

DHAKA TRANSPORT COORDINATION AUTHORITY (DTCA)

PREPARATION OF COMPREHENSIVE TRANSPORT MASTER PLAN WITH PRE-FEASIBILITY STUDY OF MASS TRANSIT NETWORK & CONCEPTUAL DESIGN OF MULTIMODAL HUB FOR NARAYANGANJ CITY CORPORATION

REQUEST FOR QUOTATION FOR TRAFFIC SURVEY (PACKAGE 2) IN PROJECT STUDY AREA



Request for Quotation (RFQ) No: 7060613-NCTMP-TRA-TOR-002

Issue Date: October 2023

Quotation Submission Letter

[Use Letter-head Pad]

To

Team Leader

Consultancy Services for Preparation of Comprehensive Transport Master Plan with Pre-Feasibility Study of Mass Transit Network & Conceptual Design of Multimodal Hub for Narayanganj City Corporation Project

ACE Consultants Ltd., Bangladesh in Joint Venture with BCL Associates Ltd., SMEC International Pty. Ltd., and YOOSHIN Engineering Corporation

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Email: MdMahabubul.Bari@smec.com

Re: Request for Quotation (RFQ) No: 7060613-NCTMP-TRA-TOR-002

We, the undersigned, offer to execute in conformity with the 'Conditions of Contract' for execution of the work named Request for Quotation for Traffic Survey works required for the Preparation of Comprehensive Transport Master Plan with Pre-Feasibility Study of Mass Transit Network & Conceptual Design of Multimodal Hub for Narayanganj City Corporation Project under the Dhaka Transportation Coordination Authority, Bangladesh (Package 2).

Have examined the above-mentioned Request for Quotation (RFQ), inspected the site and being familiar with all supporting information, we offer to execute the contract for the work described in this RFQ using the 'Contract Agreement' included in the RFQ.

The total Price of our Quotation including applicable Tax and VAT is **[insert amount both in figure and words]**.

Our Quotation shall remain valid for a period of 60 days from the date of submission and it shall remain binding upon us and, may be accepted at any time prior to its expiry date.

We declare that we have the legal capacity to enter a contract with you and have not been declared ineligible by the Government of Bangladesh on charges of engaging in corrupt, fraudulent, collusive or coercive practices.

We are not submitting more than one quotation in this RFQ process in our own name or other name or in different names. We understand that your written invitation to sign the contract shall become binding upon us, until a formal contract is signed.

We have examined and have no reservations to the RFQ document issued by you on **October 2023**.

We understand that you reserve the right to reject all the quotations or annul the procurement proceedings without incurring any liability to us.

Signature of the Bidder

Seal

Date

INTRODUCTION

Narayanganj, a city in Bangladesh, is forked by the Shitalakshya River. A bustling river port due to its convenient location and good transport connections through road, rail, and waterways, Narayanganj is still a thriving business place for thousands of businesses. For the capital Dhaka, Narayanganj serves as a gateway to the Sylhet and Chattogram Region. In the recent past (2011), the Narayanganj Municipality was upgraded to Narayanganj City Corporation (NCC) coining Narayanganj, Siddhirganj, and Kadamrasul Municipality on the opposite bank of the Sitalakshya River to ensure a better living place.

However, due to unregulated development, unplanned urbanization, and an influx of people from nearby districts seeking job opportunities, NCC has become a congested and disorderly place with heavy traffic. The city, covering an area of 72.43 square kms, has a population of approximately two million people. Despite its challenges, Narayanganj remains an important commercial and industrial hub in Bangladesh. Narayanganj has been identified as one of the ten poorest districts of Bangladesh.

DTCA has undertaken a project to develop a comprehensive transport master plan (CTMP) for the Narayanganj City Corporation (NCC) area. The executing agency, DTCA, has appointed the joint venture consisting of ACE Consultant Ltd. (lead firm), BCL Associates Ltd., SMEC International Pty Ltd., and YOOSHIN Engineering Corporation to provide consultancy services for "Package No S1: Preparation of Comprehensive Transport Master Plan with Pre-Feasibility Study of Mass Transit Network and Conceptual Design of Multimodal Hub for Narayanganj City Corporation." This assignment is part of the "Preparation of Comprehensive Transport Master for Narayanganj and Gazipur City Corporation Project," which is funded by the Government of the People's Republic of Bangladesh (GoB).

To undertake the study, the Consultant intends to undertake the following traffic survey. For Traffic survey work of NCC CTMP are divided into three packages which are shown in the table below.

Package one	Package two	Package three
1. Classified Traffic Count (CTC); (Location: 14)	1. Classified Traffic Count (CTC); (Location: 15)	1. Axle Load Survey
2. Roadside Interview (RSI) Survey; (Location: 14)	2. Roadside Interview (RSI) Survey; (Location: 15)	
3. Pedestrian Count and Interview (PCI); (Location: 16)	3. Pedestrian Count and Interview (PCI); (Location: 17)	
4. Stated Preference Survey (SPS)	4. Travel Time Survey (TTS)	
5. Bus Operator Survey (BOS)	5. Household Interview Survey (HIS)	
6. Bording Alighting Survey (BAS)	6. Establishment Survey	
7. On-board Passenger Survey	7. Tour Dairy Survey	
8. Terminal Passenger Survey and Count		

This TOR is under package 2 which will cover the following survey

Survey for Package Two	Purpose
1. Classified Traffic Count (CTC); (Location: 15)	Traffic volume count
2. Roadside Interview (RSI) Survey; (Location: 15)	Origin – Destination Data Vehicle Occupancy (VO) Data
3. Pedestrian Count and Interview (PCI); (Location: 17)	Pedestrian count and OD
4. Travel Time Survey (TTS)	Travel Time and Congestion time
5. Household Interview Survey (HIS)	Travel behaviour
6. Establishment Survey	Freight movement (OD)
7. Tour Dairy Survey	Freight movement (OD)

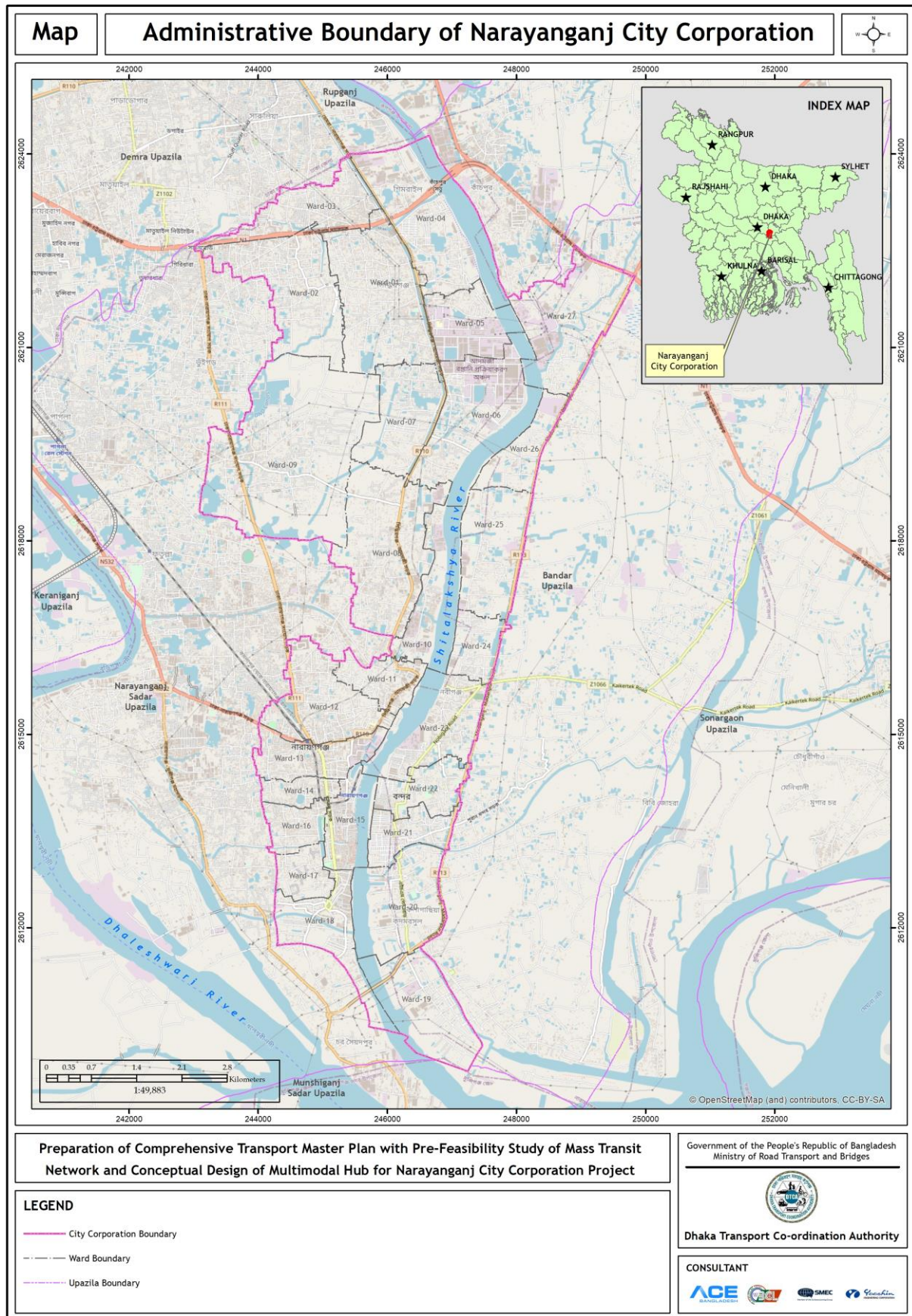


Figure 1: Study Area of Narayanganj City Corporation

INSTRUCTION TO BIDDERS

SUBMISSION AND OPENING OF THE QUOTATION AND OTHER CONDITIONS

Bidders shall submit their 'Quotations' consisting of 'Technical Proposal' and 'Financial Proposal' for the survey. The Sub Consultant is advised to inspect the project area before submitting the proposal. The Technical Proposal shall include but not limited to,

- **'Method Statement'** to be followed to carry out the field survey and other relevant works.
- Detailed **'Work Programme'** showing the tasks to be undertaken and the duration of each individual task to be completed within the stipulated time period.
- Separate **'Safe Work Method Statement (SWMS)'** identifying hazards associated with individual tasks and control measures to be adopted in order to minimize the risk.
- **'Company Profile'** focusing on relevant information concerning previous similar Work Records in relevant Survey works within the past five years with their **project completion certificates or work order from their clients**.
- **Signed** (with Ballpoint Pen by Key Persons) and **Updated CVs** for key personnel such as Team Leader/Project Manager, Project Coordinator, Sr. Field Supervisor and Field Supervisor need to be assigned for the work and these need to be authenticated by the bidder.
- Key personnel qualifications, minimum experience and required number of CV listed in the table below need to submit in the proposal.

SI	Designation	Qualification	Minimum Experience (years)	No of Persons
1	Leader/Project Manager	BSc in Civil Engineering / Relevant field	5	1
2	Project Coordinator	BSc or Diploma in civil engineering/ relevant field	3	1
3	Sr. Field Supervisor	Diploma in civil engineering/ relevant field	2	2
4	Field Supervisor	Diploma in civil engineering/ relevant field	1	4

- **Equipment's workability** and availability evidence/documents should be submitted.
- **Updated Trade License or Article of Association or Incorporation** (as appropriate).
- **Updated Income Tax and VAT Certificates**.
- **Bidders are highly encouraged to submit a checklist as a summary of documents included.**
- **Bidders are highly encouraged to submit their documents in black and white rather than using colour printer.**
- **Please print both sides of a page to save the environment for both technical and financial proposals**
- **The Sub Consultant will need to seek approval from the local law enforcement authority prior to the commencement of the survey as soon as possible. DTCA, the client as well as the JV consultant will be able to help the Sub Consultant in this regard.**

The Technical and Financial proposals shall be submitted separately in **sealed envelope**. **One original with two photocopies of 'Technical Proposal' in a sealed envelope** and **One original with Two Photocopies of 'Financial Proposal' in another sealed envelope**.

1. Sealed Envelope 01: With Only Technical Proposal for Technical Evaluation (One original with two photocopies).

2. Sealed Envelope 02: With Only Financial Proposal for Bid Opening and Financial Evaluation (One original with two photocopies).

After completion of Technical Evaluation with sealed envelope 01, the Consultant will undertake financial evaluation. The minimum threshold for Technical Proposal will be decided by the Technical Committee. Only technically accepted proposals will be selected for financial evaluation. After the financial evaluation, only the lowest bidder will be invited for negotiations and subsequent award. If for any reasons, the lowest bidder is unable to accept the offer, the Consultant reserves the right to reach the subsequent lowest bidders. (i.e.; If the same bidder belongs to packages 1 and 2 and becomes the lowest bidder for each package, in that case, the Consultant has right to invite 2nd or 3rd or subsequent lowest bidder for negotiations and subsequent award for each package.)

The Consultant's Bid Committee reserves the right to call for negotiation with recommendation of Technical Committee. In a case where two or more responsive quotations have the same evaluated price, the successful quotation shall be decided by lottery. The Sub-Contractors are requested to specify the unit cost of each type of traffic survey as requested in BOQ. In case of any amendments, the total cost of the survey will be calculated based on the unit cost.

The Consultant reserves the right to cancel or amend the full traffic survey at any time during the procurement process.

WORKS PROGRAMME/ METHODOLOGY

The Bidders shall submit a detailed methodology explaining how they propose to conduct the traffic survey as described in the TOR including the types of equipment to be used. They shall also submit a 'Work Programme' outlining the time frame.

For the detailed scope of work, please check the Terms of Reference (TOR) and specification.

The table below illustrates the technical evaluation details as well as the scoring for each of them. Bidders are requested to follow the evaluation scoring to prepare their proposal.

Table 1: Technical Evaluation Form and Scoring

Sl. No.	Description	Percentage Mark (max)	Details
01	Trade License or Articles of Association or Certificate of Incorporation (Most updated or including renewal documents)	Mandatory	Absence of the document or renewed document will disqualify the bidders from the bidding process.
02	VAT Registration Certificate (BIN)	Mandatory	Absence of the document will disqualify the bidders from the bidding process.
03	Tax Certificate (TIN Certificate)	Mandatory	Absence of the document will disqualify the bidders from the bidding process.
04	Financial Solvency Certificate	Mandatory	
05	Method Statement	25	
06	Detail Work Program	10	
07	Safe Work Method Statement (SWMS)	10	

Sl. No.	Description	Percentage Mark (max)	Details
08	Relevant Work Experience or Work Record by Company or Key Persons in the last 5 years	25	
09	Signed CV of Technical Personnel	20	
10	Equipment's workability and availability (Evidence/Documents)	5	
11	Quality of report submission	5	

Preparation of Comprehensive Transport Master Plan with Pre-Feasibility Study of Mass Transit Network & Conceptual Design of Multimodal Hub for Narayanganj City Corporation Dhaka Transport Coordination Authority



TERMS OF REFERENCE

Traffic Survey (Package-2)

31 October 2023

Document Control

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ABBREVIATIONS

BOQ	Bill of Quantities
CO	Carbon Monoxide
CTMP	City Transport Master Plan
CV	Curriculum Vitae
EPZ	Export Processing Zone
GOB	Government of Bangladesh
JV	Joint Venture
MS	Micro Soft
NCC	Narayanganj City Corporation
PM	Particulate Matter
PPE	Personal Protection Equipment
RFQ	Request for Quotation
RHD	Roads and Highways
SLM	Sound Level Meter
SWMS	Safe Work Method Statement
TIN	Taxpayer Identification Number
TMP	Traffic Management Plan
TOR	Terms of Reference
VAT	Value Added Tax

1 OVERVIEW

The assigned task for the CTMP for NCC includes conducting a pre-feasibility study of a mass transit system and creating a conceptual design for a multi-modal hub. The focus of this study is to address social, economic, and environmental concerns while promoting citizen participation. The goal is to support NCC's vision of developing a planned city that is eco-friendly, clean, healthy, safe, and free from poverty. The CTMP aims to ensure that the transport system in Narayanganj is modern, efficient, sustainable, and capable of meeting the needs of its growing population.

1.1 Introduction

This document shall be applied to the "Traffic Survey (Package- 2) " for " Preparation of Comprehensive Transport Master Plan with Pre-Feasibility Study of Mass Transit Network and Conceptual Design of Multimodal Hub for Narayanganj City Corporation." Being carried out by the ACE-BCL-SMEC-YOOSHIN JV. Which consists of ACE Consultant Ltd. (lead firm), BCL Associates Ltd., SMEC International Pty Ltd., and YOOSHIN Engineering Corporation

To undertake the study, the Consultant intends to undertake a comprehensive traffic survey. For the Traffic survey work of NCC CTMP is divided into three packages. This document outlines the Terms of Reference (TOR) for the proposed traffic survey under package 2 as described in Table 2.

Table 2: Proposed Traffic Survey

Survey for Package two	Purpose
1. Classified Traffic Count (CTC); (Location: 15)	Traffic volume count
2. Roadside Interview (RSI) Survey; (Location: 15)	Origin – Destination Data Vehicle Occupancy (VO) Data
3. Pedestrian Count and Interview (PCI); (Location: 17)	Pedestrian count and OD
4. Travel Time Survey (TTS)	Travel Time and Congestion time
5. Household Interview Survey (HIS)	Travel behaviour
6. Establishment Survey	Freight movement (OD)
7. Tour Dairy Survey	Freight movement (OD)

1.2 Objective

For NCC CTMP as well as to ensure a successful pre-feasibility study of a mass transit system and creating a conceptual design for a multi-modal hub, a comprehensive traffic survey is required at specific locations.

1.3 Project area

Narayanganj City Corporation and its vicinity.

1.4 Scope of Works

The scope of the traffic survey includes, but not necessarily limited to, the following:

- Classified Traffic Count (CTC)
- Roadside Interview (RSI) Survey
- Pedestrian Count and Interview (PCI)
- Travel Time Survey (TTS)
- Household Interview Survey (HIS)

- Establishment Survey
- Tour Dairy Survey
- Preparation of all relevant safety documentation (e.g., SWMS) and submission to the JV Consultant for approval prior to conducting site works. It is the responsibility of the survey company to take all necessary steps to conduct the survey work safely.

1.5 The Client and the JV Consultant

The Client is the Dhaka Transport Coordination Authority (DTCA) and the JV Consultants are ACE Consultants Ltd., in JV with BCL Associates Ltd., SMEC International Pty Ltd., Yooshin International Corporation. All survey works shall be monitored in the field by the JV Consultant and the representative of DTCA. All survey works are required to be approved by the JV Consultant.

1.6 Sub-Consultant

All survey work associated with the project will be carried out by the Sub-Consultant appointed under this agreement. The bidder before the award of the work will undergo a technical and financial evaluation (separately).

1.7 Sub-Consultant's Obligations

The Sub-Consultant shall liaise with the representative of the JV Consultant and/ or DTCA on a daily basis to discuss day-to-day activities, progress, and problems encountered. In performing their duties, the Sub-Consultant shall:

- Deploy suitably qualified and experienced staff with each survey team.
- Obtain all necessary approval/ prior permission from the relevant authority.
- Submit a detailed programme of works showing the tasks to be undertaken and the duration of each individual task.
- Submit detailed method statement of all field survey works before commencing site operations to ensure safety.
- Submit daily progress report for all field surveys to JV Consultant.
- If applicable, provide a list of all machinery, equipment, and software necessary to carry out the work along with their updated workability, calibration, and license renewal records.
- Organize necessary transport and accommodation for survey staff to perform the fieldwork.
- During the execution of the work, submit progress reports to the JV Consultant.

JV Consultant considers safety as the utmost priority in conducting any field survey work. It is obligatory for the Sub-Consultant to take all necessary steps to conduct the survey work in a safe manner. All machinery and equipment to be used in the field must be safe to use and field personnel must wear appropriate "Personal Protection Equipment" (PPE).

While surveying on/near existing roads or in a crowded area, an appropriate "Traffic Management Plan" (TMP) shall be prepared and implemented during field survey work, as required. Caution shall be exercised while surveying near an existing overhead power line or any other hazardous objects or situation. No member of the survey team should take any risks to perform survey work near live traffic.

1.8 Duration of Work

- Field survey work shall commence within seven (07) calendar days from the date of award of the contract.
- Survey duration and time details are shown in Table 3.

Table 3: Survey duration and time

Survey for Package Two	Survey Duration and Time
1. Classified Traffic Count (CTC); (Location: 15)	<ul style="list-style-type: none"> – 72 hours, Three days (7:00 am Saturday to 7:00 am Tuesday): 13 Location – 96 hours, Four days (7:00 am Friday to 7:00 am Tuesday) : 1 Location – 168 hours, Seven days (7:00 am Friday to 7:00 am Friday) : 1 Location
2. Roadside Interview (RSI) Survey; (Location: 15)	<ul style="list-style-type: none"> – 72 hours, Three days (7:00 am Saturday to 7:00 am Tuesday): 15 Location
3. Pedestrian Count and Interview (PCI); (Location: 17)	<ul style="list-style-type: none"> – 16 hours per day for three days (i.e.; Saturday to Monday; 7:00 am to 11:00 pm): 17 Location
4. Travel Time Survey (TTS)	<ul style="list-style-type: none"> – Saturday and Sunday for car, bus, motorcycle, rickshaw and pedestrian – Three seasons for Car, bus and motorcycle in a day – Four seasons for rickshaw and pedestrian in a day
5. Household Interview Survey (HIS)	<ul style="list-style-type: none"> – Total sample: 4,528; conduct survey any day in the week
6. Establishment Survey	<ul style="list-style-type: none"> – Total sample: 233; conduct survey any day in the week
7. Tour Dairy Survey	<ul style="list-style-type: none"> – Total sample: 200 (roadway: 150, waterway: 50)

1.9 Transportation

All travel arrangements including transportation of the Sub-Consultant's personnel and equipment to perform the job at site and transportation between job sites shall be provided by the Sub-Consultant.

1.10 Accommodation and Other Expenses

Accommodation for the Sub-Consultant's personnel and storage of the equipment at the site and other expenses such as the establishment of a temporary tent, per diem, coordination fees, communication fees, first aid kit, medicine, etc., shall be provided by the Sub-Consultant.

1.11 Work Programme and Method Statement

The Sub-Consultant shall submit a 'Work Programme' outlining how they propose to execute the works within the timeframe given in the relevant clause of the TOR. The Sub-Consultant shall submit details of the technical team including CVs of all technical personnel. The Sub-Consultant shall submit details of equipment and machineries to be used in executing the works. Availability of the technical personnel, equipment and machineries will be verified by the JV Consultant. The Sub-Consultant shall submit details of his work experience in undertaking similar works completed within the last 5 years. The Sub-Consultant shall submit a 'Method Statement' of how he will execute the works as per the requirements of the TOR before starting his works. A separate 'Safe Work Method Statement' (SWMS) identifying potential hazards associated with individual tasks and control measures to be adopted in order to minimize the risk, shall be submitted.

In order to execute the survey works within the proposed timeframe, the survey team is required to be mobilised as early as possible. Specific survey locations are to be agreed by the JV Consultant. The minimum requirement of the equipment and manpower should be specified from Sub-Consultants.

1.12 Terms of Payment

Payment shall be made as follows:

- The rates will cover all costs incurred by the Sub-Consultant, and no separate payment shall be made for any other costs not included in the Bill of Quantities (BOQ).
- After mobilization for field survey work, the sub-consultant may claim 20% of the total contract value.
- After completion of the field survey work and submission of the deliverables, the sub-consultant may claim 50% of the total contract value.
- The remaining final 30% payment will be paid on acceptance of all the electronic copies and paper copies of the documents. Final payment shall be made within one (01) month of the submission of the final invoice. This shall be submitted after the acceptance of the Sub-Consultant's all deliverables (both electronic and paper versions).
- A penalty of BDT 2,500.00 per day will be imposed for any delay in the deliverables. However, the maximum amount of penalty will be 20% of the final bill amount.
- Tax and VAT will be deducted from each payment as per the rules of the Government of Bangladesh.
- **Any delay in starting the survey work mentioned in Section No. 1.8 will result in the termination of the contract.**

Invoices shall be submitted to the JV Consultant's Team Leader. Advance payment will not be allowed for this work.

2 Technical Specification for Field Work and Data Collection

This site appreciation has been prepared based on the site reconnaissance survey carried out by the Consultant's team. The Sub-consultant, after a site visit, may propose alternative locations due to unavoidable circumstances with prior discussion with the Consultant.

The consultant has undertaken site visit to familiarize with the ground conditions.

2.1 Classified Traffic Count (CTC)

The objective is to identify travel patterns that vary in time of day and week from a representative sample.

2.1.1 Survey Methodology and Equipment Specifications

The Classified Traffic Count (CTC) Survey equipment specifications are as follows:

- 15-minute interval directional traffic flow needs to be counted at mid-block count and turning movement for intersection count location.
- **The traffic count needs to be conducted at a time for all locations under Package 1 and Package 2.**
- 24 types of vehicles need to be considered (excluding pedestrians; pedestrian count will be covered under pedestrian count and interview survey) for traffic count (see: **Appendix A**).
- Video cameras should be used to capture video recordings.
- Video cameras should be equipped with night vision capabilities and wide-angle vision approved by JV Consultants.
- Video camera should be mounted above vehicle height (**approximately 6 to 10 m above**) adjacent to or in the middle (on the median) of the roadway.
- Video footage should be clear enough to identify vehicle classification.
- Availability of lights during dark.
- Due to adverse weather or for absence of electricity, an alternative power supply needs to be provided.
- One field Supervisor and one technician should be present on site per shift for each location.
- The minimum number of cameras for each location is mentioned in **Appendix C**. The Sub-Consultant should follow it.

2.1.2 Location and Duration of Survey

Classified Traffic Count (CTC) survey needs to be conducted at 15 locations including mid-block locations, three-leg intersections and four-leg intersections. Duration and location are as follows:

- 72 hours, Three days (7:00 am Saturday to 7:00 am Tuesday): 13 Location
- 96 hours, Four days (7:00 am Friday to 7:00 am Tuesday): 1 Location
- 168 hours, Four days (7:00 am Friday to 7:00 am Friday): 1 Location

Classified video traffic count survey location map is shown in **Appendix B** and Details of survey locations including coordinates and duration are available in **Appendix C**.

2.1.3 Data Entry Sheet

Classified video traffic count survey sample sheet is available in **Appendix D**

2.2 Roadside Interview (RSI) Survey

The objective of this survey is to understand the OD pattern. Vehicle occupancy information is included in the RSIs' questionnaire.

2.2.1 Survey Methodology and Equipment Specifications

The Roadside Interview survey (RSI) needs to follow the following requirements:

- All RSI locations should be covered for the CTC survey. RSI needs to be conducted at a time for all locations under Package 1 and Package 2.
- RSI survey is expected to cover a significant percentage (minimum 10%) of the total traffic which will be enough to be representative following the industry standard. Sample numbers also need to be stratified based on the traffic count.
- 24 types of vehicles need to be considered (excluding pedestrians; pedestrian count will be covered under pedestrian count and interview survey) for traffic count (see: **Appendix A**).
- All required information on the Roadside Interview Survey (RSI) form needs to be fully completed. The Sub-consultant is encouraged to use the digital data collection process using smart tabs such as Kobo Toolbox or similar.
- RSI survey needs to cover all directional flow at mid-block as well as intersection location.
- Enough lighting needs to be arranged for RSI survey during the dark.
- Proper road safety measures need to be taken to conduct roadside interviews.
- One field Supervisor and four surveyors (minimum) should be present on site per shift for each location on each side of the road where RSI survey will be conducted. RSI sites are to be surveyed for both directions at Mid-Block and all approach directions of intersection.

2.2.2 Location and Duration of Survey

Roadside Interview (RSI) survey needs to be conducted at 15 locations including mid-block locations, three-leg intersections and four-leg intersections. Duration and location are as follows:

- 72 hours, Three days (7:00 am Saturday to 7:00 Tuesday): 15 Location

2.2.3 Questionnaire and Data Entry Sheet

Roadside Interview Survey (RSI) survey form is shown in **Appendix E**. TAZ number/IDs will be provided by the Consultant for the sub-consultant to follow.

2.3 Pedestrian Count and Interview (PCI) Survey

The objective is to capture the pedestrian flow and OD pattern in the NCC area.

2.3.1 Survey Methodology and Equipment Specifications

Pedestrian count and interview survey need to follow the following requirements.

- 15-minute interval directional pedestrian flow of both sides of the road needs to be counted at mid-block count and the pedestrian number crossing the road at the intersection.
- **The pedestrian count needs to be conducted at a time for all locations under Package 1 and Package 2 with the Classified Traffic Count (CTC) survey.**
- Video cameras should be used to capture video recordings.
- Video cameras should be equipped with night vision capabilities and wide-angle vision approved by JV Consultants.

- The video camera should be mounted above vehicle height (**approximately 6 to 10 m above**) adjacent to or in the middle (on the median) of the roadway.
- Video footage should be clear enough to identify the pedestrian movement.
- Availability of lights during dark.
- Due to adverse weather or for absence of electricity, an alternative power supply needs to be provided.
- One field Supervisor and one technician should be present on site per shift for each location.
- All required information in the Pedestrian Interview Survey form needs to be fully completed. The Sub-consultant is encouraged to use the digital data collection process using smart tabs such as Kobo Toolbox or similar.
- Pedestrian Interview Survey need to be conducted simultaneously and is expected to cover a significant percentage (minimum 10%) of the total pedestrian which will be enough to be representative following the industry standard.
- Pedestrian Interview Survey need to cover all directional flow at mid-block as well as intersection location.
- For two locations, need additional camera for pedestrian count, other location will cover through camera arrangement of CTC.

2.3.2 Location and Duration of Survey

Pedestrian count and interview survey need to be conducted at 17 locations including mid-block locations, three-leg intersections and four-leg intersections. Duration and location are as follows:

- 16 hours per day for three days (i.e., Saturday to Monday; 7:00 am to 11:00 pm): 17 Location

Pedestrian Count and Interview survey location map is shown in **Appendix F** and Details of survey locations including coordinates and duration are available in **Appendix C**.

2.3.3 Questionnaire and Data Entry Sheet

Pedestrian survey form is shown in **Appendix G**. TAZ number/IDs will be provided by the Consultant for the sub-consultant to follow. Pedestrian count survey sample sheet is available in **Appendix H**.

2.4 Travel Time Survey (TTS)

The objective of this survey is to determine the travel time of the corridor including congestion time

2.4.1 Survey Methodology and Equipment Specifications

2.4.1.1 Travel Time Survey using Car

- For each route, each day one passenger car will dispatch from one end of the route at a specified time. Another car will dispatch from the opposite end at the same time. In each session both cars will coincide with their starting time.
- Instruction will be provided to the drivers to drive at the speed of the average traffic stream, avoiding speeding and aggressive overtaking in free-flow sections.
- Each route is divided into nodes (nodes may be an intersection or specific landmarks) and links (the section between two intersections or landmarks) to find out continuous travel time depending on the circumstances.
- Usually, along with the driver there will be an enumerator who is presented with printed sheets containing the names of the nodes and instructed to note down the time 'after' crossing each node. The enumerator will also record the full journey time, and delay at stoppages such as intersections and distance travelled during the survey run. Delay locations will also be noted so

that congestion points can be identified. He will use a stopwatch, record sheet (paper/electronic device) for this purpose.

- The driver is also instructed to ensure that he does not make any stops while traversing a route. All stops for re-fuelling, refreshment, etc. are performed after the driver has reached one end. Special arrangements are made with gas stations to ensure that the vehicles do not have to queue to refuel.
- A GPS tracker needs to be used to record the trip information.
- Survey route, time and season are shown in the Table 2-1 and Table 2-2

2.4.1.2 Travel Time Survey using Bus

- The survey will be undertaken by one enumerator per bus trip. The enumerator will board the bus at the start point of the route and get off the bus at the endpoint in one session for each route. Another enumerator will board the bus from the opposite direction of the route at the same time.
- The Enumerators will sit near the driver where he can observe traffic. He will record the day, date, route number, direction of trip, and vehicle type before the trip starts. He will then record the full journey time, delay at stoppages and intersections using a watch and distance travelled by GPS-handled instrument. Delay locations will also be noted so that congestion points can be identified.
- A GPS tracker needs to be used to record the trip information.
Survey route, time and season are shown in the Table 2-1 and Table 2-3

2.4.1.3 Travel Time Survey using Motorcycle

- For each route, each day one motorcycle will dispatch from one end of the route at a specified time. Another motorcycle will dispatch from the opposite end at the same time. In each session both motorcycles will coincide with their starting time.
- Usually, along with the motorcycle driver, there will be an enumerator who will ride the motorcycle and he will also record the full journey time, and delay at stoppages such as intersections and distance travelled during the survey run. Delay locations will also be noted so that congestion points can be identified.
- A GPS tracker needs to be used to record the trip information.
- Survey route, time and season are shown in the Table 2-1 and Table 2-4

2.4.1.4 Travel Time Survey using Rickshaw

- For each route, one enumerator will take a Rickshaw at the start of the route and get off the vehicle at the endpoint in one session for each route. Another enumerator will take the Rickshaw from the opposite direction of the route at the same time.
- The enumerator will record the full journey time, and delay at stoppages such as intersections and distance travelled during the survey run. Delay locations will also be noted so that congestion points can be identified. Enumerator will use a stopwatch, record sheet (paper/electronic device) for this purpose.
- A GPS tracker needs to be used to record the trip information.
Survey route, time and season are shown in the Table 2-1 and Table 2-5

2.4.1.5 Travel Time Survey using Walking

- For each route, one enumerator will start walking at the start of the route and stop at the endpoint in one session for each route. Another enumerator will start walking at the start of the route and

stop at the endpoint at the same time. In each session both enumerators will coincide with their starting time.

- The enumerator will record the full journey time, and delay at stoppages such as intersections and distance travelled during the survey run. Delay locations will also be noted so that congestion points can be identified. He will use a stopwatch, record sheet (paper/electronic device) for this purpose.
- A GPS tracker needs to be used to record the trip information.

Survey route, time and season are shown in the Table 2-1 and Table 2-6

2.4.2 Location and Duration of Survey

Table 2-1 shows the travel time survey duration, season and trip number for each mode.

Table 2-1: Duration and Trip Number for Travel Time Survey

	Route	Time/ Sessions/ day	Trip Number
By Car	2	three sessions on Saturday (non-working day) and Sunday (working day). The three sessions are respectively morning time (08:00 AM), noon time (01:00 PM), and evening time (05:00 PM).	24
By Bus	2	three sessions each day, namely morning time (08:00 AM), noon time (01:00 PM), and evening time (05:00 PM) on Saturday (non-working day) and Sunday (working day).	24
By Motorcycle	2	three sessions each day, namely morning time (08:00 AM), noon time (01:00 PM), and evening time (05:00 PM) on Saturday (non-working day) and Sunday (working day).	24
By Rickshaw	3	four sessions each day, namely morning time (08:00 AM), noon time (01:00 PM), evening time (05:00 PM), and night-time (07:00 PM) on Saturday (non-working day) and Sunday (working day).	64
By Walking	3	four sessions each day, namely morning time (08:00 AM), noon time (01:00 PM), evening time (05:00 PM), and night-time (07:00 PM) on Saturday (non-working day) and Sunday (working day).	64

Table 2-2 to Table 2-6 shows the route of travel time for each mode.

Table 2-2: Travel Time Survey Routes for Car

Origin	Latitude	Longitude	Destination	Latitude	Longitude	Distance (km)
Narayanganj City Corporation	23.607984°	90.502701°	Dhaka South City Corporation Office	23.724619°	90.406537°	19.4
Chashara Intersection	23.623682°	90.500088°	Signboard	23.693763	90.48071	13

Table 2-3: Travel Time Survey Routes for Bus

Origin	Latitude	Longitude	Destination	Latitude	Longitude	Distance (km)
Bus Terminal	23.616159°	90.504368°	Dhaka South City Corporation Office	23.724619°	90.406537°	19.2
Chashara Intersection	23.623682°	90.500088°	Jatrabari	23.709742°	90.434564°	13.8

Table 2-4: Travel Time Survey Routes for Motorcycle

Origin	Latitude	Longitude	Destination	Latitude	Longitude	Distance (km)
Narayanganj City Corporation	23.607984°	90.502701°	Signboard	23.693763°	90.480710°	10
Bandar Water Pump	23.617489°	90.511840°	Kandapara Mosque	23.689218°	90.491343°	13.1

Table 2-5: Travel Time Survey Routes for Rickshaw

Origin	Latitude	Longitude	Destination	Latitude	Longitude	Distance (km)
Adamjee EPZ	23.674997°	90.523818°	Darunnajat Siddikia Model Madrasa	23.693984°	90.506393°	3.4
Rupali Bank	23.609888°	90.487702°	Bus Terminal	23.616159°	90.504368°	2.3
Anjuman Mofidul Aytimkhana	23.633181°	90.508980°	Tingaon More	23.635346°	90.535619°	2.9

Table 2-6: Travel Time Survey Routes for Walking

Origin	Latitude	Longitude	Destination	Latitude	Longitude	Distance (km)
Baburail Road	23.611326°	90.496777°	Bus Terminal	23.616159°	90.504368°	1.2
Anjuman Mofidul Aytimkhana	23.633181°	90.508980°	Dargah Sharif	23.630420°	90.519656°	1.7
Muktijoddha Lake	23.672168°	90.513101°	Adamjee EPZ	23.674997°	90.523818°	1.7

The travel time route is shown in Appendix I

2.4.3 Data Entry Sheet

Data entry sheet will be provided before the field survey.

2.5 Household Interview Survey (HIS)

The objective of HIS is to identify the travel behaviour of the NNCs' dwellers.

2.5.1 Survey Methodology and Equipment Specifications

- All required information in the Survey form needs to be fully completed. The Sub-consultant is encouraged to use the digital data collection process using smart tabs such as Kobo Toolbox or similar.
- Total 4,528 sample need to be collected from the study area. 5% sample need to collect as pilot based.
- A GPS tracker needs to be used to record the household location.
- Each member of the Household living in the household will be interviewed for the trips they have done the previous working day.
- An attempt will be made to interview all members of the household under consideration who are older than six. In the case of children, or those who do not travel alone, a parent will be expected to speak for them.
- Every effort will be made to conduct each interview when all members of the household are at home, but in the case of members being absent, the interview will be conducted if another adult is able to provide the relevant information on the absent members. Otherwise later need to collect the trip information of those absent members.
- Number of sample size need to be followed according to the Appendix J.
- The sample can be selected randomly. But two sample cannot be collected from the same building, and Distance between two household sample need to be 50 meters minimum.
- Household income need to be stratified. The consultant will fixed the sample for each TAZ based on household income level.

2.5.2 Location of Survey

The sub-consultant needs to collect those data from the household. Sample distribution is shown in Appendix J

2.5.3 Questionnaire and Data Entry Sheet

The questionnaire of the HIS is shown in Appendix K.

2.6 Establishment Survey

The objective of the Establishment survey is to understand the travel pattern of the freight movement.

2.6.1 Survey Methodology and Equipment Specifications

- All required information in the Survey form needs to be fully completed. The Sub-consultant is encouraged to use the digital data collection process using smart tabs such as Kobo Toolbox or similar.
- Total 233 sample need to be collected from the study area. 5% sample need to collect as pilot based.
- A GPS tracker needs to be used to record the establishment location.

2.6.2 Location and Duration of Survey

The location of establishment survey is shown in Appendix L.

2.6.3 Questionnaire Data Entry Sheet

The questionnaire of the Establishment survey is shown in Appendix L.

2.7 Tour Diary Survey

The objective of the survey is to understand the freight movement in NCC and its vicinity.

2.7.1 Survey Methodology and Equipment Specifications

- Total sample is 200 of which 150 will be freight road vehicles and 50 will be water vessels.
- The base location will be provided by the Consultants before the field survey. These locations will be chosen as part of a stratified random sampling technique that will cover at least one establishment in each ward of Narayanganj City Corporation.
- The travel diary will be maintained for at least three days. For the survey, a GPS will be attached to the vehicle during the survey period.
- The sub-consultant needs to ensure to collect all information in the form.

2.7.2 Location and Duration of Survey

Starting point for the survey will be provided by the Consultant prior to the field survey. And duration of the survey is Three days (72 hours).

2.7.3 Questionnaire and Data Entry Sheet

The questionnaire of the Establishment survey is shown in Appendix N.

3 DATA DIGITALIZATION, ANALYSIS AND ELECTRONIC COPY

All survey work data need to be digitised, analysed, and supplied in electronic format.

The deliverables of the data will include:

- CTC data needs to be converted into spreadsheets (preferably in MS Excel) for classified traffic.
- RSI data needs to be converted into spreadsheets (preferably in MS Excel).
- Pedestrian count and interview data needs to be converted into spreadsheets (preferably in MS Excel).
- Travel Time data needs to be converted into spreadsheets (preferably in MS Excel).
- Household survey data needs to be converted into spreadsheets (preferably in MS Excel).
- Establishment survey data needs to be converted into spreadsheets (preferably in MS Excel).
- Tour dairy survey data needs to be converted into spreadsheets (preferably in MS Excel).

4 Deliverables

The Sub-Consultant needs to ensure the deliverables of the following.

- All video data in a portable hard disk.
- Electronic copy of all survey data (preferably in MS Excel Files).
- Electronic copy of Classified Traffic Count Survey (preferably in MS Excel Files).
- All paper copies of RSI survey data (if any).
- All electronic copies of RSI survey data.
- All paper copies of HIS survey data (if any).
- All electronic copies of HIS survey data.
- All electronic copies of Travel time survey data.
- All paper copies of Travel time survey data (if any).
- GPS data logger of Travel time survey data (electronic).
- All paper copies of Establishment survey data (if any).
- All electronic copies of Establishment survey data.
- GPS data logger of Tour diary survey data (electronic).
- All paper copies of Tour diary survey data (if any).
- All electronic copies of Tour diary survey data.
- Deliverables should be supplied within **28 days** of completion of the Field Survey

5 Schedule of Field Survey Work

Tentative schedule of the field survey work is shown in the Table 5-1 It is recommended to follow the field survey schedule to comply with project duration requirement.

Table 5-1: Schedule of survey

SL. No.	DESCRIPTION	ITEMS	Month 1				Month 2			
			W1	W2	W3	W4	W1	W2	W3	W4
1	Contract Signing and mobilization									
2	Classified Traffic Count Survey	Conducting the Field survey								
		Data entry								
3	RSI Survey	Conducting the Field survey								
		Data entry								
4	Pedestrian Count and Interview	Conducting the Field survey								
		Data entry								
5	Travel Time Survey	Conducting the Field survey								
		Data entry								
6	Household Interview Survey (HIS)	Conducting the Field survey								
		Data entry								
7	Establishment Survey	Conducting the Field survey								
		Data entry								
8	Tour Dairy Survey	Conducting the Field survey								
		Data entry								
9	Survey Report Submission	Draft								
		Final Report								

6 Bill of Quantities

The Bill of Quantities (BOQ) is specified in the table below. The quantity included in Table is indicative and subject to variation in line with the actual field condition.

Table 6-1: Templet for financial proposal

Templet for Financial Proposal (Package-2)					
Item No	Details of Survey Item	Types of Items	Quantity	Unit Rate (BDT)	Amount (BDT)
1. Classified traffic count survey (CTC)					
1.1	Mid-Block; 72 hours (7:00 am Saturday to 7:00 am Tuesday)				
1.1.2	Video Count Survey	Number of Locations	13		-
1.1.3	Data processing	Number of Locations	13		-
1.2	Four Leg Intersection; 96 hours (7:00 am Friday to 7:00 am Tuesday)				
1.2.1	Video Count Survey - Intersection points	Number of Locations	1		-
1.2.2	Data processing	Number of Locations	1		-
1.3	Four Leg Intersection; 168 hours (7:00 am Friday to 7:00 am Friday)				
1.3.1	Video Count Survey - Intersection points	Number of Locations	1		-
1.3.2	Data processing	Number of Locations	1		-
2. Roadside Interview Survey					
2.1	Mid-Block; 72 hours; (7:00 am Saturday to 7:00 am Tuesday)				
2.1.1	RSI Survey - Mid Block points	Number of Locations	13		-
2.1.2	Data processing	Number of Locations	13		-
2.2	Four Leg Intersection; (7:00 am Saturday to 7:00 am Tuesday)				
2.2.1	RSI Survey - Intersection points	Number of Locations	2		-
2.2.2	Data processing	Number of Locations	2		-
3. Pedestrian Count and Interview Survey (PCI); 16 hours per day for Three days (i.e., Saturday to Monday; 7:00 am to 11:00 pm)					
3.1	Pedestrian Count Survey				

Templet for Financial Proposal (Package-2)					
Item No	Details of Survey Item	Types of Items	Quantity	Unit Rate (BDT)	Amount (BDT)
3.1.1	Mid-block				
3.1.1.1	Video Count Survey*	Number of Locations	2		
3.1.1.2	Data processing	Number of Locations	15		-
3.1.2	Four Leg Intersection				
3.1.2.1	Data processing	Number of Locations	2		-
3.2	Pedestrian Interview Survey				
3.2.1	Mid-block				
3.2.1.1	Pedestrian interview	Number of Locations	15		-
3.2.1.2	Data processing	Number of Locations	15		-
3.2.2	Three Leg Intersection				
3.2.2.1	Pedestrian interview	Number of Locations	2		-
3.2.2.2	Data processing	Number of Locations	2		-
4. Travel Time Survey					
4.1	Travel time survey by car	Trip	24		
4.2	Travel time survey by bus	Trip	24		
4.3	Travel time survey by motorcycle	Trip	24		
4.4	Travel time survey by rickshaw	Trip	64		
4.5	Travel time survey by pedestrian	Trip	64		
5. Household Survey					
5.1	Questionnaire survey	Sample	4,528		
6. Establishment Survey					
6.1	Questionnaire survey	Sample	233		
7. Tour Dairy Survey (72 hours)					
7.1	Roadway tour	Tour	150		
7.2	Waterway tour	Tour	50		
8. Report					




Templet for Financial Proposal (Package-2)					
Item No	Details of Survey Item	Types of Items	Quantity	Unit Rate (BDT)	Amount (BDT)
8.1	Final Report	Copy	5		
A. Total amount excluding VAT & TAX (BDT)					-
B. AIT=(A/0.9)*0.1					-
C. VAT=(A+B)*0.15					-
Total amount including VAT & TAX (BDT)= (A+B+C)					-
* For two locations, need additional camera for pedestrian count, other location will cover through camera arrangement of CTC					

Appendix A Types of Vehicles

No.	Category	Characteristics	Photo
1	Pedestrian	Person (walking)	
2	Bicycle	All pedal cycles.	
3	Rickshaw	Three wheeled cycle rickshaws (manual and battery)	
4	School van	Used for school purpose	
5	Rickshaw Van	Three wheeled Van (manual and battery)	
6	Push Car (Thela Gari)	All manually drawn/pushed carts	
7	Motorcycle	All two wheeled motorised vehicles.	

No.	Category	Characteristics	Photo
8	CNG/ Mishuk	Babytaxi and Mishuks, Tempo Auto-Tempo and Auto-Vans	
9	Auto		
10	Car/SUV	All types of cars used for personal or taxi services.	 
11	Taxi	All types of cars used for taxi services.	
12	Microbus	Up to 16 seats	 
13	Jeep/Pick-up	Jeeps, and four wheels drive vehicles, such as Pajero's and Land Rover's	  
14	Tempo/Leguna/Maxi	Fixed route transit service	

No.	Category	Characteristics	Photo
15	Minibus	Between 16 and 39 seats	
16	Large Bus	More than 40 seats on 36 foot or longer chassis. Includes double decker buses	 
17	AC Bus		
18	Staff Bus		
19	School/College/ University Bus	Jeeps, SUV and four wheels drive vehicles, such as Pajero's and Land Rover's	
20	Small Open Truck/ Small Van	Small trucks up to 3 tonne payload.	  
21	Medium Truck/ Truck 2 Axle	All 2-axle rigid trucks	

No.	Category	Characteristics	Photo
22	Large Truck/ 3 Axle Truck	All 3-axle rigid trucks	
23	Container Trailer	All container carriers	
24	Tanker/ Tank Lorry		
25	Others (Ambulance, Fire engine, Towing car, Construction vehicles, Armored car, Animal Driven Car, Nosimon, Korimon, etc.)		

Appendix B Classified Video Traffic Count Survey Locations



Appendix C Details of Survey Locations

S N	ID	Location Types	Latitude	Longitude	Duration of Survey (Day)						Union/ Ward	Local Address	Road Type	Minimum required Number of Cameras
					CTC		RSI		PS					
					No of Day	Duration	No of Day	Duration	No of Day	Duration				
1	IC-6	Four leg intersection	23.633044	90.525621	4	Friday 7 am to Tuesday 7am)	3	Saturday 7 am to Tuesday 7am	3	7 am to 11pm for each three days (Saturday to Monday)	Ward No. 23	Nabiganj	Regional Road (R113)	8
2	IC-8	Three leg intersection	23.632625	90.476136	3	Saturday 7 am to Tuesday 7am	3	Saturday 7 am to Tuesday 7am	3	7 am to 11pm for each three days (Saturday to Monday)	Fatullah Union	Ponchoboti Mor	Regional Road (R812)	6
3	IC-9	Four leg intersection	23.623881	90.499867	7	Friday 7 am to Friday 7am	7	Friday 7 am to Friday 7am	7	7 am to 11pm for each three days (Saturday to Monday)	Ward No. 13	Chashara	Regional Road (R111)	8
4	IC-10	Four leg intersection	23.643993	90.493666	3	Saturday 7 am to Tuesday 7am	3	Saturday 7 am to Tuesday 7am	3	7 am to 11pm for each three days (Saturday to Monday)	Fatullah Union	Shibu Market	Regional Road (R111)	8
5	IC-11	Three leg intersection	23.594138	90.503376	3	Saturday 7 am to Tuesday 7am	3	Saturday 7 am to Tuesday 7am	3	7 am to 11pm for each three days (Saturday to Monday)	Ward No. 18	Syedpur	Tertiary Road	6
6	IC-12	Four leg intersection	23.63637	90.511356	3	Saturday 7 am to Tuesday 7am	3	Saturday 7 am to Tuesday 7am	3	7 am to 11pm for each three days (Saturday to Monday)	Ward No. 11	Chashara - Hajiganj Railline Road	Regional Road (R110)	8

S N	ID	Location Types	Latitude	Longitude	Duration of Survey (Day)						Union/ Ward	Local Address	Road Type	Minimum required Number of Cameras
					CTC		RSI		PS					
					No of Day	Duration	No of Day	Duration	No of Day	Duration				
7	MC-9	Mid-block	23.629874	90.558908	3	Saturday 7 am to Tuesday 7am	3	Saturday 7 am to Tuesday 7am	3	7 am to 11pm for each three days (Saturday to Monday)	Musapur Union	Kaikertek Bridge	Regional Road (Z1066)	2
8	MC-10	Mid-block	23.653027	90.565556	3	Saturday 7 am to Tuesday 7am	3	Saturday 7 am to Tuesday 7am	3	7 am to 11pm for each three days (Saturday to Monday)	Musapur Union	Langalband Kali Mondir	Regional Road (Z1061)	2
9	MC-11	Mid-block	23.642674	90.473463	3	Saturday 7 am to Tuesday 7am	3	Saturday 7 am to Tuesday 7am	3	7 am to 11pm for each three days (Saturday to Monday)	Fatullah Union	Shibu Market - Fatullah Road	Tertiary Road	2
1 0	MC-12	Mid-block	23.706734	90.503009	3	Saturday 7 am to Tuesday 7am	3	Saturday 7 am to Tuesday 7am	3	7 am to 11pm for each three days (Saturday to Monday)	Ward No. 04	Demra	Regional Road (R110)	2
1 1	MC-13	Mid-block	23.617791	90.521506	3	Saturday 7 am to Tuesday 7am	3	Saturday 7 am to Tuesday 7am	3	7 am to 11pm for each three days (Saturday to Monday)	Ward No. 22	Bandar Chitashal Road	Regional Road (R113)	2
1 2	MC-14	Mid-block	23.62685	90.490829	3	Saturday 7 am to Tuesday 7am	3	Saturday 7 am to Tuesday 7am	3	7 am to 11pm for each three days (Saturday to Monday)	Ward No. 13	Masdair	Regional Road (R810)	2
1 3	MC-15	Mid-block	23.60964	90.492439	3	Saturday 7 am to Tuesday 7am	3	Saturday 7 am to Tuesday 7am	3	7 am to 11pm for each three days	Ward No. 16	Mobarak Shah Road	Tertiary Road	2

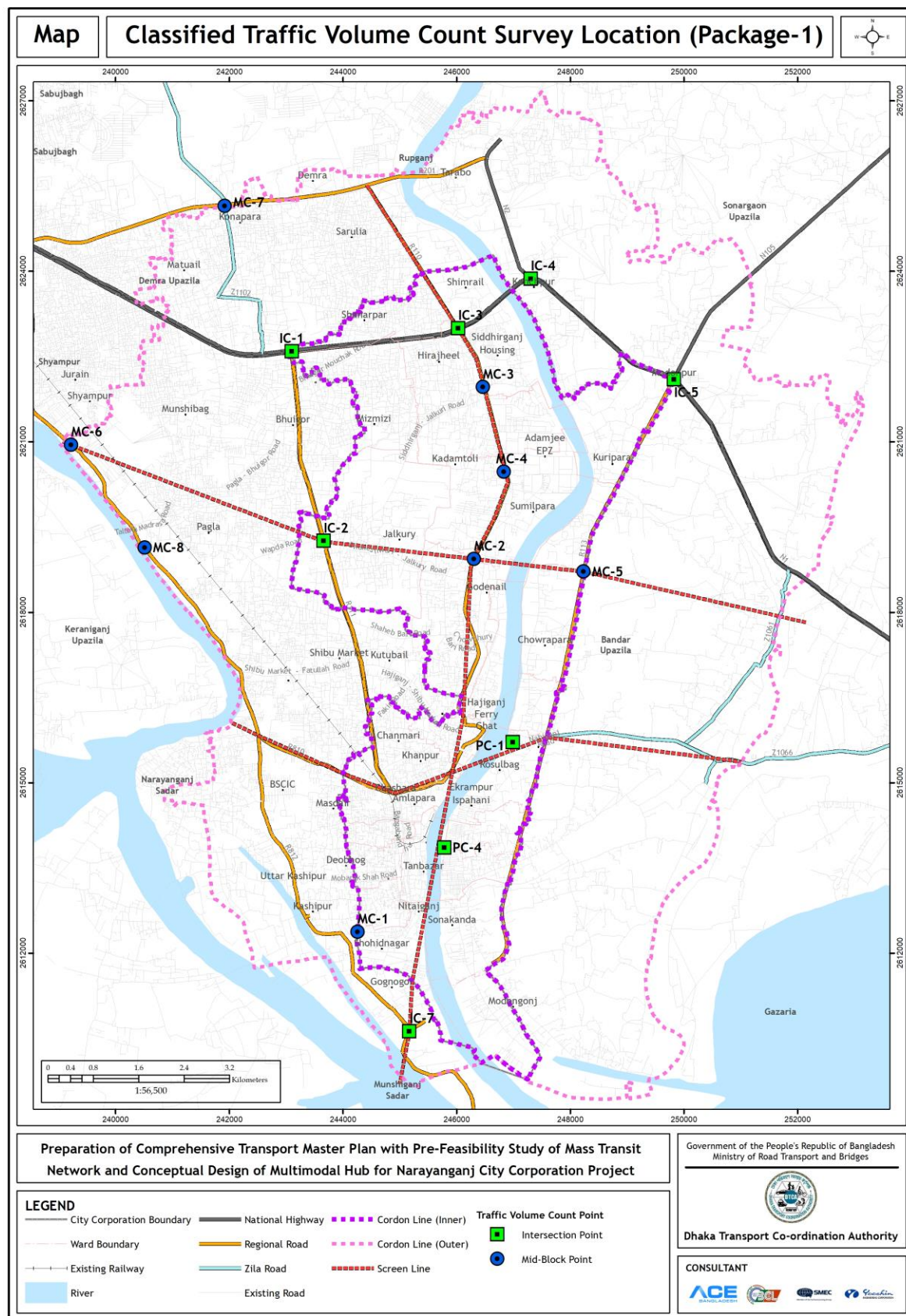
S N	ID	Location Types	Latitude	Longitude	Duration of Survey (Day)						Union/ Ward	Local Address	Road Type	Minimum required Number of Cameras
					CTC		RSI		PS					
					No of Day	Duration	No of Day	Duration	No of Day	Duration				
										(Saturday to Monday)				
1 4	MC- 16	Mid-block	23.615237	90.491644	3	Saturday 7 am to Tuesday 7am	3	Saturday 7 am to Tuesday 7am	3	7 am to 11pm for each three days (Saturday to Monday)	Ward No. 16	Deobhog	Tertiary Road	2
1 5	MC- 17	Mid-block	23.64888	90.504476	3	Saturday 7 am to Tuesday 7am	3	Saturday 7 am to Tuesday 7am	3	7 am to 11pm for each three days (Saturday to Monday)	Ward No. 08	Shaheb Bari Road	Tertiary Road	2
1 6	PC- 2	Mid-block	23.610897	90.502232					3	7 am to 11pm for each three days (Saturday to Monday)	Ward No. 15	Baburail Lake	Regional Road (Z1102)	2
1 7	PC- 3	Three leg intersection	23.616168	90.505388					3	7 am to 11pm for each three days (Saturday to Monday)	Ward No. 15	Taan Bazar	Regional Road (R810)	6

[illegible]

Appendix E Roadside Interview Survey (RSI) Survey Form

Roadside Interview (RSI) Survey Form					
1. Name of surveyor				2. Weather	
3. Date of Survey				4. Day	
5. Survey point				6. Survey time	
Trip Origin			Trip Destination		
7. Where did you start this trip			8. Where this trip will end?		
Address (Road/ Sector/Location/ Upazila/ Zila)			Address (Road/ Sector/Location/ Upazila/ Zila)		
TAZ ID				TAZ ID	
When are you returning to your home		Within Today		Within 3 Day	Within 7 Day
				More than 7 days	
9. Type of vehicle					
1	Pedestrian	10	Large bus/ Double Decker bus		
2	Pedestrian	11	4 Wheel Drive/ Jeep/ SUV		
3	Bicycle	12	Rickshaw		
4	Motorcycle	13	Rickshaw Van		
5	Car	14	School van		
6	Motorized 3 wheel/ CNG/ Auto Rickshaw	15	Cart		
7	Human hauler/ Leguna/ Tempo/ Maxi	16	Light Truck/ Pickup/ Small cover van		
8	Microbus/ NOAH/ Hiace	17	Medium Truck/ Tanker		
9	Mini bus/ Staff bus	18	Heavy Truck		
10. How often do you make this trip			11. Trip purpose		
1	Less than 1 time per month	origin	Purpose	Destination	
2	1-3 times per month	1	Home	1	
3	Once a week	2	Work	2	
4	2-5 times per week	3	Education	3	
5	Everyday	4	Leisure	4	
12. Vehicle Capacity(person)		5	Shopping	5	
13. Vehicle Occupancy (person)		6	Terminal	6	
Only for freight vehicle		7	Medical	7	
14. Vehcile capacity (tons)		8	Others	8	
15. Amount of goods in the vehicle (tons)					

Appendix F Pedestrian Count and Interview Survey Locations



Appendix G Pedestrian Interview Survey Form

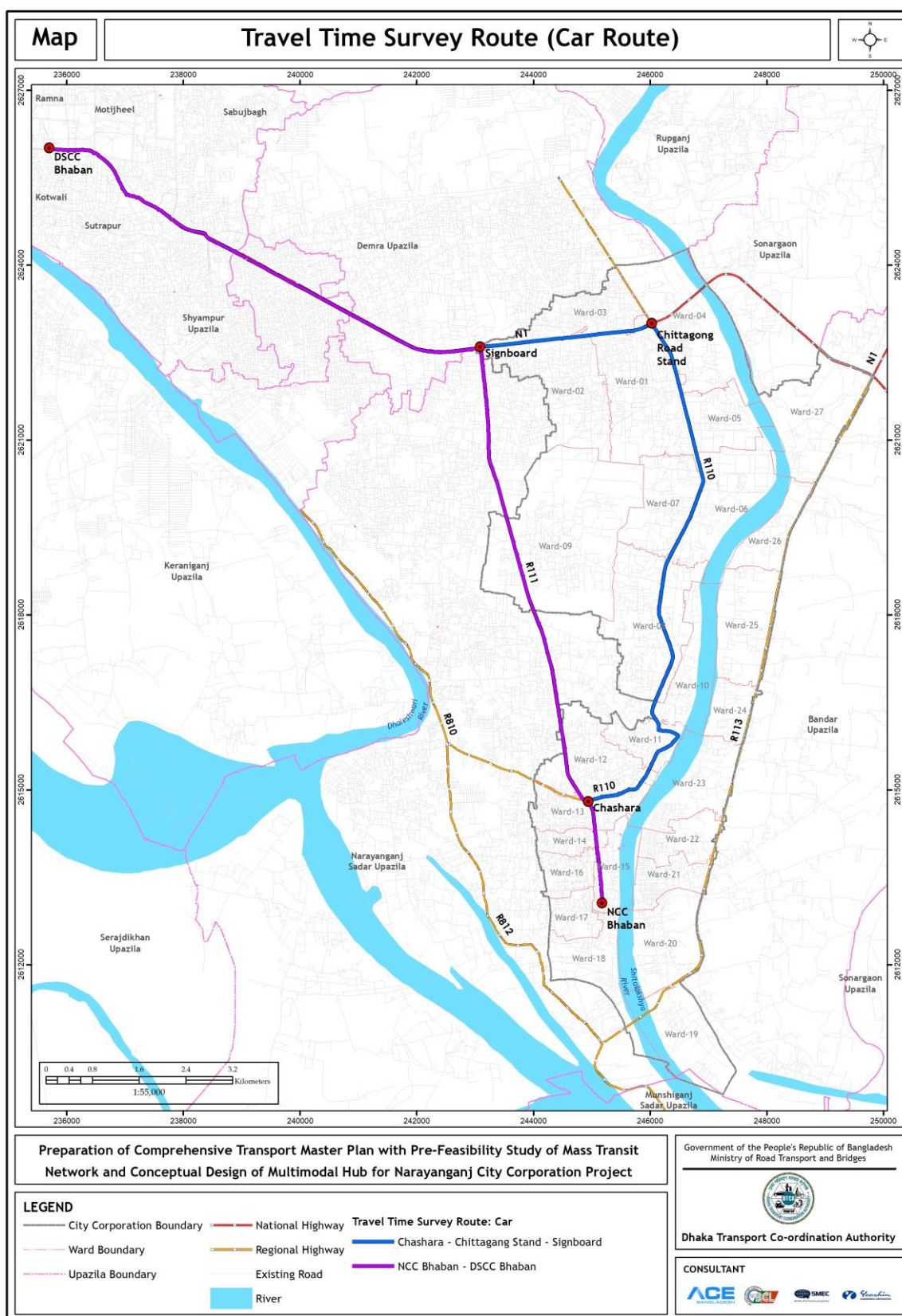
Pedestrian Interview Survey Form							
1. Name of surveyor					2. Weather		
3. Date of Survey					4. Day		
5. Survey point					6. Survey time		
Trip Origin				Trip Destination			
7. Where did you start this trip				8. Where this trip will end?			
Address (Road/ Sector/Location/ Upazila/ Zila)				Address (Road/ Sector/Location/ Upazila/ Zila)			
9. Gender	1. Male	2. Female	3. Others				
TAZ ID				TAZ ID			
10. Address of work place (Road/ Sector/Location/ Upazila/ Zila)							
11. Address of residence (Road/ Sector/Location/ Upazila/ Zila)							
12. Age							
0-2	3-6	7-10	11-20	21-30	31-40	41-50	51-60
61-70	71-80	81-90	Greater than 90				
13 Disability				11. Trip purpose			
1	Physical Disability			origin	Purpose		Destination
2	Autism			1	Home		1
3	Metal illness leading to disability			2	Work		2
4	Visual Disability			3	Education		3
5	Speech Disability			4	Leisure		4
6	Intellectual Disability			5	Shopping		5
7	Hearing Disability			6	Terminal		6
8	Deaf-blindness			7	Medical		7
9	Cerebral Palsy (CP)			8	Others		8
10	Multiple Disability						
11	Others						
12	Person with No Disability						
12. How often do you make this trip							
1	Less than 1 time per month						
2	1-3 times per month						
3	Once a week						
4	2-5 times per week						
5	Everyday						

Appendix H Pedestrian Count sheet for Each Direction (sample)

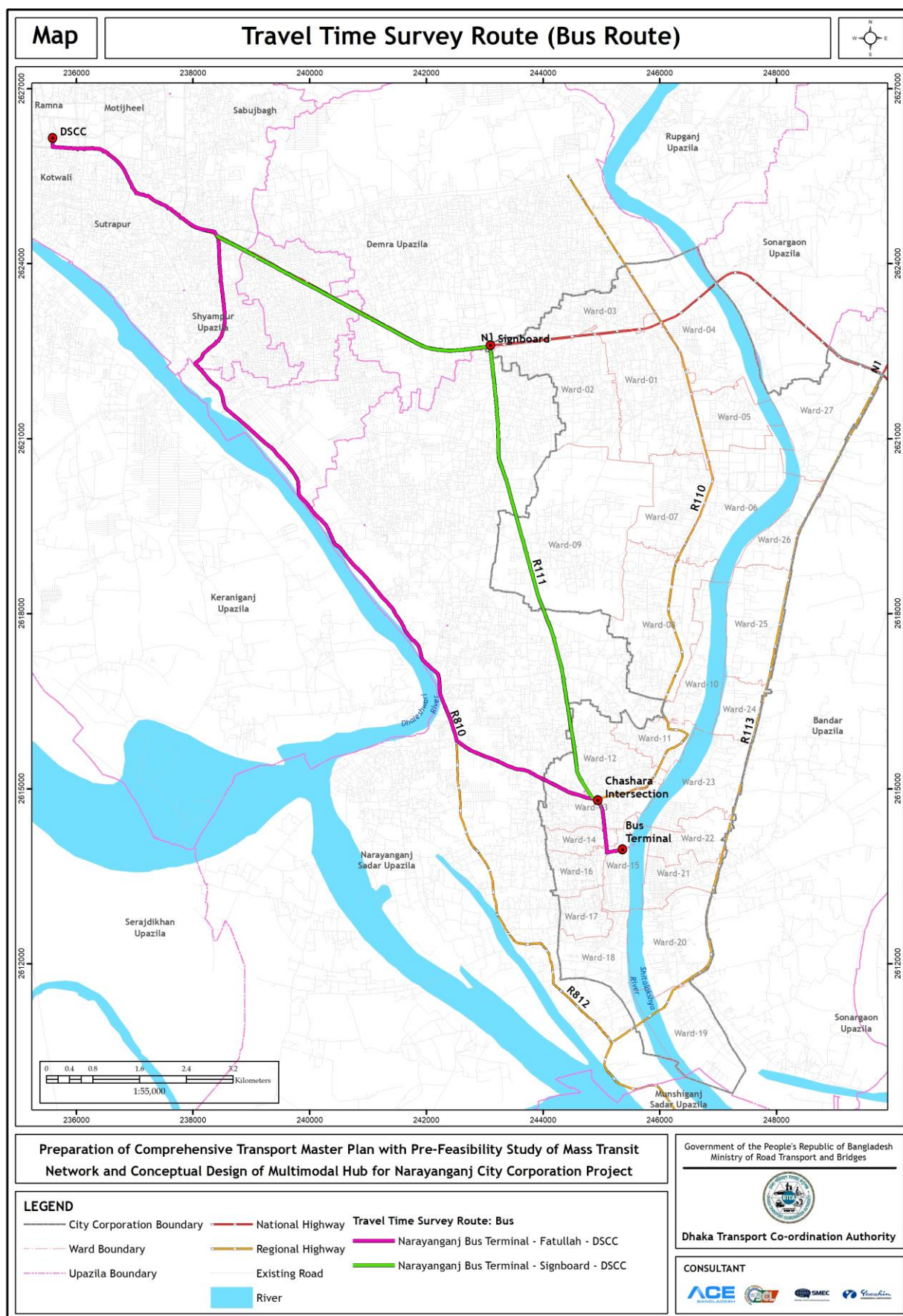
Narayanganj City Corporation Comprehensive Transport Masterplan Project					
Pedestrian Count Survey Data Sheet					
Date:		Intersection/Road:		Surveyor Name:	
Day:		Approach Name:		Surveyor ID:	
Count Hours	From_to_hrs			Weather Condition:	
Location Name					
Location ID					Supervisor
Direction from		Direction to		Surveyor	
		Pedestrian			
		Direction 1		Direction 2	
Time		D1-PD1	D1-PD2	D2-PD1	D2- PD2
Start	End				
0:00	0:15				
0:15	0:30				
0:30	0:45				
0:45	1:00				
0:00	0:15				
0:15	0:30				
0:30	0:45				
0:45	1:00				
0:00	0:15				
0:15	0:30				
0:30	0:45				
0:45	1:00				

Appendix I Travel Time Survey Route

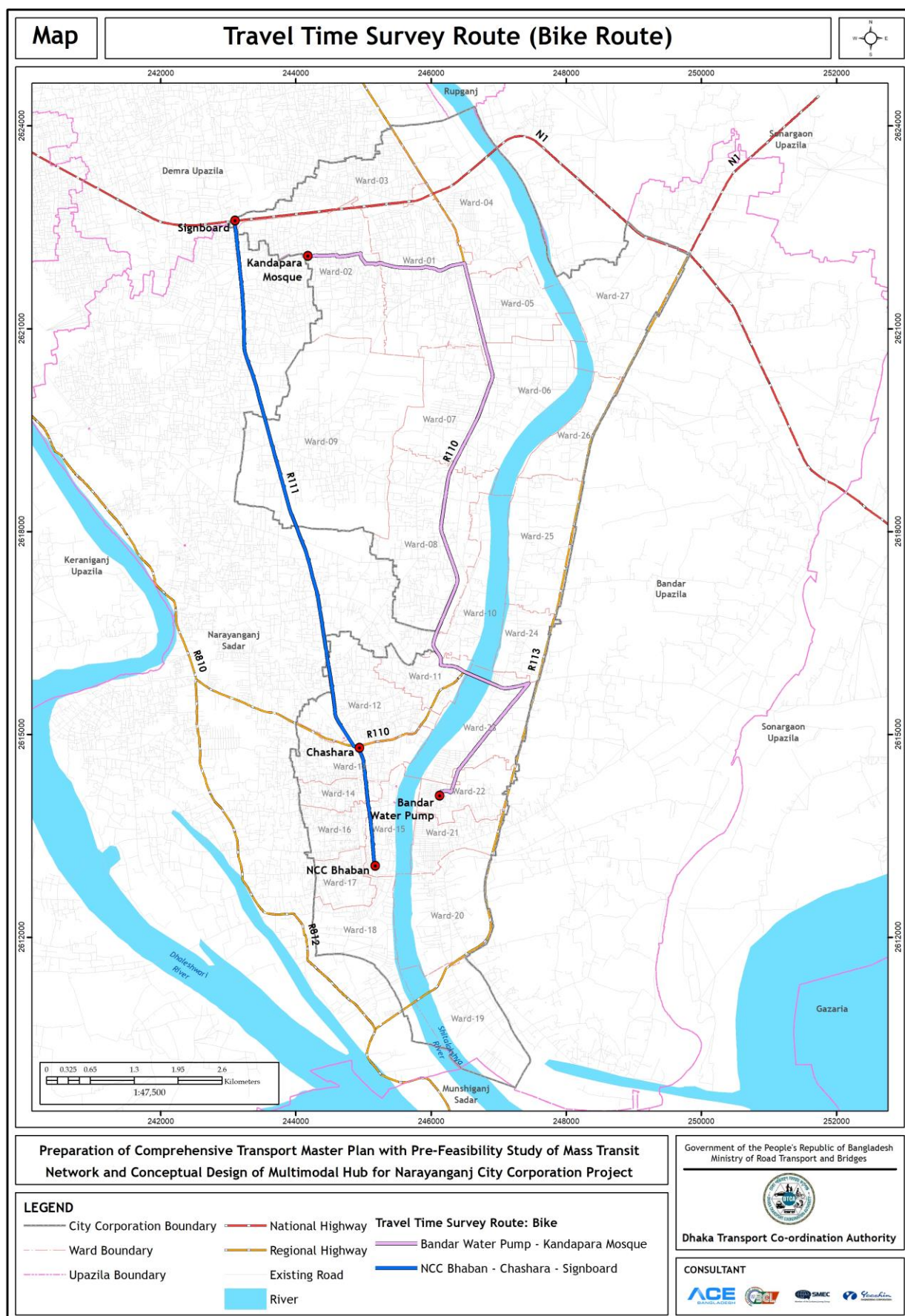
Travel Time Survey Route (for Car)



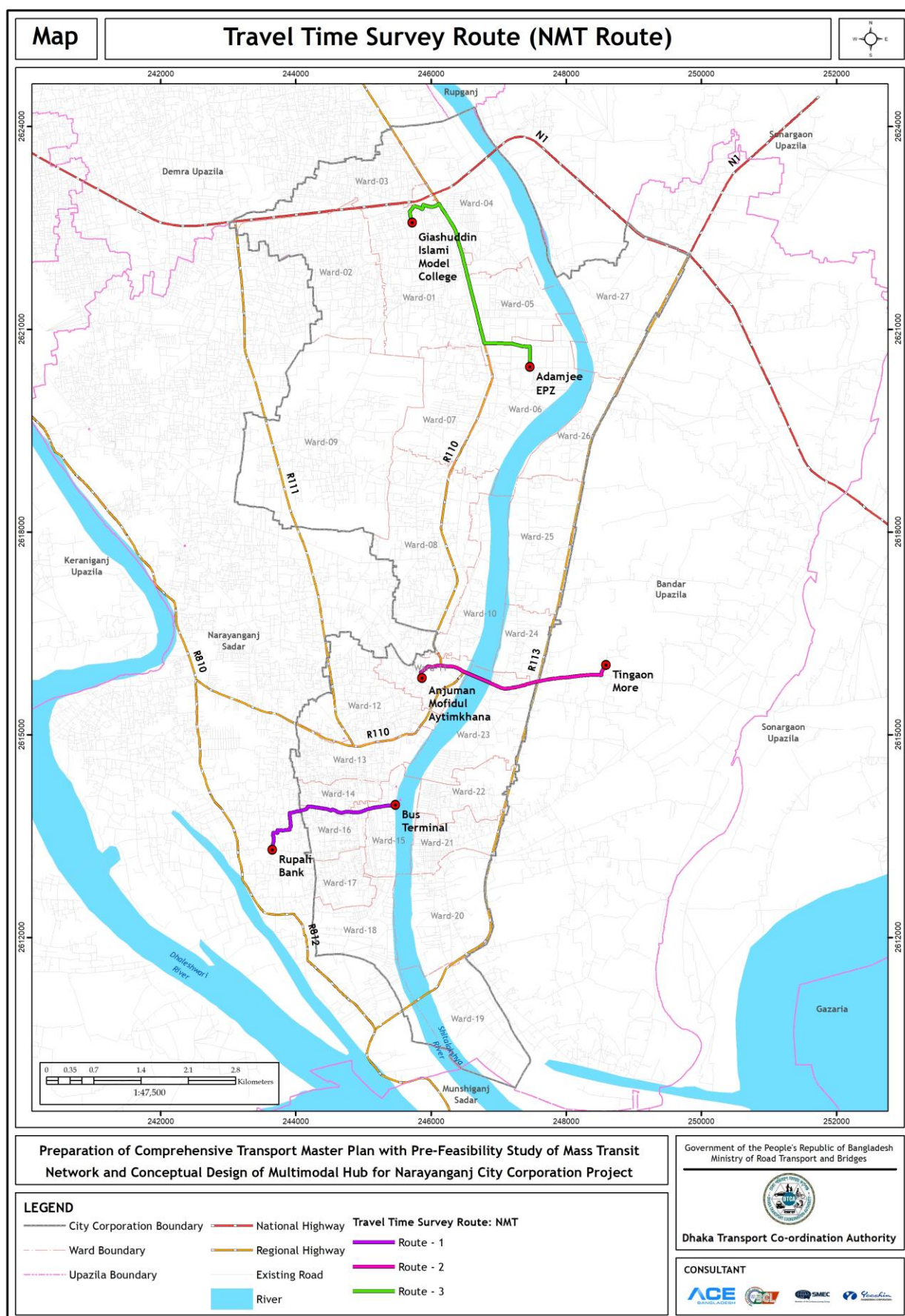
Travel Time Survey Route (for Bus)



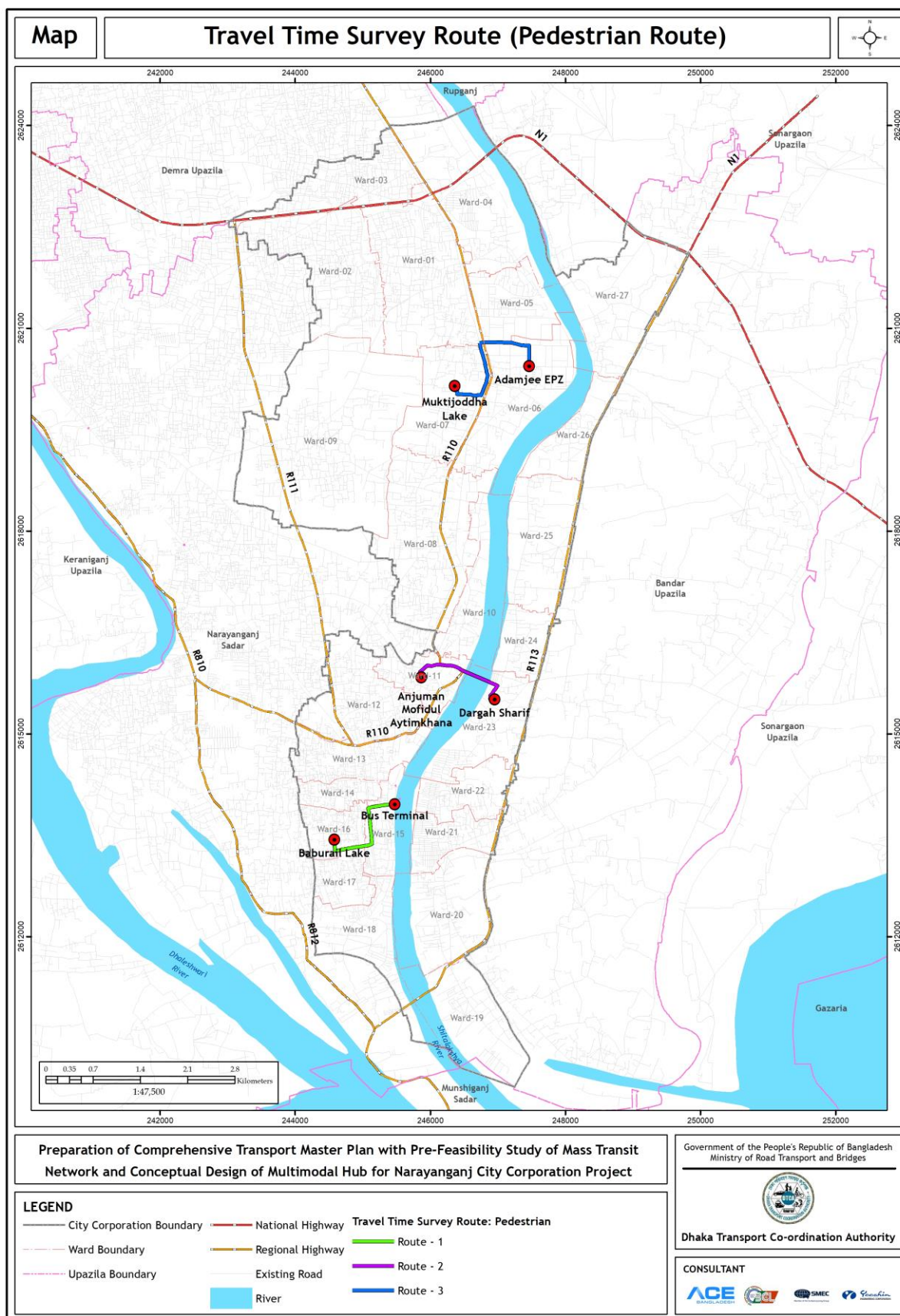
Travel Time Survey Route (for Bike)



Travel Time Survey Route (for Rickshaw)



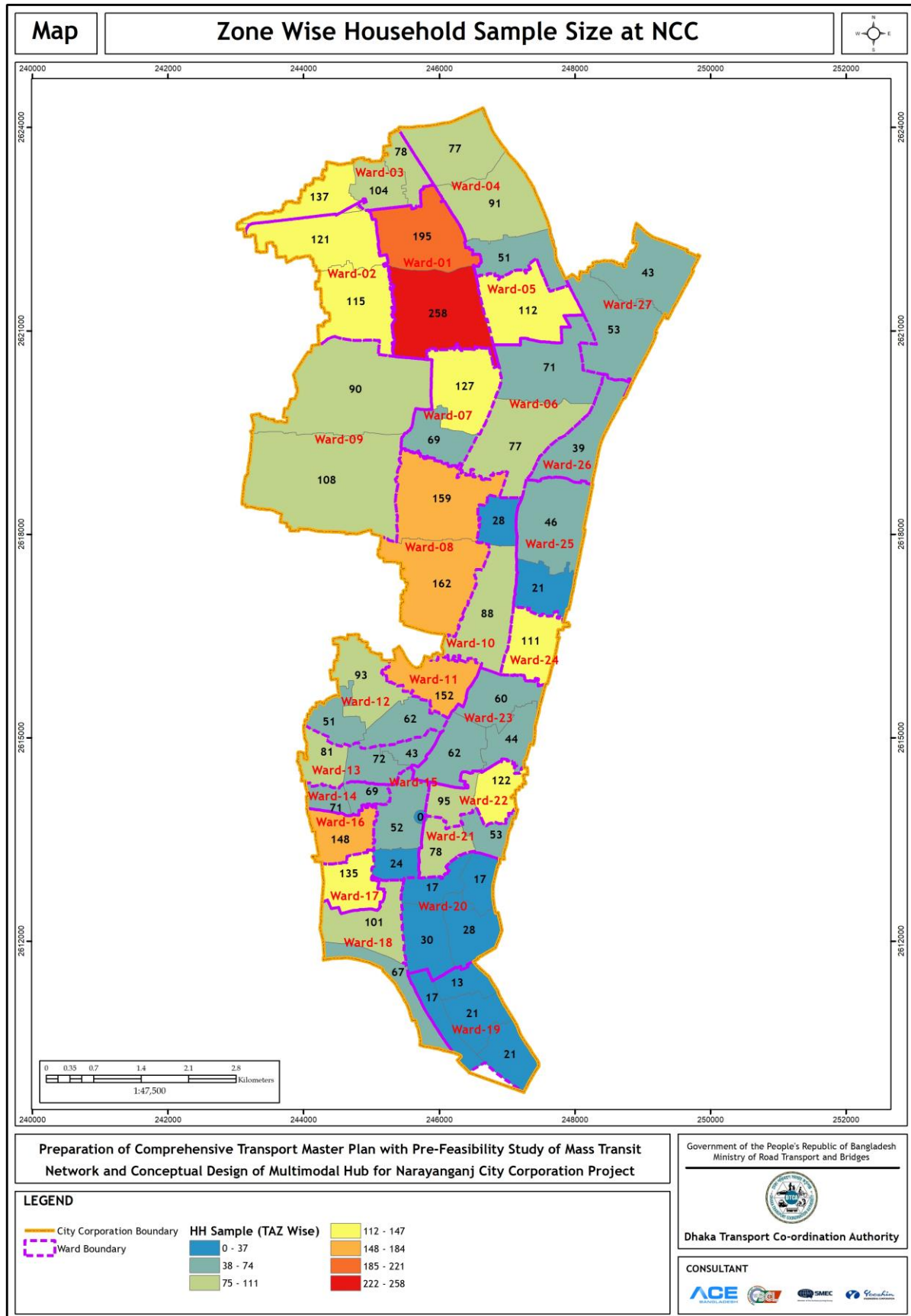
Travel Time Survey Route (for Walking)



Appendix J Sample Distribution of Household Interview Survey

Ward	NCC_TAZ	Area (sq.km)	Sample Size of HH
NCC_Ward-01	1296	1.66	258
	1297	1.26	195
NCC_Ward-02	1293	1.24	121
	1294	1.18	115
NCC_Ward-03	1295	0.65	137
	1298	0.49	104
	1299	0.37	78
NCC_Ward-04	1300	1.27	91
	1301	0.71	51
	1302	1.08	77
NCC_Ward-05	1303	1.26	112
NCC_Ward-06	1304	1.46	77
	1305	1.35	71
NCC_Ward-07	1306	1.06	127
	1307	0.57	69
NCC_Ward-08	1312	1.51	159
	1310	1.53	162
NCC_Ward-09	1308	3.07	108
	1309	2.57	90
NCC_Ward-10	1313	1.22	88
	1311	0.39	28
NCC_Ward-11	1362	0.78	152
NCC_Ward-12	1358	0.83	93
	1359	0.55	62
	1360	0.45	51
NCC_Ward-13	1356	0.41	72
	1320	0.46	81
	1357	0.24	43
NCC_Ward-14	1355	0.23	71
	1354	0.23	69
NCC_Ward-15	1351	0.68	52
	1352	0.30	24
NCC_Ward-16	1353	0.63	148
NCC_Ward-17	1350	0.61	135
NCC_Ward-18	1341	0.86	101
	1342	0.57	67
NCC_Ward-19	1343	0.54	21
	1344	0.53	21
	1345	0.43	17
	1346	0.32	13
NCC_Ward-20	1347	0.37	17

Ward	NCC_TAZ	Area (sq.km)	Sample Size of HH
	1348	0.67	30
	1349	0.63	28
	1370	0.37	17
NCC_Ward-21	1368	0.49	78
	1369	0.33	53
NCC_Ward-22	1366	0.39	95
	1367	0.50	122
NCC_Ward-23	1363	0.70	60
	1364	0.51	44
	1365	0.72	62
NCC_Ward-24	1398	0.73	111
NCC_Ward-25	1399	1.26	46
	1401	0.58	21
NCC_Ward-26	1482	0.90	39
NCC_Ward-27	1492	1.31	53
	1483	1.07	43



Appendix K Household Interview Survey Form

Consent Form

We are conducting this household survey with the aim to obtain trip information of the residents in the Narayanganj City Corporation (NCC) area, together with household and personal attributes of selected households in the NCC area for understanding the present situation of urban transport in NCC. The data will be utilized for developing a transport model.

We would like to ask you and all the household members questions about your household, and trip-related information for a particular day of last week. There is no risk anticipated by participating. Your response to interview questions will be kept confidential. Survey staff will protect your personal information closely, so no one outside the RSTP team will be able to identify that the responses are coming from you. The data you share with us may be used as the basis for the transport plan, but we will never use your name or information that would identify you.

Your participation in this study is completely voluntary, and you may refuse to participate or withdraw from the study at any time. The questions are designed in a way that all the questions and trips are important to design the transport plan properly, therefore, skipping any question is not desirable. If you have questions or concerns about this survey, please contact: _____

Consent

Do you agree to be interviewed? ☐ No ☐ Yes

Name and Signature of the Household Head: Name: _____; Signature: _____

Form 1: Household Information

Q1.1) Head of Household Name: _____

Q1.2) Phone number:

Q1.3) Residential Address:
 House No: _____ Ward/ Union: _____ District (Zilla): _____ ☐ Exact location
 Road No/ Name: _____ City Corporation/ **Pourashava**: _____ Coordinate: _____ ☐ Indicative location
 Area name: _____ Landmark: _____ Zone Code: _____

Q1.4) Housing Type
☐ 1. Individual duplex or triplex building ☐ 4. Single storied building ☐ 7. Store combined housing
☐ 2. Apartment type multi storied building ☐ 5. Tin shade House ☐ XX floor for shop/ business
☐ 3. Self-made multi storied building ☐ 6. Student Dormitory ☐ XX floor for housing
☐ 8. Others (specify) _____

Q1.5) House Ownership Status
☐ 1. Own property by Household ☐ 3. House or Room provided by Company working with
☐ 2. Rent ☐ 4. Others (specify) _____

Q1.6) HH Monthly Income (Total)
☐ 1. Less than Tk 10,000 ☐ 4. Tk 30,000 – Tk 40,000 ☐ 7. Tk 60,000 – Tk 80,000
☐ 2. Tk 10,000 – Tk 20,000 ☐ 5. Tk 40,000 – Tk 50,000 ☐ 8. Tk 80,000 – Tk 100,000
☐ 3. Tk 20,000 – Tk 30,000 ☐ 6. Tk 50,000 – Tk 60,000 ☐ 9. More than Tk 100,000

Q1.7) HH Monthly Expenditure (Total)
☐ 1. Less than Tk 10,000 ☐ 4. Tk 30,000 – Tk 40,000 ☐ 7. Tk 60,000 – Tk 80,000
☐ 2. Tk 10,000 – Tk 20,000 ☐ 5. Tk 40,000 – Tk 50,000 ☐ 8. Tk 80,000 – Tk 100,000
☐ 3. Tk 20,000 – Tk 30,000 ☐ 6. Tk 50,000 – Tk 60,000 ☐ 9. More than Tk 100,000

Q1.8) HH Monthly Expenditure for Transportation (Total)
☐ 1. Less than Tk 1,000 ☐ 7. Tk 6,000 – Tk 7,000 ☐ 13. Tk 15,000 – Tk 17,500
☐ 2. Tk 1,000 – Tk 2,000 ☐ 8. Tk 7,000 – Tk 8,000 ☐ 14. Tk 17,500 – Tk 20,000
☐ 3. Tk 2,000 – Tk 3,000 ☐ 9. Tk 8,000 – Tk 9,000 ☐ 15. Tk 20,000 – Tk 25,000
☐ 4. Tk 3,000 – Tk 4,000 ☐ 10. Tk 9,000 – Tk 10,000 ☐ 16. More than Tk 25,000
☐ 5. Tk 4,000 – Tk 5,000 ☐ 11. Tk 10,000 – Tk 12,500
☐ 6. Tk 5,000 – Tk 6,000 ☐ 12. Tk 12,500 – Tk 15,000

Q1.11) Have your household own any vehicles: ☐ Yes ☐ No

Q1.12) Number of vehicles owned by household

Type of Vehicles and Fuel/ power	Octane	Petrol	Diesel	CNG/ LNG	Electricity	Others	NMT
1. Private Car (Sedan)							
2. Microbus							
3. 4WD/ Jeep							
4. 3 Wheelers / CNG for private use							
5. Pick-up etc.							
6. Motorcycle, etc.							
7. Bicycle							
8. Others (specify)							

Q1.13) Total no. of Household Members: _____

Form 2: Questions for all Household Members

Q. No.	Member No.	Name	Age	Sex	Mobile No.	Mobile Operator	Relationship with Head of Household	Employment, Educational and other social status	Which vehicle do you use? (From Q1.11)	Type of Driver License ID owned
Q2.1										
Q2.2										
Q2.3										
Q2.4										
Q2.5										
Q2.6										
Q2.7										
Q2.8										

** add more rows if needed.

Sex	Employment, Educational and other social status	Mobile Operator
<input type="checkbox"/> 1. Male <input type="checkbox"/> 2. Female <input type="checkbox"/> 3. Transgender (Hijra)	<input type="checkbox"/> 1. Employment (including Employee/ Employer, Self-employed, Entrepreneur) <input type="checkbox"/> 2. Student (in any level) <input type="checkbox"/> 3. Other social status	<input type="checkbox"/> 1. Airtel <input type="checkbox"/> 2. Banglalink <input type="checkbox"/> 3. GP <input type="checkbox"/> 4. Robi <input type="checkbox"/> 5. Teletalk <input type="checkbox"/> 6. Others _____
Type of Driver License ID owned	Relationship with Head of Household	
<input type="checkbox"/> 1. Non-Professional <input type="checkbox"/> 2. Professional <input type="checkbox"/> 3. No License	<input type="checkbox"/> 1. Head of Household <input type="checkbox"/> 2. Wife/ Husband <input type="checkbox"/> 3. Child <input type="checkbox"/> 4. Father/ Mother <input type="checkbox"/> 5. Grandson/ Granddaughter <input type="checkbox"/> 6. Parents in Law <input type="checkbox"/> 7. Grandfather/ Grandmother/ Uncle/ Aunt <input type="checkbox"/> 8. Brother/ Sister/ Nephew/ Cousin <input type="checkbox"/> 9. Housemaid/ Babysitter/ Driver for home/ Security guard <input type="checkbox"/> 10. Others (specify) _____	
Which vehicle do you use? (From Q1.11)		
<input type="checkbox"/> 1. Private Car (Sedan) <input type="checkbox"/> 2. Microbus <input type="checkbox"/> 3. 4WD/ Jeep <input type="checkbox"/> 4. 3 Wheelers / CNG for private use <input type="checkbox"/> 5. Pick-up etc. <input type="checkbox"/> 6. Motorcycle, etc. <input type="checkbox"/> 7. Bicycle <input type="checkbox"/> 8. Others (specify) _____		

Surveyor No:		Name:		Supervisor No:		Name:		Zone Code	District	City Corporation/ Upazila	Municipality Union/Ward	Batch No.		Sample/ HH No.		Date:	
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Form 1: Household Information

Q1.1) Head of Household Name: _____																																																																											
Q1.2) Phone number: <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>																																																																											
Q1.3) Residential Address: House No: _____ Ward/ Union: _____ District (Zilla): _____ <input type="checkbox"/> Exact location Road No/ Name: _____ City Corporation/Pourashava: _____ Coordinate: _____ <input type="checkbox"/> Indicative location Area name: _____ Landmark: _____ Zone Code: _____																																																																											
Q1.4) Housing Type <input type="checkbox"/> 1. Individual duplex or triplex building <input type="checkbox"/> 4. Single storied building <input type="checkbox"/> 7. Store combined housing <input type="checkbox"/> 2. Apartment type multi storied building <input type="checkbox"/> 5. Tin shade House <input type="checkbox"/> <u>XX</u> floor for shop/ business <input type="checkbox"/> 3. Self-made multi storied building <input type="checkbox"/> 6. Student Dormitory <input type="checkbox"/> <u>XX</u> floor for housing <input type="checkbox"/> 8. Others (specify) _____																																																																											
Q1.5) House Ownership Status <input type="checkbox"/> 1. Own property by Household <input type="checkbox"/> 3. House or Room provided by Company working with <input type="checkbox"/> 2. Rent <input type="checkbox"/> 4. Others (specify) _____																																																																											
Q1.6) HH Monthly Income (Total) <input type="checkbox"/> 1. Less than Tk 10,000 <input type="checkbox"/> 4. Tk 30,000 – Tk 40,000 <input type="checkbox"/> 7. Tk 60,000 – Tk 80,000 <input type="checkbox"/> 2. Tk 10,000 – Tk 20,000 <input type="checkbox"/> 5. Tk 40,000 – Tk 50,000 <input type="checkbox"/> 8. Tk 80,000 – Tk 100,000 <input type="checkbox"/> 3. Tk 20,000 – Tk 30,000 <input type="checkbox"/> 6. Tk 50,000 – Tk 60,000 <input type="checkbox"/> 9. More than Tk 100,000																																																																											
Q1.7) HH Monthly Expenditure (Total) <input type="checkbox"/> 1. Less than Tk 10,000 <input type="checkbox"/> 4. Tk 30,000 – Tk 40,000 <input type="checkbox"/> 7. Tk 60,000 – Tk 80,000 <input type="checkbox"/> 2. Tk 10,000 – Tk 20,000 <input type="checkbox"/> 5. Tk 40,000 – Tk 50,000 <input type="checkbox"/> 8. Tk 80,000 – Tk 100,000 <input type="checkbox"/> 3. Tk 20,000 – Tk 30,000 <input type="checkbox"/> 6. Tk 50,000 – Tk 60,000 <input type="checkbox"/> 9. More than Tk 100,000																																																																											
Q1.8) HH Monthly Expenditure for Transportation (Total) <input type="checkbox"/> 1. Less than Tk 1,000 <input type="checkbox"/> 7. Tk 6,000 – Tk 7,000 <input type="checkbox"/> 13. Tk 15,000 – Tk 17,500 <input type="checkbox"/> 2. Tk 1,000 – Tk 2,000 <input type="checkbox"/> 8. Tk 7,000 – Tk 8,000 <input type="checkbox"/> 14. Tk 17,500 – Tk 20,000 <input type="checkbox"/> 3. Tk 2,000 – Tk 3,000 <input type="checkbox"/> 9. Tk 8,000 – Tk 9,000 <input type="checkbox"/> 15. Tk 20,000 – Tk 25,000 <input type="checkbox"/> 4. Tk 3,000 – Tk 4,000 <input type="checkbox"/> 10. Tk 9,000 – Tk 10,000 <input type="checkbox"/> 16. More than Tk 25,000 <input type="checkbox"/> 5. Tk 4,000 – Tk 5,000 <input type="checkbox"/> 11. Tk 10,000 – Tk 12,500 <input type="checkbox"/> 6. Tk 5,000 – Tk 6,000 <input type="checkbox"/> 12. Tk 12,500 – Tk 15,000																																																																											
Q1.11) Have your household own any vehicles: <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																											
Q1.12) Number of vehicles owned by household <table border="1"> <thead> <tr> <th>Type of Vehicles and Fuel/ power</th> <th>Octane</th> <th>Petrol</th> <th>Diesel</th> <th>CNG/ LNG</th> <th>Electricity</th> <th>Others</th> <th>NMT</th> </tr> </thead> <tbody> <tr> <td>1. Private Car (Sedan)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2. Microbus</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3. 4WD/ Jeep</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4. 3 Wheelers / CNG for private use</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5. Pick-up etc.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6. Motorcycle, etc.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>7. Bicycle</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>8. Others (specify)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Type of Vehicles and Fuel/ power	Octane	Petrol	Diesel	CNG/ LNG	Electricity	Others	NMT	1. Private Car (Sedan)								2. Microbus								3. 4WD/ Jeep								4. 3 Wheelers / CNG for private use								5. Pick-up etc.								6. Motorcycle, etc.								7. Bicycle								8. Others (specify)							
Type of Vehicles and Fuel/ power	Octane	Petrol	Diesel	CNG/ LNG	Electricity	Others	NMT																																																																				
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Q1.13) Total no. of Household Members: _____																																																																											

Form 2: Questions for all Household Members

Q. No.	Member No.	Name	Age	Sex	Mobile No.	Mobile Operator	Relationship with Head of Household	Employment, Educational and other social status	Which vehicle do you use? (From Q1.11)	Type of Driver License ID owned
Q2.1										
Q2.2										
Q2.3										
Q2.4										
Q2.5										
Q2.6										
Q2.7										
Q2.8										

** add more rows if needed.

Sex	Employment, Educational and other social status	Mobile Operator
<input type="checkbox"/> 1. Male <input type="checkbox"/> 2. Female <input type="checkbox"/> 3. Transgender (Hijra)	<input type="checkbox"/> 1. Employment (including Employee/ Employer, Self-employed, Entrepreneur) <input type="checkbox"/> 2. Student (in any level) <input type="checkbox"/> 3. Other social status	<input type="checkbox"/> 1. Airtel <input type="checkbox"/> 2. Banglalink <input type="checkbox"/> 3. GP <input type="checkbox"/> 4. Robi <input type="checkbox"/> 5. Teletalk <input type="checkbox"/> 6. Others _____
Type of Driver License ID owned	Which vehicle do you use? (From Q1.11)	Relationship with Head of Household
<input type="checkbox"/> 1. Non-Professional <input type="checkbox"/> 2. Professional <input type="checkbox"/> 3. No License	<input type="checkbox"/> 1. Private Car (Sedan) <input type="checkbox"/> 2. Microbus <input type="checkbox"/> 3. 4WD/ Jeep <input type="checkbox"/> 4. 3 Wheelers / CNG for private use <input type="checkbox"/> 5. Pick-up etc. <input type="checkbox"/> 6. Motorcycle, etc. <input type="checkbox"/> 7. Bicycle <input type="checkbox"/> 8. Others (specify) _____	<input type="checkbox"/> 1. Head of Household <input type="checkbox"/> 2. Wife/ Husband <input type="checkbox"/> 3. Child <input type="checkbox"/> 4. Father/ Mother <input type="checkbox"/> 5. Grandson/ Granddaughter <input type="checkbox"/> 6. Parents in Law <input type="checkbox"/> 7. Grandfather/ Grandmother/ Uncle/ Aunt <input type="checkbox"/> 8. Brother/ Sister/ Nephew/ Cousin <input type="checkbox"/> 9. Housemaid/ Babysitter/ Driver for home/ Security guard <input type="checkbox"/> 10. Others (specify) _____

Form 3: Questions for Individual Household Members *(This form will be repeated for every Individual Household Members)*

Status of the Household Member: ☐ Employment/ Work: *Fill the Form 3A* ☐ Student (in any level): *Fill the Form 3B* ☐ Other social status: *Fill the Form 3C*

Form 3A: Employment/ Work	
Q3A.1) Member No. as per Form 2: _____	
Q3A.2) Do you work at home? <input type="checkbox"/> 1. Yes ; _____ days in a week <input type="checkbox"/> 2. No	
Q3A.2) Employment status: <input type="checkbox"/> 1. Employee (Full time, Permanent staff, Government) <input type="checkbox"/> 4. Employee (Part time, Permanent staff, Government) <input type="checkbox"/> 7. Self-employed <input type="checkbox"/> 8. Entrepreneur <input type="checkbox"/> 2. Employee (Full time, Permanent staff, Private) <input type="checkbox"/> 5. Employee (Part time, Permanent staff, Private) <input type="checkbox"/> 6. Employee (Part time, Temporary staff, Private) <input type="checkbox"/> 3. Employee (Full time, Temporary staff, Private)	
Q3A.4) Company / Institution Name: _____	
Q3A.5) Building Name of Work Place: _____	
Q3A.6) Address of Work Place House No: _____ Ward/ Union: _____ District (Zilla): _____ <input type="checkbox"/> Exact location Road No/ Name: _____ City Corporation/Pourashava: _____ Coordinate: _____ <input type="checkbox"/> Indicative location Area name: _____ Landmark: _____ Zone Code: _____	
Q3A.7) Facility Type of Work Place <input type="checkbox"/> 1. Residence or dormitory <input type="checkbox"/> 8. Restaurant <input type="checkbox"/> 15. Transport and communication facility <input type="checkbox"/> 2. Government or public office <input type="checkbox"/> 9. Retail, traditional market, supermarket <input type="checkbox"/> 16. Supply and disposal facility <input type="checkbox"/> 3. Business office, company <input type="checkbox"/> 10. Supermarket <input type="checkbox"/> 17. Recreational/sport facility <input type="checkbox"/> 4. Educational facility <input type="checkbox"/> 11. Shopping mall or shopping plaza <input type="checkbox"/> 18. Park, natural environmental area, etc. <input type="checkbox"/> 5. Religious facility <input type="checkbox"/> 12. Grocery market <input type="checkbox"/> 19. Agricultural, forestry and fishery areas <input type="checkbox"/> 6. Medical facility <input type="checkbox"/> 13. Factory <input type="checkbox"/> 20. Construction site <input type="checkbox"/> 7. Accommodation/ entertainment facility <input type="checkbox"/> 14. Warehouse, storage facility <input type="checkbox"/> 21. Others (specify) _____	
Q3A.8) Industry of your work place <input type="checkbox"/> 1. Agriculture, forestry and fishery <input type="checkbox"/> 6. Banking insurance <input type="checkbox"/> 11. Rental <input type="checkbox"/> 2. Mining <input type="checkbox"/> 7. Wholesale and retail trades <input type="checkbox"/> 12. Service industry <input type="checkbox"/> 3. Manufacturing <input type="checkbox"/> 8. Electricity, gas and water supply <input type="checkbox"/> 13. Military and police <input type="checkbox"/> 4. Construction <input type="checkbox"/> 9. Central government services <input type="checkbox"/> 14. Others (specify) _____ <input type="checkbox"/> 5. Transportation and communication <input type="checkbox"/> 10. Local government services	
Q3A.9) Headquarter/Branch Office <input type="checkbox"/> 1. Headquarter <input type="checkbox"/> 2. Branch Office <input type="checkbox"/> 3. Others (specify) _____	
Q3A.10) Number of staff in your office/above mentioned work place <input type="checkbox"/> 1. less than 10 <input type="checkbox"/> 3. 51-100 <input type="checkbox"/> 5. 301-500 <input type="checkbox"/> 7. 1000+ <input type="checkbox"/> 2. 11-50 <input type="checkbox"/> 4. 101-300 <input type="checkbox"/> 6. 501-1000	
Q3A.11) Occupation <input type="checkbox"/> 1. Professor, manager, director, etc. <input type="checkbox"/> 7. Technician <input type="checkbox"/> 13. Public transport driver <input type="checkbox"/> 2. Industry owner, retail owner, etc. <input type="checkbox"/> 8. Waitress <input type="checkbox"/> 14. Private driver <input type="checkbox"/> 3. Expert (Physics, Chemistry etc.). <input type="checkbox"/> 9. Vendor, salesman, etc. <input type="checkbox"/> 15. Housekeeper, office boy, gardener, etc. <input type="checkbox"/> 4. Engineer, doctor, accountant, pilot, etc. <input type="checkbox"/> 10. Handyman (carpenter, jewelry) <input type="checkbox"/> 16. Farmer, fisherman, etc. <input type="checkbox"/> 5. Army/Police man <input type="checkbox"/> 11. Construction, station, port, warehouse <input type="checkbox"/> 17. Security guard <input type="checkbox"/> 6. Administration staff <input type="checkbox"/> 12. Laborer <input type="checkbox"/> 19. Others (specify) _____	
Q3A.12) Working hours in a week: _____ hours	
Q3A.13) Educational Attainment <input type="checkbox"/> 1. No Educational Attainment <input type="checkbox"/> 3. High School <input type="checkbox"/> 5. Technical College <input type="checkbox"/> 7. Graduate School <input type="checkbox"/> 2. Primary School <input type="checkbox"/> 4. College <input type="checkbox"/> 6. University <input type="checkbox"/> 8. Others (specify) _____	
Q3A.14) Monthly Salary before TAX (Including Tax) <input type="checkbox"/> 1. Less than Tk 10,000 <input type="checkbox"/> 4. Tk 30,000 – Tk 40,000 <input type="checkbox"/> 7. Tk 60,000 – Tk 80,000 <input type="checkbox"/> 10. Unknown/ Do not want to answer <input type="checkbox"/> 2. Tk 10,000 – Tk 20,000 <input type="checkbox"/> 5. Tk 40,000 – Tk 50,000 <input type="checkbox"/> 8. Tk 80,000 – Tk 100,000 <input type="checkbox"/> 3. Tk 20,000 – Tk 30,000 <input type="checkbox"/> 6. Tk 50,000 – Tk 60,000 <input type="checkbox"/> 9. More than Tk 100,000	
Q3A.15) Commuting before COVID-19: Before COVID-19, how many days a week did you go to work place? <input type="checkbox"/> 1. None (0 day) <input type="checkbox"/> 3. 2 days <input type="checkbox"/> 5. 4 days <input type="checkbox"/> 7. 6 days <input type="checkbox"/> 9. No fixed schedule, depending on week <input type="checkbox"/> 2. 1 day <input type="checkbox"/> 4. 3 days <input type="checkbox"/> 6. 5 days <input type="checkbox"/> 8. 7 days	
Q3A.16) Present Situation on Work from Home: At present do you work from home? If you work from home, how many days a week do you work from home? <input type="checkbox"/> 1. No <input type="checkbox"/> 3. 2 days <input type="checkbox"/> 5. 4 days <input type="checkbox"/> 7. 6 days <input type="checkbox"/> 9. No fixed schedule, depending on week <input type="checkbox"/> 2. 1 day <input type="checkbox"/> 4. 3 days <input type="checkbox"/> 6. 5 days <input type="checkbox"/> 8. 7 days <input type="checkbox"/> 10. I cannot answer	
Q3A.17) Company's Plan on Work from Home: Does your company/ institution have plan on "Work from Home" after COVID-19? <input type="checkbox"/> 1. Yes (go to the next question) <input type="checkbox"/> 2. No (go to the next section)	
Q3A.18) If Yes, how many days a week do employee will work from home? <input type="checkbox"/> 1. 1 day <input type="checkbox"/> 3. 3 days <input type="checkbox"/> 5. 5 days <input type="checkbox"/> 7. 7 days <input type="checkbox"/> 2. 2 days <input type="checkbox"/> 4. 4 days <input type="checkbox"/> 6. 6 days	
Q3A.19) Your preference on Work from Home: If you can choose Work from Home, how many days a week do you want to Work from Home? <input type="checkbox"/> 1. 1 day <input type="checkbox"/> 3. 3 days <input type="checkbox"/> 5. 5 days <input type="checkbox"/> 7. 7 days <input type="checkbox"/> 2. 2 days <input type="checkbox"/> 4. 4 days <input type="checkbox"/> 6. 6 days <input type="checkbox"/> 8. I do not know	

Q3A.20) Your preference of mode for commuting before covid 19	1. Walking	2. Rickshaw	3. Bicycle	4.CNG	5. Motorcycle	6. Tempo/Leguna	7. Car	8. Bus	9. Train	10. Ride Share Service	11. Others (Specify)
Q3A.21) Your preference of mode for commuting during covid 19	1. Walking	2. Rickshaw	3. Bicycle	4.CNG	5. Motorcycle	6. Tempo/Leguna	7. Car	8. Bus	9. Train	10. Ride Share Service	11. Others (Specify)
Q3A.22) Your preference of mode for commuting after covid 19	1. Walking	2. Rickshaw	3. Bicycle	4.CNG	5. Motorcycle	6. Tempo/Leguna	7. Car	8. Bus	9. Train	10. Ride Share Service	11. Others (Specify)

Form 3B: Student (in any level)**Q3B.1) Member No. as per Form 2:** _____**Q3B.2) School/ Other Educational Institute Name:** _____**Q3B.3) School/ Other Educational Institute Location:**

House No: _____ Ward/ Union: _____ District (Zilla): _____ ☐ Exact location
 Road No/ Name: _____ City Corporation/Pourashava: _____ Coordinate: _____ ☐ Indicative location
 Area name: _____ Landmark: _____ Zone Code: _____

Q3B.4) School/ Other Educational Institute type:

☐ 1. Public School ☐ 2. Private School

Q3B.5) School/ Other Educational Institute level:

☐ 1. Kindergarten ☐ 4. College (Grade 11-12)/ Technical College ☐ 6. University/ Honors College
☐ 2. Primary School ☐ 5. Diploma ☐ 7. Post-graduate
☐ 3. High School (Grade 6-10) ☐ 8. Others (specify) _____

Q3B.6) Grade in School/ College:

☐ 1. Grade 1 and below ☐ 4. Grade 4 ☐ 7. Grade 7 ☐ 10. Grade 10
☐ 2. Grade 2 ☐ 5. Grade 5 ☐ 8. Grade 8 ☐ 11. Grade 11
☐ 3. Grade 3 ☐ 6. Grade 6 ☐ 9. Grade 9 ☐ 12. Grade 12

Q3B.7) Class days in a week: _____ days**Q3B.8) Do you study from home?**

☐ 1. Yes, 5 days a week ☐ 5. Yes, 1 days a week
☐ 2. Yes, 4 days a week ☐ 6. No, I have studied from before but now I go to school
☐ 3. Yes, 3 days a week ☐ 7. No, I have never studied from home
☐ 4. Yes, 2 days a week ☐ 8. Other _____

Form 3C: Other Social Status**Q3C.1) Member No. as per Form 2:** _____**Q3C.2) Social Status:**

☐ 1. House wife/ husband ☐ 2. Pension ☐ 3. Unemployed ☐ 4. Housemaid ☐ 5. Others (specify) _____

Q3C.3) Educational Attainment:

☐ 1. No Educational Attainment ☐ 3. High School ☐ 5. Technical College ☐ 7. Graduate School
☐ 2. Primary School ☐ 4. College ☐ 6. University ☐ 8. Others (specify) _____

Form 4: Trip Information (This form will be repeated for every individual Household Members and for their every trip in the day)

Q4) Member No. as per Form 2: _____

Q4.1) Date of the selected day of the week: ☐ - ☐ - ☐ (DD-MM-YYYY)Q4.2) Selected day of the week: ☐ 1. Monday ☐ 2. Tuesday ☐ 3. Wednesday**Repeat Q4.3-Q4.18 for every trip and every member of the day**Q4.3) Trip No.: ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16**Q4.4) Purpose of the trip:**

- Education Place: School, College, University etc.
 - Home to Others: Others to Home: Others means places visit for shopping, leisure, entertainment, hospital, prayer etc.;
 - Non Home-based Others:
 - From one Business Location (Other than work place) to another Business Location
 - For students: from private tutor's place (Other than school) to another Location
 - From Business Location to Shopping, leisure, entertainment, prayer etc.
 - Non Home-based Business: Work Place to Other Business Locations
- ☐ 1. Home to Work Place ☐ 3. Home to Education Place ☐ 5. Home to Others ☐ 7. Non Home-based Others
☐ 2. Work Place to Home ☐ 4. Education Place to Home ☐ 6. Others to Home ☐ 8. Non Home-based Business

Q4.5) Address of the Origin (A)/ Starting point

House No: _____ Ward/ Union: _____ District (Zilla): _____ ☐ Exact location
 Road No/ Name: _____ City Corporation/Pourashava: _____ Coordinate: _____ ☐ Indicative location
 Area name: _____ Landmark: _____ Zone Code: _____

Q4.6.1) Origin Location Type:☐ 1. Home ☐ 2. Work Place ☐ 3. Education Place ☐ 4. Other _____

Q4.6.2) Type of Facility (Choose from the Table F4.1TAB): _____

Q4.7) Starting Time: ☐ : ☐ (HH:MM)**Q4.8) If you transferred to another mode of transport during the trip, state all the mode you changed to and the place.**

Transfer point	Address	Modes (Choose from the Table F4.2TAB)	Cost (BDT)	(a) Waiting Time (minutes)	(b) In vehicle Time (minutes)	Travel Time (minutes): (a+b)
B	Landmark/Coordinate					
C	Landmark/Coordinate					
D	Landmark/Coordinate					
E	Landmark/Coordinate					
F	Landmark/Coordinate					
G	Landmark/Coordinate					
---	Landmark/Coordinate					
---	Landmark/Coordinate					
---	Landmark/Coordinate					
Total		Count Mode	Total Cost	Total Waiting Time	Total in Vehicle Time	Total Travel Time

Q4.9) Address of the Destination (Z)/ Ending point

House No: _____ Ward/ Union: _____ District (Zilla): _____ ☐ Exact location
 Road No/ Name: _____ City Corporation/Pourashava: _____ Coordinate: _____ ☐ Indicative location
 Area name: _____ Landmark: _____ Zone Code: _____

Q4.10.1) Destination Location Type:☐ 1. Home ☐ 2. Work Place ☐ 3. Education Place ☐ 4. Other _____

Q4.10.2) Type of Facility (Choose from the Table F4.1TAB): _____

Q4.11) Reaching Time: ☐ : ☐ (HH:MM)

Q4.12) Trip Distance: _____ KM Automatic Selection (by Google map)
 Q4.13) Travel Time (Car): _____ minutes Automatic Selection (by Google map)
 Q4.14) Travel Cost (Car): _____ tk Cost (input in back office): Fuel + Parking + Toll
 Q4.15) Travel Time (MC): _____ minutes Automatic Selection (by Google map)
 Q4.16) Travel Cost (MC): _____ tk Cost (input in back office): Fuel + Parking + Toll
 Q4.17) Travel Time (Bus): _____ minutes Automatic Selection (by Google map)
 Q4.18) Travel Cost (Bus): _____ tk input in back office using BRTA Fare

To be calculated at the back office

Q4.12) What is the main mode? (Select from Table F4.2TAB) _____

Main Mode: The mode which was for a maximum number of times for a larger distance from the question no. Q4.8

Q4.13) What is the most important reason for the main mode choice? (Multiple choice)

☐ 1. Travel Time ☐ 3. Safety ☐ 5. Punctuality ☐ 7. Others (specify) _____
☐ 2. Travel Cost ☐ 4. Comfortability ☐ 6. Convenience

Table F4.1TAB

- | | | |
|---|---|--|
| <input type="checkbox"/> a. Residence or dormitory | <input type="checkbox"/> j. Restaurant | <input type="checkbox"/> p. Transport and communication facility |
| <input type="checkbox"/> b. Educational facility | <input type="checkbox"/> k. Retail, traditional market | <input type="checkbox"/> q. Supply and disposal facility |
| <input type="checkbox"/> c. Government or public office | <input type="checkbox"/> l. Supermarket | <input type="checkbox"/> r. Recreational/sport facility |
| <input type="checkbox"/> d. Business office, company | <input type="checkbox"/> m. Shopping mall or shopping plaza | <input type="checkbox"/> s. Park, natural environmental area, etc. |
| <input type="checkbox"/> e. Religious facility | <input type="checkbox"/> n. Grocery market | <input type="checkbox"/> t. Agricultural, forestry and fishery areas |
| <input type="checkbox"/> f. Medical facility | <input type="checkbox"/> o. Factory | <input type="checkbox"/> u. Construction site |
| <input type="checkbox"/> g. Hotel/ Accommodation | <input type="checkbox"/> p. Warehouse, storage facility | <input type="checkbox"/> v. Others (specify) _____ |
| <input type="checkbox"/> h. Entertainment facility | | |

Table F4.2TAB

- | | | | | |
|--|---|--|--|--|
| <input type="checkbox"/> 1. Walking | <input type="checkbox"/> 6. Motorcycle (ride sharing, i.e., UBER, Pathao, etc.) | <input type="checkbox"/> 13. Private car /Microbus/ Jeep etc. (drive by driver) | <input type="checkbox"/> 18. School Van | <input type="checkbox"/> 24. Boat/ Engine Boat |
| <input type="checkbox"/> 2. Bicycle | <input type="checkbox"/> 7. 3-wheeler CNG (shared) | <input type="checkbox"/> 14. Taxi/ Private car /Microbus/ Jeep etc. (ride sharing, i.e., UBER, Pathao, etc.) | <input type="checkbox"/> 19. School/ Collage/ University Bus | <input type="checkbox"/> 25. Ferry |
| <input type="checkbox"/> 3. Rickshaw | <input type="checkbox"/> 8. 3-wheeler CNG (reserved) | <input type="checkbox"/> 15. Laguna/ Tempu | <input type="checkbox"/> 20. Staff Vehicles (Car/ Microbus) | <input type="checkbox"/> 26. Metro Rail |
| <input type="checkbox"/> 4. Motorcycle (self-driven) | <input type="checkbox"/> 9. 3-wheeler Auto (shared) | <input type="checkbox"/> 16. Mini Bus | <input type="checkbox"/> 21. Staff Bus | <input type="checkbox"/> 27. Train |
| <input type="checkbox"/> 5. Motorcycle (drive by friends and family) | <input type="checkbox"/> 10. 3-wheeler Auto (reserved) | <input type="checkbox"/> 17. Bus | <input type="checkbox"/> 22. Truck/ Pickup | <input type="checkbox"/> 28. Unknown (Specify) |
| | <input type="checkbox"/> 11. Private car /Microbus/ Jeep etc. (self-driven) | | <input type="checkbox"/> 23. Water Taxi | |
| | <input type="checkbox"/> 12. Private car /Microbus/ Jeep etc. (drive by friends and family) | | | |

Appendix L Establishment Survey Location

Sector	Name	Location
Agriculture	Nabigonj Bazar	Village: Nabigonj, P.O: Nabigonj, Pouroshova / Thana / Union: Kadam Rasul
	Godnail Bazar	Village: Godnail, P.O: Laksminarayan, Pouroshova / Thana / Union: Godnnail
	Laksmi Narayan Mill Bazar	Village: Laksminarayan, P.O: Laksminarayan, Pouroshova / Thana / Union: Godnnail
	Vai Vai Nursery	Abdul Hamid Road, New, Chashara, Narayanganj 1400, Bangladesh
	Jubayer Agro farm and hetchry	Kashipur, Fatullah, Eid Gah Road, Narayanganj
	Master Dairy Farm	Ekrapur, Ispahani Ghat, Bandar
	Green Bell Dairy Ranch	East Isdair, Narayanganj Hwy
	Amana Cattle Farm	Narayanganj Iron Market Bus Stop, Narayanganj
	Bamboo Market/ Basher Hat/ Bash Hati	Sonakanda Ghat, Bandar
	S N Timber & Saw Mill	N1, Main Road, Sanarpar, Narayanganj
Wholesale and retail	M/S Tania Enterprise	Sirajuddoula Road
	M/S Robin Traders	26 no B Das Road, Folpotti
	Fruit Wholesale Market	Terminal Area
	Agri Aqua BD	Shibu Market-Fatullah Road
	M/S Sharif Enterprise	Mizmizi Taltola Clb Rd
	Poshu Pakhir Khabar Ghor	Pouro Digu Bazar, Shop no- 137, 58, 89
	Digbabu Holesale Vegetable Market	79 B B Ukilpara
	M/S Kalam Traders	Pagla link Road Delpara-Pagla link road, Delpara Bazar road.
	Kismat Seed Store	2 no Mir Jumla Road
	Jsr Super Shop	House-2, Block-C, Ward-2 Mouchak Rd, 1430
	Metro Super Shop	Kandapara Masjid Rd
	Apon Bazar Super Shop	245, 1 Ali Ahmed Chunka Road
	Padma Grocery	Shop no: 8, 2th Floor, Padma Center
	Swapno	Solimullah Road Mosque, President Road
	M/S Tutul Store	34/35 Digu Babu Bazar Road
	Best Buy	148 B B Road
	M/S Motin Furniture	113 B B Road

Sector	Name	Location
	M S Electronics	152 B B Road
	Bonoful and Co.	B B Road
	Realme Official Showroom	Amiz Bhaban
	Exquire Electronics Limited	B B Road, Narayanganj Club Market
	Nabiha Confectionary	Kalir Bazar, Nabab Sirajuddoula Road
	Confectionary Corner	23 No., Aziz Mansion, Sahid Suhwardi Sarak
	Chittagong Bekery	4 Siraj Uddoula Road
	Labiba Door	Army Market, Chashara
	New Lukas Battery and Tair House	Army Market, Chashara
	Ashirbad Mistanno Vadar	B B Road, Ukil Para
	Tasty Treat	Shop no-103, Al Joynal Trade Center, Chashara, 1400
	Samsung Electra	S.M Tower (1 Floor, Shiddhirganj - Adamjee Road
	Rayan CNG Station	Demra- Narayanganj Road
	Rana CNG Pump	N 1,Mouchak bus stand
	Shahbudding Filling Station	Shibu Market
	Samad Lpg pump	Dhaka-Narayanganj Road
	M/S Jonaki Filling Station	Mouchak to Hazi Chan Mia Rd
	Taz LPG Filling & Conversion Centre	Fatullah Stadium Bus Stoppage
	Mass CNG Works Ltd.	Dhaka -Narayanganj link Road
	Firoz Filling Station	Dhaka -Narayanganj link Road
	M/S Ashraf Ali & Sons Filling Station	Adamjee Road
	Prantik Service Station	B B road
	Hazi Amiz Uddin & Sons Filling Station	Painadi Notun Moholla
	M/S Robin Enterprise	26 no B Das Road, Folpotti
	I. T. Zone Computer and training Center	Nazu Market(2nd Floor), Shanarpar
	Ideal Computer Sales and Service Center	Shop No-12, Level 4, Kasshaf Shopping Center, Chittagong Road
	HEAVEN COMPUTER	194 B. B. ROAD, SHOMOBAY NEW MARKET (2ND FLR)
	HATIL Furniture	Painadi (Opposite Madani Nagar Madrasa, Chittagong Road
	HI-TECH Furniture	H.R Complex, Shostapur, Dhaka, Link Road
	Gloria The Beaker	Chashara More, NCC
	Tokiyo Electronics	Mansur Plaza, 4No. Sonaton Pal Lane

Sector	Name	Location
	GLOBAL BRAND PVT LTD	Samobay New Market
	Boi Biponi	DIT Market Road
	Sahittomala	1/4 DIT Market
	Ima Gift Corner	154, Sayam Plaza, B B Road, Balur Math
	1 to 99	Kalir Bazar, Hasan Jamal Super Market, A C Dhar Road
	Sweety Pushpaloy	B B Road, Ukil Para
	Sughonda Pushpo Bhandar	126, Mojid Super Market, Beside Dhaka Bank
	Lucky Electronics	Shop-16, Club Market, 95 B B Road
	Hashem Sound System	23, Adamjee Bus Stand, E.P.Z, 1430
	Hoby Birds and Fish House	Chashara Biswa Road, West Of Army Market
	Fish Palace	7, Chashara Biswa Road, West Of Army Market
	Sea World and Animal Shop	Dhaka-Narayanganj Link Road
	Narayanganj Aqua Zone	Hira community center
	Birds house	179 no Link Rd
	Regal Furniture	33 Nawab Salimullah Road, Don Chamber Rd
	Aarong	136 Bangobandhu Rd, Almas Point, 59 B B Road
	Hall Mark Gift Shop	5 B B Road
	Bismillah Rice Store	Rahim Market Road
	Sotota Rice Agency	16 B B Road
	Sotota Rice Agency	Lamapara, Fatullah
	M/S Lamia Traders	Ali Ahmad Chunka Sarak
	Rabbi and Sowad Store	Ali Ahmad Chunka Sarak
	Janata Hardware Store	Ali Ahmad Chunka Sarak
	Xiaomi Showroom	B B Road, Ukil Para
	WALTON plaza	Reliance Tower, 1/3 Sher E Bangla Sharak
	Sara Electronics	23 Shaheed Suhrawardy road
	M/S Amin Mechnaries	No. 95, Sonar Bangla Market, Banglabandhu Road
	M/S Khalil Ullah Varieties Store	West Daovog, Fatullah
	Meena Bazar	B B road
	Adi Adarsha Mistanno Bhandar	Kalir Bazar
	Selim Confectionary	A C Dhar Road Kalir Bazar
	Hosenia Store	A C Dhar Road Kalir Bazar
	Vai Vai Traders	A C Dhar Road Kalir Bazar
	Shirin Pharmacy	Nabab Sirajuddoula Road

Sector	Name	Location
	Bangladesh Pharmacy	Chashara
	Siyam Pharmacy	Mosjid Road Jamtola
	Family Pharmacy	4 no DIT
	M/S Jahan Traders	Shop No. 18, S. S Tower, 30/14, Loyal Tank Road, Thana Pukur Par
	N traders	Ali Ahmad Chunka Sarak
	Housing Super Shop	Siddhirganj Housing Road
Manufacturing	SHABED ALI SPINNING MILLS LTD	BENIARCHAR, DUPTARA, ARAIHAZAR, NARAYANGANJ.
	Raya Spinning Mills Ltd.	NAGARPARA, DUPTARA, ARAIHAZAR, NARAYANGANJ
	G N Cotton Spinning Mills	2nd Floor, 37 S M Maleh Rd
	Hajee Hashem Spinning Mills Ltd.	Hajee Hashem Trade Center, 55/A, S. M. Maleh Road
	Jalal Ahmed Spinning Mills LTD.	Post Office Road, Lalpur, Fatullah
	Narayanganj Salt Industries	3no old bank road
	Asia Industries Limited	Nandalalpur Road
	Suad Garments Industries Ltd	EPZ Area
	Best Steel Industries	Near Pagla Railway Station
	Barnali Textile and Printing Industries	Chowdhury Bari to LNC mills
	Best Tycoon Enterprise Ltd	Dhaka City Bypass
	Model The Capitals Industries	Talla Road, Khanpur
	Papyrus Chemical Industries Ltd.	Nandalalpur I/A, Pagla, Kutubpur, Fatullah
	Delta Oil Refinery Ltd	Delta Agro Food Industries Area
	ADISI APPARELS	341, Canel Road, Godenail, Dhanakunda Besides Chairman Office), Siddhirganj
	Zisan elastic factory	Advance Knitting, Lalkha More Rd
	Knit Garden	Hossain & Co Road
	UHM Limited	Plot 240-243 & 255 AEPZ, Siddhirganj
	Molla Salt Factory	Dharmaganj, Enayetnagar, Fatulla
	Seven Horse Cement Factory	Shumil Para, Siddhirganj, Housing Road
	Merina Apparels Limited	Dhaka-Narayanganj Highway
	AL-MOQUADDIM STEEL MILLS LTD.	Nondolalpur railline
	Shah Fatah Ullah Steel & Re-Rolling Mills Ltd.	Nondolalpur

Sector	Name	Location
	Steeltech, Sanjida Steel House	Bismillah Market-2, Afaznagar, Police Line School (On the Opposite side Loha Market)
	Delta Agro Food Industries LTD	Gorosthan Road
	Stareon Group	Siddirganj, Narayanganj, Bangladesh
	Rupashi Group of Industries Ltd.	Rupashi Rd, Narayanganj
	Universal Menswear Ltd.	Adamjee EPZ
	Sharija Oil Refinery Limited	Dhaka-Narayanganj Highway
	Binimoy Steel & Re-Rolling Mills Ltd	Kutubpur, Pagla, P.S: Fatullah
	S.K Steel & Re-Rolling Mills Ltd.	Wapda, Nandalalpur-Jalkury Rd, 1421
	Pioneer Steel Re Rolling Mills Ltd	Industrail area , 35 Dhaka - Narayanganj Road
	ACI PURE FLOUR LIMITED	Bandar
	Bashundhara Industrial Complex Ltd	Bandar, narayanganj
	NOWSHIN AGRO & FROZEN FOOD PROCESSOR	KUTUBPUR, Bazar Road, Kanchpur
	Elson Food Faztory	Ptot no. A-13, Road no. 4, BSCIC Industrial Area
	Rupshi Seed Crushing Ind. Ltd	North Rupshi, Rupganj, Narayanganj,
	Gazi Auto Tyres Factory	Dhaka-Sylhet Highway
	DISNEY SWEATER LTD.	Borpa, Rupgong, Narayongong
Construction	PYRAMID CONSTRUCTION AND CONSULTANT	Nimaikashari Bazar Mosjid Road, Amtala, Siddhirganj, Narayanganj
	NDE Ready Mix Concrete Unit-10	Aliganj, Fatullah, Narayanganj
Electricity, Gas, Steam and Air Conditioning Supply	Titas Gas Distribution Company Limited	Jatramura,Rupgonj,Narayanganj, Dhaka - Sylhet Hwy
Water Supply, Sewerage, Waste Management and Remediation Activities	Adamjee EPZ Water Treatment Plant	Shiddhirganj - Narayanganj Road, Siddhirganj
Transportation and Storage	Hoque Cold store	Kutubpur, Kachpur, Narayanganj
	Adarsha Cold Storage	Kutubpur, Kachpur, Narayanganj
	Shimrail Pouro Truck Terminal	Chittagong Road, Siddhirganj
	M.S.I CARGO SERVICE	hmed Supermarket, Chittagong Road, Siddhirganj

Sector	Name	Location
	Sundarban Courier Service (Pvt.) LTD.	Sibu Market - Fatulla Rd, Narayanganj, Bangladesh
Accommodation and Food Service Activities	Sonargaon Royal Resort	Sonargaon Rd, Sonargaon 1440
	PizzaBurg Narayanganj	Sahera Zaman Emporium, Balur Math Nary, 1400
	SkyFly Hotel & Restaurant	218, 1 Hirajheel R/A Rd, Narayanganj
	Bay Rose Gourmet Restaurant	56 B B Rd Ukil Para, Narayanganj 1400
	Green Palanna Restaurant & party Center	4th, 1 Alam Khan Lane, Narayanganj
	Palanna Chinese Restaurant.	Narayanganj Club Market, Bangabandhu Road, Narayanganj 1400
	51 WEST Restaurant	51 K C Nag Rd, Narayanganj
	Banquet Chinese Restaurant	151 Bangabandhu Sarak, sharif super market, Narayanganj 1400
	The Grand Hall Restaurant & Convention	231/7 Bangabandhu Sarak, Chashara Hasnat Square (3rd/4th/5th Floor, Narayanganj 1400
	New China Junction Restaurant	Level 3, Sayam Plaza, 154, Bangabandhu Road, Narayanganj 1400
	Vooter Bari Restaurant	Paradise castle (3rd 4 th floor, B B Road, Balur Math, Narayanganj 1400
	The Dining Lounge Narayanganj	MD Square, Bhasha Shoinik Road, Balurmat, Narayanganj
	Kacchi Bhai - Narayanganj	Monir Tower, Balur Math, Narayanganj 1400
	Crown buffet restaurant and party centre	MD Square, Bhasha Shoinik Road, Balurmat, Narayanganj
	Tittle-Tattle Restaurant & Juice Parlor	Mosjid Marketl, Allama Iqbal Rd, Narayanganj
	Salt & Pepper	Allama Iqbal Rd, Narayanganj 1400
	Mela Food Village	46/2, Abdul Hamid Road, Jamtola New, Narayanganj 1400
	Sonargaon Restaurant	Narayanganj Highway, Pagla Station, Narayanganj
	Bash Bari Restaurant & Mini Chinese	Paschim Para, Narayanganj
	Big Belly Restaurant	Jamtola, Narayanganj
	Chabaw	Shahid Sabbir Alam Khandakar Road, Narayanganj 1400
	Bake n' Beans Narayanganj	Shahid Sabbir Alam Khandakar Road, Narayanganj 1400
	Maura Hotel	Kalir Bazar, Station Road, Narayanganj
	Fuoco update Narayanganj	Bangabandhu Road, Narayanganj 1400
	Gloria The Baker	117 Bangabadhu Rd Ukil Para, Narayanganj 1400

Sector	Name	Location
	Sundarban Restaurant	Bhai Bhai Bhuiyan Super Market, Bhuigar Bus Stand
	The Spice Zone	Kazi Shahjahan Market, Dhaka-Narayanganj Hwy, Aliganj 1421
	Mary Anderson Floating Restaurant & Bar	Dhaka-Narayanganj Hwy, Aliganj 1421
	The Leaf Lounge	Police Lines Road, Fatullah
	Sotota Chinese And Restaurant	Demra, Tarabo
	Love lounge restaurant	Bazar Main Road, Tarabo
Mining and Quarrying	Super Oil Refinery Ltd.	N1Shimtail, Shiddirgonj, N1, Bangladesh
Financial and Insurance Activities	IFIC Bank Limited	66/1 , 1st and 2nd Floor, Bangabandhu Sarak, Narayanganj 1400
Education	Narayanganj High School and College	Nawab Sirajdullah Rd, Narayanganj 1400
	Govt. Kadam Rasul College	Bandar, Narayanganj
	ABC International School	Dhaka - Narayanganj Rd, Narayanganj, Bangladesh
	Cambrian School & College	Zila Parishad, Notun Court Narayanganj, 1420, Bangladesh
	Narayanganj Ideal School	KB Saha Rd, Narayanganj, Bangladesh
	Government Murapara College	Murapara Jamidar Bari, College Main Road, Murapara, Bangladesh
Information and Communication activities	Radio Narayanganj	DC Office, Narayanganj 1400, Bangladesh
Human Health and Social Work Activities	Narayanganj 300 Bed Hospital	Hospital Rd, Narayanganj
	Health Resort Hospital	Bangabandhu Rd, Balur Math, Narayanganj
	Bangladesh Red Crescent Society, Narayanganj unit	Uttar Chowrasta, Chashara, Narayanganj
Real Estate Activities	Reliance housing Ltd.	Shamabay New Market, 259 B B Road,Balur Math, Narayanganj 1400, Bangladesh
Professional, Scientific and Technical Activities	Technical Training Center, Narayanganj	Dhaka - Narayanganj Rd, Narayanganj, Bangladesh
	Siddhirganj Computer Training Center (SCTC)	Beside Pubali Bank & Mercantile Bank (2nd Floor), Siddhirganj
	Danube Electrical Solution	Ali Ahamed Chunka Rd, Narayanganj 1400, Bangladesh
Public Administration and Defense, Compulsory Social Security	Kanchpur Highway Police Station	N1, Kanchpur, Narayanganj, Bangladesh
	Ambulance Service Emergency Narayanganj	DC Office New Court Bus Stop, Dhaka - Narayanganj Rd, Narayanganj, Bangladesh

Sector	Name	Location
Administrative and Support Service Activities	Spark Tours & Travels	2nd Floor, Nayan, Super Market, 66/67 Bangabandhu Road, Narayanganj
	Nexus IT	Dowlassor Candrio Jame moshjid Road, London Market, Narayanganj
Arts, Entertainment and Recreation	Narayanganj Club Ltd	95 Bangabandhu Road, Narayanganj 1400, Bangladesh
Other Service Activities	Ovi Computer	Room No: 187, 3rd Floor, Shomobay New Market, 194 President Rd, Narayanganj 1430
	M/S Modern Electric & Refrigeration	Army Market, Narayanganj 1400
	realme Exclusive Service Center	Shop No 711, Level 07, Fazar Ali Trade Center, Bangobondhu Rd, 02 Railgate, Narayanganj
	Xiaomi Products - Mobile repair shop	Narayanganj Shop No: 507, Fazar Ali Trader Center (4th Floor), 78 Bangabandhu Road, 2 No Rail Gate, Narayanganj
	Fridge Repair.com	DIGU BABUR BAZAR, Narayanganj
	Bikrompur Refrigerator and electronics	Ali ahmed Chunka Road, Narayanganj
	Ac servicing center	Narayanganj, Chashara, Dhaka
	Gaosiya Refrigeration Centre	Koborstan, Narayanganj Hwy, Narayanganj,
	Riyad Refrigeration	138 no mojid, Narayanganj
	The Decco World	Dhaka - Narayanganj Rd, Opposite of Kadam Rasul Digital Lab & Consultation Center, Bandar, Narayanganj
	LETHAL TECH	209, Sohail Super Market BB Road, Narayanganj
	New Friends Electronics	First floor, 84 Bangabandhu road, Narayanganj
	Spares Sourcing Hub	2nd Floor, Somobay Market, President Rd, Narayanganj 1430, Bangladesh
	Nahar Technology	Grand Plaza Shopping Mall, Mogbazar Warless, Dhaka, Bangladesh
	Chair & Care House	Hazi K Ali, Siddique Bazar, Dhaka 1204, Bangladesh
	Shohel Steel House	Kandapara Mashjid Road, Siddhirganj, Narayanganj
	Khalek Electric & Machineries	Stadium, Link Rd, Narayanganj 1421, Bangladesh
	Maa Electric Works	A K Khan Super Market, 54 A C Dhar Rd, Narayanganj
	The Mou Jewelers	44 A C Dhar Rd, Narayanganj 1400, Bangladesh
	The Pal and Son jwellers	Kader Bhaban, 51, A C Dhar Rd, Narayanganj 1400, Bangladesh

Sector	Name	Location
	Ilme Jewellers	Delpara College road Narayanganj Sadar, 1421, Bangladesh
	Sunny Mobile Servicing And Training Centre	Habib Shopping Complex, Narayanganj, Bangladesh
	GM FIX Mobile Tanning And Service	S M Maleh Rd, Narayanganj, Bangladesh
	New master telecom	Narayanganj 1 no railgate, Narayanganj 1400, Bangladesh
	Rafique Mobile servicing	Banga Bandhu Road, Chashara, Narayanganj
	Robi Airtel Customer Care	Banglalink Center, Shop 16, 17 Midtown Shopping, House 79, Bb Road, 2 Railgate Narayanganj Sadar
	Banglalink Customer Care Center	Shop No. 82/1, 1st Floor, Bikrampur Plaza, Jurain Railgate, Dhaka 1204, Bangladesh
	Mayer Dowa Electronics And Sound System	Shop No.1, 33, 34, 35/1, Haji Rowshan Ara Market, Patuatoly, Dhaka 1100, Bangladesh
	Khurshid Sound System	2, Shukkur Super Market, 1430, Bangladesh
	Muzadded Mike & Sound System	West Box Nagar, Sarulia, Dhaka 1361, Bangladesh
	Tusher Sound System	Momenbag Sahi Jame Moshjid Rd, Demra
	Gazi Steel King	Mouchak, Osman goni raod, Bangladesh
	Samsung Service Point	College Road Moddho Para Rd, Narayanganj, Bangladesh

Appendix M Establishment Survey Form

Surveyor Information

Surveyor name:

Date:

Interviewee Information

Name:

Official phone no:

Establishment Information

Name:

Number of branches:

Local address (House): (Road no): (Ward/Union):

Upazila:

District:

Latitude:

Longitude:

Activity Information

Raw materials (Type):

Products (Type):

Raw materials usage (Ton per day):

Production (Ton per day):

Type of Establishment (Company/Factory/Industry)

Mark	Sl. No.	Freight-intensive sectors	Mark	Sl. No.	Service intensive sectors
	F1	Agriculture		S1	Information & communication activities
	F2	Garments and Manufacturing		S2	Financial and insurance activities
	F3	Wholesale trade		S3	Real estate activities
	F4	Retail trade and repair of motor vehicles		S4	Professional, scientific, and technical activities
	F5	Transport and storage		S5	Administrative and support service activities
	F6	Accommodation and food services		S6	Public administration and defense
	F7	Construction Materials		S7	Education
	F8	Mining and quarrying		S8	Human health and social work activities
	F9	Electricity, gas, steam, air conditioning supply		S9	Arts and Entertainment
	F10	Water supply, sewerage, waste management		S10	Other
	F11	Livestock/Fish Transport Services			

Month _____ **of** _____
activity:

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Land own type:

Own	
Rent	

Plot (sq. m)		Floor (sq. m)		Storage (sq. m)	
No. of shifts		Working hours (in each shift)		No. of employees	
Any other information (Remarks)					

Number of vehicles:

Vehicle Type	Owned	Hired	Vehicle Type	Owned	Hired
Rickshaw/ Rickshaw Van			3 Axle Truck		
Motorized 3 - Wheeler/ CNG/ Mishuk/ Auto			4 Axle Truck		
Utility Vehicle/4-Wheel Drive/SUV			5 Axle Truck		
Human Haulier/ Leguna/ Tempo			6 Axle Truck		
Small Goods Vehicle/ Pick-up/ Covered Van			7 Axle Truck		
2 Axle Truck			Other		

List all shipment details for at least 3 years (use multiple copies, if required)

Date	Time	Inbound/ Outbound	Commodity Type	Destination/Port of Exit (Address, Bazar, City/Union, Upazila, District)	Weight* in kg	Volume* in m ³	Value of commodity in BDT	Shipment Cost in BDT (including transport, labour, tax/toll)	Types of used vehicles (Please use a code from below)				Transfer points (Port/Station Name)			

Mode Codes: H: Road, **R:** Rail, **W:** Water, **A:** Air:**Vehicle Type Codes:**

H1. Rickshaw/ Rickshaw Van

H2. Motorized 3 - Wheeler/ CNG/ Mishuk/ Auto

H3. Utility Vehicle/4-Wheel Drive/SUV

H4. Human Haulier/ Leguna/ Tempo

H5. Small Goods Vehicle/ Pick-up/ Covered Van

H6. 2 Axle Truck

H7. 3 Axle Truck

H8. 4 Axle Truck

H9. 5 Axle Truck

H10. 6 Axle Truck

H11. 7 Axle Truck

H12. Other

Water Vessel Code:

W1. Boat/ Dingi Nouka (Without Engine)	W9. Cargo Ship (Above 1300 metric ton)
W2. Engine Trawler (8-12 ton)	W10. Passenger Ship
W3. Engine Trawler (12-15 ton)	W11. Cruise Ship
W4. Engine Trawler (150 ton)	W12. Yacht
W5. Engine Trawler (200-250 ton)	W13. Paddle Boat
W6. Ball-Gate Ship (Above 400-500 metric ton)	W14. Houseboat
W7. Cargo Ship (Above 500-1000 metric ton)	W15. Ferry
W8. Cargo Ship (1000-1300 metric ton)	W16. Others

***Either weight or volume must be specified**

Appendix N Tour Diary Information Form

Survey Information

Starting place of the tour:

Starting date of the tour:

Starting time of the tour:

Driver name			
Co-driver/ Helper name			
Owner name			
Owner address			
Vehicle registration number			
Maximum capacity of the vehicle (in ton)			
Empty weight of the vehicle (in ton)			
Truck type (put a tick)	Rigid truck		Articulated truck

Vehicle Type:

Vehicle Type	Please ✓ on the relevant box	Vehicle Type	Please ✓ on the relevant box
Rickshaw/ Rickshaw Van		3 Axle Truck	
Motorized 3 - Wheeler/ CNG/ Mishuk/ Auto		4 Axle Truck	
Utility Vehicle/4-Wheel Drive/SUV		5 Axle Truck	
Human Haulier/ Leguna/ Tempo		6 Axle Truck	
Small Goods Vehicle/ Pick-up/ Covered Van		7 Axle Truck	
2 Axle Truck		Other	

Commodity Description:

Commodity Type:

Sl. No.	Commodity Type	Please ✓ on the relevant box
1	Agricultural Product and Live Animal	
2	Food stuffs and animal fodder	
3	Solid Mineral fuel	
4	Petroleum Products	
5	Ores and Mineral waste	
6	Metal Product	
7	Crude and manufacturer building materials	
8	Fertilizer	
9	Chemical	
10	Machineries, Transport equipment, Manufactured articles, and miscellaneous articles	

Tour Dairy:

[illegible]

