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

NTRC-295

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EXECUTIVE SUMMARY

As per request made by National Highway & Motorway Police, NTRC conducted Manual Traffic Count Survey on various sections of N-05 from Peshawar to Multan, M-1, M-2 and M-3 in June 2008. With the increase in traffic on the remaining sections of N-05 from Multan to Hyderabad and the rapid growth of traffic on Hyderabad – Karachi Super Highway, now designated as M-9, it was considered imperative to enhance the coverage of the survey up to Karachi. The objective of the survey was to update traffic data on the remaining portion of N-05 and M-9, which was required by NH & MP. The data thus obtained would help providing basis for developing operational policy in future, which includes resource allocations and up gradation of administrative arrangements in accordance with size of beats, sectors, zones etc.

The present survey was conducted on N-05 (Multan to Hyderabad) and M-9 during the February – March 2012. The survey lasted for 16 days and classified traffic count was recorded for 24 hours at seven survey points. Of these points, five were located on N-05 as many sections from Multan to Hyderabad and two on M-9 from Hyderabad – Nooriabad – Karachi. A team comprising NTRC and NH & MP staff was arranged for survey. The team consists of 24 Enumerators two relievers and one driver headed by Assistant Chief NTRC. It may be mentioned that NH & MP made arrangements for deputing three staff members from Lines office Islamabad, who remained with the team throughout the survey period, and about five to eight officials joined the survey team from various camp offices / beats set up already N-05 and M-9. The team was divided in three groups for three shifts, each spread over 8 hours to collect traffic flow information for 24 hours at each of the survey points. NTRC officials had imparted training to the staff of NH & MP to get them familiarized in undertaking classified traffic count as well as filling Performa to record classified volume at each point.

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.

6. Field staff was provided with all necessary equipment. Hourly classified traffic counts were taken manually in each direction, without any break, for 24 hours at each station. A team comprising of following member was assigned to carryout the survey:-

Assistant Chief	:	Team Leader
Enumerator	:	24
Reliever	:	03
Driver	:	01

4. Survey Locations

7. Seven survey points were chosen under this programme. Five points were selected on N-05 and two points on M-09, which are shown below:-

SURVEY POINTS AT N-05

S.No	Name of Section	Name of Points
01	Multan - Lodharan	Near Jillah Arrian Police Station
02	Lodharan - Bahawalpur	Near Sutluj Toll Plaza
03	Bahawalpur - Sadiqabad	Near Sadiqabad Toll Plaza
04	Sadiqabad – Sukkur	Near Rohri By Pass Toll Plaza
05	Sukkur- Hyderabad	Near Saeedabad Toll Plaza

SURVEY POINTS AT M-09

S.No	Name of Section	Name of Points
01	Hyderabad – Nooriabad	Near Jamshoro Toll Plaza
02	Nooriabad – Karachi	Near Nooriabad Police Station

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:

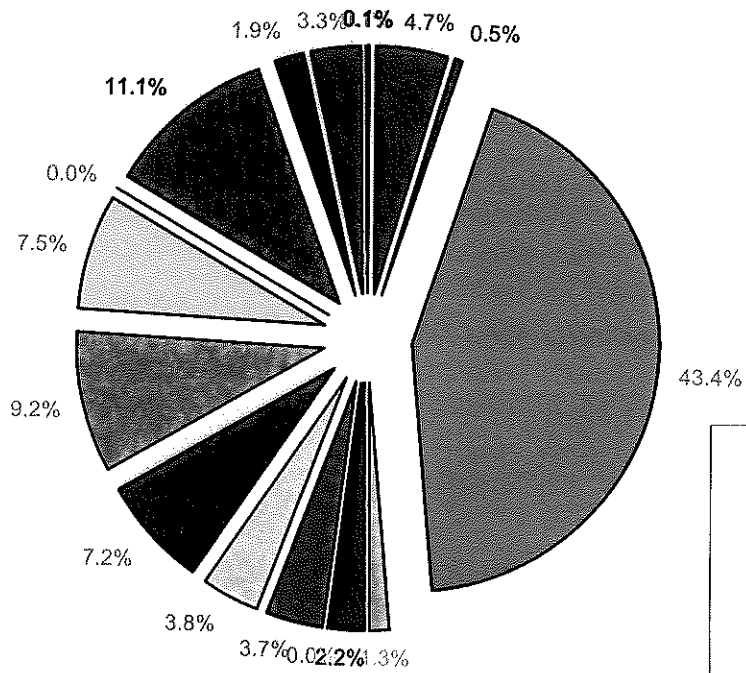
12. In general, classified volume is important for estimating highway user revenues, analysis of capacity in determining the effect of commercial vehicles and structural design of the pavement, bridges and other highway/motorway facilities. As described above, manual classified counts were taken as may 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 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 / 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	18
1	24-02-2012	Jiljan 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	Sutluj 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	19654
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	7634	6046	1305	9687	1364	2706	37	17	86561

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 / 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	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	986	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	2959	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	Sujitj 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	Rohri 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

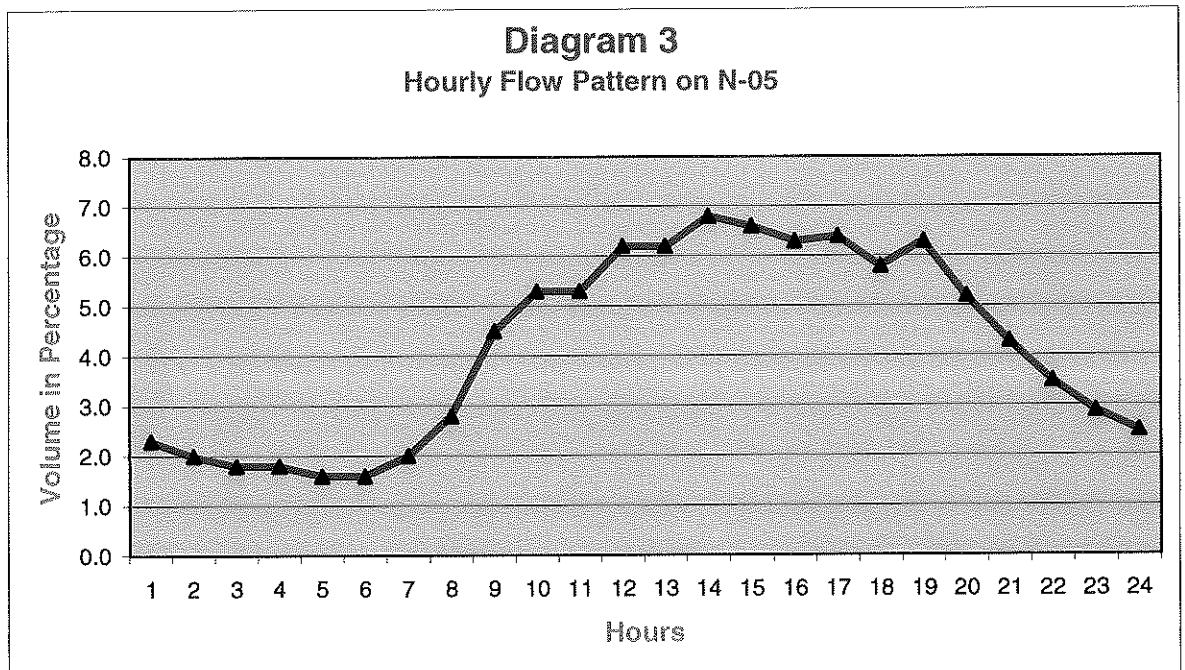
Percentage Composition by Type of Vehicle on Motorway M-09 Survey Points

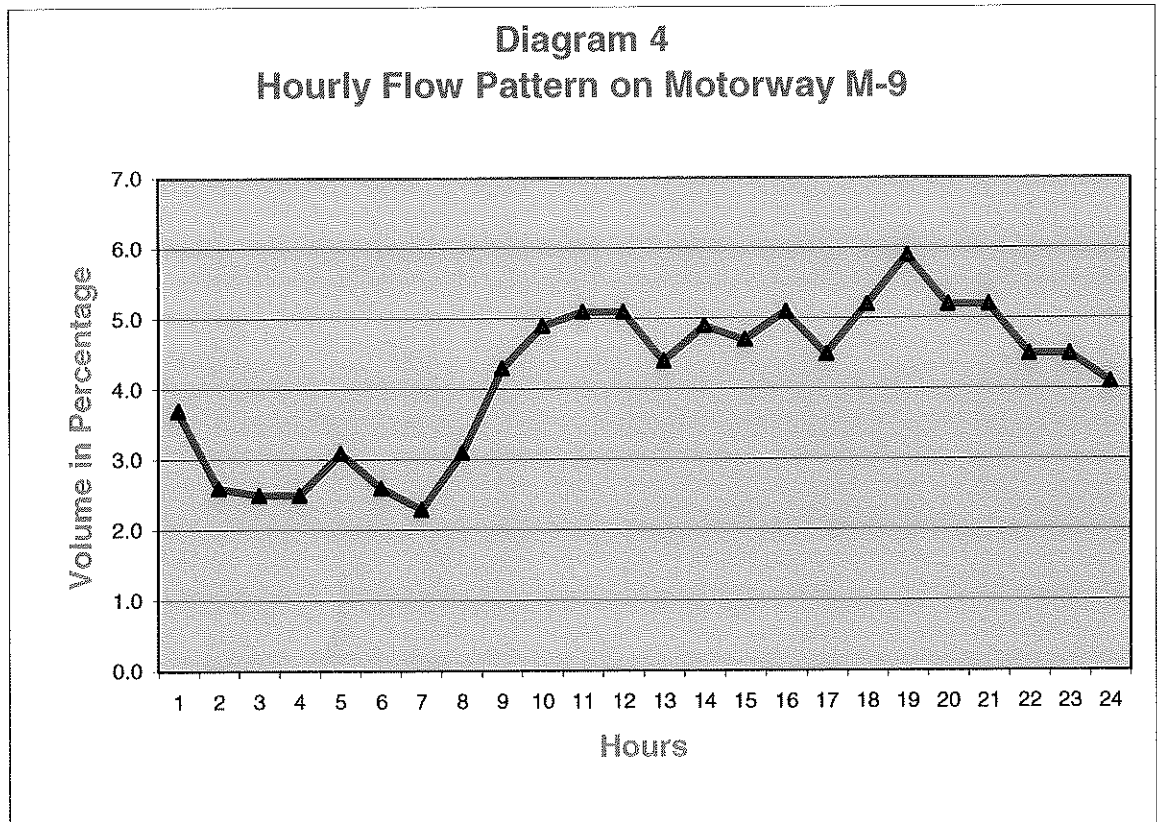
S.No.	Date	Name of Station	Motor-cycle	M.Cycle Rickshaw	Car/Jeep/Pajero/Taxi/Suzuki etc	Suzuki Pickup (Small)	Pickup Large (Toyota, Nissan, Datsun etc)	Tractor without trolley	Wagon / Hiace/ Transit (upto 24 seats)	Mini Truck	Bus, Coach (Greater than 24 Seats)	Truck (2 Axles)	Truck (3 Axles)	Tractor 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 Noonabad	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.





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 8.3), 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	W
				UP	Down		
1	24-02-2012	Friday	Multan - Lodharan	4595 (47.8%)	5020 (52.2%)	9615	
2	25-02-2012	Saturday	Lodharan - Bahawalpur	11865 (48.6%)	12534 (51.4%)	24399	
3	28-02-2012	Tuesday	Bahawalpur - Sadiqabad	7641 (52.2%)	7001 (47.8%)	14642	
4	01-03-2012	Thursday	Sadiqabad - Sukkur	9776 (49.7%)	9878 (50.3%)	19654	
5	03-03-2012	Saturday	Sukkur- Hyderabad	8463 (41.8%)	11788 (58.2%)	20251	

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

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

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. normal practice is to take the period from 7 A.M to 11 P.M for 16-hours count. However, reliable Composition Factors, must be used simultaneously if correction ratios are applied. Though the reliability of data is affected by 10% - 20%, but

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
2. Mr. Mumtaz Hussain Malik and Mr. Shahbaz Latif Mirza, NTRC Report on Traffic Count on M9, 2007.
3. Pakistan Transport Plan Study (PTPS), (March, 2006)
4. Masoud Bakht and Shahbaz Latif Mirza, NTRC Report on Traffic Counts M-1, M-2, M-3 and N-05, 2008

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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

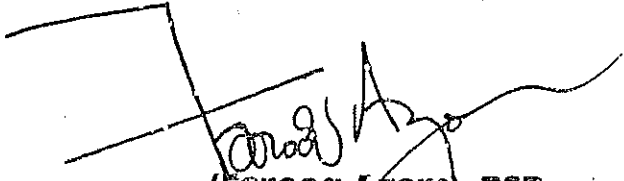
Islamabad, the 12th Aug, 2011

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

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

Islamabad the 22 - 02 - 2012

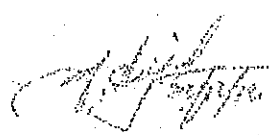
The Assistant Chief,
National Transport Research Center (NTRC),
Sector H-8/2,
ISLAMABAD.

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

Annex II

SOUTH ZONE

NATIONAL TRANSPORT RESEARCH CENTRE (NTRC)

CLASSIFIED TRAFFIC COUNT SURVEY FORM

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

Direction: From	To																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
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	Others
0000-0100																	
0100-0200																	
0200-0300																	
0300-0400																	
0400-0500																	
0500-0600																	
0600-0700																	
0700-0800																	
0800-0900																	
0900-1000																	
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1800-1900																	
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2000-2100																	
2100-2200																	
2200-2300																	
2300-0000																	

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

ANNEX-IV

TABLE-1

CLASSIFIED TRAFFIC COUNT SURVEY AT JALLAHARIAN N-05

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	2	2	6	13	10	5	5	0	2	0	0	72
0800-0900	5	0	30	3	9	1	7	0	3	16	14	2	12	2	0	0	0	104
0900-1000	52	1	76	5	4	3	21	2	2	16	15	2	7	3	0	0	0	209
1000-1100	89	1	105	0	4	2	12	5	3	7	4	2	11	0	5	1	0	251
1100-1200	121	3	99	2	0	2	15	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
	2	1	60	3	4	1	4	6	4	17	20	0	14	1	5	0	0	142
Total	979	19	1972	33	143	22	288	123	150	257	236	43	244	24	59	3	0	4595

NATIONAL TRANSPORT RESEARCH CENTRE

ANNEX-IV

TABLE-2

CLASSIFIED TRAFFIC COUNT SURVEY AT JALLAH ARIAN N-05

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	74
0200-0300	0	0	31	0	1	0	1	0	7	4	6	0	6	0	0	1	0	57
0300-0400	0	0	29	0	5	0	2	0	3	7	3	0	1	0	0	0	0	50
0400-0500	0	0	14	0	1	0	0	1	2	7	6	0	3	0	2	0	0	36
0500-0600	0	0	12	0	0	0	1	2	4	2	6	0	2	0	3	0	0	32
0600-0700	5	0	14	1	1	0	2	2	1	5	13	0	1	0	1	0	0	41
0700-0800	15	0	25	0	4	0	2	2	5	7	6	0	7	0	1	0	0	64
0800-0900	74	5	38	2	1	1	6	2	5	11	8	1	17	1	3	1	0	112
0900-1000	90	2	99	2	7	1	20	3	6	9	2	3	4	3	4	0	0	242
1000-1100	105	1	96	3	8	1	19	4	10	9	6	3	13	1	1	0	0	266
1100-1200	137	2	125	2	4	0	15	5	6	12	8	2	5	2	7	0	0	299
1200-1300	149	1	150	3	6	4	14	2	6	9	7	7	4	1	4	0	0	356
1300-1400	110	2	162	2	4	0	17	5	6	7	9	4	14	0	4	0	0	384
1400-1500	100	2	185	2	8	0	13	1	5	7	0	2	2	1	1	0	0	339
1500-1600	149	0	169	3	8	0	23	6	4	8	4	1	11	1	0	0	0	340
1600-1700	109	5	186	1	8	3	25	4	13	9	5	2	9	1	2	0	0	417
1700-1800	128	0	187	3	11	2	13	5	5	10	3	3	10	0	0	0	0	366
1800-1900	110	3	156	2	9	0	17	6	2	12	5	3	3	1	2	0	0	346
1900-2000	75	3	214	1	11	1	12	4	3	14	8	3	4	0	3	0	0	391
2000-2100	21	1	153	1	5	1	9	6	3	11	1	3	8	0	5	1	0	285
2100-2200	6	0	117	1	8	1	11	4	5	13	3	2	4	1	1	0	0	193
2200-2300	2	0	70	0	3	0	4	6	2	14	5	1	5	1	3	0	0	120
2300-0000	0	0	59	0	6	1	5	5	8	20	6	1	5	2	1	0	0	121
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	
0100-0200	2	0	82	2	3	0	21	7	10	24	19	0	20	2	5	0	0	197
0200-0300	0	0	56	1	2	0	7	3	13	13	17	0	15	0	2	1	0	130
0300-0400	0	1	45	0	7	0	7	6	7	14	16	1	7	1	0	0	0	112
0400-0500	0	2	40	1	1	0	3	7	9	19	14	0	7	2	2	0	0	107
0500-0600	0	0	24	1	3	0	1	4	12	5	20	0	7	1	5	0	0	83
0600-0700	2	0	23	1	3	0	4	5	10	19	22	0	9	0	1	0	0	99
0700-0800	6	1	46	1	7	0	4	4	11	20	16	5	12	0	3	0	0	136
0800-0900	20	0	68	5	10	2	13	2	8	27	22	3	29	3	3	1	0	216
0900-1000	126	6	175	7	11	4	41	5	8	25	17	5	11	6	4	0	0	451
1000-1100	179	3	201	3	12	3	31	9	13	16	10	5	24	1	6	1	0	517
1100-1200	226	4	224	4	4	2	30	9	12	18	12	4	15	3	7	0	0	574
1200-1300	237	2	242	6	11	6	34	7	10	16	15	13	19	1	4	0	0	623
1300-1400	246	2	275	2	10	0	37	7	9	14	20	5	26	3	5	0	0	661
1400-1500	183	4	316	5	19	2	34	11	15	16	1	4	11	1	1	0	0	623
1500-1600	164	3	316	4	15	0	43	13	9	9	12	4	19	3	5	0	0	619
1600-1700	228	1	300	1	14	5	46	8	18	22	14	6	21	1	5	2	0	692
1700-1800	214	5	324	6	19	4	32	13	15	22	7	7	24	1	0	0	0	693
1800-1900	184	0	264	4	21	0	39	12	13	22	13	5	14	3	6	0	0	606
1900-2000	102	6	312	3	25	1	26	16	14	25	12	6	16	0	9	0	0	691
2000-2100	41	1	273	1	15	1	19	14	12	21	12	4	21	1	7	1	0	561
2100-2200	10	0	174	1	7	0	20	13	14	26	22	3	18	1	6	0	0	451
2200-2300	2	0	122	0	8	6	8	10	14	35	10	1	9	3	7	0	0	307
2300-0000	2	1	109	3	7	1	6	13	14	24	20	5	17	2	7	0	0	235
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
0000-0100	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
0100-0200	4	3	61	0	3	1	6	4	4	32	34	10	37	5	23	0	0	227
0200-0300	2	2	85	1	6	0	7	9	15	37	22	2	36	2	4	0	0	230
0300-0400	1	2	43	0	6	2	5	7	27	19	18	0	17	7	5	0	0	159
0400-0500	1	1	53	1	2	0	2	9	26	30	21	0	18	10	9	0	0	183
0500-0600	1	2	20	2	1	1	1	4	18	16	20	0	22	2	2	0	0	112
0600-0700	7	2	12	2	7	1	5	5	20	17	30	2	22	1	4	0	0	137
0700-0800	15	16	53	2	7	0	3	3	35	21	17	1	31	4	9	2	0	219
0800-0900	32	18	52	6	11	0	11	12	9	10	22	6	27	4	5	0	0	225
0900-1000	198	36	150	5	7	0	46	8	3	15	22	6	38	4	8	0	0	546
1000-1100	215	53	168	6	10	0	38	9	7	17	28	4	49	2	5	0	0	611
1100-1200	289	67	217	9	10	2	44	7	9	15	29	2	65	9	8	0	0	782
1200-1300	271	66	211	9	7	0	59	13	14	21	23	5	55	7	5	0	0	766
1300-1400	300	55	260	8	11	1	39	11	23	25	24	3	46	5	7	0	0	818
1400-1500	274	27	281	8	7	0	49	8	15	16	14	8	54	2	10	0	0	773
1500-1600	241	51	257	9	8	0	40	10	10	18	14	8	39	7	11	0	0	723
1600-1700	230	54	224	9	12	0	44	6	18	20	16	18	48	2	8	0	0	709
1700-1800	270	42	247	6	12	0	45	6	16	34	20	11	45	7	7	0	0	768
1800-1900	277	55	251	10	10	0	30	11	25	17	16	7	52	4	8	1	0	774
1900-2000	230	61	310	10	11	0	29	12	26	24	25	5	39	14	15	0	0	811
2000-2100	138	45	210	12	17	0	31	14	19	28	18	12	46	3	9	1	0	603
2100-2200	98	10	335	16	9	1	37	7	18	36	18	8	41	8	16	0	0	658
2200-2300	42	14	285	5	7	0	10	5	10	21	25	8	35	3	6	0	0	476
2300-0000	14	2	140	5	5	0	14	9	16	36	22	6	40	5	8	0	0	322
Total	8	2	123	2	5	0	5	9	9	17	14	2	31	5	1	0	0	233
	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 Sutluji toll Plaza
Direction From: Bahawalpur 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	10	1	59	3	6	1	4	11	17	20	18	9	28	5	16	0	0	208
0200-0300	2	1	71	0	5	0	5	10	13	15	12	1	26	3	15	0	0	179
0300-0400	2	2	37	1	2	0	2	5	7	17	7	0	13	14	13	0	0	122
0400-0500	1	0	20	0	3	0	4	12	8	16	4	1	30	4	5	0	0	108
0500-0600	1	1	19	1	2	0	0	3	6	9	20	3	23	3	8	0	0	99
0600-0700	5	0	27	7	3	0	2	10	5	15	10	0	34	7	23	0	0	148
0700-0800	19	9	62	6	2	0	13	8	15	30	12	6	41	5	15	0	0	243
0800-0900	76	13	112	2	17	0	19	6	11	18	16	3	58	8	9	0	0	368
0900-1000	206	28	126	8	6	0	24	2	21	17	28	1	55	15	16	0	0	553
1000-1100	224	37	239	17	7	0	26	4	9	16	46	3	72	6	15	0	0	721
1100-1200	228	27	175	14	11	1	31	6	13	26	24	0	50	0	21	0	0	627
1200-1300	308	76	272	21	22	3	54	11	9	34	36	3	63	6	26	0	0	944
1300-1400	288	45	239	13	15	2	43	7	12	185	25	3	47	4	11	0	0	939
1400-1500	460	81	336	16	19	0	48	6	8	23	35	3	35	7	15	0	0	1092
1500-1600	389	47	444	15	24	0	42	5	12	24	18	3	36	3	12	0	0	1074
1600-1700	280	44	275	17	19	1	32	13	7	26	26	4	31	11	11	1	0	798
1700-1800	288	43	265	10	17	0	46	11	13	27	10	4	37	3	19	0	0	793
1800-1900	161	25	153	19	5	0	25	7	6	21	17	8	34	2	15	0	0	498
1900-2000	208	22	227	20	19	0	25	15	7	35	23	6	36	9	16	0	0	668
2000-2100	166	21	194	20	16	0	20	11	10	27	27	7	42	14	23	0	0	598
2100-2200	129	22	244	4	2	2	15	6	14	31	26	9	43	6	10	0	0	563
2200-2300	94	21	263	9	2	0	10	10	21	26	17	12	25	8	10	1	0	529
2300-0000	39	8	177	11	4	1	10	9	15	23	15	7	20	8	14	0	0	361
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

TABLE-6

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 / 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	14	4	120	3	9	2	10	15	21	52	52	19	65	10	39	0	0	435
0100-0200	4	3	156	1	11	0	12	19	28	52	34	3	62	5	19	0	0	409
0200-0300	3	4	80	1	8	2	7	12	34	36	25	0	30	21	18	0	0	281
0300-0400	2	1	73	1	5	0	6	21	34	46	25	1	48	14	14	0	0	291
0400-0500	2	3	39	3	3	1	1	7	24	25	40	3	45	5	10	0	0	211
0500-0600	12	2	39	9	10	1	7	15	25	32	40	2	56	8	27	0	0	285
0600-0700	34	25	115	8	9	0	16	11	50	51	29	7	72	9	24	2	0	462
0700-0800	108	31	164	8	28	0	30	18	20	28	38	9	85	12	14	0	0	593
0800-0900	404	64	276	13	13	0	70	10	24	32	50	7	93	19	24	0	0	1099
0900-1000	439	90	407	23	17	0	64	13	16	33	74	7	121	8	20	0	0	1332
1000-1100	517	94	392	23	21	3	75	13	22	41	53	2	115	9	29	0	0	1409
1100-1200	579	142	483	30	29	3	113	24	23	55	59	8	118	13	31	0	0	1710
1200-1300	588	100	499	21	26	3	82	18	35	210	49	6	93	9	18	0	0	1757
1300-1400	734	108	617	24	26	0	97	14	23	39	49	11	89	9	25	0	0	1865
1400-1500	630	98	701	24	32	0	82	15	22	42	32	11	75	10	23	0	0	1797
1500-1600	510	98	499	26	31	1	76	19	25	46	42	22	79	13	19	1	0	1507
1600-1700	558	85	512	16	29	0	91	17	29	61	30	15	82	10	26	0	0	1561
1700-1800	438	80	404	29	15	0	55	18	31	38	33	15	86	6	23	1	0	1272
1800-1900	438	83	537	30	30	0	54	27	33	59	48	11	75	23	31	0	0	1479
1900-2000	304	66	404	32	33	0	51	25	29	55	45	19	88	17	32	1	0	1201
2000-2100	227	32	579	20	11	3	52	13	32	67	44	17	84	14	26	0	0	1221
2100-2200	136	35	548	14	9	0	20	15	31	47	42	20	60	11	16	1	0	1005
2200-2300	53	10	317	16	9	1	24	18	31	59	37	13	60	13	22	0	0	683
2300-0000	25	6	253	7	13	0	9	23	33	43	33	10	57	12	10	0	0	534
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

SURVEY FORM "E"
South Bound

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

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
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
0000-0100	0	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	467
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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	161
0100-0200	0	0	34	1	5	0	1	6	9	29	9	0	49	1	17	0	0	154
0200-0300	0	0	14	0	4	0	0	4	11	18	23	0	56	11	13	0	0	178
0300-0400	1	0	19	0	0	0	1	1	10	11	46	0	74	3	12	0	0	161
0400-0500	0	0	14	0	1	0	1	2	10	28	20	3	68	4	10	0	0	123
0500-0600	0	0	14	0	1	0	1	1	21	20	23	0	29	1	12	0	0	111
0600-0700	2	1	9	0	0	0	1	1	17	15	18	1	33	4	9	0	0	190
0700-0800	20	2	26	2	3	0	9	1	25	29	13	7	43	4	5	1	0	214
0800-0900	40	3	28	0	3	0	18	3	17	26	10	8	44	1	13	0	0	282
0900-1000	129	6	58	5	1	0	10	4	14	20	4	5	17	0	9	0	0	325
1000-1100	131	11	73	4	3	0	11	3	15	32	16	3	10	3	10	0	0	383
1100-1200	134	13	87	5	3	0	10	11	22	28	26	4	18	3	19	0	0	424
1200-1300	164	7	104	10	2	0	10	11	16	39	33	4	11	5	8	0	0	409
1300-1400	174	6	96	10	4	0	9	5	12	29	29	4	17	6	8	0	0	450
1400-1500	155	14	144	8	7	1	5	7	13	24	28	6	17	6	15	0	0	372
1500-1600	152	12	81	6	5	0	9	9	13	31	19	3	19	6	7	0	0	444
1600-1700	167	6	105	6	4	2	11	16	13	44	21	6	31	5	7	0	0	482
1700-1800	159	18	124	11	6	1	9	13	19	43	20	7	31	5	16	0	0	446
1800-1900	165	14	112	7	2	2	4	14	26	31	20	7	27	5	10	0	0	412
1900-2000	172	11	104	5	4	0	2	9	17	36	24	4	18	2	4	0	0	385
2000-2100	91	3	80	4	15	2	3	4	21	44	63	5	33	4	13	0	0	296
2100-2200	30	5	65	8	6	4	2	1	27	38	43	3	40	7	17	0	0	219
2200-2300	20	2	56	3	8	2	3	1	12	22	25	3	54	0	8	0	0	197
2300-0000	12	3	45	0	6	0	6	2	12	30	19	2	46	2	12	0	0	183
Total	4	0	41	0	4	1	1	4	5	28	14	6	54	10	10	1	0	7001
	1922	137	1533	95	97	15	137	133	377	695	566	91	839	98	264	2	0	7001

TABLE-9

NATIONAL TRANSPORT RESEARCH CENTRE

ANNEX-IV

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

Date 28-29-02-2012 Day: Tuesday Start Time 0800 End Time 0800 (24 hrs)

Location Sadigabab 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 / 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	337
0100-0200	2	0	53	1	21	0	2	12	24	49	28	1	110	8	26	0	0	340
0200-0300	0	0	27	0	8	0	2	12	30	50	51	5	113	17	25	0	0	342
0300-0400	3	0	36	0	2	0	16	10	23	33	61	1	126	10	18	3	0	316
0400-0500	0	0	29	0	9	0	3	8	29	52	41	4	104	12	25	0	0	264
0500-0600	1	0	31	3	1	1	5	6	33	42	39	1	71	8	22	0	0	272
0600-0700	6	2	24	1	2	0	9	6	41	39	39	3	64	15	21	0	0	392
0700-0800	37	3	46	6	4	0	13	2	45	52	47	8	98	11	19	1	0	596
0800-0900	120	13	73	13	12	0	39	19	57	58	40	8	104	10	30	0	0	681
0900-1000	286	18	117	8	7	0	21	7	27	58	33	7	67	5	20	0	0	730
1000-1100	272	23	154	11	8	0	15	4	31	62	45	8	62	10	25	0	0	770
1100-1200	280	17	173	10	9	0	18	14	35	54	51	14	64	7	24	0	0	865
1200-1300	318	16	223	14	8	0	19	11	30	50	65	8	66	13	24	0	0	812
1300-1400	325	10	209	15	7	0	17	9	22	46	56	8	59	7	22	0	0	881
1400-1500	298	23	277	14	14	1	20	11	20	40	48	8	71	9	27	0	0	798
1500-1600	292	32	187	11	14	1	20	14	28	59	40	9	68	8	15	0	0	854
1600-1700	283	12	196	14	18	3	23	21	24	64	46	10	100	11	29	0	0	949
1700-1800	302	28	258	18	13	2	24	16	22	71	36	15	111	11	22	0	0	936
1800-1900	298	23	235	12	9	4	20	16	41	67	55	14	108	6	28	0	0	888
1900-2000	311	22	208	22	15	4	14	12	29	79	56	11	84	4	17	0	0	636
2000-2100	128	9	127	7	20	3	7	8	34	66	93	8	93	6	27	0	0	581
2100-2200	58	11	148	13	13	4	8	8	44	68	88	9	72	10	27	0	0	500
2200-2300	40	4	111	5	17	5	9	5	43	45	77	10	110	5	14	0	0	474
2300-0000	21	5	99	2	14	0	17	5	46	70	48	11	91	12	33	0	0	428
Total	9	0	80	0	13	1	4	8	39	62	46	8	117	15	25	1	0	14642
	3690	271	3121	200	258	29	345	244	797	1336	1229	189	2133	230	565	5	0	

NATIONAL TRANSPORT RESEARCH CENTRE

TABLE-10

ANNEX-IV

CLASSIFIED TRAFFIC COUNT SURVEY ON ROHRI TOLL PLAZA N-05

Date 01-02-03-2012 Day: Thursday
 Location Rohri Toll Plaza,
 Direction From: Sadiqabad to Sukkur

SURVEY FORM "E"
 South Bound

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	26	0	2	1	10	8	68	25	30	2	59	4	11	0	0	248
0200-0300	0	1	11	1	1	1	10	1	56	23	23	3	54	2	13	0	0	200
0300-0400	0	0	7	0	1	1	5	2	44	19	21	1	37	3	7	0	0	148
0400-0500	4	0	19	0	2	2	1	7	34	20	33	4	35	2	8	0	0	171
0500-0600	6	4	23	0	3	6	14	3	44	24	24	10	63	2	2	0	0	228
0600-0700	12	6	27	7	3	4	9	4	26	13	31	0	36	2	2	0	0	182
0700-0800	25	4	32	1	2	7	18	12	24	7	17	4	42	6	6	0	0	207
0800-0900	80	16	55	4	4	4	36	10	14	33	30	0	49	3	10	0	0	348
0900-1000	116	3	107	3	3	4	46	6	3	29	15	6	64	3	7	0	0	415
1000-1100	179	4	130	1	4	3	52	10	4	32	33	10	82	4	0	0	0	548
1100-1200	179	3	169	0	5	12	62	3	8	35	36	17	88	6	16	0	0	639
1200-1300	221	3	185	11	11	4	61	7	9	28	25	5	34	5	10	0	0	619
1300-1400	283	3	210	1	9	1	59	6	7	41	25	9	54	7	10	1	0	726
1400-1500	242	1	237	3	9	0	46	4	9	43	34	17	57	6	14	0	1	723
1500-1600	198	3	200	6	7	3	49	9	5	43	33	12	64	8	17	0	0	657
1600-1700	187	2	166	9	14	0	43	2	4	45	24	23	54	5	16	0	0	594
1700-1800	145	4	138	5	7	0	39	6	7	41	20	19	40	7	14	0	0	492
1800-1900	159	3	150	2	4	6	33	1	6	32	28	8	72	4	9	0	0	517
1900-2000	182	4	170	5	5	3	24	2	6	34	37	15	73	6	13	1	0	580
2000-2100	102	35	158	24	14	1	14	23	3	51	41	12	72	20	22	2	0	594
2100-2200	17	7	81	5	5	0	6	5	5	37	36	16	55	9	19	0	0	303
2200-2300	12	0	53	8	5	2	5	11	15	29	19	9	64	4	11	0	0	247
2300-0000	7	0	47	5	2	7	15	9	21	36	23	2	42	6	6	0	0	228
Total	2360	106	2427	102	129	74	660	155	444	735	653	206	1340	128	251	4	2	9776

TABLE-11

NATIONAL TRANSPORT RESEARCH CENTRE

ANNEX-IV

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	
0100-0200	7	0	14	0	2	1	3	5	19	35	26	7	57	5	26	0	0	207
0200-0300	2	0	19	0	5	0	4	6	19	29	21	3	49	3	21	0	0	181
0300-0400	0	0	13	0	6	0	7	3	12	54	42	1	54	1	12	0	0	205
0400-0500	1	0	12	0	2	0	1	3	28	21	11	0	24	3	11	0	0	117
0500-0600	1	0	13	1	4	0	0	2	14	36	35	0	34	2	11	0	0	153
0600-0700	1	0	14	0	3	0	0	3	15	58	56	1	46	14	21	1	0	233
0700-0800	8	0	13	4	1	0	2	4	7	46	45	3	33	21	18	0	0	205
0800-0900	31	0	23	3	11	0	8	10	17	31	29	3	45	5	9	0	0	225
0900-1000	131	3	96	14	5	3	15	5	14	24	25	11	62	5	8	0	0	421
1000-1100	173	3	114	6	10	0	25	13	11	32	27	8	69	5	16	0	0	512
1100-1200	177	0	130	4	8	0	21	11	7	40	34	9	68	5	10	0	0	524
1200-1300	74	2	127	9	13	0	28	6	10	42	94	15	72	8	10	0	0	510
1300-1400	163	2	149	9	12	2	29	6	8	32	47	7	29	8	17	0	0	520
1400-1500	217	4	179	12	10	3	36	12	15	32	61	18	59	13	9	0	0	680
1500-1600	207	5	166	7	13	1	23	16	10	46	73	12	62	13	19	0	0	673
1600-1700	235	4	181	3	18	2	24	15	12	36	32	13	54	12	12	0	0	653
1700-1800	244	7	182	7	10	6	21	8	13	27	36	13	65	10	20	0	0	669
1800-1900	231	3	181	17	16	2	28	6	12	42	62	9	66	16	25	0	0	716
1900-2000	252	11	244	27	13	2	31	8	20	45	33	11	84	11	25	0	0	817
2000-2100	82	2	134	15	7	0	18	4	9	55	36	15	92	6	20	0	0	495
2100-2200	31	4	154	16	2	0	4	3	6	37	34	12	94	0	14	0	0	411
2200-2300	19	0	104	9	2	0	0	3	14	40	34	10	96	14	9	0	0	354
2300-0000	6	1	68	5	7	0	3	5	13	19	28	3	59	3	16	0	0	236
Total	2297	53	2363	169	187	22	331	159	310	879	937	188	1425	184	373	1	0	9878

NATIONAL TRANSPORT RESEARCH CENTRE

TABLE-12

ANNEX-IV

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

Thursday

Date 01-02-03-2012 Day:

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	1039
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-14

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 : 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 / 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	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

TABLE-15

NATIONAL TRANSPORT RESEARCH CENTRE

ANNEX-IV

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

Date 03-04-03-2012 Day: Saturday

Location Saeedabad Toll Plaza, Hyderabad (Both side)

Start Time 0800

End Time 0800 (24 hrs)

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	
0100-0200	3	0	102	3	9	0	13	25	57	165	114	28	108	9	21	0	0	657
0200-0300	1	0	68	3	7	0	14	14	40	140	104	13	87	5	29	0	0	525
0300-0400	1	0	42	1	7	0	20	19	53	144	79	16	93	8	22	0	0	505
0400-0500	2	0	44	2	16	0	12	16	74	180	124	0	77	37	27	0	0	611
0500-0600	2	0	32	2	13	2	7	14	49	137	69	6	64	29	22	0	0	448
0600-0700	1	0	31	1	6	4	7	9	47	82	62	4	58	15	18	0	0	345
0700-0800	8	0	38	1	6	9	10	11	36	76	36	5	65	12	27	0	0	340
0800-0900	49	4	54	5	16	2	11	13	26	87	70	17	89	22	26	0	0	491
0900-1000	114	16	244	24	34	1	68	18	33	79	56	11	150	14	39	0	0	901
1000-1100	145	7	382	33	25	1	73	11	54	85	57	10	162	6	29	1	1	1082
1100-1200	33	1	284	4	9	5	69	4	58	72	70	15	136	8	36	1	0	805
1200-1300	137	36	297	11	8	10	93	13	120	84	61	39	148	44	48	0	0	1149
1300-1400	116	17	238	11	15	10	84	13	244	63	59	19	101	24	24	0	0	1038
1400-1500	185	21	304	13	25	12	74	41	72	127	94	14	131	32	62	3	0	1210
1500-1600	169	88	410	16	36	2	69	40	66	121	85	24	126	22	53	0	6	1333
1600-1700	153	53	386	17	26	8	60	39	42	129	87	11	156	25	53	0	3	1248
1700-1800	115	32	324	38	61	6	88	76	71	126	100	25	147	21	69	0	3	1302
1800-1900	124	29	356	21	40	13	62	42	63	93	75	35	93	25	36	1	0	1108
1900-2000	146	29	324	22	52	2	57	50	65	117	96	10	107	36	43	0	2	1158
2000-2100	82	20	297	27	43	6	55	49	40	165	66	23	126	35	50	1	0	1085
2100-2200	32	3	234	24	30	2	41	45	43	163	66	10	81	29	25	3	0	831
2200-2300	11	2	156	12	25	3	19	56	24	159	72	24	55	18	43	2	0	681
2300-0000	23	4	132	9	19	6	10	59	31	170	68	17	114	11	27	2	0	702
Total	1654	362	4931	306	539	107	1032	706	1446	2952	1861	395	2561	501	868	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
	1																	
0000-0100		1	86	2	7	0	11	11	1	55	58	0	54	10	13	0	0	311
0100-0200	0	0	54	2	4	0	8	16	5	43	43	0	59	4	10	0	0	248
0200-0300	0	0	50	2	4	0	7	13	9	35	27	0	40	8	18	0	0	213
0300-0400	0	0	30	3	4	0	16	6	33	35	32	0	28	5	19	0	0	211
0400-0500	0	0	27	4	0	0	0	14	46	27	37	0	42	3	21	0	0	221
0500-0600	1	3	42	3	2	0	1	16	77	14	25	0	26	10	14	0	0	234
0600-0700	4	0	63	5	0	0	2	3	54	20	10	0	27	1	18	0	0	207
0700-0800	3	4	140	6	12	0	8	7	34	24	20	0	38	6	25	0	0	327
0800-0900	24	5	274	7	7	0	25	7	43	27	50	0	86	6	23	0	0	584
0900-1000	22	5	349	2	10	0	25	9	38	22	33	0	71	16	21	0	0	623
1000-1100	42	7	338	6	6	0	30	12	39	25	19	1	92	4	2	0	0	623
1100-1200	51	8	320	9	10	0	26	10	41	34	24	0	73	6	14	0	0	626
1200-1300	47	5	291	9	5	0	23	17	30	29	11	0	46	4	8	0	0	525
1300-1400	70	6	335	4	16	0	17	22	29	40	23	0	46	5	11	0	0	624
1400-1500	69	5	337	5	2	0	21	9	41	55	19	0	35	6	9	0	0	613
1500-1600	75	6	323	7	9	0	22	9	34	39	26	0	44	12	18	0	0	624
1600-1700	35	7	340	7	6	0	25	13	38	76	32	0	107	26	13	0	0	725
1700-1800	36	4	348	3	5	0	21	16	45	60	35	0	56	7	19	0	0	655
1800-1900	40	4	445	5	5	0	15	13	23	53	57	0	65	10	23	0	1	759
1900-2000	19	1	165	2	7	0	7	9	25	64	60	0	85	17	22	0	0	483
2000-2100	18	5	206	5	16	0	20	23	18	47	50	0	53	22	21	0	0	504
2100-2200	3	3	164	11	10	0	12	21	12	54	22	0	54	7	9	0	0	382
2200-2300	5	1	133	6	9	0	11	22	8	48	29	0	80	15	6	0	0	373
2300-0000	6	1	125	5	10	0	10	22	1	46	33	0	56	12	13	0	0	340
Total	572	81	4985	120	166	0	363	320	724	972	775	1	1363	222	370	0	1	11035

NATIONAL TRANSPORT RESEARCH CENTRE

TABLE-17

CLASSIFIED TRAFFIC COUNT SURVEY ON JAMSHORO TOLL PLAZA M-09

ANNEX-IV
SURVEY FORM "E"
South Bound

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

Location Jamshoro Toll Plaza M-9
Direction From: Noorlabad 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

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	1522	1986	1341	11	2094	343	626	5	1	20331

TABLE-19

NATIONAL TRANSPORT RESEARCH CENTRE

CLASSIFIED TRAFFIC COUNT SURVEY ON NOORIABAD M-9

ANNEX-IV
SURVEY FORM "E"
South Bound

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 / 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	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

TABLE-20

NATIONAL TRANSPORT RESEARCH CENTRE
CLASSIFIED TRAFFIC COUNT SURVEY ON NOORIABAD M-9

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 / 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	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	513	21	4639	153	349	4	502	458	782	1031	969	1	1357	231	374	5	4	11393

NATIONAL TRANSPORT RESEARCH CENTRE

TABLE-21

Date 06-07-03-2012 Day: Tuesday
 Location Near Police Station Nooriabad M-9 (Both side)
 Summary of Nooriabad - Karachi Section on M-09 at Nooriabad Police Station

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	21	0	237	11	26	0	53	53	66	78	94	0	130	13	30	0	0	812
0200-0300	3	2	165	3	22	0	15	27	22	94	85	0	89	5	32	0	0	564
0300-0400	4	0	125	3	14	0	13	32	24	143	117	0	142	14	37	0	0	668
0400-0500	5	0	82	4	14	0	11	45	18	144	116	0	83	13	19	0	0	554
0500-0600	6	0	58	0	13	0	14	35	40	144	122	0	134	19	26	0	0	611
0600-0700	0	0	62	2	9	0	17	37	77	55	96	0	123	24	44	0	0	546
0700-0800	7	1	84	2	16	0	15	24	51	42	63	0	110	12	22	0	0	449
0800-0900	11	0	143	7	16	0	12	21	80	71	82	0	140	13	39	0	0	635
0900-1000	26	2	291	6	16	0	31	14	43	49	88	0	167	22	49	0	0	804
1000-1100	39	2	447	21	19	0	33	22	76	35	52	0	118	37	46	0	0	947
1100-1200	81	3	496	22	16	1	38	25	79	39	72	0	96	17	38	1	0	1024
1200-1300	78	1	488	15	15	0	46	28	84	41	44	0	80	8	29	0	0	957
1300-1400	66	0	466	11	25	0	30	35	52	43	39	0	48	10	30	0	4	859
1400-1500	61	1	504	17	17	0	31	27	76	62	33	0	58	26	28	0	0	941
1500-1600	87	2	463	24	9	1	40	37	73	57	53	0	48	19	28	0	0	941
1600-1700	74	4	489	39	16	0	54	33	65	57	46	0	71	12	16	0	0	976
1700-1800	74	7	522	27	17	1	27	30	68	67	54	0	94	19	25	1	0	1033
1800-1900	89	4	519	14	12	0	26	43	72	88	46	1	80	12	11	0	0	1017
1900-2000	74	0	560	21	26	0	35	57	74	54	65	0	95	16	31	0	4	1112
2000-2100	49	16	571	26	39	0	24	53	43	90	71	0	117	14	31	2	0	1146
2100-2200	69	2	530	15	56	2	43	47	55	78	75	0	106	17	28	0	0	1123
2200-2300	27	0	446	8	44	2	52	61	66	66	71	0	79	21	17	0	0	960
2300-0000	27	0	337	12	57	0	29	64	50	105	81	0	119	16	25	1	0	923
Total	988	47	8363	314	549	7	747	914	1408	1775	1720	1	2447	413	703	7	8	20411

NATIONAL TRANSPORT RESEARCH CENTRE

TABLE-22

Total Classified Traffic Count on National Highways N-05 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	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
0000-0100	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	1044
0100-0200	4	1	218	8	18	2	20	35	100	184	142	23	195	13	68	0	0	839
0200-0300	3	2	177	2	19	0	23	27	75	125	113	7	186	20	59	1	0	834
0300-0400	3	0	123	1	18	0	27	15	58	166	150	8	195	21	47	0	0	821
0400-0500	3	0	90	1	12	0	15	25	67	213	135	4	187	29	40	0	0	679
0500-0600	4	1	77	3	13	2	7	21	53	150	141	6	149	10	42	0	0	722
0600-0700	9	1	80	9	11	0	7	22	43	140	142	4	154	31	68	1	0	901
0700-0800	60	11	146	13	14	1	31	25	60	158	106	19	168	31	57	1	0	1225
0800-0900	191	16	229	12	44	1	58	30	53	145	109	26	236	23	51	1	0	2063
0900-1000	613	56	505	43	41	4	118	28	64	122	96	29	251	30	63	0	0	2493
1000-1100	687	55	748	41	52	1	132	31	71	147	135	20	284	21	66	1	1	2318
1100-1200	663	42	729	27	31	6	124	36	80	140	122	18	209	14	77	0	0	2927
1200-1300	747	104	831	49	44	15	161	36	140	179	205	44	236	52	84	0	0	2933
1300-1400	826	58	776	41	42	7	152	28	263	292	141	26	177	42	62	0	0	3267
1400-1500	1032	114	1017	42	56	4	124	48	72	179	186	40	199	55	99	0	0	3325
1500-1600	954	143	1127	37	62	1	121	57	71	205	171	28	221	41	80	0	6	3063
1600-1700	901	102	968	36	66	9	116	70	57	215	123	34	236	54	72	1	3	3051
1700-1800	860	98	928	40	70	11	126	78	85	188	146	46	248	35	89	0	3	2607
1800-1900	733	64	780	60	55	15	97	58	71	157	148	57	190	46	76	0	0	2907
1900-2000	824	67	961	62	75	4	90	69	77	180	148	32	203	41	72	0	2	2279
2000-2100	460	46	715	56	64	4	66	49	65	188	157	46	234	37	91	1	0	1871
2100-2200	223	32	695	47	36	9	63	44	91	169	132	29	224	22	55	0	0	1603
2200-2300	146	25	571	30	35	5	24	65	73	170	129	36	207	28	56	3	0	1304
2300-0000	71	13	432	22	35	8	30	69	77	164	121	20	171	17	54	0	0	1145
Total	10058	27	369	9	25	4	21	47	80	174	105	27	179	23	48	1	0	46221
		1058	13292	691	938	113	1753	1013	1946	4150	3303	629	4939	736	1576	11	15	

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/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	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	399	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

NATIONAL TRANSPORT RESEARCH CENTRE

TABLE-25

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

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	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

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