APPENDICES
APPENDIX I

TEXT OF THE INTERVIEW-SCHEDULE CANVASSED AMONG HOUSEHOLDS ACROSS THE LOCALITIES IN BANGALORE, 2002–03

Serial No. Date of Interview:
Sample No. Place of Interview:

SECTION A

1. General Information

1.1 Name of the resident:
1.2 Age:
1.3 Education:
1.4 What is your religion?
   (a) Caste:
1.5 Family structure:
   (a) No. of family members:
   (b) No. of earning members:
1.6 What is your occupation?
1.7 What is the highest level of education in your home and who received it?
1.8 Since how many years, have you been living in this locality?
1.9 Is there any organisation/association of the residents of your neighbourhood?
   (a) What is its name?
   (b) When was it formed?
   (c) What are its functions/activities?
   (d) Are you its member?
   (e) Do you take part in its activities? How?
SECTION B

2. Resident’s Perception about Solid Waste

1.1 How do you dispose off day-to-day solid waste?

1.2 At what time of the day do you dispose solid waste?

1.3 How many times in a week do you dispose solid waste? (Tick one)
   (a) Every day:
   (b) Alternate day:
   (c) Twice in a day:
   (d) Thrice in a day:

1.4 How much quantity of waste does your family generate everyday?

1.5 Which are the things that your family uses which generate garbage?

1.6 How much of the following things generate in your house in a week?

<table>
<thead>
<tr>
<th>Items</th>
<th>Quantity</th>
<th>Daily</th>
<th>Once in a Week</th>
<th>Twice in a Week</th>
<th>Thrice in a Week</th>
<th>Occasionally</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) Vegetables</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(b) Left-over food</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(c) Milk and other plastic bags</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(d) Soft drinks bottle, tins&amp; other metal pieces</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(e) Newspapers/ waste papers</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(f) Miscellaneous</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1.7 Is the size of the dustbins kept in your locality is appropriate in size? If not, what is your suggestion?

1.8 Are the workers of municipal or private firms* are carrying their tasks daily to keep your locality clean?

* If in case the concerned locality’s solid waste is managed by private firms.
1.9 Are you satisfied with the ongoing process of solid waste management done by concerned authorities in your locality? If not, what measures do you suggest?

1.10 What are the tasks/activities of your residents' association?

1.11 How is your residents' association interacting and taking initiatives to keep your locality clean?

1.12 Does the municipal corporator of your locality is often visiting your locality and listening your problems and complaints?

1.13 Apart from health problems, what are the other problems faced by you due to solid waste?

SECTION C

3. Health Information and Treatment

3.1 Do you think that solid waste may affect your/public health? If so, how?

3.2 Did you suffer any illness due to solid waste? If so, what, and when?

3.3 How did you get this disease?

3.4 Did you consult any physician?
1. Information about Different Aspects of Solid Waste Management
   1.1 What is the total volume of solid waste generated in Bangalore City?
   1.3 How is the solid waste collected in Bangalore?
   1.3 What are the contents and different proportions of solid waste generated in Bangalore?
   1.4 Does the content and different proportion of solid waste change from one locality to another?
   1.5 How is solid waste transported from dustbins?
   1.6 Where is this being disposed?
   1.7 Is there any peculiar/noticeable characteristic of solid waste generated in Bangalore, which may be absent in other cities?
   1.8 Are hazardous solid waste from factories and hospitals also included in the municipal waste? If so, what is its percentage in the total municipal solid waste?
   1.9 What are the measures taken by the BMC to avoid/control this hazardous solid waste? Is there a safer mechanism of disposal?
   1.10 How many slums are there in Bangalore?
   1.11 Why do, poor localities (slums), always receive less attention from municipal authorities?
   1.12 On what basis are workers allotted to different municipal areas?
   1.13 How many vehicles are there in BMC?
   1.14 What is your opinion about private firms' initiation of solid waste management?
1.15 Is there any municipal area given for private handling and management of solid waste? If so, how is it running? Give details.

1.16 How many NGOs are involved in collection and disposal of solid waste?

1.17 What is the role of NGOs in solid waste management?

1.18 To what extent NGOs are contributing to improve the conditions of solid waste management and health aspects of both public and workers?

1.19 What is the role of residents’ welfare associations in solid waste management?

1.20 What are the different methods of waste disposal being conducted in Bangalore?

SECTION B

2. Health Information and Treatment

2.1 Which department/section of your BMC is taking care of the health of the workers?

2.2 Is this department responsible for public health also?

2.3 Is there any complaint regarding health problems from public? If so, what are such problems?

2.4 Which are the common complaints of workers regarding their health problems?

2.5 What are the precautionary measures taken by BMC to protect the workers’ health?

2.6 Is there any hospital meant only for workers? Where is it situated?

2.7 What is the percentage of municipal budgetary allocation to protect the workers from health hazards and accidental injuries?

2.8 What are the ‘Health Insurance Schemes’, to protect the workers from health hazards?
2.9 Apart from existing ones, what measure do you suggest to improve and protect the health of the workers from various health hazards and accidental injuries?
Serial No.                        Sample No.
Date of Interview:            Place of Interview:

SECTION A

1. General Information

1.1 Name of the informant:
1.2 Age:
1.3 Education:
1.4 Other-tongue:
1.5 Which other language do you know?
1.6 What is your religion?
   (a) caste:
1.7 Family structure:
   (a) No. of family members:
   (b) No. of earning members:
1.8 How much is your salary?
1.9 Where are you from (native place)?
   (a) Village:
   (b) District:
   (c) State:
1.10 What is your designation?
1.11 Since how many years have you been working in this municipal corporation?
1.12 Housing conditions:
   (a) Where is your home (locality)?
   (b) Whether living in a:
      (i) Rented house:
(ii) Owned house:
(iii) Official quarter:

1.13 How do you go to work?
(a) By walk   (b) By bicycle   (c) By moped
(d) By scooter (e) By bus.

1.14 What is the distance between your home and workplace?

1.15 How much time does it takes to reach the workplace?

1.16 At what time do you start your work and by what time you complete your work?

1.17 Do you work continuously or do you get break in between for rest, taking tea, smoking, etc.?

SECTION B

2. Worker's Perception about Solid Waste Management

2.1 In your area, what type of waste do people throw?

2.2 In your area, what are the different proportions of solid waste?

2.3 In your area, what type of occupation do the people doing?

2.4 What type of dustbins are kept in your area?

2.5 Are these dustbins appropriate in size?

2.6 How is solid waste transported from dustbins?
   (a) Where it is being dumped?

2.7 What are the equipments used by you to collect solid waste?
   (a) Whether you are using hand-gloves and gumboots while working at sites?
   (b) How safe are those equipments, from the workers' health point of view?

2.8 Do you think more advanced equipments must be provided to workers? If so, what are they?

2.9 After completing your work (in the afternoon), do you take bath or not? If so, what are you using (soap/ detergent) to clean your body/clothes, etc.?
2.10 Is bathing facility is available in your office premises or you have to go home?

2.11 Are you satisfied with the ongoing process of solid waste management?
   (a) If not, then what are the changes, do you feel, one should bring in it?

2.12 Before dumping of solid waste, are different materials sorted out? How?

2.13 What are the difficulties that you are facing while sorting out the solid waste?

SECTION C

3. Health Information and Treatment of Workers

3.1 In the last one year, did you suffer from any illness? If so, what?

3.2 How did you get this disease?

3.3 Is this disease recurring again and again?

3.4 How often is it reappearing?

3.5 Did you consult any physician?
   (a) What is doctor's opinion and advice?
   (b) What are the medicines suggested by doctor? How far are they effective?

3.6 Did you stop your routine work, while you were undergoing medical treatment?
   (a) Is salary paid when you are on medical leave?
   (b) Who is paying for your medical charges?

3.7 Apart from chronic/communicable diseases, which are the possible risks/injuries often occurring at the workplace?

3.8 Did you have any injury?
   (a) When did you get this injury?
   (b) What kind of injury/what happened?
(c) Whether workers are getting compensation for the severe injuries occurred at the workplace?

3.9 Is there any hospital, which is meant only for workers? Where is that located?

3.10 Is there any Pourakarmikas* (safai karmacharis) Unions? If so, how far they are helping the workers when they are suffering from health problems?

* In Bangalore municipal workers are known/ called as ‘Pourakarmikas’, which is a term of Kannada language.
APPENDIX IV

TEXT OF THE INTERVIEW-SCHEDULE CANVASSED AMONG WORKERS OF PRIVATE FIRMS IN BANGALORE, 2002–03

[These are the workers of private contractors/ organisations who are involved in collection and disposal mechanism of solid waste]

Serial No.                                      Date of Interview:
Sample No.                                      Place of Interview:

SECTION A

1. General Information

  1.1 Name of the informant:
  1.2 Age:
  1.3 Education:
  1.4 What is your mother-tongue?
  1.5 What is your religion?
      (a) caste:
  1.6 Family structure:
      (a) No. of family members:
      (b) No. of earning members:
  1.7 How much is your salary?
  1.8 Where are you from (native place)?
      (a) Village:
      (b) District:
      (c) State:
  1.9 What is your designation in this NGO or organisation?
  1.10 Since how many years you are working in this organisation?
  1.11 Housing conditions:
      (a) Where is your home (locality)?
      (b) Whether living in a rented house:
(c) Owned house:

1.12 How do you go to work?
   (a) By walk    (b) By bicycle    (c) By moped
   (d) By scooter  (e) By bus

1.13 What is the distance between your home and workplace?

1.14 How much time it takes to reach your workplace?

1.15 At what time you start your work and at what time you complete your work?

1.16 Do you work continuously or do you get break in between for rest, taking tea, or smoking etc.?

SECTION B

2. Worker's Perception About Solid Waste Management

   2.1 In your area, what type of waste do people throw?
   2.2 In your area, what is the different proportion of solid waste?
   2.3 In your area, what type of occupation do the residents pursue?
   2.4 What type of dustbins are kept in your area?
   2.5 Whether these dustbins are appropriate in size or not?
   2.6 How is solid waste transported from dustbins?
   2.7 Where is it being dumped?
   2.8 What are the equipments used by you to collect solid waste?
   2.9 Are you using hand-gloves and gumboots while working at sites?
   2.10 How safe are those equipments, from the workers’ health point of view?
   2.11 Do you think more advanced equipments must be provided to workers? If so what are they?
   2.12 After completing your work (in the afternoon) whether you take bath or not? If so what are you using (soap/ detergent) to clean your body/clothes etc.?
   2.13 Where do you take bath?
2.14 Whether you are satisfied with the ongoing process of solid waste management done by your organisation?

2.15 If not, then what are the changes, do you feel, one should bring in it?

2.16 Before dumping of solid waste, whether sort out of different materials is taken place? And how?

2.17 What are the difficulties that you are facing while sorting out the solid waste?

SECTION C

3. Health Information and Treatment of Workers

3.1 In the last one year, did you suffer from any illness? If yes, what happened?

3.2 How did you get this disease?

3.3 Whether this disease is recurring again and again?

3.4 How often it is reappearing?

3.5 Did you consult any physician?

3.6 What is doctor’s opinion and advices?

3.7 What are the medicines suggested by doctor? And how far they are effective?

3.8 Did you stop your routine work, while you were undergoing medical treatment?

3.9 Whether you people get salary when you are on medical leave?

3.10 Who is paying for your medical charges?

3.11 Apart from chronic/communicable diseases, which are the possible risks/injuries often occurring at the workplace?

3.12 Did you have any injury?

3.13 When did you get this injury?

3.14 What kind of injury/what happened?

3.15 Whether workers are getting compensation for the severe injuries occurred at the workplace?
3.16 Whenever you get an injury/disease where will you go for your treatment?

3.17 Whether you are having workers unions? If yes, how far they are helping the workers when they are suffering from health problems?
APPENDIX V

TEXT OF THE INTERVIEW-SCHEDULE CANVASSED AMONG RAGPICKERS IN BANGALORE, 2002–03

Serial No.  Date of Interview:
Sample No.  Place of Interview:

SECTION A

1. General Information
   1.1 Name of the informant:
   1.2 Age:
   1.3 Education:
   1.4 What is your mother-tongue?
   1.5 What is your religion?
      (a) caste:
   1.6 Family structure:
      (a) No. of family members:
      (b) No. of earning members:
   1.7 How much money you will get? Daily/weekly?
   1.8 How much money you can save out of it?
   1.9 Where are you from (native place)?
      (a) Village:
      (b) District:
      (c) State:
   1.10 Since how many years you are working as rag picker?
   1.11 Housing conditions:
      (a) Where is your home (locality)?
      (b) Whether living in a rented house:
      (c) Owned house:
   1.12 How do you go to work?
      (a) By walk  (b) By bicycle

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1.13 How much distance do you walk daily?
1.14 How much time it takes to cover that distance?
1.15 At what time you start your work and at what time you complete your work?
1.16 Do you work continuous or do you take break in between for rest, smoking etc.?

SECTION B

2. Ragpicker’s Perception About Solid Waste Collection and Disposal Mechanism:

2.1 Which are the areas/localities do you cover daily?
2.2 In those localities, what type of waste do people throw?
2.3 In those localities, what are the different proportions of solid waste?
2.4 What type of materials do you collect?
2.5 Whether you reach the dustbins/open dumping sites before municipal workers reach there?
2.6 In your area, what type of occupation do people pursue?
2.7 What type of dustbins are kept in your area?
2.8 Whether these dustbins are appropriate in size or garbage overflows the dustbins?
2.9 How do you collect the waste?
2.10 Do you collect waste materials in different localities or you also go to municipal dumping sites/landfill sites?
2.11 Whether you wear hand-gloves and chappals/shoes while collecting waste materials?
2.12 Do you think you need hand-gloves/shoes and face masks?
2.13 In which containers/big bag you collect waste materials?
2.14 How many kilograms of recyclable waste do you collect daily?
2.15 After collection of waste materials, where do you deposit it? And what are the bargaining cost?
2.16 From that deposited place where does the waste go?
2.17 After finishing your work, do you take bath? If yes, what are you using (soap/detergent) to clean your body/clothes, etc.?

2.18 What is the perception and attitude of municipal workers towards you?

2.19 What is the people’s, residents’ attitude towards you while collecting waste materials?

2.20 What is the attitude of your neighbours (at your residence) towards you? Is your nature of work looked down upon by them?

2.21 How is your relationship with other rag pickers?

SECTION C

3. Health Information and Treatment

3.1 In the last one year, did you suffer from any illness? If yes, what happened?

3.2 How did you get this disease?

3.3 Whether this disease is recurring again and again?

3.4 How often is it reappearing?

3.5 Did you consult any physician?

3.6 What was doctor’s opinion and advice?

3.7 What are the medicines suggested by doctor? And how far they are effective?

3.8 Did you stop your routine work, while you were undergoing medical treatment?

3.9 If you don’t go to work, how will you manage your livelihood?

3.10 Apart from chronic/communicable diseases, which are the possible risks/injuries often occurring at the workplace?

3.11 Did you have any injury?

3.12 When did you get this injury?

3.13 What kind of injury it was? What happened?
3.14 Did you face any problems due to stray and scavenging animals like dog, cattle, pig etc. and other animals like rats, snakes etc.? If yes, how explain?

3.15 Whether you have any rag pickers unions or organisations? If yes, then how far they are helping rag pickers when they suffer from any health problems?
APPENDIX VI

TEXT OF THE INTERVIEW-SCHEDULE CANVASSED AMONG WORKERS OF PLASTIC RECYCLING INDUSTRIES IN BANGALORE, 2002–03

[These are the workers working in plastic recycling industries]

<table>
<thead>
<tr>
<th>Serial No.</th>
<th>Date of Interview:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sample No.</td>
<td>Place of Interview:</td>
</tr>
</tbody>
</table>

SECTION A

1. General Information

1.1 Name of the informant:

1.2 Age:

1.3 Education:

1.4 What is your mother tongue?

1.5 What is your religion?
   (a) caste:

1.6 Family structure:
   a) No. of family members:
   b) No. of earning members:

1.7 How much is your salary/ wages?

1.8 Where are you from (native place)?
   (a) Village:
   (b) District:
   (c) State:

1.9 Since how many years you are working in this industry/factory?

1.10 Housing conditions:
   (a) Where is your home (locality)?
   (b) Whether living in a rented house:
   (c) Owned house:
1.11 How do you go to work?
(a) By walk (b) By bicycle (c) By moped
(d) By scooter (e) By bus

1.12 What is the distance between your home and workplace?

1.13 How much time it takes to reach the workplace?

1.14 At what time you start your work and at what time you complete your work?

1.15 Do you work continuously or do you get break in between for rest, taking tea, smoking, etc?

1.16 How many workers are working in this factory?

SECTION B

2. Worker’s Perception of Solid Waste

2.1 In your factory what type of plastic waste do you recycle?

2.2 There are so many varieties of recycling industries, among them, what type of factory is this?

2.3 Which type/ quality of plastic is recycled here?

2.4 Before recycling whether sorting out of different varieties of plastics is done in your factory premises?
(a) If yes, then what are the different constituents of plastics?

2.5 What are the difficulties that you are facing while sorting out the solid waste?

2.6 Who is bringing plastic waste to your factory and by what mode of transport?

2.7 Which are the areas, from where these plastic waste is collected?

2.8 Do you wear-hand gloves and gumboots while working?

2.9 What are the other equipments like masks etc. used by you while working?

2.10 How safe are those equipments, from the workers’ health point of view?
2.12 Do you think more advanced equipments must be provided to workers? If yes, what are they?

2.13 In the process of recycling, is plastic is burnt in your factory?
   (a) If yes, then in this process what type of gas/ smoke is produced out of it?
   (b) Do you know which gas it is? What is its impact on environment?
   (c) Before burning the plastic waste, how will you clean it?

2.14 Where do you dispose residues and polluted water after cleaning plastic waste?

2.15 What product do you produce after recycling? And where is it taken to?

2.16 After producing new recycled plastic goods, where do you dispose the plastic residues?

2.17 After completing your work, do you take bath?

2.18 If yes, then what are you using (soap/ detergent) to clean your body/ clothes etc.?

2.19 Are bathing facilities available in your factory premises?

2.20 Are you satisfied with this ongoing process of plastic waste recycling?

2.21 If not, what is your suggestion towards that?

SECTION C

3. Health Information and Treatment

3.1 In the last one year, did you suffer from any illness? If yes, what happened?

3.2 How did you get this disease?

3.3 Whether this disease is recurring again and again?

3.4 How often is it reappearing?

3.5 Did you consult any physician?

3.6 What is doctor’s opinion and advise?
3.7 What are the medicines suggested by doctor? And how far those medicines are effective?
3.8 Did you stop your routine work, while you were undergoing medical treatment?
3.9 Whether you people get salary/ wages when you are on medical leave?
3.10 Who is paying for your medical expenses?
3.11 Apart from chronic/ communicable diseases, which are the possible risks/injuries often occurring at the work place?
3.12 Did you have any injury?
3.13 When did you get this injury?
3.14 What kind of injury it was? And what happened?
3.15 Whether workers are getting compensation, by your employer, for severe injuries occurred at the work place?
3.16 Are you having any workers union? If yes, how far are they helping the workers when they are suffering from health problems?