

HUMAN RESOURCES OF NORTH-EASTERN INDIA

J. P. SINGH



INTER-INDIA PUBLICATIONS
NEW DELHI-110015

NE
301.3295916
SINJI

MEMU Library
Acc. No. 152379
Acc. by 23/4
Class by J-25/1186
Sub. Heading by
Data. by
Transcribed by

First Published 1982

© J. P. Singh 1981
Jogendra Prasad Singh (b. 1943—)

Published by
M.C. Mittal, Inter-India Publications
W.Z. 1086, Basai Darapur
Bali Nagar
New Delhi-110015 (India)

Printed by
Mohan Printing Corporation
Padam Nagar
Delhi-110007

F232
104

Preface

MAN is the most important factor in the production system. The amount and quality of the production depends greatly on his association with the system, and his association is affected, among others, by his health, education and character. He is an important resource endowed with a variety of skills. Investment in human resource is not less important than the investment on capital.

North-eastern India is a macro-economic region. It is endowed with rich natural resources but the people are economically weak. They have a psychological fear of being lost in course of time. Consequently, they do not like to allow people of other areas of the country to earn a living and help in economic development of the region, though there exists the shortage of labour.

A thorough study of the various aspects of human resources has been made, and the author has identified four levels of human resources in different states and union territories of this region. He has tried to find out certain degree of association between the human resources and the amenities available to the people. The future course of action which may be taken for the development of human resources has also been suggested at the end. Simple statistical and cartographic techniques have been used to study the spatial patterns of the resources.

The present work is largely the outcome of the long stay of the author at Shillong and teaching of geography at the St. Edmund's College. Most of the materials on the economy of the region have been collected from the North-Eastern Council's Library. Various aspects of human resources are based upon the Census of India 1961 and 1971 data.

The author is indebted to Dr. P. Dayal, University Professor and Head of the Department of Geography and to Dr. L.N. Ram, Reader in Geography, Patna University for encouraging him to continue writing and research on new branches of geography. He is thankful to Dr. B. Thakur, Reader in Geography, Delhi Univer-

sity for constructive suggestions in the preparation of the work. The author wishes to thank the following for help in various ways in the completion of the present work : Mr. M.A. Prodhani of the Indian Council of Agricultural Research Library, Shillong; Dr. B. Datta Ray, Mr. G. P. Bhakta, Mr. P. R. Dutta, and Mr. Gajen Bora of St. Edmund's College, Shillong; Mr. R.P. Sahu of Kendriya Vidyalaya, Shillong; Mr. P.C. Phangsho of Union Christian College, Barapani, Meghalaya; Mr. K.C. Chakravorty of Fazl Ali College, Mokokchung, Nagaland; and Mr. Mohsin Ali and Mr. J. N. Wallabhadas of Regional College of Education, Bhopal.

Mrs. Dharmashila, the author's wife, encouraged him to pursue the present research, and the children Ragini, Anita and Bhaskar helped in their own way in its early completion.

Regional College of Education
Bhopal—462013

J. P. SINGH

Contents

PREFACE	v
LIST OF FIGURES	viii
ABBREVIATIONS	x
LIST OF TABLES	xi
1. THE CONCEPT OF HUMAN RESOURCES	1
2. PHYSICAL ENVIRONMENT	9
3. REGIONAL ECONOMICS	22
4. ECONOMIC PROSPECTS AND REGIONAL PROBLEMS	44
5. HUMAN RESOURCES	54
6. ASSAM	68
7. MANIPUR	100
8. MEGHALAYA	113
9. NAGALAND	127
10. TRIPURA	140
11. ARUNACHAL PRADESH	150
12. MIZORAM	160
13. PLANNING FOR HUMAN RESOURCE DEVELOPMENT	170
14. SUMMARY AND CONCLUSION	183
BIBLIOGRAPHY	189
INDEX	198

List of Figures

1. North-eastern India 10
2. North-eastern India : Physiographic Divisions and Drainage 13
3. North-eastern India : Forest Types 25
4. Urbanisation, Literacy, Rural Population and Workers Participation in North-eastern India 1961-1971 38
5. North-eastern India : Administrative Divisions 56
6. Density of Population, Growth of Population, Tribal Population and Literacy in North-eastern India, 1971 59
7. Urbanisation, Distribution of Rural Population, Workers Participation and Non-agricultural Workers in North-eastern India, 1971 62
8. North-eastern India : Levels of Human Resources 66
9. Distribution of Various Administrative Divisions in North-eastern India 73
10. Assam Valley : Characteristics of Population and Levels of Human Resources 74
11. Assam Valley : Amenities and Levels of Amenities 81
12. Assam Hills : Characteristics of Population and Levels of Human Resources 87
13. Assam Hills : Amenities Levels 90
14. Cachar : Characteristics of Population and Levels of Human Resources 93
15. Cachar : Levels of Amenities 96
16. Manipur : Characteristics of Population and Levels of Human Resources 106
17. Manipur : Levels of Amenities 108
18. Meghalaya : Characteristics of Population and Levels of Human Resources 117
19. Meghalaya : Levels of Amenities 124
20. Nagaland : Characteristics of Population and Levels of Human Resources 131
21. Nagaland : Levels of Amenities 138
22. Tripura : Characteristics of Population and Levels of Amenities 143
23. Tripura : Levels of Amenities 147
24. Arunachal Pradesh : Characteristics of Population and Levels of Human Resources 153
25. Arunachal Pradesh : Levels of Amenities 158
26. Mizoram : Characteristics of Population and Levels of Human Resources 163
27. Mizoram : Levels of Amenities 166

Abbreviations

GSI	: Geological Survey of India
ICAR	: Indian Council of Agricultural Research
IDBI	: Industrial Development Bank of India
NCAER	: National Council of Applied Economic Research
NEC	: North-Eastern Council
NEHU	: North-Eastern Hill University
NEICSSR	: North-East India Council for Social Science Research
NEITCO	: North-Eastern Industrial and Technical Consultancy Organization

List of Tables

2.1	Area and Population of North-eastern India, 1971 and 1981	11
3.1	Distribution of Forests in North-eastern India, 1971-72	24
3.2	Forest Types in North-eastern India, 1971-72	24
3.3	Land-utilisation in North-eastern India, 1968-69	27
3.4	Percentage of Irrigation Area to Cultivated Area, 1972-73	28
3.5	Length of Roads in North-eastern India, 1971-72	32
3.6	Installed Capacity of Electric Power by Type of Plant, March 1974	34
3.7	Annual per Capita Consumption of Electricity 1973-74	34
3.8	Energy Sale to Ultimate Consumers, 1973-74	36
3.9	Concentration of Population in Areas of Various Density Ranges in North-eastern India, 1971	37
3.10	Number of Operating Commercial Banks in North-eastern Region, 1973-1974	39
4.1	Extent of Shifting Cultivation in North-eastern India, 1968-69	51
5.1	Area and Population of the (Old) Districts of North-eastern India, 1971	57
5.2	Decadal Growth of Population in North-eastern India, 1941-1971 and 1901-71	60
5.3	North-eastern India : Population Characteristics (1971) and Composite Index	63-64
6.1	Area and Population of Various Police Stations of the Assam Valley 1971	70
6.2	Assam Valley : Population Characteristics (1971) and Composite Index	75
6.3	Assam Valley : Amenities (1970) and Composite Index	83-85
6.4	Area and Population of Various Police Stations of Assam Hills 1971	86
6.5	Assam Hills : Population Characteristics (1971) and Composite Index	88

- 6.6 Assam Hills : Amenities (1970) and Composite Index 91
- 6.7 Area and Population of Various Police Stations of Chachar 1971 94
- 6.8 Cachar : Population Characteristics (1971) and Composite Index 95
- 6.9 Cachar : Amenities (1970) and Composite Index 97
- 7.1 Area and Population of Different Sub-divisions of Manipur 1971 102
- 7.2 Manipur : Population Characteristics (1971) and Composite Index 104-105
- 7.3 Manipur : Amenities (1970) and Composite Index 110-111
- 8.1 Area and Population of Mauzas, Police Stations and Towns of Meghalaya, 1971 115
- 8.2 Meghalaya : Amenities (1970) and Composite Index 121
- 8.3 Meghalaya : Population Characteristics (1971) and Composite Index 125
- 9.1 Population of Regions of Nagaland, 1971 128
- 9.2 Nagaland : Population Characteristics (1971) and Composite Index 133-134
- 9.3 Nagaland : Amenities (1970) and Composite Index 136-137
- 10.1 Population of Different Sub-divisions of Tripura 1971 141
- 10.2 Tripura : Population Characteristics (1971) and Composite Index 145
- 10.3 Tripura : Amenities (1970) and Composite Index 146
- 11.1 Population of Different Sub-divisions of Arunachal Pradesh 1971 151
- 11.2 Arunachal Pradesh : Population Characteristics (1971) and Composite Index 155
- 11.3 Arunachal Pradesh : Rural Amenities (1970) and Composite Index 157
- 12.1 Area and Population of Various Police Stations of Mizoram, 1971 161
- 12.2 Mizoram : Population Characteristics (1971) and Composite Index 165
- 12.3 Mizoram : Amenities (1970) and Composite Index 168
- 13.1 Percentage of People Living in Various Human Resource and Amenity Regions, 1971 171
- 13.2 Literacy and Occupational Structure among Scheduled Caste and Scheduled Tribes Population, 1971 172-173
- 13.3 Distribution of Per Capita Income in States and Union Territories of North-eastern India 177