitats of endangered species.<br>(c) Reforestation done for cutting trees will be monitored.<br>(d) The project site is in the center of urban area. Direct negative impacts on ecosystem are not expected.<br>(e) This project site is in the center of urban area, there is no impacts on significant ecosystem.<br>(f) The piers which are installed in Lilongwe river is designed to minimize the impacts on the water flows. It is expected that negative impacts on aquatic environment are few. |
| | (3) Hydrology | (a) Is there a possibility that hydrologic changes due to the installation of structures will adversely affect surface water and groundwater flows? | (a) N | The piers which are installed in the Lilongwe River is designed to minimize the impacts on the water flows. It is expected that negative impacts on aquatic environment are few. |
| | (4) Topography and Geology | (a) Is there any soft ground on the route that may cause slope failures or landslides? Are adequate measures considered to prevent slope failures or landslides, where needed?<br>(b) Is there a possibility that civil works, such as cutting and filling will cause slope failures or landslides? Are adequate measures considered to prevent slope failures or landslides?<br>(c) Is there a possibility that soil runoff will result from cut and fill areas, waste soil disposal sites, and borrow sites? Are adequate measures taken to prevent soil runoff? | (a) N<br>(b) N<br>(c) Y | (a) Since the project site does not have steep slope, slope failures or landslides are not expected.<br>(b) Ditto<br>(c) Because embankment which is designed as approaches of bridge may cause soil runoff, protection for embankment is planned. |

| Category | Environmental Item | Main Check Items | Yes: Y<br>No: N | Confirmation of Environmental Considerations<br>(Reasons, Mitigation Measures) |
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| 4 Social Environment | | | (a) Y<br>(b) Y<br>(c) Y<br>(d) Y<br>(e) Y<br>(f) Y<br>(g) Y<br>(h) Y<br>(i) Y<br>(j) Y | (a) Some vendors on the project site have to relocate. The alternative which minimizes the impacts was examined and selected.<br>(b) Prior to resettlement, adequate explanation on comensation and resettlement assistance will be given to affected people.<br>(c) Draft ARAP including compensation with full replacement costs, restoration of livelihoods and living standards has been developed.<br>(d) The compensations are going to be paid prior to the resettlement according to ARAP.<br>(e) Compensation policies are prepared in the dradt ARAP.<br>(f) Particular attention is paid for vulnerable peoples.<br>(g) On the ARAP survey, most of the affected people agreed with the resettlement.<br>(h) On the ARAP survey, the organization framework was examined. The capacity and budget for the ARAP implementation are secured.<br>(i) Monitoring plan is described in the ARAP.<br>(j) Grievance redress mechanism is established and described in the ARAP. |
| | (2) Living and Livelihood | (a) Where bridges and access roads are newly installed, is there a possibility that the project will affect the existing means of transportation and the associated workers? Is there a possibility that the project will cause significant impacts, such as extensive alteration of existing land uses, changes in sources of livelihood, or unemployment? Are adequate measures considered for preventing these impacts?<br>(b) Is there any possibility that the project will adversely affect the living conditions of the inhabitants other than the target population? Are adequate measures considered to reduce the impacts, if necessary?<br>(c) Is there any possibility that diseases, including infectious diseases, such as HIV will be brought due to immigration of workers associated with the project? Are adequate considerations given to public health, if necessary?<br>(d) Is there any possibility that the project will adversely affect road traffic in the surrounding areas (e.g., increase of traffic congestion and traffic accidents)?<br>(e) Is there any possibility that project will impede the movement of inhabitants?<br>(f) Is there any possibility that bridges will cause a sun shading and radio interference? | (a) N<br>(b) N<br>(c) Y<br>(d) Y<br>(e) N<br>(f) N | (a) Due to the implementation of the project, road traffic will be improved.<br>(b) There are no possibility that the project will adversely affect the living conditions of the inhabitants.<br>(c)There is a possibility that Infectious diseases such as HIV/AIDS spread due to the inflow of construction workers into the project site during construction. Advocacy work for HIV/AIDS prevention and control will be implemented.<br>(d) Because the project is implemented for the purpose of reduction of road congestion, there is no possibility that the project affects road traffic in the surrounding areas.<br>(e) Project will not impede the movement of inhabitants.<br>(f) Because height of new bridge is a ground line, there is no possibility that the bridge causes a sun shading and radio interference. |

| Category | Environmental Item | Main Check Items | Yes: Y<br>No: N | Confirmation of Environmental Considerations<br>(Reasons, Mitigation Measures) |
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| 4 Social Environment | (3) Heritage | (a) Is there a possibility that the project will damage the local archeological, historical, cultural, and religious heritage? Are adequate measures considered to protect these sites in accordance with the country's laws? | (a) Y | (a) There is a cultural heritage along the project site. However, because the project was designed to avoid cultural heritage, there is no possibility that the project damages the cultural heritage. |
| | (4) Landscape | (a) Is there a possibility that the project will adversely affect the local landscape? Are necessary measures taken? | (a) Y | (a) Since the project is a road at-grade, there is no possibility that the project adversely affects the local landscape. |
| | (5) Ethnic Minorities and Indigenous Peoples | (a) Are considerations given to reduce impacts on the culture and lifestyle of ethnic minorities and indigenous peoples?<br>(b) Are all of the rights of ethnic minorities and indigenous peoples in relation to land and resources respected? | (a) N<br>(b) N | (a)(b) Since the project site is located in the center of urban area, there is no habitat of ethnic minorities and indegenous peoples. |
| | (6) Working Conditions | (a) Is the project proponent not violating any laws and ordinances associated with the working conditions of the country which the project proponent should observe in the project?<br>(b) Are tangible safety considerations in place for individuals involved in the project, such as the installation of safety equipment which prevents industrial accidents, and management of hazardous materials?<br>(c) Are intangible measures being planned and implemented for individuals involved in the project, such as the establishment of a safety and health program, and safety training (including traffic safety and public health) for workers etc.?<br>(d) Are appropriate measures taken to ensure that security guards involved in the project not to violate safety of other individuals involved, or local residents? | (a) Y<br>(b) Y<br>(c) Y<br>(d) Y | (a) Compliance with laws and regulations is a first priority issue and consideration should be given to construction supervision.<br>(b) Contractors appropriately implement safety considerations concerning occupational accident prevention.<br>(c) Contractors prepare safety plans, and implement safety education for workers.<br>(d) Contractors thoroughly instruct security personnel and supervise them not to violate the safety of the project stakeholders and local residents. Countermeasures and penalties in case of accident by security personnel are prepared in advance. |
| 5 Others | (1) Impacts during Construction | (a) Are adequate measures considered to reduce impacts during construction (e.g., noise, vibrations, turbid water, dust, exhaust gases, and wastes)?<br>(b) If construction activities adversely affect the natural environment (ecosystem), are adequate measures considered to reduce impacts?<br>(c) If construction activities adversely affect the social environment, are adequate measures considered to reduce impacts? | (a) Y<br>(b) Y<br>(c) N | (a) Environmental management plan is prepared as mitigation measures for the impacts during construction.<br>(b) Serious impact to the surrounding ecosystem is not expected since no endangered species observed at project site. Trees cut down to the minimum necessary, as much as possible.<br>(c) Construction activities will provide local people with job oppotunities. No significant impacts are expected. |
| | (2) Monitoring | (a) Does the proponent develop and implement monitoring program for the environmental items that are considered to have potential impacts?<br>(b) What are the items, methods and frequencies of the monitoring program?<br>(c) Does the proponent establish an adequate monitoring framework (organization, personnel, equipment, and adequate budget to sustain the monitoring framework)?<br>(d) Are any regulatory requirements pertaining to the monitoring report system identified, such as the format and frequency of reports from the proponent to the regulatory authorities? | (a) Y<br>(b) Y<br>(c) Y<br>(d) Y | (a) Environmental monitoring plan (EMoP) against potential negative impacts has been prepared.<br>(b) Draft EMoP was developed referring similar cases and taking into consideration the characteristics of the project site and legislations. Draft EMoP will be reexamined as necessary at the time of detailed design.<br>(c) RA agreed the implementation of monitoring. Environmental personnel will be assigned and implement environmental monitoring.<br>(d) RA will carry out monitoring quarterly during construction, then compile the result and report to JICA with project progress report. |

| Category | Environmental Item | Main Check Items | Yes: Y<br>No: N | Confirmation of Environmental Considerations<br>(Reasons, Mitigation Measures) |
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| 6 Note | Reference to Checklist of Other Sectors | (a) Where necessary, pertinent items described in the Roads, Railways and Forestry Projects checklist should also be checked (e.g., projects including large areas of deforestation).<br>(b) Where necessary, pertinent items described in the Power Transmission and Distribution Lines checklist should also be checked (e.g., projects including installation of power transmission lines and/or electric distribution facilities). | (a) Y<br>(b) N | (a) This project includes a road improvement and construction of a bridge. Pertinent items described in the Roads and River checklist was checked.<br>(b) This project does not include installation of power transmission lines and/or electric distribution facilities |
| | Note on Using Environmental Checklist | (a) If necessary, the impacts to transboundary or global issues should be confirmed (e.g., the project includes factors that may cause problems, such as transboundary waste treatment, acid rain, destruction of the ozone layer, or global warming). | (a) Y | (a) Regarding global warming, although some trees are cut, reforestation will be done. Therefore there is no possibility that CO2 emission remarkably increases. |

1) Regarding the term “Country’s Standards” mentioned in the above table, in the event that environmental standards in the country where the project is located diverge significantly from international standards, appropriate environmental considerations are required to be made.
In cases where local environmental regulations are yet to be established in some areas, considerations should be made based on comparisons with appropriate standards of other countries (including Japan's experience).
2) Environmental checklist provides general environmental items to be checked. It may be necessary to add or delete an item taking into account the characteristics of the project and the particular circumstances of the country and locality in which the project is located.