

# Contents

|                             |    |
|-----------------------------|----|
| <i>Preface</i>              | 7  |
| <i>List of Contributors</i> | 15 |

## **Part 1. General Perspective**

|  |    |
|--|----|
| 1. The Survival of the Himalaya<br><i>Sunderlal Bahuguna</i>   | 19 |
| 2. Traditional Biodiversity Management Strategies<br>in the Mountains: Farmers' Experimentation in<br>Garhwal Himalaya<br><i>Vir Singh</i> | 25 |
| 3. Paradox of Conventional Development<br><i>Smitu Kothari</i>   | 67 |
| 4. Wasteland Development in U.P. Hills: Status and Problems<br><i>Virendra Singh and O.P.S. Bana</i>                                       | 71 |
| 5. Sustainability of Technology Interventions in<br>Agriculture and Rural Development<br><i>Narendra Kumar</i>                             | 77 |
| 6. Towards an Integrated Conservation Strategy<br><i>N.P. Melkania</i>   | 89 |

## **Part 2. How did We get Here?**

### **The State of Natural and Socio-Economic Resource Base**

|  |     |
|--|-----|
| 7. History of Community Forestry (Peasant) in the<br>Lesser Himalayan Region of Kumaon<br><i>Ajay S. Rawat</i> | 101 |
|--|-----|

## 12 *Mountain Ecosystems*

8. Ecological Studies in a Montane Forest of Bhagirathi Valley in Western Garhwal Himalaya  
*G.S. Rajwar* 116
9. Himalayan Forests in a State of Unsustainability  
*Virendra Singh, M.L. Sharma and Vir Singh* 128
10. Land and Water Management Strategies for Mountain Agriculture  
*Anil Kumar* 140
11. Nepal Himalaya: The Need to Change?  
*Chris Evans* 149
12. Victims of Unsustainability: Health Status of Garhwali Children  
*Anuradha Dutta* 154
13. Problems of Angora Rabbit Farming in Garhwal Himalaya  
*C.B. Singh and Chandra Dev* 160
14. Status of Agro-Forestry Systems in the Western Himalaya  
*S.K. Lavania, Satya Prakash and Ajeet Kumar* 163
15. Such Afforestation will not Save Himalayan Ecology  
*Gita Singh* 168
16. Bhimal: A Prop for the Himalayan Life  
*Vijay Jardhari* 172
17. Dangerous Ecological Effects of Apple Cultivation  
*Vir Singh* 176
18. Medicinal Herbs of the Himalaya: A Threat to their Survival  
*Narendra Rautela* 182
19. Save Our Plant Genetic Resources  
*Narendra Kumar and J.K. Bisht* 186
20. Tourism in the Himalaya: Environmental and Socio-Cultural Concerns  
*Anuradha Dutta and Vir Singh* 192
21. Environmental Degradation and Nutritional Status of Hill People: Some Reflections  
*Anuradha Dutta* 199

22. Poor in the Himalaya 204  
*Binod Bhattarai*
23. Traditional Migration of Nepali Labourers 216  
*Narendra Rautela*

### **Part 3. Tehri Dam: A Project for Genocide**

24. Tehri Dam Safety Questioned by Top Seismologists:  
Vital Studies not done to Determine Site Intensity  
Effect of Likely Earthquake 225  
*N.D. Jayal*
25. Earthquakes and Dams in Garhwal Himalaya 233  
*Bharat Dogra*
26. High Dams in Quake-Prone Himalaya 244  
*K.S. Valdiya*
27. The Humanitarian Aspect of Tehri Dam Opposition 249  
*Sunderlal Bahuguna*
28. Troubled Politics of Himalayan Waters 252  
*Deepak Gyawali*