Appendices

Appendix 1:

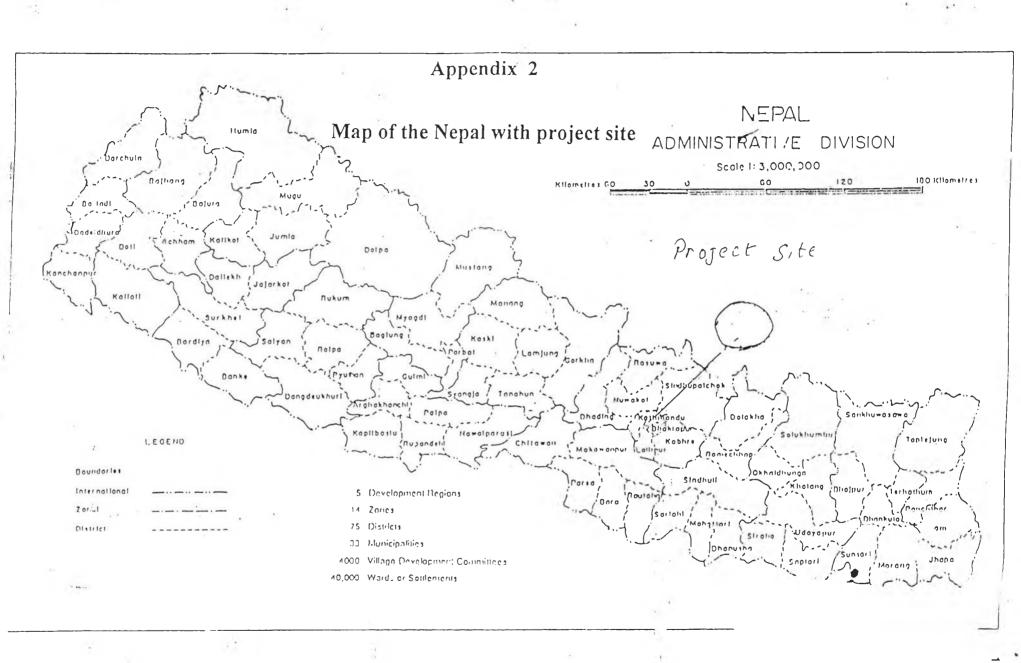
Parameter	l hr	8hrs	24hrs	lyear	Year of
					Standard
TSP ug/m ³			120 ^A		1987
$TSD wa/m^3$			150-230	60-90	1979
TSP ug/m ³			130-230	00-90	1979
$PM_{10}ug/m^3$			70 ^A		1987
. 3				051	1007
Lead ug/m ³				0.5-1	1987

WHO air quality guidelines/ Standards for TSP, PM₁₀ and Lead:

Notes:

A –Guideline values for combined exposure to Sulfur dioxide and suspended particulate matter (they may not apply to situations where only one of the component is present).

Source: World Health Organization / United Nations Environment Program (1992). Urban Air Pollution in Megacities of the World. Oxford Blackwell Publishers.



Appendix-3

Intervie Date:	ew Guidelines for F Venue:	ocus Group Discussion Moderator:
Note taker:		No. of Respondents:
Groups:		General Characters:
Respondents: Taxi	owners/ divers	
Purpose of discuss	ion:	
1. To explore the p	perception on air pollution a	and role of vehicle maintenance on
reduction of air po	llution.	
2. To explore the v	vehicle maintaining habit of	the respondents
3. To identify list	ening habits of the responde	ents
A. Perception of	air pollution and role of v	wehicle maintenance on reduction of
air pollution		
1. What do you me	ean by air pollution?	
2. What are source	es of air pollution?	
3. What adverse he	alth of air pollution?	
4 Do you think m	naintaining your vehicle can	reduce air pollution?
6. What are the be	nefits you get if you mainta	in your vehicle to reduce vehicular
emissions?		

B. The vehicle maintaining habit of the respondents

- 7. How often do you maintain your vehicle?
- 8. How often you think you should maintain your vehicle?
- 9. What are the parts of vehicle you should maintain if you want reduce emissions of

your vehicle? Do you know how much it costs to maintain these parts?

10. What are the parts you maintain when you maintain your vehicle?

C. Listening habit of the respondents

11. What media do have in your home or vehicle?

- 12. What media do you have in your house or during your work?
- 13. What are the your favorite radio programs?

14 What is the most convenient time to listen the radio, if to offer you any new program?

Appendix-4

Questionnaire on (KP) for the base line survey and evaluation

ID
Name
Age
Address
Status (1) Driver (2) Owner (3) Driver cum Owner
Religion (1) Budhist (2) Christian (3) Hindu (4) Muslim (5) others
Marital status (1) Married (2) Unmarried (3) Widower (5) Separated

(6) divorce

Annual income Rs. 1) less than 5,000 (2) 5,000-10,000 (3) more than 10,000

Guideline:

The purpose of this questionnaire is to assess the information needs about air pollution of general public

The information you provide will be helpful in understanding the information needs of the general public. The information needs are then used for developing a radio program to reduce air pollution. Your sincere answer will help to make the radio program more effective, which ultimately will help t abate air pollution. Please answer the following questions based on your knowledge and experiences. Please tick (\checkmark) on (T) if you think the statement is <u>True</u> similarly (F) for <u>False</u> and (DK) for <u>Do not Know</u> for question no 1 20. For the rest of questions, please select your answer.

- 01. Air pollution can cause landslide. (T) (F) (DK)
- 02. Air pollution can cause deforestation. (T) (F) (DK)

03. Air pollution is contamination of atmosphere.	(T)	(F)	(DK)
04. Air pollution can cause diarrhea.	(T)	(F)	(DK)
05. Air pollution can cause AIDS.	(T)	(F)	(DK)
06. Air pollution can cause skin diseases.	(T)	(F)	(DK)
07. Air pollution can cause respiratory diseases.	(T)	(F)	(DK)
08 Factories are only the major source of air pollution.	(T)	(F)	(DK)
09. Cars or the other automobiles also cause air pollution.	(T)	(F)	(DK)
10. Maintenance of vehicle can help to reduce air pollution.	(T)	(F)	(DK)
11. Car that consumes more fuel causes more air pollution	(T)	(F)	(DK)
than the car that consumes less fuel.			
12. Maintenance of air filter helps to give more mileage per liter.	(T)	(F)	(DK)
13. Maintenance of air filter helps to reduce vehicular emission.	(T)	(F)	(DK)
14. Maintenance of radiator gives more mileage per liter.	(T)	(F)	(DK)
15. Maintenance of radiator reduces vehicular emission.	(T)	(F)	(DK)
16. Maintenance of fuel filter helps to give more mileage per liter.	(T)	(F)	(DK)
17. Maintenance of tappet settings helps to reduce vehicular emiss	sion.		
	(T)	(F)	(DK)
18. Maintenance of spark plugs helps to reduce vehicular emission	l.		
	(T)	(F)	(DK)
19. Maintenance of contact points helps to reduce vehicular emission	ion.		
	(T)	(F)	(DK)
20. Maintenance of carburetor helps to reduce vehicular emission			
	(T)	(F)	(DK)

21. How often you think you should maintain your vehicle ?

- (1) At every 5,000 km. (2) As prescribed by the owners manual
- (3) Whenever your vehicle breaks down
- 22. How often do maintain your vehicle?
 - (1) At every 5,000 km. (2) As prescribed by the owners manual
 - (3) Whenever your vehicle breaks down
- 23. What are the parts you usually maintain when you maintain your vehicle?
- 1) Breaks
- 2) Air filter
- 3) Fuel filter
- 4) Tappet stings
- 5) Spark plug
- 6) Contact points
- 7) Carburetor
- (8) Overhaul
- (9) As prescribed by the owner manual
- (10) As recommended by mechanics
- (11) Only those parts that breaks down

If you have any comments please do write. Your valuable comments can be helpful.

Appendix 5

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Appendix 5 (Continued)

Subjects	Specific Objectives of Program	Content
	By the end of the program	-Adverse health effects
	target population will be able	of major pollutants,
	to	-disease and illness
	 name the diseases and 	caused by particulate
	illness associated with air	matter pollution
	pollution	-consequences of
Consequences of air	• name the diseases and	particulate pollution in
pollution	illness associated with	Kathmandu valley
	particulate matter pollution	-severity and
	• describe severity of these	susceptibility of these
	disease and illness	and illness associated
	associated with particulate	with air pollution
	matter pollution	-monetary damage of
	• describe susceptibility of	disease and illness
	diseases and illness	associated with air
	associated with particulate	pollution
	matter pollution	
	l	l

Appendix 5 (Continued)

Subjects	Specific Objectives of Content Program
Subjects Maintenance of vehicle	ProgramBy the end of the programtarget population will be able to• understand role of maintenance in controlling air• Mechanism of production of vehicular emission• identify the major parts responsible for air
	benefit of maintaining such as resale value, old vehicles safety etc.

Appendix 5 (Continued)

Subjects	Specific Objectives of Program	Content
	 By the end of the program target population will be able to describe benefits, such as safety, prolong 	- Benefit of maintenance pertaining to vehicle i.e. resale value, safe vehicle, fuel efficiency etc.
Benefit and cost of	vehicle life, fewer	elc.
maintenance	number of repair, and resale value as result of maintenance	 social benefit and individual benefit such as reduction diseases, cleaner environment
	 describe benefit obtained from reduction of air pollution 	- role of maintenance to reduce tail pipe emission
	 describe cost of maintenance 	- role of tail pipe emission in Emission Test
	 describe benefit of maintenance for a vehicle to pass Emission Test 	- benefit for a vehicle that passes Emission Test

BIO-DATA

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