

## APPENDIX-A

### MODEL QUESTIONNAIRE TO DRIVERS

Dear Respondents

Sir/Madam,

I am a Research scholar of the Department of Commerce of Gauhati University. I am currently doing a Ph.D on “**PROBLEM AND PROSPECTS OF ROAD TRANSPORTATION IN GUWAHATI CITY**”. Your responses and co-operation are very essential towards conveying my research in this regards.

The following questionnaire carries a few questions related to my research. I would like to request you to kindly spare a few minutes to answer these question. Your answer will be kept strictly confidential and will be used for research purposes only. Your help will go a long way in assisting me to complete my research.

I will be highly obliged and grateful to you, if you provide me information on the following.

Thanking you in anticipating of a sincere response.

**Raju Subba**  
**Research Scholar, Department of Commerce**  
**Gauhati University, Guwahati-14**

Name.....	Today's Date.....
Designation.....Age.....	Monthly income.....
Address.....	Type of Vehicle.....
Phone number.....	Sex: Male <input type="checkbox"/> Female <input type="checkbox"/>

1. What is the main problems in road transportation in Gauhati ?

- ☐ Traffic jam   Behaviour of passengers   The Conduct of traffic police  
☐ The driving of the other vehicle   ☐ Any other.....

2. What is the main reason for traffic jam in Guwahati?

- ☐ Increased number of vehicles   ☐ Improper road plan  
☐ Indiscipline manner of driving   and parking of vehicle  
☐ Improper management of the traffic police  
☐ Continuation of the construction of the Fly over/over bridge  
☐ Any other reason.....

3. Have your vehicle committed with any accident?

- ☐ Once   ☐ Two times  
☐ More than two times   ☐ Not at all

4. Do you require paying bribe to traffic police?

- ☐ frequently   ☐ Some time  
☐ rarely   ☐ Not at all

5. Do you require to use mobile phone while driving?

- ☐ Some Time   ☐ Regularly  
☐ Rarely   ☐ Not at all

6. What is the average speed limit of your vehicle inside the city?

- ☐ 20 to 40 km per hour.   ☐ 40km to 60km per hour  
☐ 60 km to 80 km per hour   ☐ More than 80km per hour

7. For how many years have you been driving your vehicle?

- ☐ More than 10 year's   ☐ less than 10yrs but more than 5 yrs  
☐ Less than 5yrs but more than 2yrs   ☐ Less than 2 yrs

8. Do you require to overtake other vehicle?

- ☐ Regularly   ☐ Sometime  
☐ Not at all

9. Do you check the problems of your vehicles time to time?
- ☐ Very frequently ☐ Rarely
- ☐ Sometime ☐ Not at all
10. Do you have pollution control certificate?
- ☐ Yes ☐ No
11. Do you make proper use of upper and deeper lights of your vehicle?
- ☐ Regularly ☐ Sometime
- ☐ Rarely ☐ Not at all
12. At what time does your vehicle enter the city (truck)?
- ☐ Before 10 am ☐ 10 am to 7pm
- ☐ 7pm to 10pm ☐ 10pm to 2 am
13. Do you think that bus bays system will reduce road blockade?
- ☐ Yes ☐ No
14. Have you been imposed penalty by traffic police?
- ☐ 1 to 2 times ☐ 2 to 5 times
- ☐ more than 5 times ☐ Not at all
15. Have you been committed road accident? If yes than
- ☐ More than 5 times ☐ Less than 5 times
- ☐ Not at all
16. Your speed limit inside the city.
- ☐ 20 to 30 km/h ☐ 30 to 40 km/h
- ☐ 40 to 50 km/h ☐ 50 km/h and more
17. Number of person engaged in your vehicle
- ☐ Less than 2 ☐ 2 to 3
- ☐ None
18. What is your carrying capacity of the vehicles?
- .....
19. Does the signage and marking installed at different corner and street are proper?
- ☐ Yes ☐ No

## APPENDIX-B

### MODEL QUESTIONNAIRE TO DTO

**Dear Respondents**

**Sir/Madam,**

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Thanking you in anticipating of a sincere response.

**Raju Subba**  
**Research Scholar, Department of Commerce**  
**Gauhati University, Guwahati-14**

Name..... Today's Date.....

Designation.....

Address.....

Phone number..... Sex: Male ☐ Female ☐

1. How many vehicles get registered in a month approx?  
☐.....
2. While issuing driving license to the drivers, do you conduct driving test?  
☐ Yes ☐ No
3. If the drivers license validity is over then do you take fine for re-issuing the same?  
☐ Yes ☐ No
4. While registering the vehicles do you check the capacity of the roads?  
☐ Yes ☐ No
5. Is any written examination conducted for issuing license to the drivers?  
☐ Yes ☐ No
6. What happens if the drivers commit accidents more than three times regularly?  
☐.....
7. When does the drivers' license get seized?  
☐.....
8. How many months a driver or vehicle owner can drive the vehicle without registering?  
☐.....
9. How many days a learner can drive vehicles with learner license?  
☐.....
10. Are there any vehicles on the roads without paying roads tax?  
☐ Yes ☐ No
11. Are there any restrictions to run the vehicles which have other state registration like ML & AR?  
☐ Yes ☐ No

12. On what basis license is issued to the drivers?

☐ .....

13. In a house people may have more than one vehicle again they buy new Vehicles in such conditions will DTO inquire in the time of registering new car?

☐ .....

14. Will capacity of vehicle be checked by MVI?

☐ Yes ☐ No

15. What is the number to change the series of registration?

☐ .....

16. Are there any instructions from the ministry of roads transportation about the maximum number of registration in a month?

☐ Yes ☐ No

17. Whether the road constructions department like PWD and NHAI inquires about the registration of vehicles for expansion of road capacity?

☐ Yes ☐ No

18. Whether the vehicle registration will be given to school or college going students?

☐ Yes ☐ No

19. While conducting driving test, will DTO give instruction about the rules and regulation?

☐ Yes ☐ No

20. Do you conduct any awareness camp about the road safety?

☐ Yes ☐ No

21. Kindly comments a few lines for overall development of roads transportation in Guwahati city.

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## APPENDIX-C

### MODEL QUESTIONNAIRE TO TRAFFIC POLICE

Dear Respondents

Sir/Madam,

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**Raju Subba**  
**Research Scholar, Department of Commerce**  
**Gauhati University**

Name..... Today's Date.....

Designation.....

Address.....

Phone number..... Sex: Male ☐ Female ☐

1. Various method and measures have been adopted to control the traffic, are these measures sufficient for the smooth functioning of roads?  
☐ Yes ☐ No
2. Do you think these measures are sufficient?  
☐ Sufficient ☐ require improvement  
☐ Not sufficient
3. If you think existing measures of traffic control need modification, than what sort of improvement or changes you aspect?  
☐ .....
4. Do you think that number of traffic police recruited/ engaged for traffic control is  
☐ Sufficient ☐ insufficient
5. Do you think that the responsibility assigned to you is  
☐ Manageable ☐ more than manageable level  
☐ inadequate
6. Are you transferred from you service site  
☐ frequently ☐ sometime  
☐ Rarely
7. What are the other problems you faced in rendering your service?  
☐ .....
8. What are the categories of vehicle violating norms more  
☐ ..... ☐ .....  
☐ .....
9. What do you feel that the reason for traffic problem is  
☐ Narrow road ☐ large nos of various vehicles  
☐ Conduct of vehicles drivers' ☐ other reasons.
10. Do the people use the flyover to cross the roads?  
☐ Yes ☐ No



11. If a vehicle is parked in the populated area or in the no parking zone will it be taken away by the police?

☐ Yes

☐ No

12. Do the citizens or drivers follow the traffic rules?

☐ Yes

☐ No

13. Whether different time is permitted for different vehicles like heavy and light in different times?

☐ Yes

☐ No

14. Are only the traffic police sufficient to control the traffic congestion of the city?

☐ Yes

☐ No

15. Does the running of private and public vehicles together on roads create problems?

☐ Yes

☐ No

16. Will the construction of flyovers in the very populated areas give the ultimate solution for traffic congestion?

☐ Yes

☐ No

17. Do you think that traffic congestion problem will be over if pedestrian people will walk on the footpath?

☐ Yes

☐ No

18. Do you check the capacity of vehicle on time to time?

☐ Yes

☐ No

19. Do you think that vehicle free zones should create in the some of the populated areas?

☐ Yes

☐ No

20. Give your suggestion for the problems of road transportation in guwahati city?

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## APPENDIX-D

### MODEL QUESTIONNAIRE TO GMDA

**Dear Respondents**

**Sir/Madam,**

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Thanking you in anticipating of a sincere response.

**Raju Subba**  
**Research Scholar, Department of Commerce**  
**Gauhati University**

Name..... Today's Date.....

Designation.....

Address.....

Phone number..... Sex: Male ☐ Female ☐

1. Will people follow the norms of GMDA while constructing buildings?  
☐ Yes ☐ No
2. While widening roads in the city peoples house are broken down, does the government pay compensation for the eviction?  
☐ Yes ☐ No
3. Do you think that underground vehicle parking system is well enough for the smooth functioning of the roads?  
☐ Yes ☐ No
4. What are the steps taken by the GMDA for pedestrian and cyclist's people?  
☐.....
5. Do you think that constructing footpath is the only way for non-motorized people?  
☐ Yes ☐ No
6. Does GMDA co-ordinate with the DTO for widening the roads in the city?  
☐ Yes ☐ No
7. Though many initiatives have been taken by the various department related to the town planning for controlling flood in the city, still it is occurring why?  
☐.....
8. Many flyovers and footpath have been constructed for making the city beautiful; still the traffic congestions are taking place. What is the reason behind it?  
☐.....
9. Can GMDA make some vehicle free zones in the city market areas for making the city beautiful?  
☐ Yes ☐ No
10. Do you think that small and tiny shops should exist in the city area?  
☐ Yes ☐ No

11. Do you think that rickshaws, auto-rickshaws, vans, goods carrier are giving problems in the city?  
☐ Yes ☐ No
12. Do you agree if the time frequency of the public buses reduced then it will be more effective for smooth functioning of the roads transportation?  
☐ Yes ☐ No
13. Do you agree if the goods carrier vehicles time will be changed as in the night then it would be more effective?  
☐ Yes ☐ No
14. What is the maximum number of buses that can travel in one route?  
☐ .....
15. Do you think those city trekkers and other small passengers vehicle should be eliminated from the city?  
☐ Yes ☐ No
16. Do you think that school and college going student should use vehicle?  
☐ Yes ☐ No
17. Do you think that school and colleges in the city causing traffic congestion?  
☐ Yes ☐ No
18. Do you think that Guwahati Railway Station, Bus terminals Machkhowa & Paltan Bazar ASTC bus stand creating problems in the city?  
☐ Yes ☐ No
19. What kinds of initiatives have been taken by the GMDA for making smooth transportation in the city?  
☐ .....
20. What is the plan and policies of the Government on road transportation in the city?  
☐ Yes ☐ No
21. Do you have any prescribed structure of road layout of the Guwahati city?  
☐ Yes ☐ No

## APPENDIX-E

### MODEL QUESTIONNAIRE TO PASSANGERS

Dear Respondents

Sir/Madam,

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Thanking you in anticipating of a sincere response.

**Raju Subba**  
**Research Scholar, Department of Commerce**  
**Gauhati University, Guwahati-14**

Name..... Today's Date.....

Designation.....Age..... Monthly income.....

Address.....

Phone number..... Sex: Male ☐ Female ☐

1. How many times you go out each day/each week- 1/2/3/4/5/6. ☐
2. For what purpose you go out:
  - \* To take children to school/stadium/tuition/ any other specify:
  - \* To office/ working place ☐
  - \* Recreation- Cinema/Park/Social Activities ☐
  - \* Marketing/Household activities ☐
  - \* Income oriented extra work ☐
  - \*other
3. What is your preferred vehicle for day to day conveyance?
 

(Give preference 1, 2, 3 and 4)

a) Bus	b) Trekker
c) Own vehicle <input type="checkbox"/>	d) Other (Specify)
4. Why do you prefer the vehicle (More than one answer may be preferred)
 

a)Least costly <input type="checkbox"/>	b) high Speed <input type="checkbox"/>
c) Low speed <input type="checkbox"/>	d) Comfort ability <input type="checkbox"/>
e) Other reason (specify)	
5. How many Km you travel per day?
 

<input type="checkbox"/> Km by bicycle/Rickshaw	<input type="checkbox"/> km by Bus
<input type="checkbox"/> Km by motor cycle/scooter	<input type="checkbox"/> km by own car
<input type="checkbox"/> Km by office vehicles	
6. What is your opinion on the behaviour of the persons engaged with the vehicles ?
 

a)Cordial <input type="checkbox"/>	b)Rough <input type="checkbox"/>
c) Polite <input type="checkbox"/>	d) Normal <input type="checkbox"/>
7. Problems faced in travelling:
 

By Rickshaw

Exorbitant Fare ☐    Traffic congestion ☐    show dust ☐

Road surface condition ☐    one way system ☐

By Bus:

Traffic congestion ☐    Passengers Behaviour ☐    Dust ☐    Smoke ☐

Frequent stoppage ☐    more stop time in stoppages ☐

Conductor's behavior ☐    exorbitant fare ☐

By two wheelers:

Traffic Congestion ☐ smoke ☐ Dust ☐ Road condition ☐

By own cars/office vehicles:

Traffic congestion ☐ Parking ☐ Smoke ☐ Dust ☐

One way system ☐ Narrow roads ☐ Road condition ☐

8. Which is the problem you consider as main problem for transportation in Guwahati ?

- a) Increasing rate of fare ☐      b) Air & sound pollution ☐  
c) Traffic jams ☐      d) Misconduct of the person engaged in vehicles ☐  
e) Other problem (specify).....

9. At which time do you commuter to work?

Morning a) 7.30-8.30am.....b) 8.30-9.30 am.....c) 9.30-10.30am.....  
Evening a) 3.00-4.00pm.....b) 4.00- 5.00pm.....c) 5.00-6.00pm.....

10. What is the main reason of traffic jam in Gauhati?

- a) Increased number of vehicles ☐      b) Improper road plan ☐  
c) In discipline manner of driving and parking of vehicle ☐  
d) Improper management of the traffic police ☐  
e) Continuation of the construction of the Fly over/over bridge ☐  
f) Any other reason.....

11. What is your suggestion for solving the problems of traffic jam?

- a) Widening of roads ☐      b) Construction of Fly over/over bridge ☐  
c) Restriction on transportation of vehicles ☐  
d) Improving the service of traffic police ☐  
e) Proper orientation/training for drivers of the vehicle ☐  
f) Any other suggestion.....

12. Any problems you find in traffic signals. Yes/No. If yes, please mention.....

13. Do you prefer water transport for commuting? If no than state the reason.....

☐ Yes

☐ No

14. Does the school vehicles creates traffic problem in the city?

☐ Yes

☐ No

15. Give your suggestions and remedial measures which you think most important.....