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**TRAFFIC COUNTS ON M-9, AND
NATIONAL HIGHWAY N-05**

NTRC-295

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The findings / conclusions drawn from the survey are as under:-

- a. The heaviest traffic are recorded on Lodhran – Bahawalpur Section of N-05 (24399 Vehicles / Day) followed by Nooriabad – Karachi Section (20411 Vehicle / Day on M-09).
- b. The peak hour, as found on N-05 was 1 PM to 2 PM against a volume of 1865 at Lodhran - Bahawalpur Section where as the lowest hours with a volume of 83 Vehicle/hour was observed between 4 AM to 5 AM at Multan – Lodhran Section.
- c. Cars (28.7 %) and Motorcycles (21.6%) are dominating modes of N-05 whereas cars (43.3 %) and 4 Axles Trucks (11.1 %) dominate the compositions of traffic stream on M-09 Motorway.
- d. Goods vehicles contribute about 35.1 % of the total traffic on N-05 while 4-Axle trucks account for about 31.1 % of the total goods vehicles.
- e. Goods vehicles contribute about 39.1 % of total traffic on M-09 while 4 Axle trucks account for 28.5 % of the total goods vehicles
- f. Traffic flow on M-09 at Hyderabad – Nooriabad section increased from 16207 vehicles per day in the year 2007 to 20331 vehicles per day in the years 2012 showing an increase of 25.4 %.
- g. The average daily traffic (ADT) at Nooriabad – Karachi increased from 14497 vehicles per day in 2007 to 20411 vehicles per day in 2012, with a percentage increase of 40.8%.

Recommendations

- Traffic Count Programme being continuous in nature; need to be carried out regularly on all the major National Highways and Motorway which are under supervision of NH & MP.
- As the three years have passed since the last survey was conducted, it is considered essential to carry out fresh survey on N-05 from Peshawar to Multan as well as on M-1, M-2 & M-3

1. Introduction

NTRC has conducted countrywide traffic counts and Origin-Destination Surveys to assist in the preparation of National Transport Plans besides developing traffic growth factors and other relationships used in the planning and design of roads and highways in the country. Recognizing their expertise and experience in the field, NH &MP in May, 2008, requested to carry out traffic count surveys.

2. Previously in the first phase, the survey was conducted on M-01, M-02, M-03 and N-05 from Peshawar to Multan covering of 1365 Kilometers. Based on the survey report, the results were used not only by NH & MP for deployment of field force but also by NHA consultants for traffic estimation especially for various sections of N-05. Under Phase-II, NH & MP required NTRC to undertake the traffic count survey on the remaining section on N-05 and M-09. This report describes the results in respect of the 2nd Phase on N-05 and M-09. The survey was conducted from Multan – Nooriabad on seven (7) points , covering a distance of 905 Kilometers. The survey commenced on 23-02-2012 rendered manuals for 24 hours from 08 AM on 24-02-2012 to 08 AM on 25-12-2012 at first station near Police Station Jallah Arian located in Multan - Lodhran Section of N-05. The survey continued for 16 days and completed on 10th March, 2012.

3. In addition to the staff detailed by NTRC, NH & MP also deputed their officials with the objective to get on-the job training in the field of manual classified traffic count survey, methodology, techniques, policing and managing traffic.

2. Staff Training & Pilot Survey

4. A survey team comprising NTRC staff and NH & MP staff was arranged for the survey. NTRC members used to carry out field surveys and had enough experience to undertake such assignments. However, the task was new to NH & MP staff. NTRC officials had imparted training to the staff of NH & MP to get them familiarized in the field of undertaking traffic count survey as well as filling performa to record classified volume at each point. Prior to undertaking the actual survey a pilot survey of one hours from 7 AM to 8 AM at 7 points located on N-05 and M-09 section was also conducted to get NH & MP staff acquainted with management, co-ordination, vehicle data coding / enumeration and policing the traffic.

3. Methodology Adopted.

5. A survey team consisting of 24 Enumerators, 2 Relievers, and one Driver headed by a Assistant Chief was assigned to carry out the survey. The team was further divided into 3 groups for three shifts, each spread over 8 hours, to collect traffic flow information for 24-hours at each of the survey point, 8 Enumerators and one reliever were deputed in each shift. Four enumerators recorded the flow in either direction. Depending on the traffic volume of each category of vehicles, exclusive enumerators were deputed to record the number of vehicles correctly. Synchronized clocks were used to ensure the correct recording of the time. The Shift Incharge was directed to consolidate the forms at the end of the day.

8. The exact location for each station was physically selected at site keeping in view the following factors documented in various reference manuals/reports for traffic count surveys:-

- (a) Straight section of road should be used free from junctions, entrances, sudden change in width and elevation so that visibility can work at a distance of at least 1 Km on either side of the survey point chosen.
- (b) There should be no stationary vehicles or building nearby the selected point. For the same reason, stretches of road on which parking frequently occurs should be avoided.
- (c) The survey point must be kept well away from schools, playing field, filling stations, parking zones and parks to minimize chances of any type of interference.
- (d) The survey point should be well away from city limits to eliminate the chances of counting local / urban traffic.
- (e) Besides the technical requirement, social needs must also be taken into account. The survey point should not be very far from where food and drinking water is available.

5. Compiling of Traffic Data

9. The collected field data was edited and necessary tabulation and compilation was done for statistical analysis. In addition to compiling hourly classified traffic volume by composition and by direction on a 24 hours basis

(Annex-iv) the following additional conclusions have been drawn by Statistical Analysis of the data. These are as under:-

- (a) 24-Hours Classified Traffic Volume.
- (b) Working out Peak and lightest Hours and their shares as percentage of Traffic Volume.
- (c) Hourly Traffic Flow Pattern as observed on N-05 and Motorway
- (d) Percentage Composition by type of vehicle at each location
- (e) Directional Distribution Traffic
- (f) Ratio of 16-Hours volume to 24-Hours volume.

6. 24-Hour Traffic Volume

10. Tables 6.1 and 6.2 show the total number of vehicles which passed the survey points over a period of 24 hours. By definition, 24-hours traffic flow cannot be taken as Average Daily Traffic (ADT) as the counts are not long enough to take average. However, they can be considered to be a proxy for ADT.

Table 6.1

24 Hours Traffic Volume N-05

S.No	Date	Day	Name of Section	Total No of Vehicles (Both side)	Weather
1	24-02-2012	Friday	Multan - Lodharan	9,615	Fair
2	25-02-2012	Saturday	Lodharan - Bahawalpur	24,399	Fair
3	28-02-2012	Tuesday	Bahawalpur - Sadiqabad	14,642	Fair
4	01-03-2012	Thursday	Sadiqabad - Sukkur	19,654	Fair
5	03-03-2012	Saturday	Sukkur- Hyderabad	20,251	Fair

Table 6.2
24 Hours Traffic Volume Motorway-M-09

S.No	Date	Day	Name of Section	Total No of Vehicles (Both side)	Weather
1	05-03-2012	Monday	Hyderabad to Nooriabad	20,331	Fair
2	06-03-2012	Tuesday	Nooriabad to Karachi	20,411	Fair

11. As may be seen from these Tables, the heaviest traffic was recorded on Lodhran – Bahawalpur Section of N-05 (24399 Veh./Day) followed by Nooriabad – Karachi Section of M-09 (20411 Veh./Day).

7. Daily Traffic By Type of Vehicles:

12. In general, classified volume is important for estimating highway user revenues, analysis of capacity in determining the effect of commercial vehicles and structural design of the pavement, bridges and other highway/motorway facilities. As described above, manual classified counts were taken as may be seen in detail in Annex-4. The summarized position (in number and in percent) may be seen in Tables 7.1, 7.2, 7.3, 7.4 respectively.

13. On the average, the highest share of 28.7% of the total flow is contributed by cars on N-05 followed by 21.6% by motorcycles and 10.9% by 4-Axle trucks. 2-Axle trucks stood at 8.6 %. (Table 7.3)

14. On the Motorways cars contribute the highest share of 43.3% followed by 11.1% by the 4 Axle truck by 9.2% by 2-Axle Truck, 7.5% by 3-Axle trucks and 7.2% buses. (Table 7.4)

15. The traffic composition on N-05 and Motorways may be seen in the form of pie diagrams and in diagrams 1 & 2 respectively.

Diagram 1
Traffic Composition on N-05

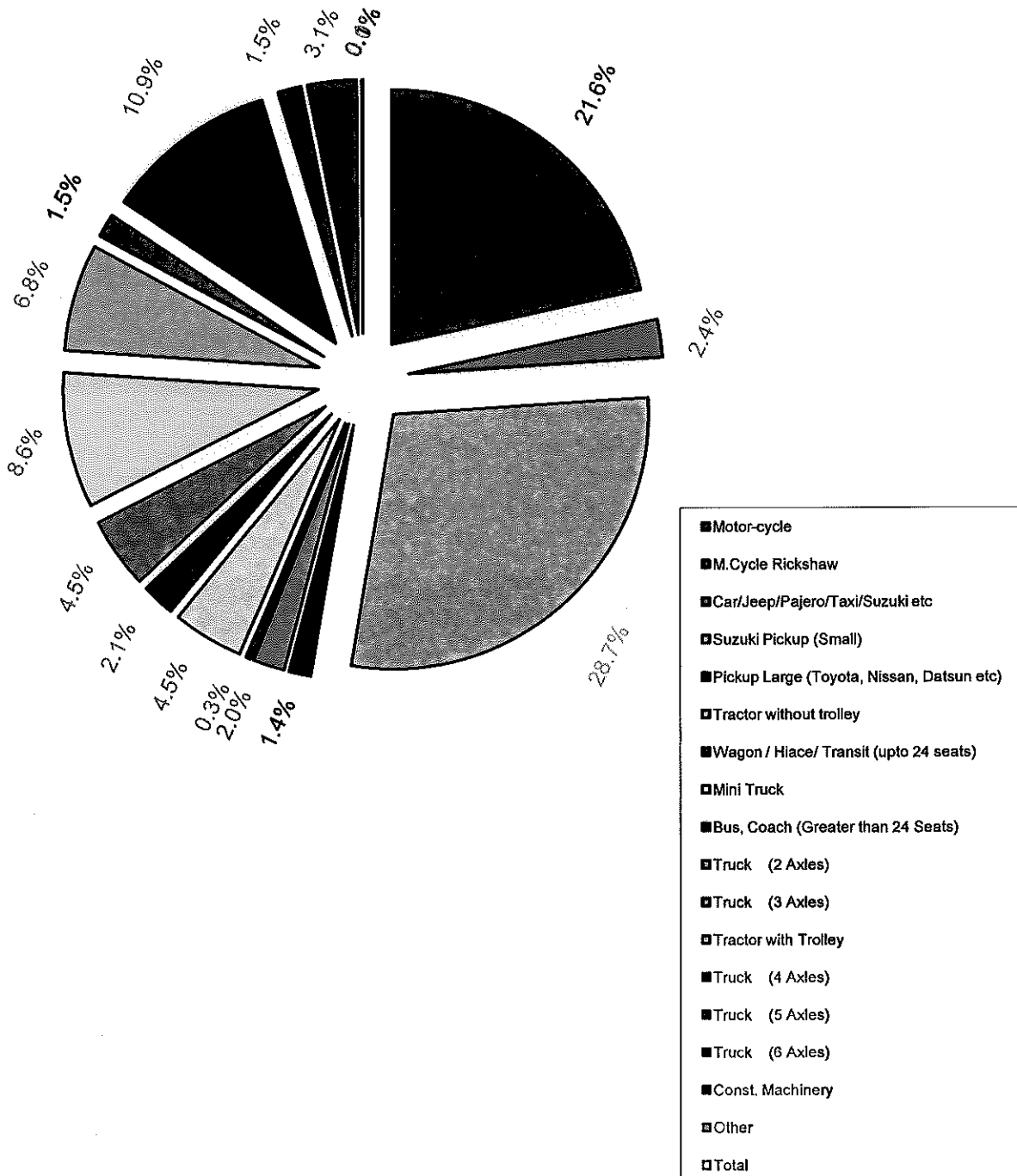
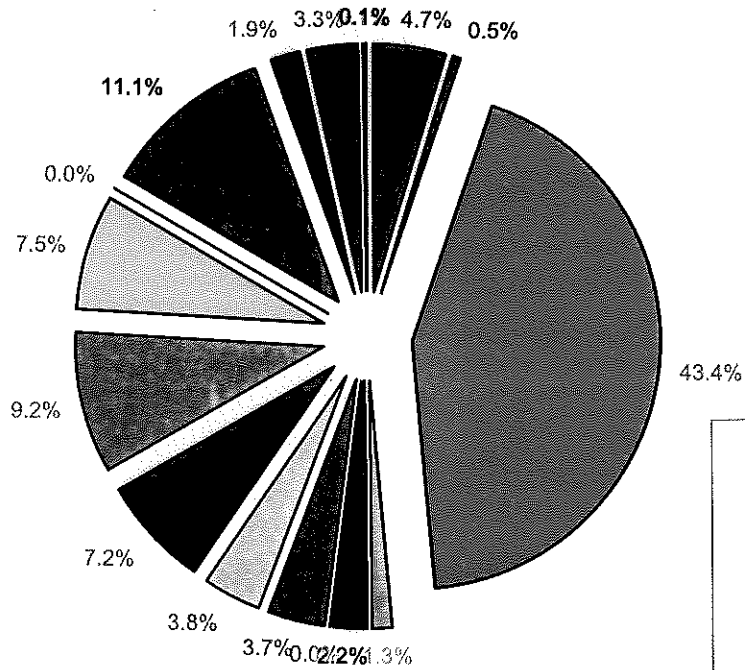


Diagram 2
Traffic Composition on M-09



- Motor-cycle
- M.Cycle Rickshaw
- Car/Jeep/Pajero/Taxi/Suzuki etc
- Suzuki Pickup (Small)
- Pickup Large (Toyota, Nissan, Datsun etc)
- Tractor without trolley
- Wagon / Hiace/ Transit (upto 24 seats)
- Mini Truck
- Bus, Coach (Greater than 24 Seats)
- Truck (2 Axles)
- Truck (3 Axles)
- Tractor with Trolley
- Truck (4 Axles)
- Truck (5 Axles)
- Truck (6 Axles)
- Const. Machinery
- Other

Table 7.1

24_Hours traffic Volume Section wise summary of National Highway N-05 Points

S.No.	Date	Name of Station	Motor-cycle	M.Cycle Rickshaw	Car/Jeep/Pajero/Taxi/Suzuki etc	Suzuki Pickup (Small)	Pickup Large (Toyota, Nissan, Datsun etc)	Tractor without trolley	Wagon / Hiace/ Transit (upto 24 seats)	Mini Truck	Bus, Coach (Greater than 24 Seats)	Truck (2 Axles)	Truck (3 Axles)	Tractor with Trolley	Truck (4 Axles)	Truck (5 Axles)	Truck (6 Axles)	Const. Machinery	Other	Total
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	24-02-2012	Jillian Arian Police Station,	2364	46	4353	64	268	38	521	207	273	483	363	89	390	41	109	6	0	9615
2	25-02-2012	Sutuj Toll Plaza	6759	1264	8214	382	427	20	1104	400	675	1249	1003	238	1838	280	540	6	0	24399
3	28-02-2012	Sadiqabad Toll Plaza	3690	271	3121	200	258	29	345	244	797	1336	1229	189	2133	230	565	5	0	14642
4	01-03-2012	Rohri by Pass Toll Plaza	4657	159	4790	271	316	96	991	314	754	1614	1590	394	2765	312	624	5	2	18654
5	03-03-2012	Saeedabad Toll Plaza	1654	362	4931	306	539	107	1032	706	1446	2952	1861	395	2561	501	868	15	15	20251
			19124	2102	25409	1223	1808	290	3993	1871	3945	7694	6046	1305	9687	1364	2706	37	17	88561

Table 7.2

24_Hours traffic Volume Section wise summary of Motorway at M-09 Points

S.No.	Date	Name of Station	Motor-cycle	M.Cycle Rickshaw	Car/Jeep/Pajero/Taxi/Suzuki etc	Suzuki Pickup (Small)	Pickup Large (Toyota, Nissan, Datsun etc)	Tractor without trolley	Wagon / Hiace/ Transit (upto 24 seats)	Mini Truck	Bus, Coach (Greater than 24 Seats)	Truck (2 Axles)	Truck (3 Axles)	Tractor with Trolley	Truck (4 Axles)	Truck (5 Axles)	Truck (6 Axles)	Const. Machinery	Other	Total
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	05-03-2012	Jamshoro Toll Plaza	942	145	9338	233	359	1	753	631	1522	1986	1341	11	2094	343	626	5	1	20331
2	06-03-2012	Police Station Nooriabad	988	47	8363	314	549	7	747	914	1408	1775	1720	1	2447	413	703	7	8	20411
			1931	194	17704	551	913	14	1507	1553	2939	3771	3072	24	4554	770	1344	28	26	40895

Table 7.3

Percentage Composition by Type of Vehicle on National Highway N-05 Survey Points

S.No.	Date	Name of Station	Motor-cycle	M.Cycle Rickshaw	Car/Jeep/Pajero/Taxi/Suzuki etc	Suzuki Pickup (Small)	Pickup Large (Toyota, Nissan, Datsun etc)	Tractor without trolley	Wagon / Hiace/ Transit (upto 24 seats)	Mini Truck	Bus, Coach (Greater than 24 Seats)	Truck (2 Axles)	Truck (3 Axles)	Tractor with Trolley	Truck (4 Axles)	Truck (5 Axles)	Truck (6 Axles)	Const. Machinery	Other
1	24-02-2012	Jiljan Arian Police Station,	24.6	0.5	45.3	0.7	2.8	0.4	5.4	2.1	2.8	5	3.8	0.9	4.1	0.4	1.1	0.1	0
2	25-02-2012	Sujluj Toll Plaza	27.7	5.2	33.7	1.6	1.8	0.1	4.5	1.6	2.8	5.1	4.1	1	7.5	1.1	2.2	0	0
3	28-02-2012	Sadiqabad Toll Plaza	25.2	1.9	21.3	1.4	1.8	0.2	2.4	1.7	5.4	9.1	8.3	1.3	14.5	1.6	3.9	0	0
4	01-03-2012	Rohrf by Pass Toll Plaza	23.7	0.8	24.4	1.4	1.6	0.5	5	1.6	3.8	8.2	8.1	2	14.1	1.6	3.2	0	0
5	03-03-2012	Saeedabad Toll Plaza	8.2	1.8	24.3	1.5	2.7	0.5	5.1	3.5	7.1	14.6	9.2	1.9	12.6	2.5	4.3	0.1	0.1
		Average	21.6	2.4	28.7	1.4	2	0.3	4.5	2.1	4.5	8.6	6.8	1.5	10.9	1.5	3.1	0.1	0

Table 7.4

Percentage Composition by Type of Vehicle on Motorway M-09 Survey Points

S.No.	Date	Name of Station	Motor-cycle	M.Cycle Rickshaw	Car/Jeep/Pajero/Taxi/Suzuki etc	Suzuki Pickup (Small)	Pickup Large (Toyota, Nissan, Datsun etc)	Tractor without trolley	Wagon / Hiace/ Transit (upto 24 seats)	Mini Truck	Bus, Coach (Greater than 24 Seats)	Truck (2 Axles)	Truck (3 Axles)	Tractor with Trolley	Truck (4 Axles)	Truck (5 Axles)	Truck (6 Axles)	Const. Machinery	Other
1	05-03-2012	Jamshoro Toll Plaza	4.6	0.7	45.9	1.2	1.8	0	3.7	3.1	7.5	9.8	6.6	0	10.3	1.7	3.1	0	0
2	06-03-2012	Police Station Nooriabad	4.8	0.2	41	1.5	2.7	0.1	3.7	4.5	6.8	8.7	8.4	0	12	2	3.4	0.1	0.1
		Average	4.7	0.5	43.4	1.3	2.2	0	3.7	3.8	7.2	9.2	7.5	0	11.1	1.9	3.3	0.1	0.1

8. Hourly Flow and Peak Hour Traffic

16. It is mainly used for geometric design with respect to number and width of lanes, channellization and shoulder design etc. It can also be used for determining capacity utilization, locating traffic control devices and evaluating and planning of an effective enforcement regime.

17. Hourly flow pattern as observed on N-05 and M-09 may be seen in *Diagram 3 & 4*, respectively. The flow-curved for N-05 shows its highest point at 1 PM to 3 PM. It touches its lowest point at 4 AM to 6 AM and on Motorway M-09 highest point at 06 PM 07 PM and lowest point at 0600 AM to 0700 AM. It is due to this reason that 16-hours traffic flow is normally taken from 7 AM to 11 PM. Inference is that 16 hours traffic count is sufficient enough to indicate peak, off peak volume. Peak Hour Volume (PHV) is a useful parameter for highway engineers and planners.

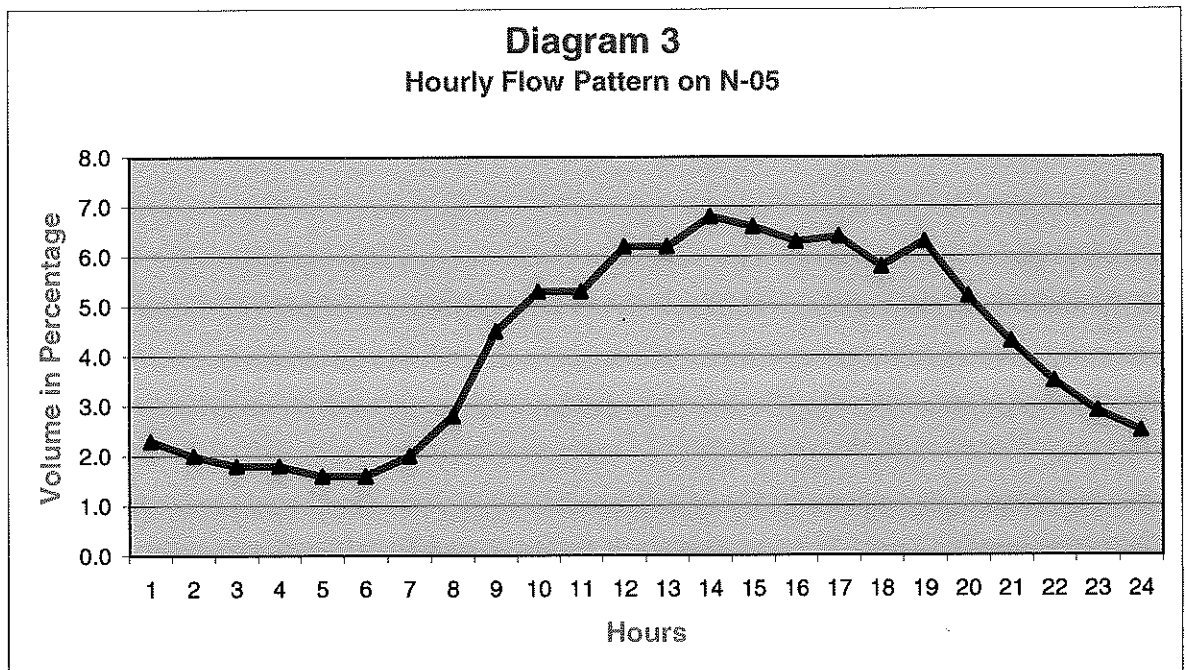
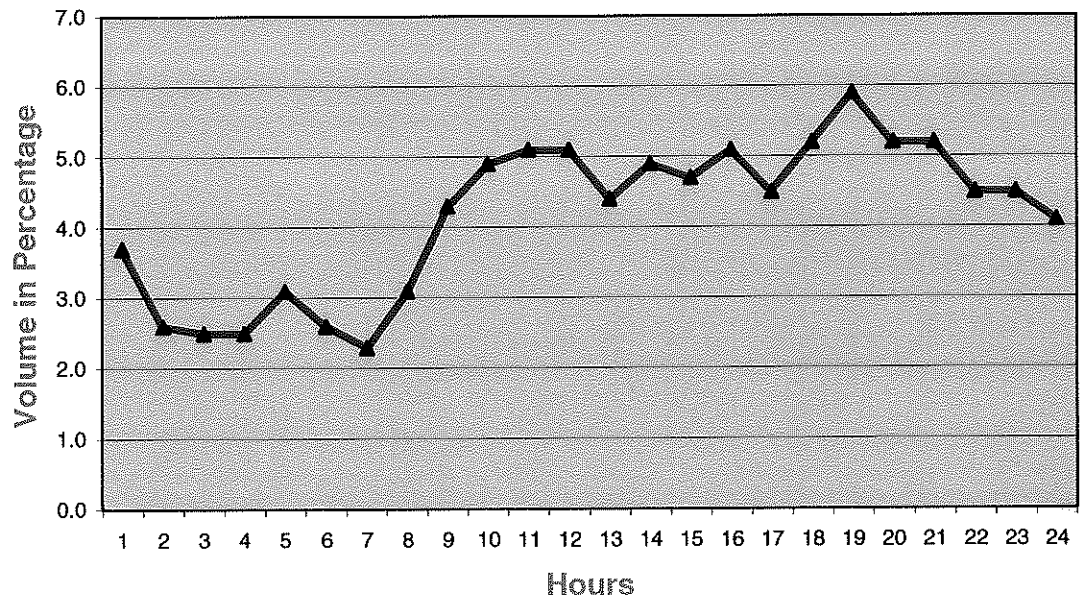


Diagram 4
Hourly Flow Pattern on Motorway M-9



18. Peak hours and their respective traffic in respect of N-05 stations is shown in **Table-8.2**. The figures reveal that, on an average, 7.0% of the daily flow is contributed by the peak hour on N-05. It is worth mentioning that 6.304% of Average Annual Daily Traffic (AADT) was found to be contributed by the peak hour on average of all twenty permanent traffic count stations all over the country and analysed 5 years data (Masoud Bakht, 1990). On Motorways (Table 9.3), an average 5.9% of daily flow is contributed by the peak hour of M-09.

19. The maximum and minimum traffic volumes on N-05 and Motorways and proportion of hourly volumes with 24-hour traffic volumes may be seen in Tables 8.4 and 8.5 respectively.

Table:- 8.1

Hourly Percentage of 24 Hours Volume

National Highway N-05 & Motorway M-09

Time (Hours)	Percentage Contribution on N-05		Percentage Contribution on Motorway M-9	
	Volume	Percentage	Volume	Percentage
0000-0100	2081	2.3	1497	3.7
0100-0200	1785	2.0	1032	2.6
0200-0300	1593	1.8	1012	2.5
0300-0400	1613	1.8	997	2.5
0400-0500	1387	1.6	1249	3.1
0500-0600	1416	1.6	1048	2.6
0600-0700	1742	2.0	910	2.3
0700-0800	2469	2.8	1254	3.1
0800-0900	3968	4.5	1721	4.3
0900-1000	4721	5.3	1987	4.9
1000-1100	4721	5.3	2079	5.1
1100-1200	5476	6.2	2072	5.1
1200-1300	5514	6.2	1792	4.4
1300-1400	5982	6.8	1965	4.9
1400-1500	5877	6.6	1917	4.7
1500-1600	5548	6.3	2046	5.1
1600-1700	5666	6.4	2219	4.5
1700-1800	5155	5.8	2110	5.2
1800-1900	5613	6.3	2368	5.9
1900-2000	4572	5.2	2097	5.2
2000-2100	3798	4.3	2103	5.2
2100-2200	3094	3.5	1822	4.5
2200-2300	2558	2.9	1806	4.5
2300-0000	2212	2.5	1639	4.1

Table:- 8.2

Peak Hour Volume as Percentage of ADT
(National Highway -05)

S. No.	Section	Peak Hour	No of Vehicles	% of 24 Hours Traffic Volume
1	Multan – Lodhran	1600-1700	693	7.2
2	Lodhran – Bahawalpur	1300-1400	1865	7.6
3	Bahawalpur – Sadiqabad	1600-1700	949	6.5
4	Sadiqabad – Sukkur	1300-1400	1403	7.1
5	Sukkur – Hyderabad	1400-1500	1333	6.6

Table:- 8.3

Peak Hour Volume as Percentage of ADT
(Motorway M-09)

S. No.	Section	Peak Hour	No of Vehicles	% of 24 Hours Traffic Volume
1	Hyderabad to Nooriabad	1800-1900	1256	6.2
2	Nooriabad to Karachi	1900-2000	1146	5.6

Table:- 8.4

Maximum and Minimum Traffic Volume
(No of Vehicles on N-05)

Section	Time	Max	Time	Min
Multan – Lodhran	1600-1700	693	0400-0500	83
Lodhran – Bahawalpur	1300-1400	1865	0400-0500	211
Bahawalpur–Sadiqabad	1600-1700	949	0400-0500	264
Sadiqabad – Sukkur	1300-1400	1403	0300-0400	288
Sukkur – Hyderabad	1400-1500	1333	0600-0700	340

Table:- 8.5

**Maximum and Minimum Traffic Volume
(No of Vehicles on Motorway-M-09)**

Section	Time	Max	Time	Min
Hyderabad – Nooriabad	1800-1900	1256	0200-0300	344
Nooriabad – Karachi	1900-2000	1146	0600-0700	449

9. Traffic Volume on different time intervals

20. Table 9.1 shows that traffic volume is minimum from Midnight to 6 AM on both M-09 and N-05. Traffic Volume on N-05 from 12 noon to 6 PM is highest where as the traffic volume on M-09 is highest from 6 PM to Midnight.

Table:- 9.1

Percentage of Traffic Volume on Different Time Intervals of a day

Hours	On National Highway N-05	On Motorway (M-09)
Midnight to 6 AM	11.1	17.0
6 AM to 12 Noon	26.1	24.8
12 Noon to 6 PM	38.1	28.8
6 PM to Midnight	24.7	29.4

10. Directional Distribution Factors (DDF):

21. Directional distribution is an important factor in Highway Capacity Analysis (HCA) with regard to capacity and level of service because of the interactive nature of directional flow.

22. **Tables 10.1 & 10.2** show the overall DDF as worked out for N-05 and Motorways. These ratios are on hourly basis in respect of each survey point and may be derived from the data in Annex-4.

Table 10.1
Directional Distribution Traffic Flow
(National Highway N-05)

S. No	Date	Day	Name of Section	Direction		Total	Weather
				UP	Down		
1	24-02-2012	Friday	Multan - Lodharan	4595 (47.8%)	5020 (52.2%)	9615	Fair
2	25-02-2012	Saturday	Lodharan - Bahawalpur	11865 (48.6%)	12534 (51.4%)	24399	Fair
3	28-02-2012	Tuesday	Bahawalpur - Sadiqabad	7641 (52.2%)	7001 (47.8%)	14642	Fair
4	01-03-2012	Thursday	Sadiqabad - Sukkur	9776 (49.7%)	9878 (50.3%)	19654	Fair
5	03-03-2012	Saturday	Sukkur- Hyderabad	8463 (41.8%)	11788 (58.2%)	20251	Fair

Table 10.2
Directional Distribution Traffic Flow
(Motorway M-09)

S.No	Date	Day	Name of Section	Direction		Total No of Vehicles	Weather
				UP	Down		
1	05-03-2012	Monday	Hyderabad to Nooriabad	11035 (54.3%)	9296 (45.7%)	20331	Fair
2	06-03-2012	Tuesday	Nooriabad to Karachi	9018 (44.2%)	11393 (55.8%)	20411	Fair

11. Ratio of 16-Hours Volume to 24-Hours Volume

23. A common approach to reduce survey cost and manpower requirement is to use the ratio of 16-hours volume to 24-hours volume. The normal practice is to take the period from 7 A.M to 11 P.M for 16-hours counts. However, reliable Composition Factors, must be used simultaneously if these ratios are applied. Though the reliability of data is affected by 10% - 20%, by this

method, the cost can be minimized significantly. The technique can only be recommended when a survey is carried out with limited resources and the complementary desired factors have already been derived from actual surveys. The following tables reveal these ratios.

Table 11.1

Ratio of 16- Hours Traffic to 24 Hours Traffic

(National Highway N-05)

S.No	Section	Total No of Vehicles		Total	16- Hour Count Ratio
		16 Hours Total From 0700 to 2300	8 Hours Total from 2300 to 0700		
1	Multan – Lodhran	8,520	1,095	9,615	1.128
2	Lodhran – Bahawalpur	21,491	2,908	24,399	1.135
3	Bahawalpur – Sadiqabad	11,951	2,691	14,642	1.225
4	Sadiqabad – Sukkur	16,646	3,008	19,654	1.180
5	Sukkur – Hyderabad	16,124	4,127	20,251	1.255

Table 11.2

Ratio of 16- Hours Traffic to 24 Hours Traffic

(Motorway M-09)

S.No	Section	Total No of Vehicles		Total	16- Hour Count Ratio
		16 Hours Total From 0700 to 2300	8 Hours Total from 2300 to 0700		
1	Hyderabad – Nooriabad	15,960	4,371	20,331	1.273
2	Nooriabad – Karachi	15,398	5,013	20,411	1.325

References

1. Masoud Bakht, NTRC Report No: 151, 1992
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ANNEX-1

OFFICE OF THE
INSPECTOR GENERAL OF POLICE
NATIONAL HIGHWAYS AND MOTORWAY POLICE
H. # 18, ST. # 3-B, F-10/2



No. 2(O)/RSW/11/934

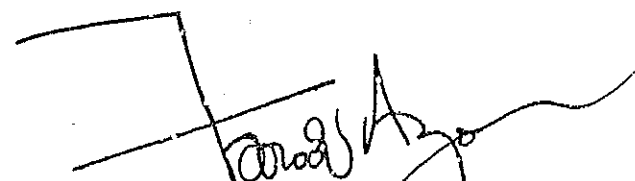
Islamabad, the 12th Aug, 2011

Subject: TRAFFIC COUNT SURVEY OF MOTORWAY & NATIONAL HIGHWAYS

Kindly refer to your office letter No. NTRC-15(16)/2008 dated 4th July, 2011 on the subject cited above.

2. The Competent authority has been pleased to approve that:
 - a) The survey of the remaining portion may also be concluded by NTRC. ✓
 - b) Almost three years have been completed since the last survey was done, therefore NTRC may be requested that on completion of survey of the remaining portion, the other portion may also be surveyed afresh.
 - c) The traffic count survey may be a continuous process and conducted regularly after every three years.

3. In light of above, it is requested that further necessary action may please taken in coordination with this office.


 (Farooq Azam), PSP
 AIG (Ops & Dev)
 9257705

Mr. Bashir Ahmad
Chief, NTRC,
Islamabad.

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAYS & MOTORWAY POLICE
LINES (HQ), NTRC BUILDING, SECTOR H-8/2,
ISLAMABAD

Annex I
(b)

No. /DSP/CPO (HQ)/NH&MP/12 / 988

Islamabad the 22-02-2012

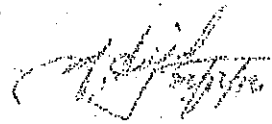
The Assistant Chief,
National Transport Research Center (NTRC),
Sector H-8/2,
ISLAMABAD.

Subject: ZONE-WISE TRAFFIC COUNTS ON N-5 AND M-9

Please refer to your office letter bearing No. NTRC-15(16)/2008 dated 7th February 2012 on the subject cited above.

2. In this regard, it is hereby informed that necessary arrangements as per your new tentative schedule are completed at the part of this department. Therefore, this office has no objection to proceed further into the matter.

3. Submitted for information and further necessary action, please.


DSP/CPO (HQ&T)
NH&MP, Islamabad

Copies to:

1. The AIG (G), NH&MP, Islamabad for favour of kind information, please.

ANNEX-II

Anne II

NATIONAL TRANSPORT RESEARCH CENTRE (NTRC)

CLASSIFIED TRAFFIC COUNT SURVEY FORM

SOUTH ZONE

Date: _____ Day: _____ Time Start: _____ Time End: _____
 Location: _____ Name of Surveyor: _____
 Weather: (Fair, Poor, Rainy, Foggy etc)

Direction: From	To																
	Motor-cycle	M.Cycle Rickshaw	Car/Jeep/Pajero/Taxi/Suzuki etc.	Suzuki Pickup (Small)	Pickup Large (Toyota, Nissan, Datsun etc)	Tractor without trolley	Wagon/Hiace/Transit (Up to 24 Seats)	Mini Truck	Bus, Coach (Greater than 24 Seats)	Truck (2 Axles)	Truck (3 Axles)	Tractor with Trolley	Truck (4 Axles)	Truck (5 Axles)	Truck (6 Axles)	Const. Machinery	Others
Time (Hours)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
0000-0100																	
0100-0200																	
0200-0300																	
0300-0400																	
0400-0500																	
0500-0600																	
0600-0700																	
0700-0800																	
0800-0900																	
0900-1000																	
1000-1100																	
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1200-1300																	
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1600-1700																	
1700-1800																	
1800-1900																	
1900-2000																	
2000-2100																	
2100-2200																	
2200-2300																	
2300-0000																	

ANNEX-III

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL TRANSPORT RESEARCH CENTRE (NTRC)
SECTOR H-8/2

SURVEY SCHEDULE AT N-05 AND M-9

S. No	Date	Survey Section	Survey Location
1	24-25 February, 2012	Multan – Lodhran Section (N-5)	Near Police Station, Jallah Arian
2	25-26 February, 2012	Lodhran – Bahawalpur Section (N-5)	Sutluj Toll Plaza
3	28-29 February, 2012	Bahawalpur – Sadiqabad Section (N-5)	Sadiqabad Toll Plaza
4	1-2 March, 2012	Sadiqabad – Sukkur Section (N-5)	Rohri by Pass Near Toll Plaza
5	3-4 March, 2012	Sukkur – Hyderabad Section (N-5)	Near New Saeedabad Toll Plaza
6	5-6 March, 2012	Hyderabad – Karachi M-9 (Jamshoro Toll Plaza)	Near Jamshoro Toll Plaza
7	6-7 March, 2012	Nooriabad – Karachi Section M-9	Near Police Station, Nooriabad

ANNEX-IV

NATIONAL TRANSPORT RESEARCH CENTRE

TABLE-1

CLASSIFIED TRAFFIC COUNT SURVEY AT JALLAH ARIAN N-05

ANNEX-IV

SURVEY FORM "E"
South Bound

Date: 24-25-2-2012 Day: FRIDAY

Location: Near P.S Jallah Arian
Direction From: Multan to Lodhran

Time (hours)	Motor-cycle	M.Cycle Rickshaw	Car/Jeep/Pajero/Taxi/Suzuki etc	Suzuki Pickup (Small)	Pickup Large (Toyota, Nissan, Datsun etc)	Tractor without trolley	Wagon/Hiace/Transit (upto 24 seats)	Mini Truck	Bus, Coach (Greater than 24 Seats)	Truck (2 Axles)	Truck (3 Axles)	Tractor with Trolley	Truck (4 Axles)	Truck (5 Axles)	Truck (6 Axles)	Const. Machinery	Other	Total
0000-0100	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
0100-0200	2	0	41	0	0	0	21	5	8	12	12	0	15	2	5	0	0	123
0200-0300	0	0	25	1	1	0	6	3	6	9	11	0	9	0	2	0	0	73
0300-0400	0	1	16	0	2	0	5	6	4	7	13	1	6	1	0	0	0	62
0400-0500	0	2	26	1	0	0	3	6	7	12	8	0	4	2	0	0	0	71
0500-0600	0	0	12	1	3	0	0	2	8	3	14	0	5	1	2	0	0	51
0600-0700	2	0	9	0	2	0	2	3	9	14	9	0	8	0	0	0	0	58
0700-0800	1	1	21	1	3	0	7	2	6	13	10	5	5	0	2	0	0	72
0800-0900	5	0	30	3	9	1	21	0	3	16	14	2	12	2	0	0	0	104
0900-1000	52	1	76	5	4	3	12	2	2	16	15	2	7	3	0	0	0	209
1000-1100	89	1	105	0	4	2	15	5	3	7	4	2	11	0	5	1	0	251
1100-1200	121	3	99	2	0	2	20	4	6	6	4	2	10	1	0	0	0	275
1200-1300	100	0	92	3	5	2	20	5	4	7	8	6	15	0	0	0	0	267
1300-1400	97	1	113	0	6	0	20	2	3	7	11	1	12	3	1	0	0	277
1400-1500	73	2	131	3	11	2	21	10	10	9	1	2	9	0	0	0	0	284
1500-1600	64	1	147	1	7	0	20	7	5	1	8	3	8	2	5	0	0	279
1600-1700	79	1	114	0	6	2	21	4	5	13	9	4	12	0	3	2	0	275
1700-1800	105	0	137	3	8	2	19	8	10	12	4	4	14	1	0	0	0	327
1800-1900	62	0	108	2	12	0	22	6	11	10	8	2	11	2	4	0	0	260
1900-2000	74	1	128	1	23	0	14	12	11	11	4	3	12	0	6	0	0	300
2000-2100	27	3	159	2	20	0	10	8	9	10	11	1	13	1	2	0	0	276
2100-2200	20	0	156	0	7	0	9	5	9	13	19	1	14	0	5	0	0	258
2200-2300	4	0	104	1	4	0	11	7	1	17	15	2	14	1	6	0	0	187
2300-0000	0	0	63	0	2	5	3	5	6	15	4	0	4	1	6	0	0	114
Total	979	19	1972	33	143	22	288	123	150	257	236	43	244	24	59	3	0	4595

NATIONAL TRANSPORT RESEARCH CENTRE

TABLE-2

CLASSIFIED TRAFFIC COUNT SURVEY AT JALLAH ARIAN N-05

ANNEX-IV

SURVEY FORM "F"
South Bound

Date: 24-25-2-2012 Day: FRIDAY

Location: Near P.S Jallah Arian
Direction From: Lodhran To Multan

Time (Hours)	Motor-cycle	M.Cycle Rickshaw	Car/Jeep/Pajero/Taxi/Suzuki etc	Suzuki Pickup (Small)	Pickup Large (Toyota, Nissan, Datsun etc)	Tractor without trolley	Wagon / Hiace/ Transit (upto 24 seats)	Mini Truck	Bus, Coach (Greater than 24 Seats)	Truck (2 Axles)	Truck (3 Axles)	Tractor with Trolley	Truck (4 Axles)	Truck (5 Axles)	Truck (6 Axles)	Const. Machinery	Other	Total
0000-0100	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	74
0100-0200	0	0	41	2	3	0	0	2	2	12	7	0	5	0	0	0	0	57
0200-0300	0	0	31	0	1	0	1	0	7	4	6	0	6	0	0	1	0	50
0300-0400	0	0	29	0	5	0	2	0	3	7	3	0	1	0	0	0	0	36
0400-0500	0	0	14	0	1	0	0	1	2	7	6	0	3	0	2	0	0	32
0500-0600	0	0	12	0	0	0	1	2	4	2	6	0	2	0	3	0	0	41
0600-0700	5	0	14	1	1	0	2	2	1	5	13	0	1	0	1	0	0	64
0700-0800	15	0	25	0	4	0	2	2	5	7	6	0	7	0	1	0	0	112
0800-0900	74	5	38	2	1	1	6	2	5	11	8	1	17	1	3	1	0	242
0900-1000	90	2	99	2	7	1	20	3	6	9	2	3	4	3	4	0	0	266
1000-1100	105	1	96	3	8	1	19	4	10	9	6	3	13	1	1	0	0	299
1100-1200	137	2	125	2	4	0	15	5	6	12	8	2	5	2	7	0	0	356
1200-1300	149	1	150	3	6	4	14	2	6	9	7	7	4	1	4	0	0	384
1300-1400	110	2	162	2	4	0	17	5	6	7	9	4	14	0	4	0	0	339
1400-1500	100	2	185	2	8	0	13	1	5	7	0	2	2	1	1	0	0	340
1500-1600	149	0	169	3	8	0	23	6	4	8	4	1	11	1	0	0	0	417
1600-1700	109	5	186	1	8	3	25	4	13	9	5	2	9	1	2	0	0	366
1700-1800	128	0	187	3	11	2	13	5	5	10	3	3	10	0	0	0	0	346
1800-1900	110	3	156	2	9	0	17	6	2	12	5	3	3	1	2	0	0	391
1900-2000	75	3	214	1	11	1	12	4	3	14	8	3	4	0	3	0	0	285
2000-2100	21	1	153	1	5	1	9	6	3	11	1	3	8	0	5	1	0	193
2100-2200	6	0	117	1	8	1	11	4	5	13	3	2	4	1	1	0	0	120
2200-2300	2	0	70	0	3	0	4	6	2	14	5	1	5	1	3	0	0	121
2300-0000	0	0	59	0	6	1	5	5	8	20	6	1	5	2	1	0	0	89
Total	1385	27	2381	31	125	16	233	84	123	226	127	46	146	17	50	3	0	5020

NATIONAL TRANSPORT RESEARCH CENTRE

ANNEX-IV

TABLE-3

Summary of Multan - Lodhran Section N-5 at Jhallan Arian

Date 24-25-2-2012 Day: FRIDAY

Location Multan to Lodhran Section (both side)

Time (Hours)	Motor-cycle	M.Cycle Rickshaw	Car/Jeep/Pajero/Taxi/Suzuki etc	Suzuki Pickup (Small)	Pickup Large (Toyota, Nissan, Datsun etc)	Tractor without trolley	Wagon / Hiace/ Transit (upto 24 seats)	Mini Truck	Bus, Coach (Greater than 24 Seats)	Truck (2 Axles)	Truck (3 Axles)	Tractor with Trolley	Truck (4 Axles)	Truck (5 Axles)	Truck (6 Axles)	Const. Machinery	Other	Total
0000-0100	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	197
0100-0200	2	0	82	2	3	0	21	7	10	24	19	0	20	2	5	0	0	130
0200-0300	0	0	56	1	2	0	7	3	13	13	17	0	15	0	2	1	0	112
0300-0400	0	1	45	0	7	0	7	6	7	14	16	1	7	1	0	0	0	107
0400-0500	0	2	40	1	1	0	3	7	9	19	14	0	7	2	2	0	0	83
0500-0600	0	0	24	1	3	0	1	4	12	5	20	0	7	1	5	0	0	99
0600-0700	2	0	23	1	3	0	4	5	10	19	22	0	9	0	1	0	0	136
0700-0800	6	1	46	1	7	0	4	4	11	20	16	5	12	0	3	0	0	216
0800-0900	20	0	68	5	10	2	13	2	8	27	22	3	29	3	3	1	0	451
0900-1000	126	6	175	7	11	4	41	5	8	25	17	5	11	6	4	0	0	517
1000-1100	179	3	201	3	12	3	31	9	13	16	10	5	24	1	6	1	0	574
1100-1200	226	4	224	4	4	2	30	9	12	18	12	4	15	3	7	0	0	623
1200-1300	237	2	242	6	11	6	34	7	10	16	15	13	19	1	4	0	0	661
1300-1400	246	2	275	2	10	0	37	7	9	14	20	5	26	3	5	0	0	623
1400-1500	183	4	316	5	19	2	34	11	15	16	1	4	11	1	1	0	0	619
1500-1600	164	3	316	4	15	0	43	13	9	9	12	4	19	3	5	0	0	692
1600-1700	228	1	300	1	14	5	46	8	18	22	14	6	21	1	5	2	0	693
1700-1800	214	5	324	6	19	4	32	13	15	22	7	7	24	1	0	0	0	606
1800-1900	190	0	264	4	21	0	39	12	13	22	13	5	14	3	6	0	0	691
1900-2000	184	4	342	2	34	1	26	16	14	25	12	6	16	0	9	0	0	561
2000-2100	102	6	312	3	25	1	19	14	12	21	12	4	21	1	7	1	0	451
2100-2200	41	1	273	1	15	1	20	9	14	26	22	3	18	1	6	0	0	307
2200-2300	10	0	174	1	7	0	15	13	3	31	20	3	19	2	9	0	0	235
2300-0000	2	0	122	0	8	6	8	10	14	35	10	1	9	3	7	0	0	231
Total	2364	46	4353	64	268	38	521	207	273	483	363	89	390	41	109	6	0	9615

NATIONAL TRANSPORT RESEARCH CENTRE

TABLE-4

CLASSIFIED TRAFFIC COUNT SURVEY AT SUTLUJ TOLL PLAZA AT N-5

ANNEX-IV

SURVEY FORM "E"
South Bound

Date 25-26-2-2012 Day: Saturday

Location Near Sutluj toll Plaza
Direction From: Lodhran to Bahawalpur

Time (Hours)	Motor-cycle	M.Cycle Rickshaw	Car/Jeep/Pajero/Taxi/Suzuki etc	Suzuki Pickup (Small)	Pickup Large (Toyota, Nissan, Datsun etc)	Tractor without trolley	Wagon/Hiace/Transit (upto 24 seats)	Mini Truck	Bus, Coach (Greater than 24 Seats)	Truck (2 Axles)	Truck (3 Axles)	Tractor with Trolley	Truck (4 Axles)	Truck (5 Axles)	Truck (6 Axles)	Const. Machinery	Other	Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
0000-0100	4	3	61	0	3	1	6	4	4	32	34	10	37	5	23	0	0	227
0100-0200	2	2	85	1	6	0	7	9	15	37	22	2	36	2	4	0	0	230
0200-0300	1	2	43	0	6	2	5	7	27	19	18	0	17	7	5	0	0	159
0300-0400	1	1	53	1	2	0	2	9	26	30	21	0	18	10	9	0	0	183
0400-0500	1	2	20	2	1	1	1	4	18	16	20	0	22	2	2	0	0	112
0500-0600	7	2	12	2	7	1	5	5	20	17	30	2	22	1	4	0	0	137
0600-0700	15	16	53	2	7	0	3	3	35	21	17	1	31	4	9	2	0	219
0700-0800	32	18	52	6	11	0	11	12	9	10	22	6	27	4	5	0	0	225
0800-0900	198	36	150	5	7	0	46	8	3	15	22	6	38	4	8	0	0	546
0900-1000	215	53	168	6	10	0	38	9	7	17	28	4	49	2	5	0	0	611
1000-1100	289	67	217	9	10	2	44	7	9	15	29	2	65	9	8	0	0	782
1100-1200	271	66	211	9	7	0	59	13	14	21	23	5	55	7	5	0	0	766
1200-1300	300	55	260	8	11	1	39	11	23	25	24	3	46	5	7	0	0	818
1300-1400	274	27	281	8	7	0	49	8	15	16	14	8	54	2	10	0	0	773
1400-1500	241	51	257	9	8	0	40	10	10	18	14	8	39	7	11	0	0	723
1500-1600	230	54	224	9	12	0	44	6	18	20	16	18	48	2	8	0	0	709
1600-1700	270	42	247	6	12	0	45	6	16	34	20	11	45	7	7	0	0	768
1700-1800	277	55	251	10	10	0	30	11	25	17	16	7	52	4	8	1	0	774
1800-1900	230	61	310	10	11	0	29	12	26	24	25	5	39	14	15	0	0	811
1900-2000	138	45	210	12	17	0	31	14	19	28	18	12	46	3	9	1	0	603
2000-2100	98	10	335	16	9	1	37	7	18	36	18	8	41	8	16	0	0	658
2100-2200	42	14	285	5	7	0	10	5	10	21	25	8	35	3	6	0	0	476
2200-2300	14	2	140	5	5	0	14	9	16	36	22	6	40	5	8	0	0	322
2300-0000	8	2	123	2	5	0	5	9	9	17	14	2	31	5	1	0	0	233
Total	3158	686	4048	143	191	9	600	198	392	542	512	134	933	122	193	4	0	11865

NATIONAL TRANSPORT RESEARCH CENTRE

ANNEX-IV

TABLE-5

CLASSIFIED TRAFFIC COUNT SURVEY AT SUTLUJ TOLL PLAZA AT N-5

SURVEY FORM "F"
South Bound

Date: 25-26-2-2012 Day: Saturday

Location: Near Sutluj toll Plaza
Direction From: Bahawalpur to Lodhran

Time (Hours)	Motor-cycle	M.Cycle Rickshaw	Car/Jeep/Fajero/Taxi/Suzuki etc	Suzuki Pickup (Small)	Pickup Large (Toyota, Nissan, Datsun etc)	Tractor without trolley	Wagon/Hiace/Transit (upto 24 seats)	Mini Truck	Bus, Coach (Greater than 24 Seats)	Truck (2 Axles)	Truck (3 Axles)	Tractor With Trolley	Truck (4 Axles)	Truck (5 Axles)	Truck (6 Axles)	Const. Machinery	Other	Total
0000-0100	10	1	59	3	6	1	4	11	17	20	18	9	28	5	16	0	0	208
0100-0200	2	1	71	0	5	0	5	10	13	15	12	1	26	3	15	0	0	179
0200-0300	2	2	37	1	2	0	2	5	7	17	7	0	13	14	13	0	0	122
0300-0400	1	0	20	0	3	0	4	12	8	16	4	1	30	4	5	0	0	108
0400-0500	1	1	19	1	2	0	0	3	6	9	20	3	23	3	8	0	0	99
0500-0600	5	0	27	7	3	0	2	10	5	15	10	0	34	7	23	0	0	148
0600-0700	19	9	62	6	2	0	13	8	15	30	12	6	41	5	15	0	0	243
0700-0800	76	13	112	2	17	0	19	6	11	18	16	3	58	8	9	0	0	368
0800-0900	206	28	126	8	6	0	24	2	21	17	28	1	55	15	16	0	0	553
0900-1000	224	37	239	17	7	0	26	4	9	16	46	3	72	6	15	0	0	721
1000-1100	228	27	175	14	11	1	31	6	13	26	24	0	50	0	21	0	0	627
1100-1200	308	76	272	21	22	3	54	11	9	34	36	3	63	6	26	0	0	944
1200-1300	288	45	239	13	15	2	43	7	12	185	25	3	47	4	11	0	0	939
1300-1400	460	81	336	16	19	0	48	6	8	23	35	3	35	7	15	0	0	1092
1400-1500	389	47	444	15	24	0	42	5	12	24	18	3	36	3	12	0	0	1074
1500-1600	280	44	275	17	19	1	32	13	7	26	26	4	31	11	11	1	0	798
1600-1700	288	43	265	10	17	0	46	11	13	27	10	4	37	3	19	0	0	793
1700-1800	161	25	153	19	5	0	25	7	6	21	17	8	34	2	15	0	0	498
1800-1900	208	22	227	20	19	0	25	15	7	35	23	6	36	9	16	0	0	668
1900-2000	166	21	194	20	16	0	20	11	10	27	27	7	42	14	23	0	0	598
2000-2100	129	22	244	4	2	2	15	6	14	31	26	9	43	6	10	0	0	563
2100-2200	94	21	263	9	2	0	10	10	21	26	17	12	25	8	10	1	0	529
2200-2300	39	8	177	11	4	1	10	9	15	23	15	7	20	8	14	0	0	361
2300-0000	17	4	130	5	8	0	4	14	24	26	19	8	26	7	9	0	0	301
Total	3601	578	4166	239	236	11	504	202	283	707	491	104	905	158	347	2	0	12534

NATIONAL TRANSPORT RESEARCH CENTRE

ANNEX-IV

Summary of Lodhran - Bahawalpur Section N-5 at Sutluj Toll Plaza

Date: 25-26-2-2012 Day: Saturday

Location: Lodhran to Bahawalpur (both side)

Time (Hours)	Motor-cycle	M.Cycle Rickshaw	Car/Jeep/Pajero/Taxi/Suzuki etc	Suzuki Pickup (Small)	Pickup Large (Toyota, Nissan, Datsun etc)	Tractor without trolley	Wagon / Hicee/ Transit (upto 24 seats)	Mini Truck	Bus, Coach (Greater than 24 Seats)	Truck (2 Axles)	Truck (3 Axles)	Tractor with Trolley	Truck (4 Axles)	Truck (5 Axles)	Truck (6 Axles)	Const. Machinery	Other	Total
0000-0100	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
0100-0200	14	4	120	3	9	2	10	15	21	52	52	19	65	10	39	0	0	435
0200-0300	4	3	156	1	11	0	12	19	28	52	34	3	62	5	19	0	0	409
0300-0400	3	4	80	1	8	2	7	12	34	36	25	0	30	21	18	0	0	281
0400-0500	2	1	73	1	5	0	6	21	34	46	25	1	48	14	14	0	0	291
0500-0600	2	3	39	3	3	1	1	7	24	25	40	3	45	5	10	0	0	211
0600-0700	12	2	39	9	10	1	7	15	25	32	40	2	56	8	27	0	0	285
0700-0800	34	25	115	8	9	0	16	11	50	51	29	7	72	9	24	2	0	462
0800-0900	108	31	164	8	28	0	30	18	20	28	38	9	85	12	14	0	0	593
0900-1000	404	64	276	13	13	0	70	10	24	32	50	7	93	19	24	0	0	1099
1000-1100	439	90	407	23	17	0	64	13	16	33	74	7	121	8	20	0	0	1332
1100-1200	517	94	392	23	21	3	75	13	22	41	53	2	115	9	29	0	0	1409
1200-1300	579	142	483	30	29	3	113	24	23	55	59	8	118	13	31	0	0	1710
1300-1400	588	100	499	21	26	3	82	18	35	210	49	6	93	9	18	0	0	1757
1400-1500	734	108	617	24	26	0	97	14	23	39	49	11	89	9	25	0	0	1865
1500-1600	630	98	701	24	32	0	82	15	22	42	32	11	75	10	23	0	0	1797
1600-1700	510	98	499	26	31	1	76	19	25	46	42	22	79	13	19	1	0	1507
1700-1800	558	85	512	16	29	0	91	17	29	61	30	15	82	10	26	0	0	1561
1800-1900	438	80	404	29	15	0	55	18	31	38	33	15	86	6	23	1	0	1272
1900-2000	438	83	537	30	30	0	54	27	33	59	48	11	75	23	31	0	0	1479
2000-2100	304	66	404	32	33	0	51	25	29	55	45	19	88	17	32	1	0	1201
2100-2200	227	32	579	20	11	3	52	13	32	67	44	17	84	14	26	0	0	1221
2200-2300	136	35	548	14	9	0	20	15	31	47	42	20	60	11	16	1	0	1005
2300-0000	53	10	317	16	9	1	24	18	31	59	37	13	60	13	22	0	0	683
Total	6759	1264	8214	382	427	20	1104	400	675	1249	1003	238	1838	280	540	6	0	24399

NATIONAL TRANSPORT RESEARCH CENTRE

ANNEX-IV

TABLE-7

CLASSIFIED TRAFFIC COUNT SURVEY ON SADIQABAD TOLL PLAZA-N-05

Date 28-29-02-2012 Day: Tuesday

SURVEY FORM "E"
South Bound

Location Sadiqabad Toll Plaza,
Direction From: Bahawalpur to Sadiqabad

Time (Hours)	Motor-cycle	M.Cycle Rickshaw	Car/Jeep/Pajero/Taxi/Suzuki etc	Suzuki Pickup (Small)	Pickup Large (Toyota, Nissan, Datsun etc)	Tractor without trolley	Wagon / Hiace/ Transit (upto 24 seats)	Mini Truck	Bus, Coach (Greater than 24 Seats)	Truck (2 Axles)	Truck (3 Axles)	Tractor with Trolley	Truck (4 Axles)	Truck (5 Axles)	Truck (6 Axles)	Const. Machinery	Other	Total
0000-0100	2	0	19	0	16	0	1	6	15	20	19	1	61	7	9	0	0	176
0100-0200	0	0	13	0	4	0	2	8	19	32	28	5	57	6	12	0	0	186
0200-0300	2	0	17	0	2	0	15	9	13	22	15	1	52	7	6	3	0	164
0300-0400	0	0	15	0	8	0	2	6	19	24	21	1	36	8	15	0	0	155
0400-0500	1	0	17	3	0	1	4	5	12	22	16	1	42	7	10	0	0	141
0500-0600	4	1	15	1	2	0	8	5	24	24	21	2	31	11	12	0	0	161
0600-0700	17	1	20	4	1	0	4	1	20	23	34	1	55	7	14	0	0	202
0700-0800	80	10	45	13	9	0	21	16	40	32	30	0	60	9	17	0	0	382
0800-0900	157	12	59	3	6	0	11	3	13	38	29	2	50	5	11	0	0	399
0900-1000	141	12	81	7	5	0	4	1	16	30	29	5	52	7	15	0	0	405
1000-1100	146	4	86	5	6	0	8	3	13	26	25	10	46	4	5	0	0	387
1100-1200	154	9	119	4	6	0	9	0	14	11	32	4	55	8	16	0	0	441
1200-1300	151	4	113	5	3	0	8	4	10	17	27	4	42	1	14	0	0	403
1300-1400	143	9	133	6	7	0	15	4	7	16	20	2	54	3	12	0	0	431
1400-1500	140	20	106	5	9	1	11	5	15	28	21	6	49	2	8	0	0	426
1500-1600	116	6	91	8	14	1	12	5	11	20	25	4	69	6	22	0	0	410
1600-1700	143	10	134	7	7	1	15	3	3	28	16	8	80	6	6	0	0	457
1700-1800	133	9	123	5	7	2	16	2	15	36	35	7	81	1	18	0	0	490
1800-1900	139	11	104	17	11	4	12	3	12	43	32	7	66	2	13	0	0	476
1900-2000	37	6	47	3	5	1	4	4	13	22	30	3	60	2	14	0	0	251
2000-2100	28	6	83	5	7	0	6	7	17	30	45	6	32	3	10	0	0	285
2100-2200	20	2	55	2	9	3	6	4	31	23	52	7	56	5	6	0	0	281
2200-2300	9	2	54	2	8	0	11	3	34	40	29	9	45	10	21	0	0	277
2300-0000	5	0	39	0	9	0	3	4	34	34	32	2	63	5	15	0	0	245
Total	1768	134	1588	105	161	14	208	111	420	641	663	98	1294	132	301	3	0	7641

NATIONAL TRANSPORT RESEARCH CENTRE

ANNEX-IV

TABLE-8

CLASSIFIED TRAFFIC COUNT SURVEY ON SADIQABAD TOLL PLAZA-N-05

SURVEY FORM "E"
South Bound

Date: 28-29-02-2012 Day: Tuesday

Location: Sadiqabad Toll Plaza,
Direction From: Sadiqabad to Bahawalpur

Time (Hours)	Motor-cycle	M.Cycle Rickshaw	Car/Jeep/Pajero/Taxi/Suzuki etc	Suzuki Pickup (Small)	Pickup Large (Toyota, Nissan, Datsun etc)	Tractor without trolley	Wagon / Hiace/ Transit (upto 24 seats)	Mini Truck	Bus, Coach (Greater than 24 Seats)	Truck (2 Axles)	Truck (3 Axles)	Tractor with Trolley	Truck (4 Axles)	Truck (5 Axles)	Truck (6 Axles)	Const. Machinery	Other	Total
0000-0100	0	0	34	1	5	0	1	6	9	29	9	0	49	1	17	0	0	161
0100-0200	0	0	14	0	4	0	0	4	11	18	23	0	56	11	13	0	0	154
0200-0300	1	0	19	0	0	0	1	1	10	11	46	0	74	3	12	0	0	178
0300-0400	0	0	14	0	1	0	1	2	10	28	20	3	68	4	10	0	0	161
0400-0500	0	0	14	0	1	0	1	1	21	20	23	0	29	1	12	0	0	123
0500-0600	2	1	9	0	0	0	1	1	17	15	18	1	33	4	9	0	0	111
0600-0700	20	2	26	2	3	0	9	1	25	29	13	7	43	4	5	1	0	190
0700-0800	40	3	28	0	3	0	18	3	17	26	10	8	44	1	13	0	0	214
0800-0900	129	6	58	5	1	0	10	4	14	20	4	5	17	0	9	0	0	282
0900-1000	131	11	73	4	3	0	11	3	15	32	16	3	10	3	10	0	0	325
1000-1100	134	13	87	5	3	0	10	11	22	28	26	4	18	3	19	0	0	383
1100-1200	164	7	104	10	2	0	10	11	16	39	33	4	11	5	8	0	0	424
1200-1300	174	6	96	10	4	0	9	5	12	29	29	4	17	6	8	0	0	409
1300-1400	155	14	144	8	7	1	5	7	13	24	28	6	17	6	15	0	0	450
1400-1500	152	12	81	6	5	0	9	9	13	31	19	3	19	6	7	0	0	372
1500-1600	167	6	105	6	4	2	11	16	13	44	21	6	31	5	7	0	0	444
1600-1700	159	18	124	11	6	1	9	13	19	43	20	7	31	5	16	0	0	482
1700-1800	165	14	112	7	2	2	4	14	26	31	20	7	27	5	10	0	0	446
1800-1900	172	11	104	5	4	0	2	9	17	36	24	4	18	2	4	0	0	412
1900-2000	91	3	80	4	15	2	3	4	21	44	63	5	33	4	13	0	0	385
2000-2100	30	5	65	8	6	4	2	1	27	38	43	3	40	7	17	0	0	296
2100-2200	20	2	56	3	8	2	3	1	12	22	25	3	54	0	8	0	0	219
2200-2300	12	3	45	0	6	0	6	2	12	30	19	2	46	2	12	0	0	197
2300-0000	4	0	41	0	4	1	1	4	5	28	14	6	54	10	10	1	0	183
Total	1922	137	1533	95	97	15	137	133	377	695	566	91	839	98	264	2	0	7001

NATIONAL TRANSPORT RESEARCH CENTRE

ANNEX-IV

TABLE-9

Summary of Bahawalpur - Sadiqabad Section on N-05 at Sadiqabad Toll Plaza

Date 28-29-02-2012 Day: Tuesday

Start Time 0800

End Time 0800 (24 hrs)

Location Sadiqabad Toll Plaza, (Both side)

Weather : (Fair, Poor, Rainy, Foggy etc)

Time (Hours)	Motor-cycle	M.Cycle Rickshaw	Car/Jeep/Pajero/Taxi/Suzuki etc	Suzuki Pickup (Small)	Pickup Large (Toyota, Nissan, Datsun etc)	Tractor without trolley	Wagon/ Hlaice/ Transit (upto 24 seats)	Mini Truck	Bus, Coach (Greater than 24 Seats)	Truck (2 Axles)	Truck (3 Axles)	Tractor with Trolley	Truck (4 Axles)	Truck (5 Axles)	Truck (6 Axles)	Const. Machinery	Other	Total
0000-0100	2	0	53	1	21	0	2	12	24	49	28	1	110	8	26	0	0	337
0100-0200	0	0	27	0	8	0	2	12	30	50	51	5	113	17	25	0	0	340
0200-0300	3	0	36	0	2	0	16	10	23	33	61	1	126	10	18	3	0	342
0300-0400	0	0	29	0	9	0	3	8	29	52	41	4	104	12	25	0	0	316
0400-0500	1	0	31	3	1	1	5	6	33	42	39	1	71	8	22	0	0	264
0500-0600	6	2	24	1	2	0	9	6	41	39	39	3	64	15	21	0	0	272
0600-0700	37	3	46	6	4	0	13	2	45	52	47	8	98	11	19	1	0	392
0700-0800	120	13	73	13	12	0	39	19	57	58	40	8	104	10	30	0	0	596
0800-0900	286	18	117	8	7	0	21	7	27	58	33	7	67	5	20	0	0	681
0900-1000	272	23	154	11	8	0	15	4	31	62	45	8	62	10	25	0	0	730
1000-1100	280	17	173	10	9	0	18	14	35	54	51	14	64	7	24	0	0	770
1100-1200	318	16	223	14	8	0	19	11	30	50	65	8	66	13	24	0	0	865
1200-1300	325	10	209	15	7	0	17	9	22	46	56	8	59	7	22	0	0	812
1300-1400	298	23	277	14	14	1	20	11	20	40	48	8	71	9	27	0	0	881
1400-1500	292	32	187	11	14	1	20	14	28	59	40	9	68	8	15	0	0	798
1500-1600	283	12	196	14	18	3	23	21	24	64	46	10	100	11	29	0	0	854
1600-1700	302	28	258	18	13	2	24	16	22	71	36	15	111	11	22	0	0	949
1700-1800	298	23	235	12	9	4	20	16	41	67	55	14	108	6	28	0	0	936
1800-1900	311	22	208	22	15	4	14	12	29	79	56	11	84	4	17	0	0	888
1900-2000	128	9	127	7	20	3	7	8	34	66	93	8	93	6	27	0	0	636
2000-2100	58	11	148	13	13	4	8	8	44	68	88	9	72	10	27	0	0	581
2100-2200	40	4	111	5	17	5	9	5	43	45	77	10	110	5	14	0	0	500
2200-2300	21	5	99	2	14	0	17	5	46	70	48	11	91	12	33	0	0	474
2300-0000	9	0	80	0	13	1	4	8	39	62	46	8	117	15	25	1	0	428
Total	3690	271	3121	200	258	29	345	244	797	1336	1229	189	2133	230	565	5	0	14642

NATIONAL TRANSPORT RESEARCH CENTRE

ANNEX-IV

TABLE-10

CLASSIFIED TRAFFIC COUNT SURVEY ON ROHRI TOLL PLAZA N-05

SURVEY FORM "E"
South Bound

Date 01-02-03-2012 Day: Thursday

Location Rohri Toll Plaza,
Direction From: Sadiqabad to Sukkur

Time (Hours)	Motor-cycle	M.Cycle Rickshaw	Car/Jeep/Pajero/Taxi/Suzuki etc	Suzuki Pickup (Small)	Pickup Large (Toyota, Nissan, Datsun etc)	Tractor without trolley	Wagon / Hiace/ Transit (upto 24 seats)	Mini Truck	Bus, Coach (Greater than 24 Seats)	Truck (2 Axles)	Truck (3 Axles)	Tractor with Trolley	Truck (4 Axles)	Truck (5 Axles)	Truck (6 Axles)	Const. Machinery	Other	Total
0000-0100	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	248
0100-0200	2	0	26	0	2	1	10	8	68	25	30	2	59	4	11	0	0	200
0200-0300	0	1	11	1	1	1	10	1	56	23	23	3	54	2	13	0	0	148
0300-0400	0	0	7	0	1	1	5	2	44	19	21	1	37	3	7	0	0	171
0400-0500	4	0	19	0	2	2	1	7	34	20	33	4	35	2	8	0	0	228
0500-0600	6	4	23	0	3	6	14	3	44	24	24	10	63	2	2	0	0	182
0600-0700	12	6	27	7	3	4	9	4	26	13	31	0	36	2	2	0	0	207
0700-0800	25	4	32	1	2	7	18	12	24	7	17	4	42	6	6	0	0	348
0800-0900	80	16	55	4	4	4	36	10	14	33	30	0	49	3	10	0	0	415
0900-1000	116	3	107	3	3	4	46	6	3	29	15	6	64	3	7	0	0	548
1000-1100	179	4	130	1	4	3	52	10	4	32	33	10	82	4	0	0	0	639
1100-1200	179	3	169	0	5	12	62	3	8	35	36	17	88	6	16	0	0	619
1200-1300	221	3	185	11	11	4	61	7	9	28	25	5	34	5	10	0	0	726
1300-1400	283	3	210	1	9	1	59	6	7	41	25	9	54	7	10	1	0	723
1400-1500	242	1	237	3	9	0	46	4	9	43	34	17	57	6	14	0	1	657
1500-1600	198	3	200	6	7	3	49	9	5	43	33	12	64	8	17	0	0	594
1600-1700	187	2	166	9	14	0	43	2	4	45	24	23	54	5	16	0	0	492
1700-1800	145	4	138	5	7	0	39	6	7	41	20	19	40	7	14	0	0	517
1800-1900	159	3	150	2	4	6	33	1	6	32	28	8	72	4	9	0	0	580
1900-2000	182	4	170	5	5	3	24	2	6	34	37	15	73	6	13	1	0	594
2000-2100	102	35	158	24	14	1	14	23	3	51	41	12	72	20	22	2	0	303
2100-2200	17	7	81	5	5	0	6	5	5	37	36	16	55	9	19	0	0	247
2200-2300	12	0	53	8	5	2	5	11	15	29	19	9	64	4	11	0	0	228
2300-0000	7	0	47	5	2	7	15	9	21	36	23	2	42	6	6	0	0	162
Total	2360	106	2427	102	129	74	660	155	444	735	653	206	1340	128	251	4	2	9776

NATIONAL TRANSPORT RESEARCH CENTRE

ANNEX-IV

TABLE-11

CLASSIFIED TRAFFIC COUNT SURVEY ON ROHRI TOLL PLAZA N-05

SURVEY FORM "E"
South Bound

Date: 01-02-03-2012 Day: Thursday

Location Rohri Toll Plaza,
Direction From: Sukkur to Sadiqabad

Time (Hours)	Motor-cycle	M.Cycle Rickshaw	Car/Jeep/Pajero/Taxi/Suzuki etc	Suzuki Pickup (Small)	Pickup Large (Toyota, Nissan, Datsun etc)	Tractor without trolley	Wagon / Hiace/ Transit (upto 24 seats)	Mini Truck	Bus, Coach (Greater than 24 Seats)	Truck (2 Axles)	Truck (3 Axles)	Tractor with Trolley	Truck (4 Axles)	Truck (5 Axles)	Truck (6 Axles)	Const. Machinery	Other	Total
0000-0100	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	207
0100-0200	7	0	14	0	2	1	3	5	19	35	26	7	57	5	26	0	0	181
0200-0300	2	0	19	0	5	0	4	6	19	29	21	3	49	3	21	0	0	205
0300-0400	0	0	13	0	6	0	7	3	12	54	42	1	54	1	12	0	0	117
0400-0500	1	0	12	0	2	0	1	3	28	21	11	0	24	3	11	0	0	153
0500-0600	1	0	13	1	4	0	0	2	14	36	35	0	34	2	11	0	0	233
0600-0700	1	0	14	0	3	0	0	3	15	58	56	1	46	14	21	1	0	205
0700-0800	8	0	13	4	1	0	2	4	7	46	45	3	33	21	18	0	0	225
0800-0900	31	0	23	3	11	0	8	10	17	31	29	3	45	5	9	0	0	421
0900-1000	131	3	96	14	5	3	15	5	14	24	25	11	62	5	8	0	0	512
1000-1100	173	3	114	6	10	0	25	13	11	32	27	8	69	5	16	0	0	524
1100-1200	177	0	130	4	8	0	21	11	7	40	34	9	68	5	10	0	0	510
1200-1300	74	2	127	9	13	0	28	6	10	42	94	15	72	8	10	0	0	520
1300-1400	163	2	149	9	12	2	29	6	8	32	47	7	29	8	17	0	0	680
1400-1500	217	4	179	12	10	3	36	12	15	32	61	18	59	13	9	0	0	673
1500-1600	207	5	166	7	13	1	23	16	10	46	73	12	62	13	19	0	0	653
1600-1700	235	4	181	3	18	2	24	15	12	36	32	13	54	12	12	0	0	669
1700-1800	244	7	182	7	10	6	21	8	13	27	36	13	65	10	20	0	0	716
1800-1900	231	3	181	17	16	2	28	6	12	42	62	9	66	16	25	0	0	817
1900-2000	252	11	244	27	13	2	31	8	20	45	33	11	84	11	25	0	0	495
2000-2100	82	2	134	15	7	0	18	4	9	55	36	15	92	6	20	0	0	411
2100-2200	31	4	154	16	2	0	4	3	6	37	34	12	94	0	14	0	0	354
2200-2300	19	0	104	9	2	0	0	3	14	40	34	10	96	14	9	0	0	236
2300-0000	6	1	68	5	7	0	3	5	13	19	28	3	59	3	16	0	0	161
Total	2297	53	2363	169	187	22	331	159	310	879	937	188	1425	184	373	1	0	9878

NATIONAL TRANSPORT RESEARCH CENTRE

ANNEX-IV

TABLE-12

Summary of Sadigabad - Sukkur Section on N-05 at Rohri Toll Plaza

Date: 01-02-03-2012 Day: Thursday

Location: Rohri Toll Plaza, (Both side)

Time (Hours)	Motor-cycle	M.Cycle Rickshaw	Car/Jeep/Pajero/Taxi/Suzuki etc	Suzuki Pickup (Small)	Pickup Large (Toyota, Nissan, Datsun etc)	Tractor without trolley	Wagon / Hiace/ Transit (upto 24 seats)	Mini Truck	Bus, Coach (Greater than 24 Seats)	Truck (2 Axles)	Truck (3 Axles)	Tractor with Trolley	Truck (4 Axles)	Truck (5 Axles)	Truck (6 Axles)	Const. Machinery	Other	Total
0000-0100	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
0100-0200	9	0	40	0	4	2	13	13	87	60	56	9	116	9	37	0	0	455
0200-0300	2	1	30	1	6	1	14	7	75	52	44	6	103	5	34	0	0	381
0300-0400	0	0	20	0	7	1	12	5	56	73	63	2	91	4	19	0	0	353
0400-0500	5	0	31	0	4	2	2	10	62	41	44	4	59	5	19	0	0	288
0500-0600	7	4	36	1	7	6	14	5	58	60	59	10	97	4	13	0	0	381
0600-0700	13	6	41	7	6	4	9	7	41	71	87	1	82	16	23	1	0	415
0700-0800	33	4	45	5	3	7	20	16	31	53	62	7	75	27	24	0	0	412
0800-0900	111	16	78	7	15	4	44	20	31	64	59	3	94	8	19	0	0	573
0900-1000	247	6	203	17	8	7	61	11	17	53	40	17	126	8	15	0	0	836
1000-1100	352	7	244	7	14	3	77	23	15	64	60	18	151	9	16	0	0	1060
1100-1200	356	3	299	4	13	12	83	14	15	75	70	26	156	11	26	0	0	1163
1200-1300	295	5	312	20	24	4	89	13	19	70	119	20	106	13	20	0	0	1129
1300-1400	446	5	359	10	21	3	88	12	15	73	72	16	83	15	27	1	0	1246
1400-1500	459	5	416	15	19	3	82	16	24	75	95	35	116	19	23	0	1	1403
1500-1600	405	8	366	13	20	4	72	25	15	89	106	24	126	21	36	0	0	1330
1600-1700	422	6	347	12	32	2	67	17	16	81	56	36	108	17	28	0	0	1247
1700-1800	389	11	320	12	17	6	60	14	20	68	56	32	105	17	34	0	0	1161
1800-1900	390	6	331	19	20	8	61	7	18	74	90	17	138	20	34	0	0	1233
1900-2000	434	15	414	32	18	5	55	10	26	79	70	26	157	17	38	1	0	1397
2000-2100	184	37	292	39	21	1	32	27	12	106	77	27	164	26	42	2	0	1089
2100-2200	48	11	235	21	7	0	10	8	11	74	70	28	149	9	33	0	0	714
2200-2300	31	0	157	17	7	2	5	14	29	69	53	19	160	18	20	0	0	601
2300-0000	13	1	115	10	9	7	18	14	34	55	51	5	101	9	22	0	0	464
Total	4657	159	4790	271	316	96	991	314	754	1614	1590	394	2765	312	624	5	2	19654

TABLE-13

NATIONAL TRANSPORT RESEARCH CENTRE

ANNEX-IV

CLASSIFIED TRAFFIC COUNT SURVEY ON SAEEDABAD TOLL PLAZA AT N-05

SURVEY FORM "E"
South Bound

Date: 03-04-03-2012 Day: Saturday

Start Time 0800 End Time 0800 (24 hrs)

Location Saeedabad Toll Plaza, Hyderabad
Direction from : Sukkur to Hyderabad

Weather : (Fair, Poor, Rainy, Foggy etc)

Time (Hours)	Motor-cycle	M.Cycle Rickshaw	Car/Jeep/Pajero/Taxi/Suzuki etc	Suzuki Pickup (Small)	Pickup Large (Toyota, Nissan, Datsun etc)	Tractor without trolley	Wagon / Hiace/ Transit (upto 24 seats)	Mini Truck	Bus, Coach (Greater than 24 Seats)	Truck (2 Axles)	Truck (3 Axles)	Tractor with Trolley	Truck (4 Axles)	Truck (5 Axles)	Truck (6 Axles)	Const. Machinery	Other	Total
0000-0100	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	263
0100-0200	3	0	32	1	7	0	1	14	4	77	32	21	52	7	12	0	0	257
0200-0300	1	0	26	1	3	0	1	7	15	81	53	10	38	2	19	0	0	226
0300-0400	1	0	17	1	2	0	5	13	27	67	27	9	40	5	12	0	0	212
0400-0500	1	0	14	1	11	0	3	9	55	39	30	0	15	19	15	0	0	176
0500-0600	0	0	13	1	7	0	2	1	41	54	12	3	3	25	14	0	0	156
0600-0700	0	0	15	0	2	4	5	3	42	35	17	2	18	9	4	0	0	141
0700-0800	0	0	18	0	2	8	5	1	28	30	6	2	21	11	9	0	0	185
0800-0900	20	4	26	0	4	2	4	4	23	28	24	6	17	14	9	0	0	336
0900-1000	41	2	118	10	12	1	19	4	24	27	19	2	37	7	13	0	0	413
1000-1100	76	5	156	22	1	1	22	4	28	27	17	7	42	0	5	0	0	320
1100-1200	14	0	72	2	4	0	22	1	26	38	40	12	68	4	16	1	0	456
1200-1300	73	19	119	5	7	2	38	7	21	29	26	24	62	12	12	0	0	357
1300-1400	64	13	108	4	8	7	30	8	19	24	28	11	31	0	2	0	0	504
1400-1500	95	8	131	9	13	12	52	19	41	34	32	3	45	4	3	3	0	467
1500-1600	63	11	143	10	24	2	45	19	34	25	28	15	33	4	11	0	0	497
1600-1700	83	5	165	8	9	7	36	17	30	29	48	2	45	0	13	0	0	561
1700-1800	55	7	154	29	35	4	51	35	36	45	23	6	42	4	35	0	0	507
1800-1900	76	7	178	6	17	2	39	17	38	42	31	5	33	3	12	1	0	539
1900-2000	64	9	152	13	24	1	37	17	35	67	36	2	46	17	19	0	0	569
2000-2100	36	3	143	11	22	5	39	25	18	114	36	7	67	22	20	1	0	423
2100-2200	20	3	119	6	12	0	10	15	4	113	40	7	38	21	12	3	0	300
2200-2300	4	0	78	3	5	0	12	11	0	91	24	14	28	13	17	0	0	313
2300-0000	11	3	49	3	7	0	4	11	2	98	15	10	73	9	16	2	0	285
Total	801	99	2082	149	246	58	484	271	593	1309	679	195	937	222	326	12	0	8463

NATIONAL TRANSPORT RESEARCH CENTRE

TABLE-14

CLASSIFIED TRAFFIC COUNT SURVEY ON SAEEDABAD TOLL PLAZA AT N-05

ANNEX-IV

SURVEY FORM "E"
South Bound

Date 03-04-03-2012 Day: Saturday

Start Time 0800 End Time 0800 (24 hrs)

Location Saeedabad Toll Plaza, Hyderabad
Direction from : S Hyderabad to Sukkur

Weather : (Fair, Poor, Rainy, Foggy etc)

Time (Hours)	Motor-cycle	M.Cycle Rickshaw	Car/Jeep/Pajero/Taxi/Suzuki etc	Suzuki Pickup (Small)	Pickup Large (Toyota, Nissan, Datsun etc)	Tractor without trolley	Wagon / H/ace/ Transit (upto 24 seats)	Mini Truck	Bus, Coach (Greater than 24 Seats)	Truck (2 Axles)	Truck (3 Axles)	Tractor with Trolley	Truck (4 Axles)	Truck (5 Axles)	Truck (6 Axles)	Const. Machinery	Other	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
0000-0100	0	0	70	2	2	0	12	11	53	88	82	7	56	2	9	0	0	394
0100-0200	0	0	42	2	4	0	13	7	25	59	51	3	49	3	10	0	0	268
0200-0300	0	0	25	0	5	0	15	6	26	77	52	7	53	3	10	0	0	279
0300-0400	1	0	30	1	5	0	9	7	19	141	94	0	62	18	12	0	0	399
0400-0500	2	0	19	1	6	2	5	13	8	83	57	3	61	4	8	0	0	272
0500-0600	1	0	16	1	4	0	2	6	5	47	45	2	40	6	14	0	0	189
0600-0700	8	0	20	1	4	1	5	10	8	46	30	3	44	1	18	0	0	199
0700-0800	29	0	28	5	12	0	7	9	3	59	46	11	72	8	17	0	0	306
0800-0900	73	14	126	14	22	0	49	14	9	52	37	9	113	7	26	0	0	565
0900-1000	69	2	226	11	24	0	51	7	26	58	40	3	120	6	24	1	1	669
1000-1100	19	1	212	2	5	5	47	3	32	34	30	3	68	4	20	0	0	485
1100-1200	64	17	178	6	1	8	55	6	99	55	35	15	86	32	36	0	0	693
1200-1300	52	4	130	7	7	3	54	5	225	39	31	8	70	24	22	0	0	681
1300-1400	90	13	173	4	12	0	22	22	31	93	62	11	86	28	59	0	0	706
1400-1500	106	77	267	6	12	0	24	21	32	96	57	9	93	18	42	0	6	866
1500-1600	70	48	221	9	17	1	24	22	12	100	39	9	111	25	40	0	3	751
1600-1700	60	25	170	9	26	2	37	41	35	81	77	19	105	17	34	0	3	741
1700-1800	48	22	178	15	23	11	23	25	25	51	44	30	60	22	24	0	0	601
1800-1900	82	20	172	9	28	1	20	33	30	50	60	8	61	19	24	0	2	619
1900-2000	46	17	154	16	21	1	16	24	22	51	30	16	59	13	30	0	0	516
2000-2100	12	0	115	18	18	2	31	30	39	50	26	3	43	8	13	0	0	408
2100-2200	7	2	78	9	20	3	7	45	24	68	48	10	27	5	26	2	0	381
2200-2300	12	1	83	6	12	6	6	48	29	72	53	7	41	2	11	0	0	389
2300-0000	2	0	116	3	3	3	14	20	36	93	56	4	44	4	13	0	0	411
Total	853	263	2849	157	293	49	548	435	853	1643	1182	200	1624	279	542	3	15	11788

NATIONAL TRANSPORT RESEARCH CENTRE

ANNEX-IV

TABLE-15

Summary of Sukkur - Hyderabad Section on N-05 at Saeedabad Toll Plaza

Date 03-04-03-2012 Day: Saturday

Start Time 0800 End Time 0800 (24 hrs)

Location Saeedabad Toll Plaza, Hyderabad (Both side)

Weather : (Fair, Poor, Rainy, Foggy etc)

Time (Hours)	Motor-cycle	M.Cycle Rickshaw	Car/Jeep/Pajero/Taxi/Suzuki etc	Suzuki Pickup (Small)	Pickup Large (Toyota, Nissan, Datsun etc)	Tractor without trolley	Wagon / H/face/ Transit (upto 24 seats)	Mini Truck	Bus, Coach (Greater than 24 Seats)	Truck (2 Axles)	Truck (3 Axles)	Tractor with Trolley	Truck (4 Axles)	Truck (5 Axles)	Truck (6 Axles)	Const. Machinery	Other	Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
0000-0100	3	0	102	3	9	0	13	25	57	165	114	28	108	9	21	0	0	657
0100-0200	1	0	68	3	7	0	14	14	40	140	104	13	87	5	29	0	0	525
0200-0300	1	0	42	1	7	0	20	19	53	144	79	16	93	8	22	0	0	505
0300-0400	2	0	44	2	16	0	12	16	74	180	124	0	77	37	27	0	0	611
0400-0500	2	0	32	2	13	2	7	14	49	137	69	6	64	29	22	0	0	448
0500-0600	1	0	31	1	6	4	7	9	47	82	62	4	58	15	18	0	0	345
0600-0700	8	0	38	1	6	9	10	11	36	76	36	5	65	12	27	0	0	340
0700-0800	49	4	54	5	16	2	11	13	26	87	70	17	89	22	26	0	0	491
0800-0900	114	16	244	24	34	1	68	18	33	79	56	11	150	14	39	0	0	901
0900-1000	145	7	382	33	25	1	73	11	54	85	57	10	162	6	29	1	1	1082
1000-1100	33	1	284	4	9	5	69	4	58	72	70	15	136	8	36	1	0	805
1100-1200	137	36	297	11	8	10	93	13	120	84	61	39	148	44	48	0	0	1149
1200-1300	116	17	238	11	15	10	84	13	244	63	59	19	101	24	24	0	0	1038
1300-1400	185	21	304	13	25	12	74	41	72	127	94	14	131	32	62	3	0	1210
1400-1500	169	88	410	16	36	2	69	40	66	121	85	24	126	22	53	0	6	1333
1500-1600	153	53	386	17	26	8	60	39	42	129	87	11	156	25	53	0	3	1248
1600-1700	115	32	324	38	61	6	88	76	71	126	100	25	147	21	69	0	3	1302
1700-1800	124	29	356	21	40	13	62	42	63	93	75	35	93	25	36	1	0	1108
1800-1900	146	29	324	22	52	2	57	50	65	117	96	10	107	36	43	0	2	1158
1900-2000	82	20	297	27	43	6	55	49	40	165	66	23	126	35	50	1	0	1085
2000-2100	32	3	234	24	30	2	41	45	43	163	66	10	81	29	25	3	0	831
2100-2200	11	2	156	12	25	3	19	56	24	159	72	24	55	18	43	2	0	681
2200-2300	23	4	132	9	19	6	10	59	31	170	68	17	114	11	27	2	0	702
2300-0000	2	0	152	6	11	3	16	29	38	188	91	19	87	14	39	1	0	696
Total	1654	362	4931	306	539	107	1032	706	1446	2952	1861	395	2561	501	888	15	15	20251

TABLE-16

NATIONAL TRANSPORT RESEARCH CENTRE

ANNEX-IV
SURVEY FORM "E"
South Bound

CLASSIFIED TRAFFIC COUNT SURVEY ON JAMSHORO TOLL PLAZA M-09

Date 05-06-03-2012 Day: Monday

Location Jamshoro Toll Plaza M-9
Direction From: Hyderabad to Nooriabad

Time (Hours)	Motor-cycle	M.Cycle Rickshaw	Car/Jeep/Pajero/Taxi/Suzuki etc	Suzuki Pickup (Small)	Pickup Large (Toyota, Nissan, Datsun etc)	Tractor without trolley	Wagon / Hiace/ Transit (upto 24 seats)	Mini Truck	Bus, Coach (Greater than 24 Seats)	Truck (2 Axles)	Truck (3 Axles)	Tractor with Trolley	Truck (4 Axles)	Truck (5 Axles)	Truck (6 Axles)	Const. Machinery	Other	Total
0000-0100	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
0100-0200	2	1	86	2	7	0	11	11	1	55	58	0	54	10	13	0	0	311
0200-0300	0	0	54	2	4	0	8	16	5	43	43	0	59	4	10	0	0	248
0300-0400	0	0	50	2	4	0	7	13	9	35	27	0	40	8	18	0	0	213
0400-0500	0	0	30	3	4	0	16	6	33	35	32	0	28	5	19	0	0	211
0500-0600	1	3	27	4	0	0	0	14	46	27	37	0	42	3	21	0	0	221
0600-0700	4	0	42	3	2	0	1	16	77	14	25	0	26	10	14	0	0	234
0700-0800	3	4	63	5	0	0	2	3	54	20	10	0	27	1	18	0	0	207
0800-0900	24	5	140	6	12	0	8	7	34	24	20	0	38	6	25	0	0	327
0900-1000	22	5	274	7	7	0	25	7	43	27	50	0	86	6	23	0	0	584
1000-1100	42	7	349	2	10	0	25	9	38	22	33	0	71	16	21	0	0	623
1100-1200	51	8	338	6	6	0	30	12	39	25	19	1	92	4	2	0	0	623
1200-1300	47	5	320	9	10	0	26	10	41	34	24	0	73	6	14	0	0	626
1300-1400	70	6	291	9	5	0	23	17	30	29	11	0	46	4	8	0	0	525
1400-1500	69	5	335	4	16	0	17	22	29	40	23	0	46	5	11	0	0	624
1500-1600	75	6	337	5	2	0	21	9	41	55	19	0	35	6	9	0	0	613
1600-1700	35	7	323	7	9	0	22	9	34	39	26	0	44	12	18	0	0	624
1700-1800	36	4	340	7	6	0	25	13	38	76	32	0	107	26	13	0	0	725
1800-1900	40	4	348	3	5	0	21	16	45	60	35	0	56	7	19	0	0	655
1900-2000	19	1	445	5	5	0	15	13	23	53	57	0	65	10	23	0	1	759
2000-2100	18	5	165	2	7	0	7	9	25	64	60	0	85	17	22	0	0	483
2100-2200	3	3	206	5	16	0	20	23	18	47	50	0	53	22	21	0	0	504
2200-2300	5	1	164	11	10	0	12	21	12	54	22	0	54	7	9	0	0	382
2300-0000	6	1	133	6	9	0	11	22	8	48	29	0	80	15	6	0	0	373
Total	572	81	4985	120	166	0	363	320	724	972	775	1	1363	222	370	0	1	11035

TABLE-17

NATIONAL TRANSPORT RESEARCH CENTRE

ANNEX-IV
SURVEY FORM "E"
South Bound

CLASSIFIED TRAFFIC COUNT SURVEY ON JAMSHORO TOLL PLAZA M-09

Date 05-06-03-2012 Day: Monday

Location Jamshoro Toll Plaza M-9
Direction From: Nooriabad to Hyderabad

Time (Hours)	Motor-cycle	M.Cycle Rickshaw	Car/Jeep/Pajero/Taxi/Suzuki etc	Suzuki Pickup (Small)	Pickup Large (Toyota, Nissan, Datsun etc)	Tractor without trolley	Wagon / Hiace/ Transit (upto 24 seats)	Mini Truck	Bus, Coach (Greater than 24 Seats)	Truck (2 Axles)	Truck (3 Axles)	Tractor with Trolley	Truck (4 Axles)	Truck (5 Axles)	Truck (6 Axles)	Const. Machinery	Other	Total
0000-0100	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
0100-0200	5	2	142	4	4	0	17	16	37	53	37	0	46	2	9	0	0	374
0200-0300	4	0	8	4	9	0	19	11	28	60	21	0	40	2	14	0	0	220
0300-0400	0	0	17	0	0	0	14	2	28	33	12	0	20	0	4	1	0	131
0400-0500	2	0	150	3	6	0	10	9	23	21	7	0	1	0	0	0	0	232
0500-0600	2	0	67	2	11	0	4	26	14	113	71	0	81	14	12	0	0	417
0600-0700	0	3	40	2	6	0	2	8	12	50	40	0	86	9	10	0	0	268
0700-0800	2	3	40	2	8	0	4	15	23	34	43	0	75	3	2	0	0	254
0800-0900	7	0	59	2	5	0	3	16	7	28	53	0	71	23	18	0	0	292
0900-1000	29	8	202	4	7	0	12	4	17	18	13	1	7	3	8	0	0	333
1000-1100	31	5	230	4	5	0	12	4	38	44	17	0	6	2	19	0	0	417
1100-1200	27	4	234	12	14	0	19	8	55	25	14	2	2	0	16	0	0	432
1200-1300	41	3	269	8	9	1	16	8	61	29	21	1	6	0	16	0	0	489
1300-1400	29	6	223	10	9	0	19	11	47	17	15	1	6	3	12	0	0	408
1400-1500	27	4	238	6	9	0	29	7	34	19	13	1	3	1	9	0	0	400
1500-1600	26	6	191	1	13	0	15	16	40	33	6	1	4	1	10	0	0	363
1600-1700	39	4	229	7	16	0	22	13	37	40	19	0	10	3	7	0	0	446
1700-1800	36	4	229	3	10	0	18	18	38	46	24	1	20	6	8	0	0	461
1800-1900	12	5	242	10	4	0	22	10	29	54	18	0	16	2	14	0	0	438
1900-2000	14	3	288	6	9	0	35	23	43	33	11	1	24	2	5	0	0	497
2000-2100	9	0	269	1	10	0	20	11	34	46	12	1	41	8	5	1	0	468
2100-2200	11	2	231	4	10	0	22	35	40	37	22	0	40	4	18	0	0	476
2200-2300	10	2	255	5	7	0	16	8	33	51	26	0	33	13	18	3	0	480
2300-0000	2	0	257	7	7	0	21	9	34	81	28	0	41	7	16	0	0	510
Total	370	64	4353	113	193	1	390	311	798	1014	566	10	731	121	256	5	0	9296

NATIONAL TRANSPORT RESEARCH CENTRE

TABLE-18

Summary of Hyderabad - Nooriabad Section on M-09 at Jamshoro Toll Plaza

ANNEX-IV

Date: 05-06-03-2012 Day: Monday

Location: Jamshoro Toll Plaza M-9 (Both side)

Time (Hours)	Motor-cycle	M.Cycle Rickshaw	Car/Jeep/Pajero/Taxi/Suzuki etc	Suzuki Pickup (Small)	Pickup Large (Toyota, Nissan, Datsun etc)	Tractor without trolley	Wagon / Hiace/ Transit (upto 24 seats)	Mini Truck	Bus, Coach (Greater than 24 Seats)	Truck (2 Axles)	Truck (3 Axles)	Tractor with Trolley	Truck (4 Axles)	Truck (5 Axles)	Truck (6 Axles)	Const. Machinery	Other	Total
0000-0100	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
0100-0200	7	3	228	6	11	0	28	27	38	108	95	0	100	12	22	0	0	685
0200-0300	4	0	62	6	13	0	27	27	33	103	64	0	99	6	24	0	0	468
0300-0400	0	0	67	2	4	0	21	15	37	68	39	0	60	8	22	1	0	344
0400-0500	2	0	180	6	10	0	26	15	56	56	39	0	29	5	19	0	0	443
0500-0600	2	0	94	6	11	0	4	40	60	140	108	0	123	17	33	0	0	638
0600-0700	1	6	82	5	8	0	3	24	89	64	65	0	112	19	24	0	0	502
0700-0800	6	3	103	7	8	0	6	18	77	54	53	0	102	4	20	0	0	461
0800-0900	10	4	199	8	17	0	11	23	41	52	73	0	109	29	43	0	0	619
0900-1000	53	13	476	11	14	0	37	11	60	45	63	1	93	9	31	0	0	917
1000-1100	53	10	579	6	15	0	37	13	76	66	50	0	77	18	40	0	0	1040
1100-1200	69	11	572	18	20	0	49	20	94	50	33	3	94	4	18	0	0	1055
1200-1300	92	11	589	17	19	1	42	18	102	63	45	1	79	6	30	0	0	1115
1300-1400	76	11	514	19	14	0	42	28	77	46	26	1	52	7	20	0	0	933
1400-1500	97	10	573	10	25	0	46	29	63	59	36	1	49	6	20	0	0	1024
1500-1600	95	11	528	6	15	0	36	25	81	88	25	1	39	7	19	0	0	976
1600-1700	114	10	552	14	25	0	44	22	71	79	45	0	54	15	25	0	0	1070
1700-1800	71	11	569	10	16	0	43	31	76	122	56	1	127	32	21	0	0	1186
1800-1900	48	9	590	13	9	0	43	26	74	114	53	0	72	9	33	0	0	1093
1900-2000	54	7	733	11	14	0	50	36	66	86	68	1	89	12	28	0	1	1256
2000-2100	28	1	434	3	17	0	27	20	59	110	72	1	126	25	27	1	0	951
2100-2200	29	7	437	9	26	0	42	58	58	84	72	0	93	26	39	0	0	980
2200-2300	13	5	419	16	17	0	28	29	45	105	48	0	87	20	27	3	0	862
2300-0000	7	1	390	13	16	0	32	31	42	129	57	0	121	22	22	0	0	883
Total	942	145	9338	233	359	1	753	631	1622	1986	1341	11	2094	343	626	5	1	20331

TABLE-19

NATIONAL TRANSPORT RESEARCH CENTRE

ANNEX-IV
SURVEY FORM "E"
South Bound

CLASSIFIED TRAFFIC COUNT SURVEY ON NOORIABAD M-9

Date 06-07-03-2012 Day: Tuesday

Location Near Police Station Nooriabad M-9
Direction From: Nooriabad to Karachi

Time (Hours)	Motor-cycle	M. Cycle Rickshaw	Car/Jeep/Pajero/Taxi/Suzuki etc	Suzuki Pickup (Small)	Pickup Large (Toyota, Nissan, Datsun etc)	Tractor without trolley	Wagon / H-pace/ Transit (upto 24 seats)	Mini Truck	Bus, Coach (Greater than 24 Seats)	Truck (2 Axles)	Truck (3 Axles)	Tractor with Trolley	Truck (4 Axles)	Truck (5 Axles)	Truck (6 Axles)	Const. Machinery	Other	Total
0000-0100	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
0100-0200	16	0	68	8	5	0	8	20	2	32	60	0	57	8	13	0	0	297
0200-0300	1	0	55	2	3	0	1	4	1	46	42	0	43	3	12	0	0	213
0300-0400	4	0	57	3	5	0	1	16	3	53	50	0	60	2	16	0	0	270
0400-0500	4	0	47	1	6	0	3	21	14	28	55	0	22	4	9	0	0	214
0500-0600	5	0	37	0	4	0	6	19	34	39	36	0	45	8	19	0	0	252
0600-0700	0	0	20	2	4	0	7	28	71	19	34	0	33	4	15	0	0	237
0700-0800	7	0	46	2	7	0	2	16	41	16	23	0	36	1	13	0	0	210
0800-0900	4	0	60	7	5	0	3	7	55	20	33	0	59	9	30	0	0	292
0900-1000	7	0	102	1	7	0	7	9	23	12	29	0	61	6	25	0	0	289
1000-1100	14	0	214	9	14	0	6	5	32	8	20	0	45	25	16	0	0	408
1100-1200	34	0	201	17	11	0	12	12	26	17	18	0	47	11	16	1	0	423
1200-1300	51	0	237	7	9	0	19	14	42	26	15	0	45	3	12	0	0	480
1300-1400	36	0	231	7	13	0	15	20	20	20	16	0	27	8	15	0	0	428
1400-1500	22	0	225	8	5	0	17	16	38	35	11	0	38	17	21	0	0	453
1500-1600	28	0	222	8	3	1	15	15	35	24	15	0	20	9	12	0	0	407
1600-1700	28	2	262	11	5	0	20	13	32	21	22	0	36	7	9	0	0	468
1700-1800	25	4	243	13	10	0	14	22	31	26	27	0	37	9	10	1	0	472
1800-1900	46	4	254	8	5	0	13	24	34	40	15	0	43	4	8	0	0	498
1900-2000	39	0	295	8	12	0	19	30	36	23	26	0	48	4	12	0	4	556
2000-2100	23	16	336	10	13	0	15	25	20	57	40	0	71	7	6	0	0	639
2100-2200	35	0	208	13	21	2	12	17	14	53	41	0	60	8	6	0	0	490
2200-2300	21	0	128	7	9	0	16	26	11	37	39	0	47	14	13	0	0	368
2300-0000	17	0	112	5	14	0	9	40	7	65	56	0	67	6	15	0	0	413
Total	475	26	3724	161	200	3	245	456	626	744	751	0	1090	182	329	2	4	9018

NATIONAL TRANSPORT RESEARCH CENTRE

CLASSIFIED TRAFFIC COUNT SURVEY ON NOORIABAD M-9

TABLE-20

ANNEX-IV
SURVEY FORM "E"
South Bound

Date 06-07-03-2012 Day: Tuesday

Location Near Police Station Nooriabad M-9
Direction From: Karachi-Nooriabad

Time (Hours)	Motor-cycle	M.Cycle Rickshaw	Car/Jeep/Pajero/Taxi/Suzuki etc	Suzuki Pickup (Small)	Pickup Large (Toyota, Nissan, Datsun etc)	Tractor without trolley	Wagon / H/ace/ Transit (upto 24 seats)	Mini Truck	Bus, Coach (Greater than 24 Seats)	Truck (2 Axles)	Truck (3 Axles)	Tractor With Trolley	Truck (4 Axles)	Truck (5 Axles)	Truck (6 Axles)	Const. Machinery	Other	Total
0000-0100	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
0100-0200	5	0	169	3	21	0	45	33	64	46	34	0	73	5	17	0	0	515
0200-0300	2	2	110	1	19	0	14	23	21	48	43	0	46	2	20	0	0	351
0300-0400	0	0	68	0	9	0	12	16	21	90	67	0	82	12	21	0	0	398
0400-0500	1	0	35	3	8	0	8	24	4	116	61	0	61	9	10	0	0	340
0500-0600	1	0	21	0	9	0	8	16	6	105	86	0	89	11	7	0	0	359
0600-0700	0	0	42	0	5	0	10	9	6	36	62	0	90	20	29	0	0	309
0700-0800	0	1	38	0	9	0	13	8	10	26	40	0	74	11	9	0	0	239
0800-0900	7	0	83	0	11	0	9	14	25	51	49	0	81	4	9	0	0	343
0900-1000	19	2	189	5	9	0	24	5	20	37	59	0	106	16	24	0	0	515
1000-1100	25	2	233	12	5	0	27	17	44	27	32	0	73	12	30	0	0	539
1100-1200	47	3	295	5	5	1	26	13	53	22	54	0	49	6	22	0	0	601
1200-1300	27	1	251	8	6	0	27	14	42	15	29	0	35	5	17	0	0	477
1300-1400	30	0	235	4	12	0	15	15	32	23	23	0	21	2	15	0	4	431
1400-1500	39	1	279	9	12	0	14	11	38	27	22	0	20	9	7	0	0	488
1500-1600	59	2	241	16	6	0	25	22	38	33	38	0	28	10	16	0	0	534
1600-1700	46	2	227	28	11	0	34	20	33	36	24	0	35	5	7	0	0	508
1700-1800	49	3	279	14	7	1	13	8	37	41	27	0	57	10	15	0	0	561
1800-1900	43	0	265	6	7	0	13	19	38	48	31	1	37	8	3	0	0	519
1900-2000	35	0	265	13	14	0	16	27	38	31	39	0	47	12	19	0	0	556
2000-2100	26	0	235	16	26	0	9	28	23	33	31	0	46	7	25	2	0	507
2100-2200	34	2	322	2	35	0	31	30	41	25	34	0	46	9	22	0	0	633
2200-2300	6	0	318	1	35	2	36	35	55	29	32	0	32	7	4	0	0	592
2300-0000	10	0	225	7	43	0	20	24	43	40	25	0	52	10	10	1	0	510
Total	2	0	214	0	25	0	53	27	50	46	27	0	77	29	16	2	0	568
	513	21	4639	153	349	4	502	458	782	1031	969	1	1357	231	374	5	4	11393

NATIONAL TRANSPORT RESEARCH CENTRE

TABLE-21

Summary of Nooriabad - Karachi Section on M-09 at Nooriabad Police Station

Tuesday

Date 06-07-03-2012 Day:

Location Near Police Station Nooriabad M-9 (Both side)

Time (Hours)	Motor-cycle	M.Cycle Rickshaw	Car/Jeep/Pajero/Taxi/Suzuki etc	Suzuki Pickup (Small)	Pickup Large (Toyota, Nissan, Datsun etc)	Tractor without trolley	Wagon/Hiace/Transit (upto 24 seats)	Mini Truck	Bus, Coach (Greater than 24 Seats)	Truck (2 Axles)	Truck (3 Axles)	Tractor with Trolley	Truck (4 Axles)	Truck (5 Axles)	Truck (6 Axles)	Const. Machinery	Other	Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
0000-0100	21	0	237	11	26	0	53	53	66	78	94	0	130	13	30	0	0	812
0100-0200	3	2	165	3	22	0	15	27	22	94	85	0	89	5	32	0	0	564
0200-0300	4	0	125	3	14	0	13	32	24	143	117	0	142	14	37	0	0	668
0300-0400	5	0	82	4	14	0	11	45	18	144	116	0	83	13	19	0	0	554
0400-0500	6	0	58	0	13	0	14	35	40	144	122	0	134	19	26	0	0	611
0500-0600	0	0	62	2	9	0	17	37	77	55	96	0	123	24	44	0	0	546
0600-0700	7	1	84	2	16	0	15	24	51	42	63	0	110	12	22	0	0	449
0700-0800	11	0	143	7	16	0	12	21	80	71	82	0	140	13	39	0	0	635
0800-0900	26	2	291	6	16	0	31	14	43	49	88	0	167	22	49	0	0	804
0900-1000	39	2	447	21	19	0	33	22	76	35	52	0	118	37	46	0	0	947
1000-1100	81	3	496	22	16	1	38	25	79	39	72	0	96	17	38	1	0	1024
1100-1200	78	1	488	15	15	0	46	28	84	41	44	0	80	8	29	0	0	957
1200-1300	66	0	466	11	25	0	30	35	52	43	39	0	48	10	30	0	4	859
1300-1400	61	1	504	17	17	0	31	27	76	62	33	0	58	26	28	0	0	941
1400-1500	87	2	463	24	9	1	40	37	73	57	53	0	48	19	28	0	0	941
1500-1600	74	4	489	39	16	0	54	33	65	57	46	0	71	12	16	0	0	976
1600-1700	74	7	522	27	17	1	27	30	68	67	54	0	94	19	25	1	0	1033
1700-1800	89	4	519	14	12	0	26	43	72	88	46	1	80	12	11	0	0	1017
1800-1900	74	0	560	21	26	0	35	57	74	54	65	0	95	16	31	0	4	1112
1900-2000	49	16	571	26	39	0	24	53	43	90	71	0	117	14	31	2	0	1146
2000-2100	69	2	530	15	56	2	43	47	55	78	75	0	106	17	28	0	0	1123
2100-2200	27	0	446	8	44	2	52	61	66	66	71	0	79	21	17	0	0	960
2200-2300	27	0	337	12	57	0	29	64	50	105	81	0	119	16	25	1	0	923
2300-0000	10	0	278	4	35	0	58	64	54	73	55	0	120	34	22	2	0	809
Total	988	47	8363	314	549	7	747	914	1408	1775	1720	1	2447	413	703	7	8	20411

NATIONAL TRANSPORT RESEARCH CENTRE

Total Classified Traffic Count on National Highways N-05 North to South

TABLE-22

Time (Hours)	Motor-cycle	M.Cycle Rickshaw	Car/Jeep/Pejoro/Taxi/Suzuki etc	Suzuki Pickup (Small)	Pickup Large (Toyota, Nissan, Datsun etc)	Tractor without trolley.	Wagon / Hiace/ Transit (upto 24 seats)	Mini Truck	Bus, Coach (Greater than 24 Seats)	Truck (2 Axles)	Truck (3 Axles)	Tractor with Trolley	Truck (4 Axles)	Truck (5 Axles)	Truck (6 Axles)	Const. Machinery	Other	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
0000-0100	13	3	179	1	28	2	39	37	99	166	127	34	224	25	60	0	0	1037
0100-0200	3	3	160	4	15	1	26	28	111	182	137	20	194	12	50	0	0	946
0200-0300	4	3	100	1	13	3	35	37	115	134	94	12	152	23	30	3	0	759
0300-0400	6	3	127	3	23	2	11	37	141	125	113	5	108	41	47	0	0	792
0400-0500	8	6	85	7	14	8	21	15	123	119	86	14	135	37	30	0	0	708
0500-0600	25	9	78	10	16	9	29	20	121	103	108	6	115	23	22	0	0	694
0600-0700	58	22	144	8	15	15	32	19	113	94	84	13	154	28	40	2	0	841
0700-0800	217	48	208	26	37	7	79	42	89	119	120	14	165	32	41	0	0	1244
0800-0900	564	54	510	26	32	8	143	23	45	125	100	18	196	22	39	0	0	1905
0900-1000	700	75	640	36	24	6	128	29	58	113	111	28	236	13	30	1	0	2228
1000-1100	749	77	643	18	25	16	151	18	62	120	134	43	277	24	45	1	0	2403
1100-1200	819	97	726	32	36	8	187	32	62	96	114	44	221	32	43	0	0	2549
1200-1300	895	76	804	18	37	9	156	31	62	114	115	28	185	16	34	1	0	2581
1300-1400	827	47	913	29	47	14	183	45	82	118	101	32	219	15	39	3	1	2715
1400-1500	706	86	853	31	55	6	165	50	69	115	104	44	193	23	52	0	0	2552
1500-1600	695	68	760	34	55	10	156	34	68	127	122	51	228	13	62	2	0	2485
1600-1700	718	63	810	50	69	7	169	58	72	160	83	48	221	25	62	0	0	2615
1700-1800	707	74	810	25	50	10	140	37	95	137	118	29	249	14	51	2	0	2548
1800-1900	689	86	864	46	74	8	116	46	90	179	134	32	236	39	66	1	0	2706
1900-2000	340	92	717	52	78	7	98	74	62	225	136	35	258	48	67	4	0	2293
2000-2100	183	26	774	32	40	1	68	39	53	229	158	38	180	41	62	3	0	1927
2100-2200	82	16	575	19	30	5	44	38	57	181	135	40	197	26	46	0	0	1491
2200-2300	41	7	353	15	24	12	47	37	79	225	93	27	204	31	57	2	0	1254
2300-0000	17	3	284	9	33	3	17	32	71	178	116	21	201	25	55	1	1	1067
Total	9066	1044	12117	532	870	177	2240	858	1999	3484	2743	676	4748	628	1130	26	2	42340

NATIONAL TRANSPORT RESEARCH CENTRE

TABLE-23

Total Classified Traffic Count on National Highways N-05 South to North

Time (Hours)	Motor-cycle	M.Cycle Rickshaw	Car/Jeep/Pajero/Taxi/Suzuki etc	Suzuki Pickup (Small)	Pickup Large (Toyota, Nissan, Datsun etc)	Tractor without trolley	Wagon / Hiace/ Transit (upto 24 seats)	Mini Truck	Bus, Coach (Greater than 24 Seats)	Truck (2 Axles)	Truck (3 Axles)	Tractor with Trolley	Truck (4 Axles)	Truck (5 Axles)	Truck (6 Axles)	Const. Machinery	Other	Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
0000-0100	17	1	218	8	18	2	20	35	100	184	142	23	195	13	68	0	0	1044
0100-0200	4	1	177	2	19	0	23	27	75	125	113	7	186	20	59	1	0	839
0200-0300	3	2	123	1	18	0	27	15	58	166	150	8	195	21	47	0	0	834
0300-0400	3	0	90	1	12	0	15	25	67	213	135	4	187	29	40	0	0	821
0400-0500	4	1	77	3	13	2	7	21	53	150	141	6	149	10	42	0	0	679
0500-0600	9	1	80	9	11	0	7	22	43	140	142	4	154	31	68	1	0	722
0600-0700	60	11	146	13	14	1	31	25	60	158	106	19	168	31	57	1	0	901
0700-0800	191	16	229	12	44	1	58	30	53	145	109	26	236	23	51	1	0	1225
0800-0900	613	56	505	43	41	4	118	28	64	122	96	29	251	30	63	0	0	2063
0900-1000	687	55	748	41	52	1	132	31	71	147	135	20	284	21	66	1	1	2493
1000-1100	663	42	729	27	31	6	124	36	80	140	122	18	209	14	77	0	0	2318
1100-1200	747	104	831	49	44	15	161	36	140	179	205	44	236	52	84	0	0	2927
1200-1300	826	58	776	41	42	7	152	28	263	292	141	26	177	42	62	0	0	2933
1300-1400	1032	114	1017	42	56	4	124	48	72	179	186	40	199	55	99	0	0	3267
1400-1500	954	143	1127	37	62	1	121	57	71	205	171	28	221	41	80	0	6	3325
1500-1600	901	102	968	36	66	9	116	70	57	215	123	34	236	54	72	1	3	3063
1600-1700	860	98	928	40	70	11	126	78	85	188	146	46	248	35	89	0	3	3051
1700-1800	733	64	780	60	55	15	97	58	71	157	148	57	190	46	76	0	0	2607
1800-1900	824	67	961	62	75	4	90	69	77	180	148	32	203	41	72	0	2	2907
1900-2000	460	46	715	56	64	4	66	49	65	188	157	46	234	37	91	1	0	2279
2000-2100	223	32	695	47	36	9	63	44	91	169	132	29	224	22	55	0	0	1871
2100-2200	146	25	571	30	35	5	24	65	73	170	129	36	207	28	56	3	0	1603
2200-2300	71	13	432	22	35	8	30	69	77	164	121	20	171	17	54	0	0	1304
2300-0000	27	6	369	9	25	4	21	47	80	174	105	27	179	23	48	1	0	1145
Total	10058	1058	13292	691	938	113	1753	1013	1946	4150	3303	629	4939	736	1576	11	15	46221

NATIONAL TRANSPORT RESEARCH CENTRE

Total Classified Traffic Count on National Highways N-05 (both Sides)

TABLE-24

Time (Hours)	Motor-cycle	M.Cycle Rickshaw	Car/Jeep/Pejeto/Taxi/Suzuki etc	Suzuki Pickup (Small)	Pickup Large (Toyota, Nissan, Datsun etc)	Tractor without trolley	Wagon/Hiace/Transit (upto 24 seats)	Mini Truck	Bus, Coach (Greater than 24 Seats)	Truck (2 Axles)	Truck (3 Axles)	Tractor with Trolley	Truck (4 Axles)	Truck (5 Axles)	Truck (6 Axles)	Const. Machinery	Other	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
0000-0100	30	4	397	9	46	4	59	72	199	350	269	57	419	38	128	0	0	2081
0100-0200	7	4	337	6	34	1	49	55	186	307	250	27	380	32	109	1	0	1785
0200-0300	7	5	223	2	31	3	62	52	173	300	244	20	347	44	77	3	0	1593
0300-0400	9	3	217	4	35	2	26	62	208	338	248	9	295	70	87	0	0	1613
0400-0500	12	7	162	10	27	10	28	36	176	269	227	20	284	47	72	0	0	1387
0500-0600	34	10	158	19	27	9	36	42	164	243	250	10	269	54	90	1	0	1416
0600-0700	118	33	290	21	29	16	63	44	173	252	190	32	322	59	97	3	0	1742
0700-0800	408	64	437	38	81	8	137	72	142	264	229	40	401	55	92	1	0	2469
0800-0900	1177	110	1015	69	73	12	261	51	109	247	196	47	447	52	102	0	0	3968
0900-1000	1387	130	1388	77	76	7	260	60	129	260	246	48	520	34	96	2	1	4721
1000-1100	1412	119	1372	45	56	22	275	54	142	260	256	61	486	38	122	1	0	4721
1100-1200	1566	201	1557	81	80	23	348	68	202	275	319	88	457	84	127	0	0	5476
1200-1300	1721	134	1580	59	79	16	308	59	325	406	256	54	362	58	96	1	0	5514
1300-1400	1859	161	1930	71	103	18	307	93	154	297	287	72	418	70	138	3	1	5982
1400-1500	1660	229	1980	68	117	7	286	107	140	320	275	72	414	64	132	0	6	5877
1500-1600	1596	170	1728	70	121	19	272	104	125	342	245	85	464	67	134	3	3	5548
1600-1700	1578	161	1738	90	139	18	295	136	157	348	229	94	469	60	151	0	3	5666
1700-1800	1440	138	1590	85	105	25	237	95	166	294	266	86	439	60	127	2	0	5155
1800-1900	1513	153	1825	108	149	12	206	115	167	359	282	64	439	80	138	1	2	5613
1900-2000	800	138	1432	108	142	11	164	123	127	413	293	81	492	85	158	5	0	4572
2000-2100	406	58	1469	79	76	10	131	83	144	398	290	67	404	63	117	3	0	3798
2100-2200	228	41	1146	49	65	10	68	103	130	351	264	76	404	54	102	3	0	3094
2200-2300	112	20	785	37	59	20	77	106	156	389	214	47	375	48	111	2	0	2558
2300-0000	44	9	653	18	58	7	38	79	151	352	221	48	380	48	103	2	1	2212
Total	19124	2102	25409	1223	1808	290	3993	1871	3945	7634	6046	1305	9687	1364	2706	37	17	88561

TABLE-25

NATIONAL TRANSPORT RESEARCH CENTRE

ANNEX-IV

Total Classified Traffic Count on Motorway M-09 North to South

Time (Hours)	Motor-cycle	M.Cycle Rickshaw	Car/Jeep/Pajero/Taxi/Suzuki etc	Suzuki Pickup (Small)	Pickup Large (Toyota, Nissan, Datsun etc)	Tractor without trolley	Wagon/Hiace/Transit (upto 24 seats)	Mini Truck	Bus, Coach (Greater than 24 Seats)	Truck (2 Axles)	Truck (3 Axles)	Tractor with Trolley	Truck (4 Axles)	Truck (5 Axles)	Truck (6 Axles)	Const. Machinery	Other	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
0000-0100	18	1	154	10	12	0	19	31	3	87	118	0	111	18	26	0	0	608
0100-0200	1	0	109	4	7	0	9	20	6	89	85	0	102	7	22	0	0	461
0200-0300	4	0	107	5	9	0	8	29	12	88	77	0	100	10	34	0	0	483
0300-0400	4	0	77	4	10	0	19	27	47	63	87	0	50	9	28	0	0	425
0400-0500	5	0	64	4	4	0	6	33	80	66	73	0	87	11	40	0	0	473
0500-0600	1	3	62	5	6	0	8	44	148	33	59	0	59	14	29	0	0	471
0600-0700	11	0	109	7	7	0	4	19	95	36	33	0	63	2	31	0	0	417
0700-0800	7	4	200	13	17	0	11	14	89	44	53	0	97	15	55	0	0	619
0800-0900	31	5	376	8	14	0	32	16	66	39	79	0	147	12	48	0	0	873
0900-1000	36	5	563	11	24	0	31	14	70	30	53	0	116	41	37	0	0	1031
1000-1100	76	7	539	23	17	0	42	24	65	42	37	1	139	15	18	1	0	1046
1100-1200	102	8	557	16	19	0	45	24	83	60	39	0	118	9	26	0	0	1106
1200-1300	83	5	522	16	18	0	38	37	50	49	27	0	73	12	23	0	0	953
1300-1400	92	6	560	12	21	0	34	38	67	75	34	0	84	22	32	0	0	1077
1400-1500	97	5	559	13	5	1	36	24	76	79	34	0	55	15	21	0	0	1020
1500-1600	103	8	585	18	14	0	42	22	66	60	48	0	80	19	27	0	0	1092
1600-1700	60	11	583	20	16	0	39	35	69	102	59	0	144	35	23	1	0	1197
1700-1800	82	8	602	11	10	0	34	40	79	100	50	0	99	11	27	0	0	1153
1800-1900	79	4	740	13	17	0	34	43	59	76	83	0	113	14	35	0	5	1315
1900-2000	42	17	501	12	20	0	22	34	45	121	100	0	156	24	28	0	0	1122
2000-2100	53	5	414	18	37	2	32	40	32	100	91	0	113	30	27	0	0	994
2100-2200	24	3	292	18	19	0	28	47	23	91	61	0	101	21	22	0	0	750
2200-2300	22	1	245	11	23	0	20	62	15	113	85	0	147	21	21	0	0	786
2300-0000	14	1	189	9	20	0	15	59	5	73	61	0	99	17	19	0	0	581
Total	1047	107	8709	281	366	3	608	776	1350	1716	1526	1	2453	404	699	2	5	20053

NATIONAL TRANSPORT RESEARCH CENTRE

TABLE-26

Total Classified Traffic Count on Motorway M-09 South to North

ANNEX-IV

Time (Hours)	Motor-cycle	M.Cycle Rickshaw	Car/Jeep/Pajero/Taxi/Suzuki etc	Suzuki Pickup (Small)	Pickup Large (Toyota, Nissan, Datsun etc)	Tractor without trolley	Wagon / Hiace/ Transit (upto 24 seats)	Mini Truck	Bus, Coach (Greater than 24 Seats)	Truck (2 Axles)	Truck (3 Axles)	Tractor with Trolley	Truck (4 Axles)	Truck (5 Axles)	Truck (6 Axles)	Const. Machinery	Other	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
0000-0100	10	2	311	7	25	0	62	49	101	99	71	0	119	7	26	0	0	889
0100-0200	6	2	118	5	28	0	33	34	49	108	64	0	86	4	34	0	0	571
0200-0300	0	0	85	0	9	0	26	18	49	123	79	0	102	12	25	1	0	529
0300-0400	3	0	185	6	14	0	18	33	27	137	68	0	62	9	10	0	0	572
0400-0500	3	0	88	2	20	0	12	42	20	218	157	0	170	25	19	0	0	776
0500-0600	0	3	82	2	11	0	12	17	18	86	102	0	176	29	39	0	0	577
0600-0700	2	4	78	2	17	0	17	23	33	60	83	0	149	14	11	0	0	493
0700-0800	14	0	142	2	16	0	12	30	32	79	102	0	152	27	27	0	0	635
0800-0900	48	10	391	9	16	0	36	9	37	55	72	1	113	19	32	0	0	848
0900-1000	56	7	463	16	10	0	39	21	82	71	49	0	79	14	49	0	0	956
1000-1100	74	7	529	17	19	1	45	21	108	47	68	2	51	6	38	0	0	1033
1100-1200	68	4	520	16	15	1	43	22	103	44	50	1	41	5	33	0	0	966
1200-1300	59	6	458	14	21	0	34	26	79	40	38	1	27	5	27	0	4	839
1300-1400	66	5	517	15	21	0	43	18	72	46	35	1	23	10	16	0	0	888
1400-1500	85	8	432	17	19	0	40	38	78	66	44	1	32	11	26	0	0	897
1500-1600	85	6	456	35	27	0	56	33	70	76	43	0	45	8	14	0	0	954
1600-1700	85	7	508	17	17	1	31	26	75	87	51	1	77	16	23	0	0	1022
1700-1800	55	5	507	16	11	0	35	29	67	102	49	1	53	10	17	0	0	957
1800-1900	49	3	553	19	23	0	51	50	81	64	50	1	71	14	24	0	0	1053
1900-2000	35	0	504	17	36	0	29	39	57	79	43	1	87	15	30	3	0	975
2000-2100	45	4	553	6	45	0	53	65	81	62	56	0	86	13	40	0	0	1109
2100-2200	16	2	573	6	42	2	52	43	88	80	58	0	65	20	22	3	0	1072
2200-2300	12	0	482	14	50	0	41	33	77	121	53	0	93	17	26	1	0	1020
2300-0000	7	0	457	6	30	0	72	50	96	95	50	0	129	42	22	2	0	1058
Total	883	85	8992	266	542	5	892	769	1580	2045	1535	11	2088	352	630	10	4	20689

NATIONAL TRANSPORT RESEARCH CENTRE

TABLE-27

Total Classified Traffic Count on Motorway M-09 (both Sides)

ANNEX-IV

Time (Hours)	Motor-cycle	M.Cycle Rickshaw	Car/Jeep/Pajero/Taxi/Suzuki etc	Suzuki Pickup (Small)	Pickup Large (Toyota, Nissan, Datsun etc)	Tractor without trolley	Wagon / Hiace/ Transit (upto 24 seats)	Mini Truck	Bus, Coach (Greater than 24 Seats)	Truck (2 Axles)	Truck (3 Axles)	Tractor with Trolley	Truck (4 Axles)	Truck (5 Axles)	Truck (6 Axles)	Const. Machinery	Other	Total
0000-0100	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
0100-0200	28	3	465	17	37	0	81	80	104	186	189	0	230	25	52	0	0	1497
0200-0300	7	2	227	9	35	0	42	54	55	197	149	0	188	11	56	0	0	1032
0300-0400	4	0	192	5	18	0	34	47	61	211	156	0	202	22	59	1	0	1012
0400-0500	7	0	262	10	24	0	37	60	74	200	155	0	112	18	38	0	0	997
0500-0600	8	0	152	6	24	0	18	75	100	284	230	0	257	36	59	0	0	1249
0600-0700	1	6	144	7	17	0	20	61	166	119	161	0	235	43	68	0	0	1048
0700-0800	13	4	187	9	24	0	21	42	128	96	116	0	212	16	42	0	0	910
0800-0900	21	4	342	15	33	0	23	44	121	123	155	0	249	42	82	0	0	1254
0900-1000	79	15	767	17	30	0	68	25	103	94	151	1	260	31	80	0	0	1721
1000-1100	92	12	1026	27	34	0	70	35	152	101	102	0	195	55	86	0	0	1987
1100-1200	150	14	1068	40	36	1	87	45	173	89	105	3	190	21	56	1	0	2079
1200-1300	170	12	1077	32	34	1	88	46	186	104	89	1	159	14	59	0	0	2072
1300-1400	142	11	980	30	39	0	72	63	129	89	65	1	100	17	50	0	4	1792
1400-1500	158	11	1077	27	42	0	77	56	139	121	69	1	107	32	48	0	0	1965
1500-1600	182	13	991	30	24	1	76	62	154	145	78	1	87	26	47	0	0	1917
1600-1700	188	14	1041	53	41	0	98	55	136	136	91	0	125	27	41	0	0	2046
1700-1800	145	18	1091	37	33	1	70	61	144	189	110	1	221	51	46	1	0	2219
1800-1900	137	13	1109	27	21	0	69	69	146	202	99	1	152	21	44	0	0	2110
1900-2000	128	7	1293	32	40	0	85	93	140	140	133	1	184	28	59	0	5	2368
2000-2100	77	17	1005	29	56	0	51	73	102	200	143	1	243	39	58	3	0	2097
2100-2200	98	9	967	24	82	2	85	105	113	162	147	0	199	43	67	0	0	2103
2200-2300	40	5	865	24	61	2	80	90	111	171	119	0	166	41	44	3	0	1822
2300-0000	34	1	727	25	73	0	61	95	92	234	138	0	240	38	47	1	0	1806
Total	1930	192	17701	547	908	8	1500	1545	2930	3761	3061	12	4541	756	1329	12	9	40742

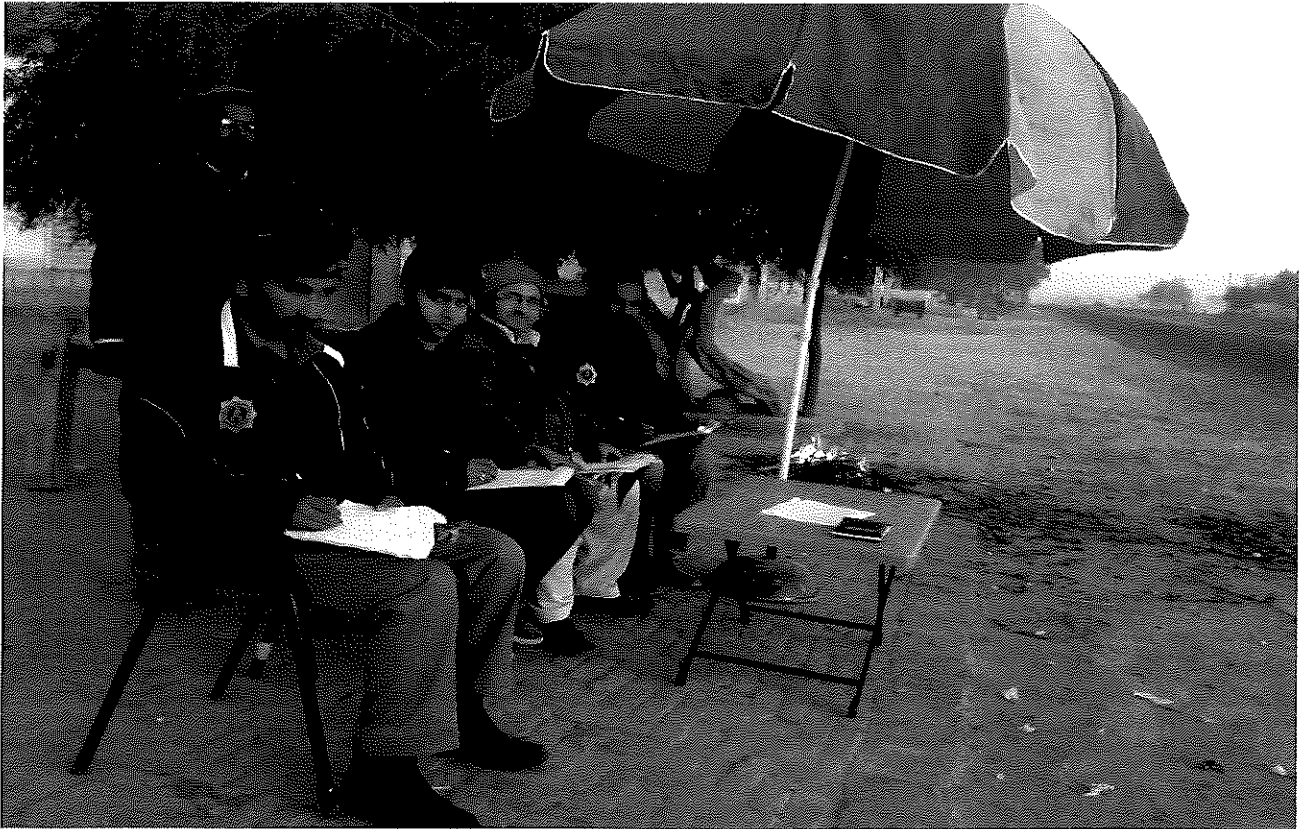
ANNEX-V



Advance Information to the Road Users regarding Traffic Count Survey



Safety Measure adopted during Traffic Count



Surprise Visit of NTRC Officer during Traffic Counting



Survey Team of NTRC and NH & MP during Traffic Count



Setting up of Traffic Count Station



Setting up of Traffic Count Station



NTRC and NH & MP Officials Visited the Traffic Count Station



On spot briefing / Training of NH & MP officials regarding Traffic Count