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APPENDIX-I

INTERVIEW SCHEDULE

Topic: Impact of Urbanization on Sustainable Environment in Kerala- A Study Based on Thrissur District

		Secondary		
Primary	Secondary	Higher	Graduation	Higher
3. Educational L	evels:			
	s: Literate/ Illitera	ate		
Marital Status	: Married / Unma	arried/Widowed		
5. Religion:				
I. Mother tongu	e:			
B. Age:				
2. Sex:				
. Name of the F	Respondent:			

9. Total number of members in your family:

II. Economic Background:

- 10. What is your occupation?
- i. Government job

ii. Private sector job
iii. Business
iv. Daily wage work
v. Others
11. How much is your annual income from all sources? (in rupees)
i. less than 50,000
ii. 50,000- 1,00,000
iii. 1,00,000- 1,50,000
iv. 1,50,000- 2,00,000
v. more than 2,00,000
12. How much will be the money value of the wealth you possess from all sources?(in rupees)
i. less than 5,00,000
ii. 5,00,000- 10,00,000
iii. 10,00,000- 15,00,000
iv. 15,00,000- 20,00,000
v. more than 20,00,000
13. Do you save money? Yes/ No
14. How much is your monthly saving? Rs
15. Do you have any economic debt? Yes/ No

III. Expenditure Details:

16. How much is your total annual expenditure?

Items	Amount (in Rupees)
Food	
Non Food	

IV. Housing and Health Conditions:

17. Nature of Residence: Rented/ Owned/

18. Type of Residence: Concrete/ Tiled/ Tatched/ Others

19. Do you have water facilities? Yes/No

20. What is your opinion about the availability of water in your residence? Adequate/ Inadequate

21. Do you have electricity availability? Yes/No

Remarks by the	
enumerator	

V. Environmental Conditions and Health Issues

22. Do you have any environmental problems in this area? Yes/No

23. If yes, what is the major environmental issue that you have?

Problems	Tick mark
Water pollution	
Solid waste pollution	
Air pollution	
Noise Pollution	

24. If it is Water related problems, what is your opinion about the quality of water in your area?
Very Good/ Good/ Bad/ Very Bad
25. Can you mention the colour of the water which available to your usage?
Blue/ Light Blue/ Green/ Orange
26. Do you suffer any diseases due to low quality of water? Yes/ No
27. What are the major diseases do you have due to contaminated water?
i. Diarrhoea
ii. Cholera
iii. Typhoid Fever
iv. Hepatitis A/E
v. Others
28. Do you go for medical treatment for such diseases? Yes/ No
29. How much amount you spend monthly for medical treatment of water borne diseases? Rs
30. If the major problem is solid waste pollution, what do you think is the reason for increasing amount of municipal solid wastes?
i. Urbanization
ii. Rapid Population Growth
iii. Changes in Consumption Pattern
iv. Improved Standard of Living
v. Others

i. Construction Activities

31. What are the major sources of wastes in your city?

ii. Shops and Markets
iii. Households
iv. Hospitals, Marriage Halls and Institutions
v. Others
32. What are the major diseases do you have due to solid waste pollution?
i. Allergies
ii. Breathing problems
iii. Irregular fever
iv. Typhoid/ Malaria
v. Lung Infections
33. Do you have work lost days because of such diseases? Yes/ No
34. If yes, how many working days you lost yearly?days.
35. How much amount you spend annually as medical expenses for diseases due to solid waste pollution? Rs
36. If the major problem you consider is air pollution, what do you think is the main agent of such pollution?
i. Transport sector
ii. Construction Sector
iii. Industrial Sector
iv. Domestic Fuel Burning Activities
v. Garbage Burning/ Others
37. Do you have any diseases due to polluted air? Yes/ No
38. What are the major diseases do you have due to air pollution?

ii. Lung Proble	em			
iii. Skin Allerg	y.			
iv. Cancer				
v. Others				
39. Do you ha	ve work l	ost days because of	such air borne dise	eases? Yes/No
40. If yes, how	many w	orking days you los	t yearly?	.days
41. How much pollution? Rs			as medical expens	es for diseases due to air
42. If the maj	-	-	noise pollution, w	hat do you think is the
i. Vehicular H	orns			
ii. Constructio	n Activit	ies		
iii. Industrial A	Activities			
iv. Loud Spea	kers			
v. Social Even	ts			
43. What do y	ou think i	is the level of noise	pollution in your a	rea?
Very	high	High	Medium	Low
•		ealth issues due to not	•	
is. What are	ie iiiajoi	nearm issues as you	a mayo ado to monso	ponamon.

i. Asthma

i. Hearing Problems

ii. Sleeping Disorders

- iii. Cardio Vascular Issues
- iv. Hyper Tension & High Stress Levels
- 46. Do you have work lost days due to health issues of noise pollution? Yes/No
- 47. If yes, how many working days you lost yearly?days
- 48. How much amount you spend annually as medical expenses for health issues due to noise pollution? Rs......

Remarks by the		
enumerator		

VI. Measurement of Willingness to Pay

Let us suppose that Thrissur Municipal Corporation (TMC) is undertaking a project for bringing down pollution levels. In association with an NGO or agency, the authority is going to take up measures to improve the environmental situation.

The NGO will test the quality of water supplied weekly & will take measures to reduce water contamination and will assure improved quality of water. For this, a fee is charged from the local residents.

- 49. Are you willing to pay for such improved quality of water? Yes/No
- 50. If yes, in consideration of your budgetary limitations, are you willing to pay less than 200 rupees per month? Yes/No
- 51. If yes, are you willing to pay Rs. 200- 250 per month? Yes/No
- 52. If yes, are you willing to pay Rs. 250-300 per month? Yes/No
- 53. If yes, are you willing to pay more than 300 rupees per month? Yes/No

If yes, continue increasing by Rs. 50 till the respondent reaches No. Record the highest value of willingness to pay.

Suppose that TMC and District Pollution Control Board are going to take up a major pollution control program. Under this program all air polluting units in the city are controlled and monitored. Remedial measures are suggested in the field of transport system. This is based on some money charges which are to be collected from the residents.

- 54. Are you willing to pay for such improved quality of air? Yes/No
- 55. If yes, in consideration of your budgetary limitations, are you willing to pay less than 200 rupees per month? Yes/No
- 56. If yes, are you willing to pay Rs. 200- 250 per month? Yes/No
- 57. If yes, are you willing to pay Rs. 250- 300 per month? Yes/ No
- 58. If yes, are you willing to pay more than 300 rupees per month? Yes/No

If yes, continue increasing by Rs. 50 till the respondent reaches No. Record the highest value of willingness to pay.

Suppose the TMC appoint a private agency or NGO to solve the issue of solid wastes. The agency will initiate measures to clean the city by regular collection and treatment of wastes. A fee is charged for this from the local residents.

- 59. Are you willing to pay for better waste management system? Yes/No
- 60. If yes, in consideration of your budgetary limitations, are you willing to pay less than 200 rupees per month? Yes/No
- 61. If yes, are you willing to pay Rs. 200- 250 per month? Yes/ No
- 62. If yes, are you willing to pay Rs. 250- 300 per month? Yes/No
- 63. If yes, are you willing to pay more than 300 rupees per month? Yes/No

If yes, continue increasing by Rs. 50 till the respondent reaches No. Record the highest value of willingness to pay.

Suppose an NGO comes forward in the city to solve the problem of noise pollution by proper monitoring of noise levels and suggesting alternative measures to reduce noise levels. A fee is collected for this from the resident households.

- 64. Are you willing to pay for this? Yes/ No
- 65. If yes, in consideration of your budgetary limitations, are you willing to pay less than 200 rupees per month? Yes/No
- 66. If yes, are you willing to pay Rs. 200- 250 per month? Yes/No
- 67. If yes, are you willing to pay Rs. 250-300 per month? Yes/No
- 68. If yes, are you willing to pay more than 300 rupees per month? Yes/No

If yes, continue increasing by Rs. 50 till the respondent reaches No. Record the highest value of willingness to pay.

Remarks by the	
enumerator	

Thank You.

APPENDIX-II

Selected Sample Zones of Thrissur Municipal Corporation

Sl.	The Central Zone	No. of Samples Selected
No.		
1	Poonkunnam	4
2	Kuttankulangara	6
3	Patturaikkal	4
4	Chembukkavu	4
5	Kizhakkumpattukara	5
6	Paravattani	5
7	Nadathara	4
8	Chelakkottukara	4
9	Mission Quarters	5
10	Pallikkulam	7
11	Thekkinkadu	6
12	Kottappuram	5
13	Poothole	10
14	Kokkalai	10
15	Kanattukara	4

Sl. No.	Ayyanthole Zone	No. of Samples Selected
1	Kariattukara	6
2	Chettupuzha	10
3	Pullazhi	8
4	Olari	8
5	Elthuruth	5
6	Laloor	12
7	Aranattukara	7
8	Ayyanthole	6
9	Civil Station	5
10	Puthoorkkara	5

Sl. No.	Koorkancheri Zone	No. of Samples Selected
1	Chiyyaram South	7
2	Chiyyaram North	7
3	Kannamkulangara	10
4	Vadookara	8
5	Koorkancheri	12
6	Kanimangalam	12
7	Panamukku	6
8	Nedupuzha	8