APPENDICES
Appendix 1: Changes in Census Definitions

It is important to note that the definition of ‘worker’ in the census data has undergone a change between 1971, 1981, 1991 or 2001. According to the 1971 census definition:

A worker is a person whose main activity is participation in any economically productive work by his physical or mental activity. Work involves not only actual work but also effective supervision and direction of work. The reference period is one week prior to the date of enumeration in the case of regular work in trade, profession, service or business. If a person had any such regular work on any one of the days during this reference period and this has been returned as his main activity the person will be categorized accordingly. There are certain types of work, which are not carried on throughout the year. A person’s main activity should be ascertained with reference to such work, in last, one year even if he was not economically active in the week prior to enumeration (Census of India, 1971, Series 23, part XIII-B, p. 4).

In the 1981 and 1991 census workers have been divided into (a) main workers, (b) marginal workers. The village and town level analysis in chapter uses nine categories of main workers. Main workers have been defined as ... Somebody who has done economically productive works for at least 183 days during the year preceding enumeration (Census of India, 1981, Series 23, Part XIII-B, p. 4) and (Census of India, 1991, Series 26, part XII - A, p. 12).

Hence, the data on occupation proportions for 2001 are not exactly comparable with the data for 1971, 1981 and 1991. However, under the constraints of non-availability of analogous data for 2001, it has been assumed that the occupation proportions for main workers and marginal workers are not likely to be very different. The percentage figures can then be expected to give an idea about the type of changes that are taking place in the both rural and urban systems. Amongst the nine occupation categories, three of them viz., (a) cultivators, (b) agricultural laborers and (c) livestock, forestry, fishing, hunting, plantations, orchards and allied activities, have been added to give the figures for primary activity.
Classification of Workers:
The workers were grouped into the following categories after studying their actual job in the industries or elsewhere in Durgapur region.

(1) **Skilled Workers** – were mainly mechanics, filter welder, electrician, carpenter, battery processor etc.

(2) **Un-skilled workers** – were security guard, sweeper, attendant and workers without any professional training in any discipline.

(3) **Daily Workers** – were those who did not have any permanent job or place of work but get job for 3 to 8 months in a year.

(4) **Trade and Commerce** – Trade and Commerce, includes all types of commercial activities, but here most of them were small business units like Tea-stall, Pan or Betal shop, Grocery, Hawkers, Sweetmeat shops etc.

(5) **Service Category** – includes all other persons working in offices, industries or in any other organizations or business houses but not included in any of the above categories.

Classification of Non-Workers:
The non-workers include the following classes:

(1) Persons who had not been employed before, but were seeking employment for the first time or persons employed before but out of employment at the time of enumeration and seeking employment.

(2) Full time students or children attending school

(3) Person engaged in unpaid home duties (like homemaker or other adult male members)

(4) Dependents including infants, retired, invalid etc.
Ninety-two percent of the total non-workers were not looking for any type of employment, which includes Pre-school Children and Students (33.0 percent), and other dependents like homemakers, retired person etc. (58.9 percent). Un-employed person constituted (8.0 percent) in the total eight non-worker population who were in search of an employment.

Appendix 2: Types of Land

This thesis makes use of local nomenclature used to identify different types of land. A brief description of each of them may be helpful for further understanding.

(i) **Bayeed** (Baed: - Otherwise known as ‘Sali’ this type of land yielding, usually, a single major crop in a year is mainly used for cultivating Aman paddy during monsoon in rural Bengal. In other words, it is the common agricultural land located away from perennial water sources.

(ii) **Karnali**: - Usually as cultivable land close to natural waterways or irrigation channels. It also means low-lying, cultivable land with possibility of water logging. Because of its nearness to water sources, it fetches higher price from agriculturists than the previous variety.

(iii) **Doujami**: - Literally means agricultural land yielding double crops. This type normally produces two major crops in a year including Rabi crops and vegetables. Usually Doujami should have the facility of irrigation water during Rabi seasons. It should be noted here that land around Durgapur produces sugarcanes as another major cash crop.

(iv) **Bagan**: - The garden plot or orchard around residence or tank assumes such a name. Normally trees yielding fuel wood or fruits and few vegetables are also growing on this type of land. It is usually not used for cultivation of seasonal crops or paddy. It
may, however, be used as homestead as and when required. This type does not have a good buyer's market from the point of view of agriculture.

(v) **Bastu:** Literally means homestead in Bengali. It may mean land with a constructed structure or land suitable for construction of houses and buildings. As it is used normally for a specific purpose, the valuation depends mainly on location. Bastu is usually highland suitable for residential uses.

(vi) **Ponds:** A reservoir of natural water, especially rainwater, pond in this part of Bengal is usually non-perennial. Because of its depth, it can as well be used for cultivation of fish except as a source of domestic or irrigation water.

Over and above three are few other varieties of land (Fallow – Danga or Patit) which are non-agricultural and non-residential in nature and shall be referred to as ‘other’ in here.
Appendix 3: Sample General Village Condition Survey Schedule

First Phase of Questionnaire Survey

Location: - Subdivision: - Durgapur, District: - Barddhaman
State: - West Bengal, Country: - India.

Person to be Interviewed: - Mainly Panchayat member or Gram / Anchal Pradhan
Purpose: - To know about general condition of the respective village

[Question Sheet to be attached with answer sheets herewith]

A. General

1. a) Name of the village:-
   b) Community Development Block :-
   c) Police Station :-
   d) Jurisdiction List No.: -

2. Area of the village: - (in hectares / acres)

3. Total population: -

4. Far away from near by Railway- station: - and km. distance.

5. Type of Road (in percentage) :- a) Metalled

   b) Un metalled

6. Principal mode of Transportation: - (in percentage)
   Cycle , Rickshaw , Bus , Car
   Bullock-cart & other
B. **Economic Condition:**

1. Principal livelihood of the village is agriculture / industry / construction / services / others, supporting percentage of the total population and percentage of the total working force are engaged in the industrial belt.

2. Any other important industry percentage is engage.

3. In cultivation, percentage is engage.

4. Agricultural plots vary between bighas and production bearing metric tones (in average).

5. Total village area is irrigated percentage.

6. Total village area is cultivated percentage.

7. Land use pattern – mono cropping / multiple cropping / market gardening (in percentage).

8. Farm equipments used

9. For irrigation purposes mainly depend upon, river / ponds / tanks / bils / others in percentage.

10. Nature of product

11. Surplus commodity sold at home / local market or hut / regional market.

12. Financial assistance / loaning for agriculture

13. Any other information about major agricultural products

14. Value of different types of land (in average)

15. Percentage of total population which are employed

16. Income per house (in average)
C. Social Condition:

1. No. or percentage of Scheduled Castes among the total inhabitants

2. No. or percentage of Scheduled Tribes among the total inhabitants

3. No. of Houses :-
   i) Kachha (in percentage)
   ii) Pucca (in percentage)

4. Percentage of the permanent house structure

5. Type of Residence :-
   i) Owned (in percentage)
   ii) Rented (in percentage)

6. Drinking Water facilities :-
   i) Well (in percentage)
   ii) Tube well:
       a) Deep tube well (in percentage)
       b) Shallow tube well (in percentage)
       c) Tap (in percentage)
       d) Others

7. Power Supply facilities: Yes / No

8. Sanitation facilities: Yes / No
   If yes, i) Septic toilet (in percentage)
   ii) Pit / Khata (in percentage)
   iii) Non-toilet (in percentage)

9. Literacy and Educational facilities :
   a) No. or percentage of literate
   b) Type and number of existing school in village
   c) Travelling distance

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Traveled distance (kms.)</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>i) Primary (unto Class IV)</td>
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<tr>
<td>ii) Junior High (unto Class VIII)</td>
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</tbody>
</table>
iii) High school (up to Class X)
iv) Higher-Secondary school (Class X-XII)
v) College or other Higher Education

10. Medical and Public Health facilities:
   a) The institutions which exist or exists in village / nearby village:
      i) Secondary Health Centre (no.)
      ii) Primary Health Centre (no.)
      iii) Dispensary (no.)
      iv) Hospital (no.)
      v) Private Doctor or Nursing Home (no.)
   b) Traveling distance (in km)
   c) Services offered: satisfactory / average / unsatisfactory
   d) Attitude of most of the medical staff towards public: appreciable / average / non-appreciable
   e) Attitude of most of the adult villagers towards family planning programme: agree / disagree
   f) Any type of epidemics prevalent in recent years:

11. Other Socio-Cultural facilities: (if available)
   a) Postal and Telecommunication facilities:
      i) Post Office in village: Yes / No
         If yes, mail delivery once a week / bi-weekly / or every day.
         If no, traveling distance in km.
      ii) Telegraph and Telephone services if available any Yes / No
         If yes, (in details).
   b) i) Cinema Hall / Video Parlor: if any (in details).
      ii) No. of Television set or VCR / DVD set in village (if any).
   c) Library facility, if any, (in details)
   d) Banking facility, if any, (in details)
   e) Rationing facility, if any, (in details)
   f) Newspaper circulated, if any, Yes / No.
If yes, daily / bi-weekly / weekly / others (in details)
g) Availability of Recreational and Cultural facilities, if any, (in details)

12. Most of the Socio-Cultural amenities are available near by town / city and distances from the villages in km.

13. Hut / Market (if any)  
   If yes, daily / bi-weekly / weekly / fortnightly / others (in details)

14. Where the products send? – To Durgapur city or near by town. (in details)

15. How they depend upon Durgapur city or near y town? (in details)  
   (i) Directly (in percentage)  
   (ii) In directly (in percentage)

16. Important Fair and Festival of the village (in details – including Temple, Mosque, Church and others)

17. **General development condition :**  
   Development during last forty years in your village (in details)

D. **Problems :**  
Problems related to development in your village. If any, (in details)  
   (i) Lack of Schools – Primary / Junior High / High / Higher-Secondary / others  
   (ii) Lack of Drinking water facility  
   (iii) Lack of Electricity facility  
   (iv) Lack of Medical facility  
   (v) Lack of Administrative units – Village Panchayat / Nyay Panchayat  
   (vi) Mutual co-operation  
   (vii) Others (if any)
Appendix 4: Sample Village and Urban Household Survey Schedule

Second Phase of Questionnaire Survey

Location: Subdivision: Durgapur, District: Bardhaman, State: - West Bengal, Country: -India

Person to be Interviewed: Any Adult member of the household

Definition of Household: Persons (relatives, servants etc.) who usually sleep under the same roof, take main meals from a common kitchen and persons who sleeps in one place, and take meals at another, should be considered a normal member of the household where they sleep. A lodger, who occupies a separate room in the dwelling, caters for himself and pays rent should not be considered as a member of the household.

Purpose: Is to determine if any changes happened to individual family due to Industrialization and Urbanization in Durgapur.

[Question sheet to be attached with answer sheets herewith]

1. Name of the respondent / Head of the family

2. Address: Name of the village , Community Development Block
   Police Station , Jurisdiction List No

3. Occupation: Cultivator / Agricultural laborer / Artisan / Construction / Business / Industrial workers / Services / others

4. a)Type of the family: Single / joint / Nuclear / Extended
   b) i) Adult: a) Male b) Female
   ii) Minor: a) Male b) Female [Including children]

6. House type: Kancha / Pucca / others

7. How are the roofs made of from observation? Thatch / tin / concrete / other (specify)

8. What are the walls made of? Brick / plastered brick / tin / mud / straw / others (specify)

9. What type accommodation do you have? Owned / Rented

10. How manystoried your house or accommodation? One storied / two storied / three storied / others (specify)

11. If rented house how much is the rent?

12. Do you or your owner pay tax for your land holding? Yes / No if yes, how much?

13. Size of land holdings (Agricultural plot) Past and Present (in details) (This is important to know about changes of agricultural land holdings)

   Generation wise i) Great Grand Father’s time cottahs / bighas / acres (amount) ii) Grand Father’s time ” iii) Father’s time ” iv) Present generation ,


   b) Any amount of land vested by government. Yes / No if yes, mentioned in details

   c) Any compensation is given. If yes, what type and amount? (In details)

   d) Any rehabilitation facility is given. (Where applicable) If yes, what type? (In details)
15. Marriage
   a) Type of the Marriage: - Arranged / Love / Divorce (if any) give the number of each type? (generation & sex wise if possible)
   b) Nature of Marriage: - Monogamy / Polygamy / Polyandry (generation & sex wise if possible)
   c) Age of Marriage – (generation wise if possible) in average
      Male | Female
      ---  |   ---
      (i)  |       
      (ii) |       
      (iii) |     
      (iv) |      
   (i) Great Grand Father's time
   (ii) Grand Father's time
   (iii) Father's time
   (iv) Present generation

18. No. of Children :- (generation wise if possible) increased / decreased
   Male | Female
   ---  |   ---
   (i)  |       
   (ii) |       
   (iii) |     
   (iv) |      
   (i) Great Grand Father's time
   (ii) Grand Father's time
   (iii) Father's time
   (iv) Present time

17. Employment
   (i) Type - Permanent / Temporary / Daily / others
   (ii) Employment of sex - No. of worker: - No. of Non-worker: -
      Male | Female / Male | Female
   (iii) Any minor in working force: Yes / No
         If yes, in which Industry? Male | Female
   (In details)
   (iv) Occupational class (generation wise if possible)
      [Best or longest period he spent in hour]
      Agriculture / Construction / Industrial Workers / Business / Services / others
      (mentioned in detail)
18. Monthly income of the family (in average)
   i) Per capita income (monthly) Male / Female
   ii) Generation wise income (monthly) if possible Male / Female
      (a) Great Grand Father’s time
      (b) Grand Father’s time
      (c) Father’s time
      (d) Present generation

19. Socio-Cultural infrastructural facilities:
   i) Water supply facilities:
      What type of facilities you have:
      Well / tube well / taps / others
   ii) Is Power supply / Electrification is available in your house?
      Yes / No if yes, mentioned in details
   iii) Sanitation facilities Yes / No
      If yes, septic toilet / khata / Non toilet / others
   iv) Educational qualification:
      a) No. of literacy: - Male / Female
      b) Educational qualification (generation wise)
         Primary / Junior High / High School / Higher Secondary / Bachelor / Master
         Degree
         (i) Great Grand Father’s time
         (ii) Grand Father’s time
(iii) Father's time
(iv) Present generation

c) Whether urged for education developed among the Female than before.
If yes, mentioned in details.
What are the modes of their cultural and recreational activities?
Watching television / movies, listening radio, reading books from library,
sewing or knitting, handicraft, singing folklore, dancing and others
(mentioned in details)

20. Do you have the following (luxury goods) items in your house?
If yes, (Please specify the number & generation wise)
i) Television
ii) Record Player
iii) Cassette Player
iv) Radio / transistor
v) Telephone
vi) Refrigerator

21. Mode of Transportation:-
i) Do you have bicycles? If yes, mention how many.
ii) Do you have mopped / Scooter / Motor cycle / Motorbike?
If yes, mention how many.
iii) Do you have any other vehicles rented / owned (specify)?

22. What type of facility you or your family members get from Panchayat of the village?
(details)

23. Is all the luxury goods bring changed in your life pattern than past [Pre and post industrialization feeling if any in details]

24. i) Are your family migrated here? If yes, when?
ii) No. of migrated members of the family, their age and sex composition, their occupations and education levels, in details.

iii) Reason for migration

iv) Migrated from rural / urban areas

v) Migrated from which district or state (named them) [in details]

vi) Any out migration in your family - If yes place year Reasons

vii) Frequency of visit to place

25. What type of standard of living does your family used to maintain?
   High / Middle / Low
   (Explain your feelings and compare with past)
Appendix 5: Questionnaire for Asansol-Durgapur Development Authority

Third Phase of Questionnaire Survey

Location: - Subdivision: - Durgapur, District: - Barddhaman,
State: - West Bengal, Country: - India

Person to be Interviewed: - Chief Executive Officer, Administrative officer, Planner-in-Charge,
Executive Engineer, Architect Planner and Urban Demographer.

Purpose: - Is to know about the role of this organization in planning and
development of this region and its impact.

[Question sheet to be attached with answer sheets herewith]

1. Original plan of Durgapur – year of the plan

2. Durgapur prior to planning – villages, occupation, population, land seats.

3. Area first acquired by DDA & its location; villages acquired form whom? What happened to the inhabitants? How much compensation paid to them?

4. Present plan of Durgapur. Details development plans of industrial, residential & commercial sectors in various locations.

5. Details land use map of Durgapur.


7. Objectives of planning, how far they have been successful, problems, future plans

8. Present density of population and occupied residential houses in different part of Durgapur.

9. Number of Kaccha & Pucca houses.
10. Land values in different parts of Durgapur. Rent of houses in different parts of Durgapur (charges in values & rents of possible).

11. Plan and development of the Public Housings located at Durgapur. Detail locations, total number of flats, ownership, management, & others including problems & plans.

12. Amount of open space in different areas – data of successive years – their utilization, rules regarding maintenance of open space.

13. Slums: a) Location of major slums;
   (b) Reasons for the development;
   (c) Occupation & Population;
   (d) Measures taken for the improvement of slum condition


15. Total built up area in different parts of Durgapur.


17. Different types of Road - Details road map of Durgapur region. What is mean by grade separated roads?


19. Electricity.

20. Sewerage.


22. Income groups.

23. Possibility of water transport development via Durgapur Canal if any.

24. Future outline development plans for Durgapur Region. (In details)
Appendix 6: Questionnaire for Durgapur Municipal Corporation [Previous Durgapur Notified Area Authority]

Third Phase of Questionnaire Survey

Location: - Subdivision: - Durgapur, District: - Barddhaman,
State: - West Bengal, Country: - India

Person to be Interviewed: - (1) Vice-Chairman, (2) Secretary, (3) Administrative Officer and Medical Officer.

Purpose: - Is to know about the role of this organization for performs municipal function of Durgapur city and its impact.

[Question sheet to be attached with answer sheets herewith]

1. History
   a) Year of establishment
   b) The areas, it covered at that time – the name of the villages and their location.
   c) The population of the villages at the early phases of development in Durgapur
   d) Phases of growth of Durgapur
   e) Present list of the wards included in Durgapur Municipal Corporation.

2. Population
   a) Population in different areas of Durgapur
   b) Area and density in different parts of Durgapur
   c) Sex composition
   d) Data of the population distribution in successive years, since the year of establishment

3. Number of occupied houses in different areas
   a) The density of houses
   b) Residential and Industrial
c) Kaccha and Pucca

d) Newly built houses (unoccupied)

e) Private ownership, public ownership and rented

f) The rents and prices of houses in different areas – changes in successive years

g) Amount of open space in different areas – data of successive year – their utilization, rules regarding maintenance of open space.

4. Slums

a) Location of major slums

b) Approximate population

c) Occupation of the slum dwellers

d) Measures taken to improve the condition of the slum-dwellers

5. Unauthorized and Authorized buildings

a) Location

b) Number

c) Reason for their development

d) Khatals– Private built up area in different parts of Durgapur.

6. Social amenities:

   a) Schools – Primary, Secondary and Higher Secondary

   b) Shops and markets - (i) Private of Public

   c) Investment of Durgapur Municipal Corporation

   d) Whole sellers

   e) Retailers – grain shops, grocers, stationers, clothes and shoes – major division: durable and non-durable commodities (location & concentration)
c) Banks: (i) Number  
(iii) Location  
(iv) Years of establishment.

d) Hospitals, Health Centers, Dispensaries (Private and Public)

e) Parks, clubs, bus stops, cinema houses, restaurants, training centers, administrative units, post office, telephone exchange and lines, number of houses having telephone, telegraph office other institutions.

7. Type of Roads

8. Total number of Rickshaws and Vans- data of successive year. Owners– Bengali, Bihari, Oriya or others.

9. Inflow of essential commodities –  
Demand and Supply of the following: - specially milk, fish, vegetables, paddy, wheat, clothes, furniture and others.

10. Water Supply  
a) System of the water purification  
b) Number of tanks – location and capacity  
c) Consumption of water - industrial and residential  
d) Problems and related measures taken by the authority

11. Sewerage:  
(i) Areas having sewerage facilities  
(ii) Areas not having sewerage facilities  
(iii)Location of the sewerage treatment plant and its capacity.

12. Electrification:  
(i) Power grid  
(ii) Amount of power consumption in different  
(iii) Industries and residential power supply amount – (successive year).  
(iv) Power shortage - reasons and measures taken

13. Garbage: (i) amount  
(ii) disposal
14. Land values in different parts of Durgapur (successive year changes)

15. Trade and commerce – number of persons employed.

16. Number of persons employed in major industries.

17. Income groups

18. Peripheral growth

19. Labor statistics

20. Essential commodity from other cities and towns

21. Amount of the acquired land for industrial or commercial purpose
Appendix 7: Sample Industrial Survey Schedule

Third Phase of Questionnaire Survey

Location: Subdivision: - Durgapur, District: - Barddhaman,
State: - West Bengal, Country: - India

Person to be Interviewed: - Mostly Public-Relation Officer and Town Administrator or Officer-in-Charge.

[Large Public and Private Sectors Industries, whose number of employees are more than 300 persons have been chosen]

Purpose: - Is to know about role of each industrial unit and its impact.

[Question sheet to be attached with answer sheets herewith]

Schedule - A Industrial:

1. Name of the Industrial establishment
2. Location (including the mouzas and their J.L. nos.)
3. Year of establishment of its units / year of starting plants if differ also.
4. Objectives and Reasons for selecting Durgapur for establishment
5. Historical Background : (i) situation in early days (1955-65) :-
   (ii) Situation in present days (1995-2000):-
6. Type of land (Rayati or intermediary forest etc. or others) and land values (past and present) taken for Industrial Area Project.
7. Source of raw materials, power (or fuel if any) water and others
8. Main production items and flow of the products specially the industries within Durgapur Subdivision that are served by the company and other destination of production.
9. Development of Ancillary industries, their location and industries they feed, year of establishment.

10. **Infrastructure**:
    Different plant units: - name, characteristics, production capacity, special features if any.

11. **Labor statistics**:
    a) No. of persons employed – unskilled, skilled and managerial – past and present figures for comparison if possible
    b) Income groups: - (salaries of different categories and wages also).
    c) No. of persons retiring per year and new employment per year – successive years (unskilled, skilled and managerial)
    d) Origin of laborers and other staff (migration statistics) – year wise data if possible
    e) Where do they live?
    f) Commuters – how do they come?
    g) How many of them are provide with quarters – types and location of quarters.
    h) Employees’ benefits

12. Any Training facilities of the establishment

13. Investment at the time of inception and present if possible

14. Production loss and profit (amount and year)

15. Value of orders placed by various industries

16. Pollution problems and related measures taken by the company in details – (such as types of effluent if any special problem)

17. Slums / unauthorized encroachment problems.

18. Any other problems – (labor etc.)

19. No. of accidents – (if any happened).
20. Impact of government policies (e.g. – Coal price equalization policy)

21. Any Professional / Labor Organization (Trade Union Officer's Associations / others)

22. Any peripheral / community / rural development works or any voluntary efforts (particularly within Ondal, Faridpur, Durgapur and Kaksa Police Stations or adjacent Bankura district if any).

23. Resettlement action in early days, if any – (particularly owner of agricultural plots and evicted villagers – in details of different mouzas of Ondal Faridpur, Durgapur Kanksa police stations)

24. Zoning regulation, if any

25. Future planning or prospects

Schedule – B. Township:

1. Layout of the Township:
   a) Location: Name of the Police station (including name of the mouzas and their J.L. no.)
   b) Total areas of the township
   c) History of the township – original name of the village at the time of land acquired. Initial land value – price paid. Present value if possible, Name of the villages whom displaced compensation paid (in details).
   d) Phase of development of the township – maps if possible – present new construction, area location and purpose.

2. Total population of the township:
   a) Employment in the industry and other occupational statistics (no. of permanent / casual workers)
   b) Contractors employed for construction in the First phase. Number of contractor labors.
   c) Total number of literate persons
   d) Age – Sex composition of the population
3. Physical and Socio-Culture Infrastructural facilities:-

a) i) No. of houses / flats – past and present
   ii) Type of houses – kancha and pucca / single – storied / multi-storied flats and full quarters, rent of houses in different parts of the township to show income groups

b) Water Supply System

c) Power Supply – power grid and power consumption in different parts of the township, problems (if any).

d) Drainage and Sewerage System – treatment plant, initial investment cost, type or plan of the system, problems (if any)

e) Educational facilities: - School (Primary, Junior High, High/Secondary, Higher-Secondary or others).

f) Medical facilities: - Health Centers, Dispensaries, Hospital etc.

g) Postal and Telecommunication facilities

h) Sectoral Market facilities :-
   i) Number of stall given by the township authority :-
      1) Pattern of stall and type of shops
      2) Present owners (from where do they come?)
   ii) Section wise distribution of market categories of market – how many

I) Garbage – amount (per day / weekly / per annum), where dumped / problems?

4. a) Pollution problem (if any) and controlling measures taken for the township.
   b) Any other problems and measures taken

5. Comment on standard of living or quality of life of the township dwellers.

6. Investment in different development projects (viz. planning for maintenance of open space, pollution control etc.) within the township and source of money

7. Land lease given to other institutions – location and area – (poultry farm etc. if any) plans for the township, if any.
Appendix 8: Sample Ancillary Industry Survey Schedule

Third Phase of Questionnaire Survey

Location: - Subdivision: - Durgapur, District: - Barddhaman,
State: - West Bengal, Country: - India

Person to be Interviewed: - Owner or Manager.

Purpose: - Is to know about role of each Industrial unit and its impact.

[Question sheet to be attached with answer sheets herewith]

1. a) Name of the respondent
   b) Designation

2. Type of industry 
   large scale / small scale

3. Name of the firm with full address

4. Nature of ownership 
   sole proprietor/partnership/private/public sector

5. Category of industry:
   i) General Engineering
   ii) Manufacture and re-conditioning of auto-components and automobile repairs
   iii) Refractory and Ceramics
   iv) Rubber and plastic goods
   v) Chemicals
   vi) Electrical equipments
   vii) Steel and wooden furniture
   viii) Footwear, textile and clothing
   ix) Utensils and porcelain goods
   x) Printing and publishing.
   xi) Food products, canning and beverage products and bakery
xii) Others

6. Starting year of production

7. Capital investment (in Rs.) fixed working

8. Production:
   i) Installed capacity
   ii) Annual production (in Rs.) Volume

   ii) Name of the raw materials used

10. Sales (in Rs.) Volume (per annum)

11. Name the markets where most of the article sold or name of the places where most of the finished products send.

12. Export if any (in Rs.) volume items

13. Countries to which exported

14. Financial assistance (in Rs) financial agency

15. Average annual expenditure of the farm

16. Average annual income of the farm

17. Average annual profit of the farm

18. Facilities available:
   i) Residential accommodation
   ii) Water Supply
   iii) Electricity
   iv) Technical Assistance
   v) Transportation
   vi) Others
19. Employment:
   i) Manager (if any)
   ii) Supervisor (if any)
   iii) Labor officer (if any)
   iv) Skilled labor (total number)
   v) Unskilled labor (,)
   vi) Local labor (,)
   vii) Outside labor (,)
   viii) Others
   ix) Total hours of working duration of Industrial units
   x) Average hours of working of the labor
   xi) Labor or personnel's maximum and minimum wages
   xii) Labor or personnel's monthly average income
   xiii) Labor or personnel's residential facilities (if any)
   xiv) Labor or personnel have any type of bonus facilities.
   xv) Labor or personnel's retirement age
   xvi) Labor or personnel's retirement benefit (if any)
   xvii) Others (if any)

20. Difficulties and problems that the industry if facing regarding raw materials / labor / marketing / publicity / octroi charges / utilities / attitude of authorities / any other (if any)

21. Future expansion program

22. Any suggestion
Appendix 9: Questionnaire for Employment Exchange

Third Phase of Questionnaire Survey

Location: - Subdivision: - Durgapur, District: - Barddhaman,
State: - West Bengal, Country: - India

Person to be Interviewed: - Employment Officer-in-Charge.

Purpose: - Is to know about job opportunities through Sub-Regional Employment Exchange of this region and its impact.

[Question sheet to be attached with answer sheets herewith]

1. a) Name of the respondent
   b) Designation

2. Location:- (with full address)

3. Area of Jurisdiction

4. Establishment year

5. Objectives

   a) New registration
   b) Placement effected
   c) Vacancies notified
   d) Vacancies filled
   e) No. of live register at the end of the year

7. Give details information regarding live registered person based on sex, qualification, religion and caste
8. Give details information regarding unemployment grants given if any

9. Facing Problems if any

10. Future planning or prospects
Appendix 10: Questionnaire for State Pollution Control Board

Third Phase of Questionnaire Survey

Location: - Subdivision: - Durgapur, District: - Barddhaman,
State: - West Bengal, Country: - India

Person to be Interviewed: - Officer-in-Charge.

Purpose: - Is to know about Role and Functions of State Pollution Control Board and different pollution controlling measures have taken and their impact on this region.

[Question sheet to be attached with answer sheets herewith]

1. a) Name of the respondent
   b) Designation

2. Location: - (with full address)

3. Area of jurisdiction

4. Establishment year

5. Objectives

6. Different types of pollution and controlling measures taken (in details)
   A) Air pollution
      a) Particulate pollution
         i) Suspended matter
         ii) Smoke
      b) Gaseous pollutant
         i) Industrial plants
ii) Motor vehicles

B) Water pollution
   i) Floating materials
   ii) Suspended matter
   iii) Dissolved impurities

C) Noise pollution
   i) Fabricating plant
   ii) Horn

7. Methods of checking pollution control (in details)

8. Status of different industrial organizations regarding pollution control measures in this region (in details)

9. Any violation record

10. Facing problems if any

11. Future planning or prospects

12. Others
Appendix 11: Sample Transportation Networks Survey Schedule

Third Phase of Questionnaire Survey

Location: - Subdivision: - Durgapur, District: - Barddhaman, State: - West Bengal, Country: - India

Person to be Interviewed
i) In South-Bengal State Transport Corporation – Traffic Manager
ii) In Minibus and Private Bus Authorities – Coordinator or Officer-in-Charge
iii) Durgapur Station Master.

Purpose: - Is to know about different modes of transportation activities of this region and their impact.

[Question sheet to be attached with answer sheets herewith]

Schedule A. Government Bus, Minibus and Private Bus:

1. a) Name of the respondent
   b) Designation

2. Type of transportation activity

3. Name of the organization with full address

4. Establishment year

5. Objectives

6. No. of Buses
   i) Local
   ii) Long distance

7. No. of buses ply in each route

8. Type of buses
9. No. of bus routes radiating from Durgapur

10. Bus routes operated under your organization’s service (within Durgapur subdivision) in details
   i) Inception time
   ii) Recent time (2002 to 05)

11. No. of trip / shift in each route

12. Frequency or timing of buses in each route

13. Important stoppage [related route map is required] (connections with other parts of this subdivision inter and intra districts as well as state capital and neighboring states)

14. Total seating arrangement of buses of different types

15. Name of the rural mouzas (with J.L. No., if possible) within Durgapur Subdivision, connected by bus (in details namely the number of buses, their frequency and distances)

16. No. of garages

17. Transportation maintenance network or controlling units and their function in details

18. a) No. of ticket sold in each route per day
   b) No. of tickets sold in each route during the peak hours (4 successive Sunday and Monday figures)
   c) Commuter data (if any)
   d) Value of tickets sold in each route

19. Bus stoppages in each route; system of their establishment

20. Road connection of Durgapur and it's surrounding areas in the past and recent times for comparison

21. Long distance bus routes within Durgapur Subdivision (if any)
22. Commuter coming to Durgapur each day in each vehicle or number of passengers if possible

23. Origin and destination of the passengers

24. Length of roads in Durgapur Sub-division up to 2004-2005 particularly Ondal, Faridpur, Durgapur and Kaksa Police Stations
   a) Metalled road
   b) Un-metalled road
   c) Cart-Track
   d) Footpath

25. No. of total employees of this organization
   a) Permanent staff
   b) Casual staff

26. Average annual income of this organization

27. Difficulties and problems that this organization is facing (if any) and related measures taken

28. Future prospect or any expansion program

29. Any suggestion

Schedule – B  Indian Railway: -

1. a) Name of the respondent
   b) Designation

2. Type of transportation activity

3. Name of the organization with full address

4. Establishment year of Durgapur station

5. Objectives
6. Brief history of Railway (particularly related to Durgapur station and other important stations located within Durgapur Sub-division)

7. No. of trains, those connect Durgapur station with rest of India
   a) Local / suburban trains
   b) Long distance trains

8. Commuter data: (a) No. of daily passenger (in average)
   (b) No. of monthly passenger (in average)

9. Frequency of trains:
   a) Local / suburban
   b) Long distance

10. Important stations, those connected with Durgapur (related map, if any)

11. No. of EMU coaches for Durgapur from Asansol or Barddhaman or Dhanbad and others if any

12. No. of ticket sold (daily/monthly) from Durgapur in the year 2004-05 and revenue collection from the passenger fare.

13. Quantity of goods booked for transportation and collection of revenue there in from Durgapur in the financial year 2004-05.

14. Quantity of goods unloaded at Durgapur in the financial year 2004-05

15. Difficulties and problems (if any) and related measures taken

16. Future prospect / any expansion program

17. Any suggestion
Appendix 12: Sample Commercial and Business Activities Survey Schedule

Third Phase of Questionnaire Survey

Location: - Subdivision: - Durgapur, District: - Barddhaman, State: - West Bengal, Country: - India

Person to be interviewed: - Mainly owner of the Business Establishment or Store or shop keeper

Purpose: - Is to know about Commercial and Business activities of this region and their impact.

[Question sheet to be attached with answer sheets herewith]

1. a) Name of the respondent
   b) Designation

2. Name of the Business establishment with full address

3. Nature of the ownership sole proprietor/partnership/government undertaken

4. Type of commodities sold

5. Year of establishment

6. a) Origin of the shopkeeper
    b) Prior occupation (if any)

7. a) Residence of the shopkeeper
    b) Family member and their occupation

8. Shops are rented or owned? If rented from whom and what is the amount of rent.


10. Materials of construction of shop
11. Type of shop temporary / permanent in nature

12. Mention about the average floor space of shop (in ft.)

13. Any other employees if yes, give details of them
   i) Local / outsiders
   ii) Full time / Part-time paid workers

14. Do you have trade license? Have you any other license other than trade license (viz. weights etc.)

15. Monthly sale in average from this business establishment is in Rs.

16. Monthly income from this business establishment is in Rs.

17. Average annual income from this business establishment is in Rs.

18. Average annual expenditure for this business establishment is in Rs.

19. Average annual profit from this business establishment is in Rs.

20. Average weekly working hours of this business establishment

21. Is this business establishment received any type of loan or financial assistance? If yes, what is the amount? Name of that financial agency or bank (if any)

22. Difficulties and problems that the business establishment is facing (if any)

23. Future expansion program (if any)

24. Any suggestion
Appendix 13: Sample Market Survey Schedule

Third Phase of Questionnaire Survey

Location: - Subdivision: - Durgapur, District: - Barddhaman,
State: - West Bengal, Country: - India

Person to be Interviewed: - Mainly Market or Bazaar Secretary, Small Shopkeepers, Grocery Merchants, Hawkers etc.

Purpose: - Is to know about Trade and Commercial and Business activities of this region and their impact.

[Question sheet to be attached with answer sheets herewith]

1. a) Name of the respondent
   b) Designation

2. Name of the Market with full address

3. Nature of the ownership of shop, stores or others

4. Area of the influence of this market

5. No. of total stall: -
   a) Registered
   b) Un-registered

6. Type of business establishment or shop
   i) No. of whole sellers
   ii) No. of Retailers
   iii) Government controlled shop if any like ration or kerosene shop.

7. Type of construction of the market - permanent / temporary

8. Type of article sell
9. Goods are come from :-
   a) Perishable articles –
   b) Non-perishable articles –
   c) Total amount of goods demand for this particular market (in details)
      d) Total amount of supply (in details)

**Spot Survey of Perishable Articles Supply** [unit per day]

<table>
<thead>
<tr>
<th>Items</th>
<th>Estimated Demand</th>
<th>Estimated Supply</th>
<th>Source</th>
<th>Rate</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Milk (liter) mainly Cow &amp; Buffalo)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Bread (no.)</td>
<td></td>
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<tr>
<td>Egg (no.)</td>
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<tr>
<td>Chicken (no.) (live)</td>
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<tr>
<td>Meat (kg.)</td>
<td></td>
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</tr>
<tr>
<td>a) Goat/others</td>
<td></td>
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<tr>
<td>b) Chicken (kg.)</td>
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<tr>
<td>Fish - Fresh (kg.)</td>
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<tr>
<td>Sea-fish (kg.)</td>
<td></td>
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<tr>
<td>All Vegetables (kg.)</td>
<td></td>
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<tr>
<td>Potato (*)</td>
<td></td>
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<td></td>
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<tr>
<td>Onion (*)</td>
<td></td>
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<tr>
<td>Garlic (*)</td>
<td></td>
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<tr>
<td>Ginger (*)</td>
<td></td>
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<tr>
<td>Egg plant (*)</td>
<td></td>
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<tr>
<td>Green Plantain (dozen)</td>
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<tr>
<td>Okra (kg.)</td>
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<tr>
<td>Cucumber (*)</td>
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<tr>
<td>Calabazas (*)</td>
<td></td>
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<tr>
<td>Long Green Squash (*)</td>
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<tr>
<td>Cauliflower (per piece)</td>
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<tr>
<td>Cabbage (kg.)</td>
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<tr>
<td>Beans (*)</td>
<td></td>
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</tr>
<tr>
<td>Carrot (*)</td>
<td></td>
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<tr>
<td>Papaya (*)</td>
<td></td>
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<tr>
<td>Spinach (*)</td>
<td></td>
<td></td>
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<tr>
<td>Cilantro (bundle)</td>
<td></td>
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<tr>
<td>Green chili (kg.)</td>
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<td></td>
</tr>
<tr>
<td>Lime/Lemon (*)</td>
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Contd.
<table>
<thead>
<tr>
<th>Items</th>
<th>Estimated</th>
<th>Source</th>
<th>Rate</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parval (kg.)</td>
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<td>Demand</td>
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<tr>
<td>Tomato (green/ripe)</td>
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<td>Supply</td>
<td></td>
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<tr>
<td>Dhudul (kg.)</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Khero (*)</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>All Fruits (kg.)</td>
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<td></td>
</tr>
<tr>
<td>Apple (case/petty)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mango (kg.)</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Bananas (dozen)</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Grapes (kg.)</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Jamun (*)</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Palm (per pieces)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lichhi (Kg)</td>
<td></td>
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</tr>
<tr>
<td>Orange (*)</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Musumbi (Grape fruits)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coconut (per piece)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Green Coconut (per piece)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dalim (kg.)</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Guava (*)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melon (*)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sugar cane (no.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Betal (10 pieces)</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Betal nut (kg.)</td>
<td></td>
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</tr>
</tbody>
</table>

Date as on

10. Any registered Administrative Body or Union

11. Average weekly working hours of this market

12. Any kind of government subsidiary or assistance

13. Difficulties and problems (if any)

14. Future expansion program

15. Any suggestion
Appendix 13: Major Administrative Authorities

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIB</td>
<td>Durgapur Industries Board</td>
</tr>
<tr>
<td>DDA</td>
<td>Durgapur Development Authority</td>
</tr>
<tr>
<td>APO</td>
<td>Asansol Planning Organization</td>
</tr>
<tr>
<td>ADDA</td>
<td>Asansol-Durgapur Development Authority</td>
</tr>
<tr>
<td>DNAA</td>
<td>Durgapur-Notified Area Authority</td>
</tr>
<tr>
<td>DMC</td>
<td>Durgapur Municipal Corporation</td>
</tr>
</tbody>
</table>
Appendix: 14 Major Manufacturing establishments in Durgapur Industrial Complex

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Manufacturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASP</td>
<td>Alloy Steel Plant</td>
</tr>
<tr>
<td>BOGL</td>
<td>Bharat Ophthalmic Glass Limited</td>
</tr>
<tr>
<td>DCL</td>
<td>Durgapur Chemicals Limited</td>
</tr>
<tr>
<td>DPL</td>
<td>Durgapur Projects Limited</td>
</tr>
<tr>
<td>DSP</td>
<td>Durgapur Steel Plant</td>
</tr>
<tr>
<td>DTPS</td>
<td>Durgapur Thermal Power Plant</td>
</tr>
<tr>
<td>DVC</td>
<td>Damodar Valley Corporation</td>
</tr>
<tr>
<td>FCI</td>
<td>Fertilizer Corporation of India</td>
</tr>
<tr>
<td>IOC</td>
<td>Indian Oil Corporation</td>
</tr>
<tr>
<td>MAMC</td>
<td>Mining and Allied Machinery Corporation</td>
</tr>
<tr>
<td>PCBL</td>
<td>Phillips Carbon Black Limited</td>
</tr>
<tr>
<td>SBSTC</td>
<td>South-Bengal State Transport Corporation</td>
</tr>
</tbody>
</table>

Appendix: 15 Conversion Table

The conversion table followed during research given below -

<table>
<thead>
<tr>
<th>Conversion</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mile</td>
<td>1.60 km.</td>
</tr>
<tr>
<td>1 sq. km.</td>
<td>0.386 sq. mile</td>
</tr>
<tr>
<td>1 hectare</td>
<td>2.471 acres</td>
</tr>
<tr>
<td>1 inches</td>
<td>25.399 mm.</td>
</tr>
<tr>
<td>1 foot</td>
<td>30.479 cm.</td>
</tr>
<tr>
<td>1 acre</td>
<td>0.405 hectare</td>
</tr>
<tr>
<td>1 sq. mile</td>
<td>2.599 sq. km.</td>
</tr>
<tr>
<td>3 feet</td>
<td>1 yard</td>
</tr>
</tbody>
</table>