Chapter 5  The Livelihood Context: The Area, People and Background to Displacement

5.1. The Macro-Context

5.1.1 History of Madhya Pradesh
5.1.2 Topography and Resources
5.1.3 Macro-economy and Human Development Indicators
5.1.4 Agro-Climatic Zones (ACZs) or Agro-Ecological Sub-Regions (AESRs)

5.2. The Study Area

5.2.1 The Gird Agro-Ecological Sub-Region
5.2.2 District Sheopur

5.3. The Kuno Wildlife Sanctuary

5.4. The Asiatic Lion Reintroduction Project

5.4.1 Background
5.4.2 The Asiatic lion
5.4.3 Previous attempts at reintroducing lions

5.6. The Sahariya Adivasi

SECTION – III

Chapter 6  Impact of Displacement on Agriculture

6.1 Reconstructing pre-displacement livelihood

6.2. The Pre-Displacement Scenario

6.2.1 The Role of Agriculture in the Sahariya Livelihood
6.2.2 Agriculture in the semi-arid tropics
6.2.3 Quality of Landholdings
6.2.4 Main Crops
6.2.5 Land leasing and sharecropping arrangements
6.2.6 Output, Productivity and Marketing

6.3. Impact of Displacement on Agriculture

6.3.1 Non-cultivating households
6.3.2 Agricultural Income
6.3.3 Crop mix and yield
6.4. Factors Responsible for Decline in Agriculture

6.4.1 Quality of Landholdings
6.4.2 Availability of water
6.4.3 Availability of Complementary Inputs
6.4.4 Lack of Crop Protection
6.4.5 Other Possible Explanations

Chapter 7 Impact of Displacement on Forest-based Livelihood

7.1. Forests, CPRs and Rural Livelihood
7.2. The Role of Forests and Commons in the Sahariya Economy
7.2.1 NTFP Collection and Sale
7.2.2 Fodder for Livestock
7.2.3 Food and Nutrition
7.2.4 Medicinal Plants
7.2.5 Other Uses

7.3. Impact of Displacement on Forest-based Livelihood
7.3.1 Income Contribution of NTFP
7.3.2 Annual NTFP Availability and Collection Time
7.3.3 Changes in the NTFP collection basket
7.3.4 NTFP information from PRA exercises in other displaced villages

7.4 Impact of Displacement on Hunting
7.5 Impact of Displacement on Fuelwood

Chapter 8 Impact of Displacement on Non-farm Livelihood: Livestock and Wage Labour
CONTENTS

SECTION - I

Chapter 1 Introduction 1
1.1 The Development versus Conservation Dilemma 1
   1.1.1 Common Property Resources and Rural Poverty 1
   1.1.2 The Conservation-Livelihood Conflict 3
1.2 "Fortress" Conservation and Displacement 6
   1.2.1 The Case for People's Displacement from PAs 6
   1.2.2 Need for quality research and documentation 7
1.3 About this Study 10
   1.3.1 Relevance of the Study 10
   1.3.2 Structure of the Study 11

SECTION - II

Chapter 2 Poverty, Displacement and Conservation: A Review of Literature 14
2.1 Sustainable Development - A Review of Literature 14
2.2 Poverty - A Review of Literature 17
   2.2.1 Common Approaches to Poverty 19
   2.2.2 Other Approaches to Poverty 22
   2.2.3 Measurement of Poverty 24
   2.2.4 Rural Poverty in India 24
   2.2.5 Poverty among the Scheduled Tribes 25
2.3 Tribes and Forests in pre-colonial and colonial India 27
2.4 A Typology of Conservation Paradigms 29
   2.4.1 Fortress or Exclusionist Conservation 29
   2.4.2 Fortress Conservation and Displacement from PAs 31
2.4.3. Community-based Conservation 34
2.4.4. Critique of CBC Approaches 37
2.4.5. Emerging Synthesis between Fortress and Participatory Conservation 39

2.5. Displacement – A Review of Literature 42
2.5.1. The Development versus displacement debate 42
2.5.2. Typology of Displacement 45
2.5.3 Displacement and Rehabilitation Policy in India 46
2.5.4. Conservation-induced Displacement: Experiences 50

Chapter 3 Analytical Framework: Displacement, Poverty and Livelihood Security 54
3.1. Impact of Displacement on Poverty 54
3.1.1 Defining a measure of welfare 54
3.1.2 Defining a poverty line 59
3.1.3 Generating a poverty index 65
3.2. Impact of Displacement on Livelihood Security 68
3.2.1 The IRR Framework 69
3.2.2 The Sustainable Livelihoods (SL) Framework 72
3.2.3 Integrating IRR and SL frameworks 74

Chapter 4 Research Scope and Methodology 78
4.1. The Research Question 78
4.2. Scope of the Research 80
4.3. Methodology 81
4.3.1 Selection of Study Villages and Households 83
4.3.2 Data collection tools 94
4.3.3 Formulae Used 100
4.4. Threats to Validity 102
4.5 Other Limitations of the Study 107
4.5.1 Limitations specific to the treatment villages 107
4.5.2 Limitations specific to the control villages 108
4.5.3 Limitations of data on extraction and sale of NTFP 109
9.6. Risk of Loss of Human Capital

9.6.1 The Rehabilitation Package and Its Adequacy

9.7. Risk of Loss of Social Capital

9.7.1 The Rehabilitation Package and Its Adequacy

Chapter 10 Livelihood Outcomes: Income, Poverty and Food Security

10.1. Impact of Displacement on Income

10.1.1 Overall Trends

10.1.2 Sectoral Break-up of Income

10.1.3 Income Distribution

10.2. Impact of Displacement on Poverty

10.2.1 Headcount Ratio of Poverty

10.2.2 Aggregate Poverty Index

10.2.3 Robustness using Stochastic dominance

10.3. Impact on Food Security and Mortality

10.3.1 The Macro-Context

10.3.2 Food security among the Sahariya

10.3.3 Household experiences of diet and nutrition

10.3.4 Daily expenditure on food

10.3.5 Diet Diversity

10.3.6 Milk production and consumption

10.3.7 Hunger and Starvation

10.3.8 Vulnerability to Disease and Mortality

Chapter 11 Conclusions and Policy Lessons

11.1. Overall Impact of Displacement on Livelihood

11.2. Main Strengths of the Rehabilitation Package

11.3. Major Lacunae of the R&R Package/Process

11.4. The Kuno Displacement: Was it Voluntary?

11.5. Lessons for the Future and Best practices

11.6. Impact of People's Displacement on Conservation

Bibliography and References
8.1. Livestock-rearing: Pre-Displacement Scenario

8.2. Wage Employment: Pre-displacement Scenario

8.3. Impact of Displacement on the Livestock Economy
   8.3.1 Total livestock holdings after relocation
   8.3.2 Changes in livestock composition
   8.3.3 Draught animals
   8.3.4 Milk-yielding animals
   8.4.5 Availability of manure
   8.4.6 Impact on Poultry
   8.4.7 Availability of fodder

8.5. Impact of Displacement on Wage Employment
   8.5.1 Availability of and Income from wage labour
   8.5.2 Sources of Wage Employment
   8.5.3 Seasonal Variations in Wage Employment
   8.5.4 Impact on Migration

SECTION IV
Chapter 9 Displacement and Impoverishment Risks

9.1. The Kuno Rehabilitation Package

9.2. Impoverishment Risks of Displacement

9.3. Risk of loss of Physical Capital
   9.3.1 The Rehabilitation Package
   9.3.2 Adequacy of the Package

9.4. Risk of Loss of Financial Capital
   9.4.1 The Rehabilitation Package
   9.4.2 Adequacy of the Package

9.5. Risk of Loss of Natural Capital
   9.5.1 The Rehabilitation Package
   9.5.2 Adequacy of the Package
<table>
<thead>
<tr>
<th>Annexure 1:</th>
<th>Displacement from Protected Areas in India</th>
<th>328</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annexure 2:</td>
<td>Main Findings of Participatory Appraisals</td>
<td>330</td>
</tr>
<tr>
<td>Annexure 3:</td>
<td>Schedule of NTFP prices in the local market</td>
<td>348</td>
</tr>
<tr>
<td>Annexure 4:</td>
<td>Map of the Study Area</td>
<td>351</td>
</tr>
<tr>
<td>Annexure 5:</td>
<td>Survey questionnaire</td>
<td>352</td>
</tr>
<tr>
<td>Annexure 6:</td>
<td>PRA-based Village Narratives</td>
<td>358</td>
</tr>
<tr>
<td>Annexure 7:</td>
<td>Minimum Support Price Schedule</td>
<td>366</td>
</tr>
<tr>
<td>Annexure 8:</td>
<td>PRA Results: Daily Routine of Women</td>
<td>367</td>
</tr>
<tr>
<td>Annexure 9:</td>
<td>Post-Partition Experience of Resettlement and Rehabilitation</td>
<td>369</td>
</tr>
</tbody>
</table>