



Preparatory Study for Planning on Meghna Basin Management Project

Traffic Count Survey (Dry Season)



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Preparatory Study for Planning on the Meghna River Basin Management Project

Japan International Cooperation Agency (JICA)

Traffic Count Survey (Dry Season) and Complimentary Survey on movement of commodities

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PART-A: TRAFFIC COUNT SURVEY (DRY SEASON)

1. INTRODUCTION

The Government of Japan has taken an initiative for formulation of a project for the development of the Meghna Basin – specially the haor areas in the district of Sylhet, Maulvibazar, Sunamganj, Habiganj, Brahmanbaria, Kishoreganj and Netrokona district of Bangladesh. The Japan International Cooperation Agency (JICA) has engaged a Study Team for carrying the Preparatory Study for planning on Meghna River Basin Management Project. The JICA Study Team has appointed BETS Consulting Services (BETS) Ltd. to conduct Traffic Count Survey at the selected points in Rainy Season in the month of October 2010 and Dry Season Survey in the month of January 2011 at the same places as per the guidelines of the JICA Study Team and Submission of Survey Data (Hard and Soft Copy) to the Study Team. As per the contract made between the JICA Study Team and BETS Ltd. Rain Season Traffic Count Survey was conducted from 18/10/2010 to 20/10/2010 and the Dry Season Traffic Count Survey has been taken up by BETS Ltd. from 16/01/2011 to 18/01/2011. *Report on Rainy Season Traffic Count Survey submitted in December 2010 and this Report contains the findings of Dry Season Traffic Count Survey at the same 10 points and the results of the Complimentary Survey on flow of goods in and outside the Haor areas. This Report has been divided into two parts. Part-A contains the results of Dry Season Traffic Count Survey and Part-B is for the Complimentary Survey undertaken on movement of agricultural products, fish and sand in the Survey areas.*

2. OBJECTIVES OF TRAFFIC COUNT SURVEY

The overall objective of the Survey is to comprehend the traffic flow pattern and traffic type moving in the target sites in the Haor areas at different seasons. The Traffic Count Survey for dry season has been conducted for 12 hours from 16/01/2011 to 18/01/2011 at the same 10 points selected by the Study Teams during Rainy Season Traffic Survey. The overall objective of this Dry Season Traffic Count Survey is to record changes of traffic movement and their types in the Haor areas at different seasons of a year.

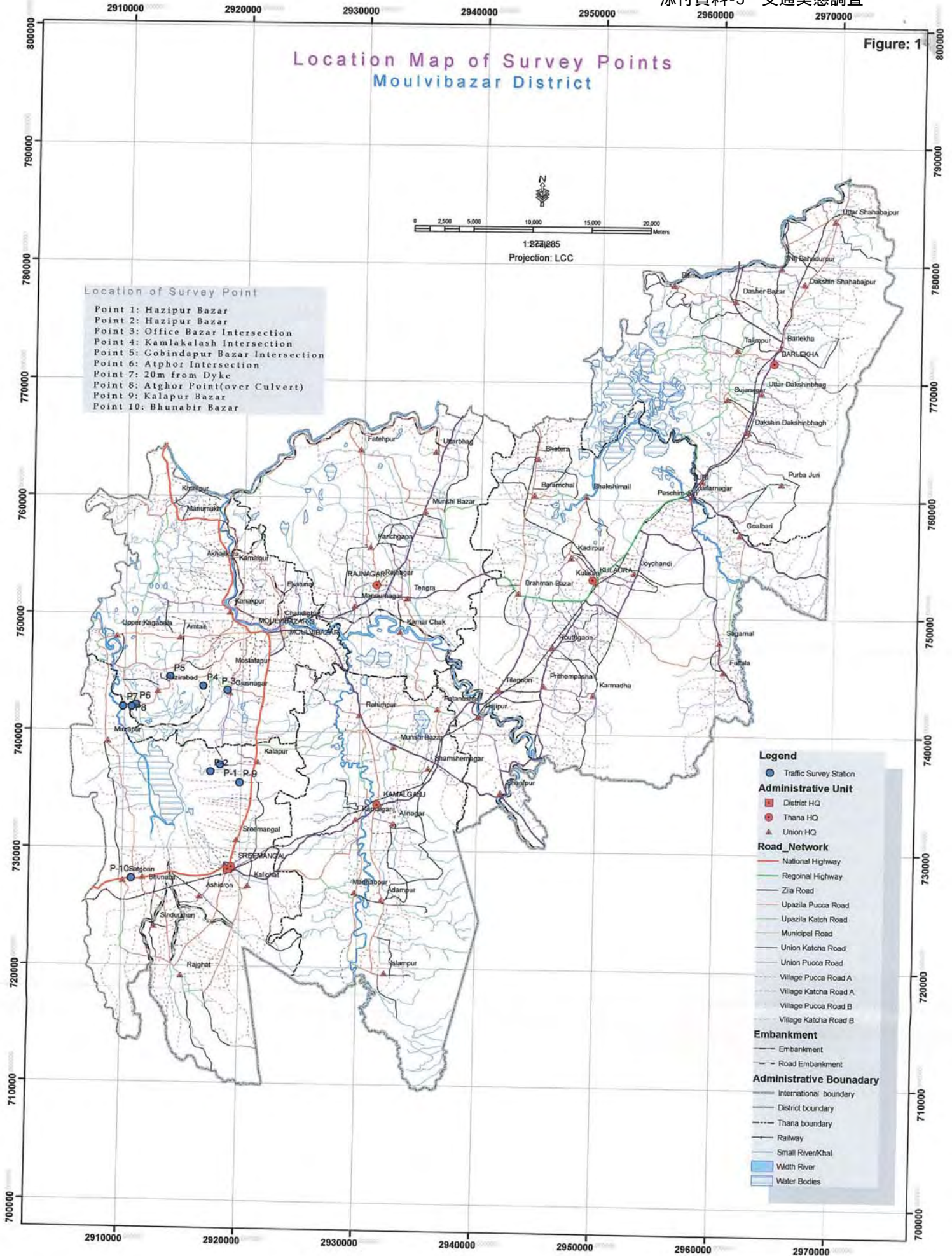
3. SCOPE OF SURVEY WORKS

The Scope of Works as described in the Terms of Reference (TOR) attached to the contract signed between the JICA Study Team and BETS Ltd. are as follows;

- a) Preparation of actual road maps in Haor areas (Sylhet, Maulvibazar, Sunamganj, Habiganj, Brahmanbaria, Kishoreganj and Netrokona district of Bangladesh),
- b) Implementation of rainy season and dry season Traffic Count Survey at the selected points (approximately 10 points in each season),
- c) Collection of data and making outline summary of present and future road development plans in Haor areas (Sylhet, Maulvibazar, Sunamganj, Habiganj, Brahmanbaria, Kishoreganj and Netrokona district of Bangladesh),
- d) Submission of report,
- e) *Complementary survey on movements of agricultural products, fishes and sand extracted from the haor areas. It was added by JICA Study Team along with Dry Season Survey.*

4. LOCATIONS OF TRAFFIC COUNT SURVEY

The Dry Season Traffic Count Survey was conducted at the same 10 points in the Haor areas under the Moulvibazar district selected by The JICA Study Team during Rainy Season Survey. The selected points are depicted on the location map (**Figure-1**) of Moulvibazar district included in this report.



5. FIELD WORKS AND REPORT PREPARATION

➤ *Dry Season Traffic Count Survey*

Traffic Count Survey at the previously selected 10 points under Moulvibazar district was conducted from 16/01/2011 to 18/01/2011 and Traffic Count Survey for 12 hours from 7:00 AM to 7 PM at each point was conducted by using developed format. Sufficient enumerators and supervisors were engaged to make traffic count correctly and one engineer & one urban planner were in the field during the field works to ensure quality of works. The collected **data have been processed in computer and the outputs have been presented in annex-1 under Part-A of the Report**. Survey results of Rainy Season Traffic Count Survey submitted separately to JICA Study Team in December 2010.

➤ *Outline summary of present and future road development plans*

Data regarding present and future road development programme in the Haor areas (Sylhet, Maulvibazar, Sunamganj, Habiganj, Brahmanbaria, Kishoreganj and Netrokona district) has been collected from the field offices of Local Government Engineering Department (LGED), Roads and Highway Department (RHD) and Bangladesh Water Development Board (BWDB) and presented in report of Rainy Season Traffic Survey submitted to Study Team in December 2010.

➤ *Preparation of road maps*

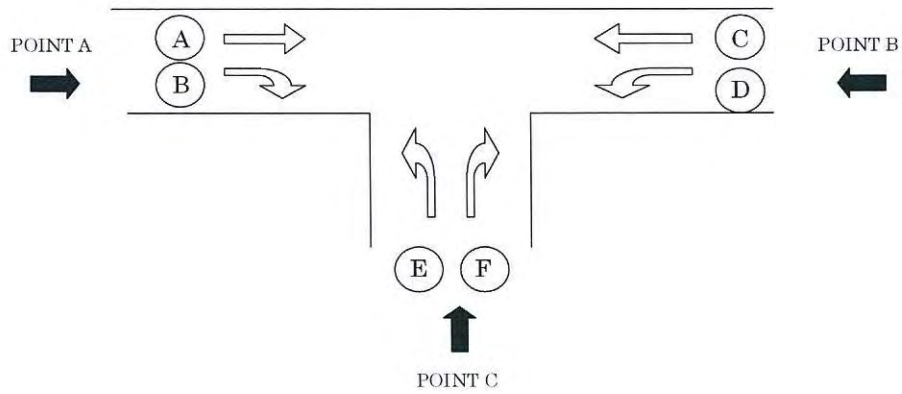
Road maps for the study areas comprising Sylhet, Maulvibazar, Sunamganj, Habiganj, Brahmanbaria, Kishoreganj and Netrokona district have been prepared by using the data/maps available in the secondary sources – particularly available with LGED. The GIS based road maps have been prepared and different types of roads have been marked by various legend. The road maps of the seven districts have been presented in the report of Rainy Season Traffic Count Survey and submitted in December 2010.

Annex-1 : Report on Dry Season Traffic Count Survey

Traffic Volume survey

NO.1 Kalapur_to_Hazipur bazar

Date 18,Jan,2011
 Place Kalapur_to_Hazipur bazar
 Road type upzila road
 weather fine day



Hazipur Bazar Intersection



POINT C (to Kalapur bazar)



POINT A (to Hazipur Bazar)

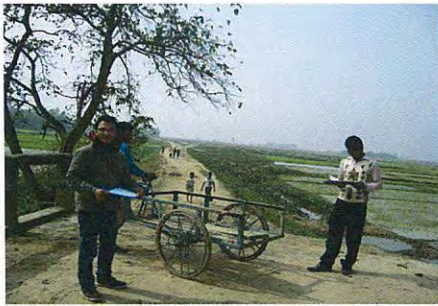
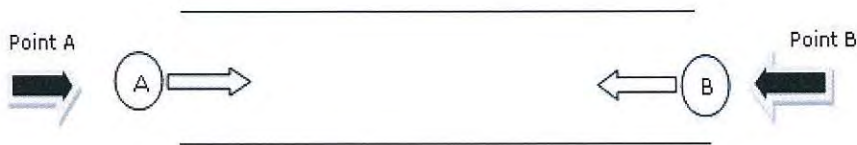


POINT B (to Shabbari)

Traffic Volume survey

NO.2 Hazipur bazar_to_Hazipur (Culvert-02)

Date 18,Jan,2011
Place Hazipur bazar_to_Hazipur (Culvert-02)
Road type village road
weather fine day



POINT B (Culvert-2)



POINT A (to Hazipur Bazar)



POINT B (to hail haor)

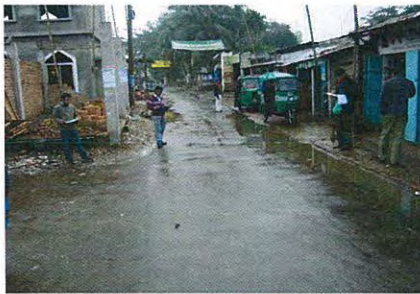
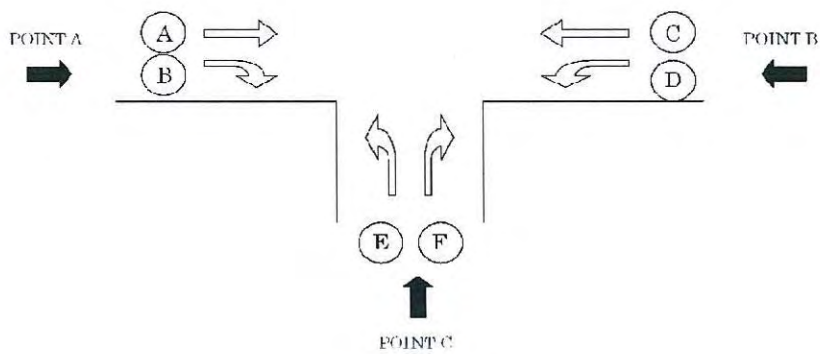


POINT A (to Hazipur bazar)

Traffic Volume survey

NO.3 Mokam bazar_to_Office bazar

Date 16,Jan,2011
 Place Mokam bazar_to_Office bazar
 Road type union road
 weather Rainy day



POINT (Office Bazar)



POINT C (to Mokambazar)



POINT A (to Bhairab Bazar)

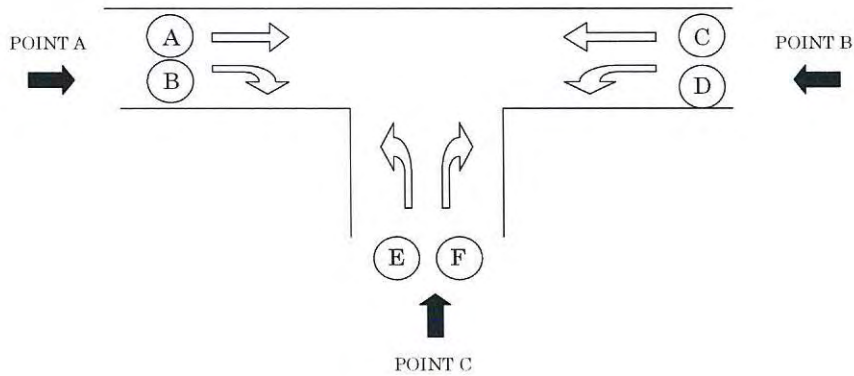


POIN B (to Kamlakalash)

Traffic Volume survey

NO.4 Office bazar_to_Kamlakalash

Date 16,Jan,2011
 Place Office bazar_to_Kamlakalash
 Road type union road
 weather Rainy day



..... Kamlakalash Intersection



..... POINT B (to Office Bazar)



..... POINT C (to Gobindapur bazar)

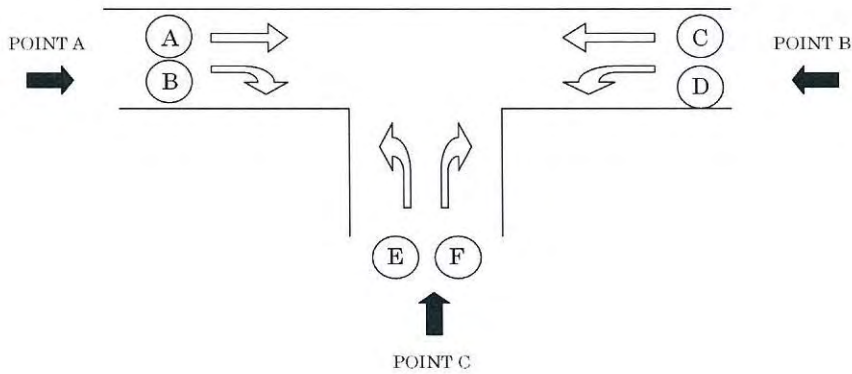


..... POINT A (to Moulvibazar)

Traffic Volume survey

NO.5 Kamlakalash_to_Gobindapur bazar

Date 16,Jan,2011
 Place Kamlakalash_to_Gobindapur bazar
 Road type union road
 weather Rainy day



Gobindapur Bazar Intersection



POINT A (to Nazirabad)



POINT B (to Dughar)

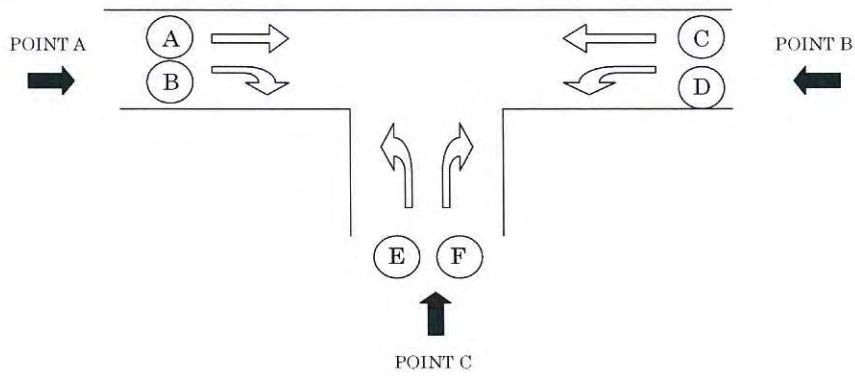


POINT C (to Kamlakalash)

Traffic Volume survey

NO.6 Gobindapur bazar_to_Atghar point

Date 17,Jan,2011
 Place Gobindapur_to_Atghar point
 Road type union road
 weather fine day



Atghar Intersection



POINT A (to Jotorpur Bazar)



POINT B (to Gobindapur bazar)

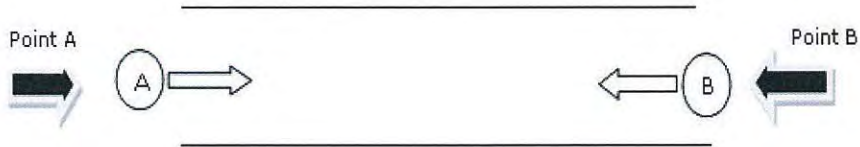


POINT C (to Dyke)

Traffic Volume survey

NO.7 Atghar Intersection_to_Dyke

Date 17,Jan,2011
Place Atghar Intersection_to_Dyke
Road type village road
weather fine day



POINT B (to Atghar point)



POINT B (to Atghar point)



POINT A (to Kadamtali)

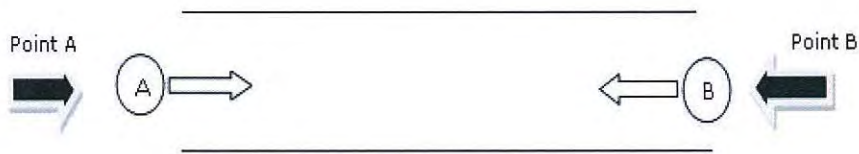


POINT A (to Kadamtali)

Traffic Volume survey

NO.8 Atghar Bazar_to_Panchuan Kheyaghat

Date 17,Jan,2011
Place Atghar Bazar_to_Panchuan Kheyaghat
Road type union road
weather fine day



POINT (Over Culvert)



POINT A (to Panchuan Kheyaghat)



POINT A (to Panchuan Kheyaghat)

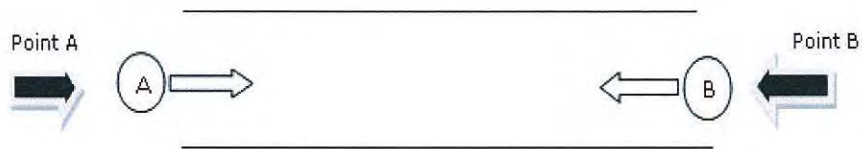


POINT B (to Atghar Bazar)

Traffic Volume survey

NO.9 Kalapur Bazar_to_Hail Haor

Date 17,Jan,2011
Place Kalapur bazar_to_Hail Haor
Road type union road
weather fine day



POINT B (to Hail Haor)



POINT B (to Hail Haor)



POINT A (to Kalapur)

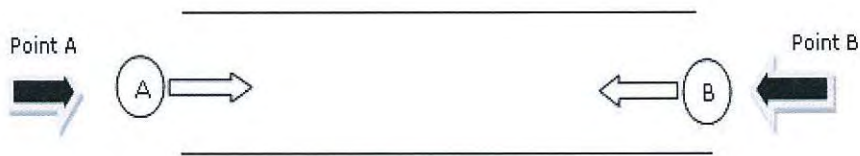


POINT A (to Kalapur)

Traffic Volume survey

NO.10 Bhunabir 20m_to_National highway

Date 18,Jan,2011
Place Bhunabir 20m_to_National highway
Road type upzila road
weather fine day



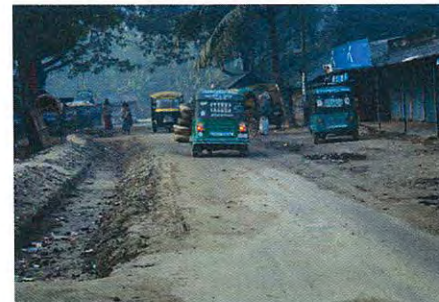
POINT B (to Shomserganj)



POINT B (to Shomserganj)



POINT A (to Bhunabir Chomohoni)



POINT A (to Bhunabir Chomohoni)

Traffic Volume Survey
Preparatory Study for Planning on Meghna River Basin Management Project, JICA
(Dry Season)

Date : From 16/01/2011 to 18/01/2011
District : Moulvibazar
Road Type: Upazila road, union road, village road

ST. No	Station Name	Motorised										Non-motorised				Total				
		Truck			Bus			Utility / Jeep	Car / Taxi	Auto Rick.	Motor Cycle	Bi-Cycle	Rick. / Van	Cart	MT	NMT				
		Heavy	Medium	Small	Large	Medium	Micro													
1	Hazipur Bazar Intersection			17	1				20			3	9	435	152	254	60	41	638	355
2	Hazipur bazar to Hazipur (Culvert-02)							1			3	1		9	14	76	16	4	28	96
3	Office Bazar Intersection		11	2					22		1	10	397	88	94	90	68	9	531	171
4	Kamlakalash Intersection		1	5		2		68			1	6	528	50	90	31	1	661	122	
5	Gobindapur Bazar Intersection		1	30			35	34			29	6	724	234	236	124	27	1,093	387	
6	Atghar Intersection		2	10			19	11			2	4	428	111	330	93	88	587	511	
7	Atghar Bazar to Dyke - 20 m from dyke			1								2	48	26	93	24	25	77	142	
8	Atghar Bazar to Pachuan Kheyaghat (Over Culvert)		2								7		22	6	24	3	9	37	36	
9	Kalapur Bazar to Hail Haor							8			4	6	68	82	220	138	19	168	377	
10	Bhunabir 20m from national highway		4	41				28			42	9	554	93	226	209	1	771	436	
Total:		22	106	3	54	192	53	3,213	856	1,643	766	224	4,591	2,633						

Traffic Volume Survey
Direction wise Summary of Traffic Volume
 (Dry Season)

Date : From 16/01/2011 to 18/01/2011
 District : Moulvibazar
 Road Type: Upazila road, union road, village road

ST. No	Direction	Motorised											Non-motorised				Total	
		Truck			Bus			Utility / Jeep	Car / Taxi	Auto Rick.	Motor Cycle	Bi-Cycle	Rick. / Van	Cart	MT	NMT		
		Heavy	Medium	Small	Large	Medium	Micro											
1	Way to A (Shabbari to Hazipur)			1					1	16	12	10	2	30	12			
1	Way to B (Shabbari to Kalapur)			1	1					88	13	32	7	104	53			
1	Way to C (Hazipur to Shabbari)							1		26	8	12	3	35	15			
1	Way to D (Hazipur to Kalapur)			8				4		114	41	83	26	183	147			
1	Way to E (Kalapur to Shabbari)	1		6				1		130	40	65	1	180	66			
1	Way to F (Kalapur to Hazipur)			1				4		61	38	52	3	106	62			
2	Way to A (Hail Haor to Hazipur)							1		4	7	33	1	12	45			
2	Way to B (Hazipur to Hail Haor)							2	1	5	7	43	3	16	51			
3	Way to A (Kamlakalash to Vairab Bazar)			1				4		148	37	26	2	195	50			
3	Way to B (Kamlakalash to Mokam Bazar)									20	2	11	4	26	15			
3	Way to C (Vairab Bazar to Kamlakalash)			1				6		141	29	24	6	181	49			
3	Way to D (Vairab Bazar to Mokam Bazar)	4								36	6	10	7	50	17			
3	Way to E (Mokam Bazar to Kamlakalash)	4								6	5	13	8	17	21			
3	Way to F (Mokam Bazar to Vairab Bazar)	3						4		46	9	10	1	62	19			
4	Way to A (Office Bazar to Moulvi Bazar)			1				3		36	6	17	1	77	26			
4	Way to B (Office Bazar to Gobindapur Bazar)				1					10	5	16	1	18	17			
4	Way to C (Moulvi Bazar to office Bazar)			1						33	9	9	4	70	13			

Traffic Volume Survey
 Direction wise Summary of Traffic Volume
 (Dry Season)

Date : From 16/01/2011 to 18/01/2011
 District : Moulvibazar
 Road Type: Upazila road, union road, village road

ST. No	Direction	Motorised											Non-motorised				Total	
		Truck			Bus			Utility / Jeep	Car / Taxi	Auto Rick.	Motor Cycle	Bi-Cycle	Rick. / Van	Cart	MT	NMT		
		Heavy	Medium	Small	Large	Medium	Micro											
4	Way to D (MouviBazar to Gobindapur Bazar)	1		1			4		2	207	11	10	7	226	17			
4	Way to E (Gobindrapur Bazar to Office Bazar)			1	1		2			10	6	13		20	13			
4	Way to F (Gobindapur Bazar to Moulvi Bazar)			1			2	1	1	232	13	25	11	250	36			
5	Way to A (Nazirabad to Dughar)			17			17	13	2	56	56	68	16	182	84			
5	Way to B (Nazirabad to Kamiakalash)			1				1		168	26	38	4	196	43			
5	Way to C (Dughar to Nazirabad)			10			13	8	1	76	29	45	12	151	58			
5	Way to D (Dughar to Kamiakalash)			1			1	4		143	49	30	42	198	75			
5	Way to E (Kamiakalash to Nazirabad)	1		1			2	1	3	153	30	23	1	191	28			
5	Way to F (Kamiakalash to Dughar)							2		128	44	32	49	175	99			
6	Way to A (Jotorpur Bazar to Gobindapur Bazar)	1		1			12	1	1	166	34	66	1	217	71			
6	Way to B (Jotorpur to Dyke)						7	10		55	17	57	25	72	89			
6	Way to C (Gobindapur to Jotorpur)	1		8						114	15	26	7	156	38			
6	Way to D (Gobindapur Bazar to Dyke)			1					2	24	15	68	13	42	114			
6	Way to E (Dyke to Jotorpur Bazar)									42	15	52	28	57	88			
6	Way to F (Dyke to Gobindapur Bazar)								1	27	15	61	19	43	111			
7	Way to A (Atghar to Kadamtoli)			1					1	27	14	57	18	43	87			
7	Way to B (Kadamtali to Atghar)								1	21	12	36	6	34	55			
8	Way to A (Pachuan)							3		10	2	12		15	16			

Traffic Volume Survey
Direction wise Summary of Traffic Volume
 (Dry Season)

Date : From 16/01/2011 to 18/01/2011
 District : Moulvibazar
 Road Type: Upazila road, union road, village road

ST. No	Direction	Motorised											Non-motorised				Total		
		Truck			Bus			Utility / Jeep	Car / Taxi	Auto Rick.	Motor Cycle	Bi-Cycle	Rick. / Van	Cart	MT	NMT			
		Heavy	Medium	Small	Large	Medium	Micro												
8	Kheyaghat to Atghar							4		12	4				12	3	5	22	20
9	Way to B (Atghar to Pachuan Kheyaghat)	2						2	3	33	45				122	72	9	87	203
9	Way to A (Monghalpur to Kalapur)							2	3	35	37				98	66	10	81	174
10	Way to B (Kalapur to Monghalpur)							23	3	204	23				60	68		288	128
10	Way to A (Bhunabir to Shamsheganj)	4		11				19	6	350	70				166	141	1	483	308
	Way to B (Shamsheganj to Bhunabir)			30															
Total:		22	106	3	54	192	92	53	3,213	856	1,643	766	224	4,591	2,633				

Traffic Volume Survey
Direction wise and Hourly Summary of Traffic Volume
 (Dry Season)

Date : From 16/01/2011 to 18/01/2011
 District : Moulvibazar
 Road Type: Upazila road, union road, village road

Station No 1 Station Name: Hazipur Bazar Intersection Direction: Way to A (Shabbari to Hazipur)

Observation Time	Truck						Motorised						Non-motorised				Total	
	Heavy	Medium	Small	Large	Bus			Utility / Jeep	Car / Taxi	Auto Rickshaw	Motor Cycle	Bi-Cycle	Rickshaw / Van	Cart	MT	NMT		
					Medium	Micro												
7:00 am to 8:00 am											1					1	0	
8:00 am to 9:00 am									1		1						2	0
9:00 am to 10:00 am								1		1	2						4	0
10:00 am to 11:00 am									1	1	3	3					4	3
11:00 am to 12:00 pm										2		2					2	2
Subtotal:								1		5	7	5			5	13	5	5
12:00 pm to 1:00 pm																		0
1:00 pm to 2:00 pm										1	3	3					4	3
2:00 pm to 3:00 pm										2	1				1		3	1
3:00 pm to 4:00 pm										2	1	1					3	1
4:00 pm to 5:00 pm										2	1			1			3	1
5:00 pm to 6:00 pm										1	1	1					2	1
6:00 pm to 7:00 pm																	0	0
Subtotal:										11	5	5			7	17	7	7
Total:								1		16	12	10			2	30	12	12

Traffic Volume Survey
Direction wise and Hourly Summary of Traffic Volume
 (Dry Season)

Date : From 16/01/2011 to 18/01/2011
 District : Mouvibazar
 Road Type: Upazila road, union road, village roa

Station No 1 Station Name: Hazipur Bazar Intersection Direction: Way to B (Shabbari to Kalapur)

Observation Time	Motorised										Non-motorised				Total	
	Truck			Bus			Utility / Jeep	Car / Taxi	Auto Rickshaw	Motor Cycle	Bi-Cycle	Rickshaw / Van	Cart	MT	NMT	
	Heavy	Medium	Small	Large	Medium	Micro										
7:00 am to 8:00am									3	1	1	1			4	2
8:00 am to 9:00 am								4			1	2	1		4	4
9:00 am to 10:00 am				1				8	1	2	1	1			10	4
10:00 am to 11:00 am								8	2	3					10	3
11:00 am to 12:00 pm								15	2	3					17	3
Subtotal:				1				38	6	10	4	16			45	16
12:00 pm to 1:00 pm								4		2	1	1			4	4
1:00 pm to 2:00 pm								6	1	1		1			7	2
2:00 pm to 3:00 pm			1					3	1	3	2				5	5
3:00 pm to 4:00 pm								8		3	2	1			8	6
4:00 pm to 5:00 pm								9	4	5	1				13	6
5:00 pm to 6:00 pm								12	7	7	1	2			12	10
6:00 pm to 7:00 pm						1		8	1	1	3				10	4
Subtotal:			1			1		50	7	22	10	37			59	37
Total:			1	1		1		88	13	32	14	7			104	53

Traffic Volume Survey
Direction wise and Hourly Summary of Traffic Volume
(Dry Season)

Date : From 16/01/2011 to 18/01/2011
District : Moulvibazar
Road Type: Upazila road, union road, village road

Station No 1 Station Name: Hazipur Bazar Intersection Direction: Way to C (Hazipur to Shabbari)

Observation Time	Motorised										Non-motorised				Total	
	Truck			Bus			Utility / Jeep	Car / Taxi	Auto Rickshaw	Motor Cycle	Bi-Cycle	Rickshaw / Van	Cart	MT	NMT	
	Heavy	Medium	Small	Large	Medium	Micro										
7:00 am to 8:00 am									1		1				1	1
8:00 am to 9:00 am									3				1		3	1
9:00 am to 10:00 am									3		1				3	1
10:00 am to 11:00 am									5	1			1		6	1
11:00 am to 12:00 am									2	2	1				4	1
Subtotal:									14	3	3		5		17	5
12:00 pm to 1:00 pm									1	1	1				2	1
1:00 pm to 2:00 pm									2		2		1		2	3
2:00 pm to 3:00 pm									1	1	1				3	0
3:00 pm to 4:00 pm									3		1				3	1
4:00 pm to 5:00 pm									1	1	2				2	2
5:00 pm to 6:00 pm									1	1	1				2	1
6:00 pm to 7:00 pm									3	1	2				4	2
Subtotal:									12	5	9		10		18	10
Total:									26	8	12		3		35	15

Traffic Volume Survey
Direction wise and Hourly Summary of Traffic Volume
 (Dry Season)

Date : From 16/01/2011 to 18/01/2011
 District : Mouvibazar
 Road Type: Upazila road, union road, village roa

Station No 1 Station Name: Hazipur Bazar Intersection Direction: Way to D (Hazipur to Kalapur)

Observation Time	Motorised										Non-motorised					Total	
	Truck			Bus			Utility / Jeep	Car / Taxi	Auto Rickshaw	Motor Cycle	Bi-Cycle	Rickshaw / Van	Cart	MT	NMT		
	Heavy	Medium	Small	Large	Medium	Micro											
7:00 am to 8:00 am								3			3	4	2	3	9		
8:00 am to 9:00 am						1	1	5	4		8	1	6	11	15		
9:00 am to 10:00 am						1		10	4		6	5	3	15	14		
10:00 am to 11:00 am						1		9	3		8	7	3	13	18		
11:00 am to 12:00 pm			1					7	2		8	2	1	10	11		
Subtotal:			1			3	1	34	13		33	19	67	52	67		
12:00 pm to 1:00 pm						1		4	3		2			8	2		
1:00 pm to 2:00 pm			1			1		12	3		10	4	1	18	15		
2:00 pm to 3:00 pm			1			2		13	4		9	2	3	21	14		
3:00 pm to 4:00 pm			1			2		10	2		5	3	2	16	10		
4:00 pm to 5:00 pm			2			3		13	4		7	2	2	22	11		
5:00 pm to 6:00 pm			1			1		16	5		7	5	1	23	13		
6:00 pm to 7:00 pm			1			2		12	7		10	3	2	23	15		
Subtotal:			7			12		80	28		50	19	80	131	80		
Total:			8			15	1	114	41		83	38	26	183	147		

Traffic Volume Survey
Direction wise and Hourly Summary of Traffic Volume
 (Dry Season)

Date : From 16/01/2011 to 18/01/2011
 District : Moulvibazar
 Road Type: Upazila road, union road, village road

Station No 1 Station Name: Hazipur Bazar Intersection Direction: Way to E (Kalapur to Shabbari)

Observation Time	Truck						Motorised						Non-motorised				Total	
	Heavy	Medium	Small	Large	Bus			Utility / Jeep	Car / Taxi	Auto Rickshaw	Motor Cycle	Bi-Cycle	Rickshaw / Van	Cart	MT	NMT		
					Medium	Micro												
7:00 am to 7:15 am									3			1			3	1		
8:00 am to 8:15 am									6			4			6	4		
9:00 am to 10:00 am								10		1		5			11	5		
10:00 am to 11:00 am								9		2		4	1		11	5		
11:00 am to 12:00 pm								12		2		4			14	4		
Subtotal:								40		5		18	1	19	45	19		
12:00 pm to 1:00 pm	1		1						9			4			11	4		
1:00 pm to 2:00 pm	1		1						10	2		6			14	6		
2:00 pm to 3:00 pm	1		1						11	5		6			18	6		
3:00 pm to 4:00 pm	1		1						14	6		7			21	7		
4:00 pm to 5:00 pm	1		1						13	6		11			20	11		
5:00 pm to 6:00 pm	1		1						17	8		7			26	7		
6:00 pm to 7:00 pm	1		1						16	8		6			25	6		
Subtotal:	1		6						90	35		47		47	135	47		
Total:	1		6						130	40		65	1	180	66	66		

Traffic Volume Survey
Direction wise and Hourly Summary of Traffic Volume
 (Dry Season)

Date : From 16/01/2011 to 18/01/2011
 District : Mouvibazar
 Road Type: Upazila road, union road, village roa

Station No 1 Station Name: Hazipur Bazar Intersection Direction: Way to F (Kalapur to Hazipur)

Observation Time	Motorised										Non-motorised				Total	
	Truck			Bus			Utility / Jeep	Car / Taxi	Auto Rickshaw	Motor Cycle	Bi-Cycle	Rickshaw / Van	Cart	MT	NMT	
	Heavy	Medium	Small	Large	Medium	Micro										
7:00 am to 8:00 am										2				2		2
8:00 am to 9:00 am								2		3				6		5
9:00 am to 10:00 am								7		2		1		4		9
10:00 am to 11:00 am								8		4				6		12
11:00 am to 12:00 pm						1		12		1			1	5		14
Subtotal:						1		29		12		1	25	23		42
12:00 pm to 1:00 pm						1		7	1	1				3		10
1:00 pm to 2:00 pm								3		4				4		7
2:00 pm to 3:00 pm			1					3		4			1	2		8
3:00 pm to 4:00 pm								5		3			1	3		9
4:00 pm to 5:00 pm								7	1	1				3		9
5:00 pm to 6:00 pm								3		10				9		13
6:00 pm to 7:00 pm								4		3			2	5		8
Subtotal:			1			1		32	4	26		6	37	29		64
Total:			1			2		61	4	38		7	3	52		106
																62

Traffic Volume Survey
Direction wise and Hourly Summary of Traffic Volume
 (Dry Season)

Date : From 16/01/2011 to 18/01/2011
 District : Moulvibazar
 Road Type: Upazila road, union road, village roa

Station No 2 Station Name: Hazipur bazar to Hazipur (Culvert -02) Direction: Way to A (Hail Haor to Hazipur)

Observation Time	Motorised										Non-motorised				Total	
	Truck			Bus			Utility / Jeep	Car / Taxi	Auto Rickshaw	Motor Cycle	Bi-Cycle	Rickshaw / Van	Cart	MT	NMT	
	Heavy	Medium	Small	Large	Medium	Micro										
7:00 am to 8:00 am											1	2			0	3
8:00 am to 9:00 am						1				1	5	2			2	7
9:00 am to 10:00 am								1			2	1			1	3
10:00 am to 11:00 am								1			3	2			1	5
11:00 am to 12:00 pm								1		2	4				3	4
Subtotal:						1		3		3	15	7	22	7	22	22
12:00 pm to 1:00 pm										2	1				2	1
1:00 pm to 2:00 pm										1	2				1	2
2:00 pm to 3:00 pm											3	1			0	4
3:00 pm to 4:00 pm											1		1		0	2
4:00 pm to 5:00 pm								1			3	1			1	4
5:00 pm to 6:00 pm											3				0	3
6:00 pm to 7:00 pm										1	5	2			1	7
Subtotal:								1		4	18	4	23	5	23	23
Total:						1		4		7	33	11	1	12	45	45

Traffic Volume Survey
Direction wise and Hourly Summary of Traffic Volume
 (Dry Season)

Date : From 16/01/2011 to 18/01/2011
 District : Moulvibazar
 Road Type: Upazila road, union road, village roa

Station No 2 Station Name: Hazipur bazar to Hazipur (Culvert -02) Direction: Way to B (Hazipur to Hail Haor)

Observation Time	Motorised										Non-motorised					Total	
	Truck			Bus			Utility / Jeep	Car / Taxi	Auto Rickshaw	Motor Cycle	Bi-Cycle	Rickshaw / Van	Cart	MT	NMT		
	Heavy	Medium	Small	Large	Medium	Micro											
7:00 am to 8:00 am											2	2			0	4	
8:00 am to 9:00 am											5				0	5	
9:00 am to 10:00 am						1		1	2	6					4	6	
10:00 am to 11:00 am						1		1	1	7					4	7	
11:00 am to 12:00 pm										3					0	3	
Subtotal:						1		2	3	23	2	25			8	25	
12:00 pm to 1:00 pm							1		1	6	1				2	7	
1:00 pm to 2:00 pm								1	1	3	1				2	4	
2:00 pm to 3:00 pm									1	5	1	3			1	9	
3:00 pm to 4:00 pm								1		1					1	1	
4:00 pm to 5:00 pm										3					0	3	
5:00 pm to 6:00 pm									1	2					1	2	
6:00 pm to 7:00 pm								1							1	0	
Subtotal:							1	3	4	20	3	26			8	26	
Total:						1	2	5	7	43	5	51			16	51	

Traffic Volume Survey
Direction wise and Hourly Summary of Traffic Volume
 (Dry Season)

Date : From 16/01/2011 to 18/01/2011
 District : Moulvibazar
 Road Type: Upazila road, union road, village roa

Station No 3 Station Name: Office Bazar Intersection Direction: Way to A (Kamlakalash to Vairab Bazar)

Observation Time	Motorised										Non-motorised				Total	
	Truck			Bus			Utility / Jeep	Car / Taxi	Auto Rickshaw	Motor Cycle	Bi-Cycle	Rickshaw / Van	Cart	MT	NMT	
	Heavy	Medium	Small	Large	Medium	Micro										
7:00 am to 8:00 am								1		2	1				3	1
8:00 am to 9:00 am								5				1			5	1
9:00 am to 10:00 am			1				1	9		2					13	0
10:00 am to 11:00 am								10		1		1			11	1
11:00 am to 12:00 pm							1	11		3	3	3			15	6
Subtotal:			1				2	36		8	4	5	9	47	47	9
12:00 pm to 1:00 pm								14		5	4	3	1		19	8
1:00 pm to 2:00 pm								15		5	5	2			20	7
2:00 pm to 3:00 pm								14		3	3	2			17	5
3:00 pm to 4:00 pm								16		4	3	2	1		22	6
4:00 pm to 5:00 pm								18	1	4	2	3			24	5
5:00 pm to 6:00 pm								21		3	3	3			25	6
6:00 pm to 7:00 pm							1	14		5	2	2			21	4
Subtotal:							2	112		29	22	17	41	148	148	41
Total:			1				4	148		37	26	22	2	195	195	50

Traffic Volume Survey
Direction wise and Hourly Summary of Traffic Volume
 (Dry Season)

Date : From 16/01/2011 to 18/01/2011

District : Moulvibazar

Road Type: Upazila road, union road, village road

Station No 3 Station Name: Office Bazar Intersection

Direction: Way to B (Kamlakalash to Mokam Bazar)

Observation Time	Motorised										Non-motorised			Total		
	Truck			Bus			Utility / Jeep	Car / Taxi	Auto Rickshaw	Motor Cycle	Bi-Cycle	Rickshaw / Van	Cart	MT	NMT	
	Heavy	Medium	Small	Large	Medium	Micro										
7:00 am to 8:00 am														0	0	
8:00 am to 9:00 am								2							2	0
9:00 am to 10:00 am								2			1				2	1
10:00 am to 11:00 am								1		1					2	0
11:00 am to 12:00 pm						1		2		1	2				4	2
Subtotal:						1		7		2	3		3	10	3	
12:00 pm to 1:00 pm						2		3			1	2			5	3
1:00 pm to 2:00 pm								1			1				1	1
2:00 pm to 3:00 pm						1		1		1					2	1
3:00 pm to 4:00 pm								3			1	1			3	2
4:00 pm to 5:00 pm								1							1	0
5:00 pm to 6:00 pm								3			2				3	2
6:00 pm to 7:00 pm								1		1	2	1			1	3
Subtotal:						3		13			8	4	12	16	12	
Total:						4		20		2	11	4		26	15	

Traffic Volume Survey
Direction wise and Hourly Summary of Traffic Volume
 (Dry Season)

Date : From 16/01/2011 to 18/01/2011

District : Moulvibazar

Road Type: Upazila road, union road, village roa

Station No 3 Station Name: Office Bazar Intersection

Direction: Way to C (Vairab Bazar to Kamlakalash)

Observation Time	Motorised										Non-motorised					Total
	Truck			Large	Medium	Micro	Utility / Jeep	Car / Taxi	Auto Rickshaw	Motor Cycle	Bi-Cycle	Rickshaw / Van	Cart	MT	NMT	
	Heavy	Medium	Small													
7:00 am to 8:00 am									1	1	2				2	2
8:00 am to 9:00 am			1						3		2				4	2
9:00 am to 10:00 am								1	14	1		2			16	2
10:00 am to 11:00 am								1	11	1	1	2			13	3
11:00 am to 12:00 pm								1	10	2	4	2			13	6
Subtotal:			1					3	39	5	9	6	15		48	15
12:00 pm to 1:00 pm								1	12	5	3	3	2		18	8
1:00 pm to 2:00 pm									15	3	3		2		19	5
2:00 pm to 3:00 pm								1	12	3	3	2			17	5
3:00 pm to 4:00 pm									18	5	1	2	2		23	5
4:00 pm to 5:00 pm								1	16	5	1	3			22	4
5:00 pm to 6:00 pm								1	17	3	3	1			22	4
6:00 pm to 7:00 pm									12		1	2			12	3
Subtotal:								3	102	24	15	13	34		133	34
Total:			1					6	141	29	24	19	6		181	49