# CONTENTS

**CHAPTER I: Introduction** 1 - 21

1.1 Role of Infrastructure in Promoting Economic Development 1
   1.1.1 Economic Infrastructure and Economic Development 6
   1.1.2 Social Infrastructure and Economic Development 9

1.2 Statement of the Problem 12

1.3 Objectives of the Study 15

1.4 Hypotheses of the Study 15

1.5 Significance of the Study 16

1.6 Chapter Planning 19

**CHAPTER II: Review of Literature** 22-54

2.1 Review of works based on General Studies on Infrastructure 22

2.2 Review of Some Important Study on Inter-state and Intra-state Regional Disparity 47

2.3 Review of Important Studies conducted in Nagaland 50

2.4 Research gap 53

**CHAPTER III: Profile of Nagaland** 55 - 79

3.1 Historical Background of the Birth of Nagaland 55

3.2 Physical Feature 57

3.3 Climatic Condition 59

3.4 Administrative Set up 60

3.5 Demographic Profile 61

3.6 Overall Economy and Sectoral Contributions 64

3.7 Plan Expenditure in Nagaland 75

**CHAPTER IV: Conceptual Framework and Methodology of the Study** 80-107

4.1 The Concept and Evolution of term Infrastructure 80

4.2 Definition of Infrastructure 82

4.3 Regional Growth Theories, Interrelated Theories and Infrastructure 85

4.4 Measurement Problem of Infrastructure – Different Approaches 86
   4.4.1 The technique of Principal Component Analysis (PCA) 88
   4.4.2 The Technique of Factor Analysis 90

4.5 Data and Methodology 97
   4.5.1 Construction of Composite Index for Economic Infrastructure Development 101
4.5.2 Construction of Composite Index for Social Infrastructure Development 101
4.5.3 Construction of Infrastructure Development Index (IDI) 101
4.5.4 V. Nath’s Method 102

4.6 Classification of Districts 102
4.7 Selection of Indicators 103
4.8 Limitation of the Study 107

CHAPTER V: Data Analysis and Result Discussion 108 - 246

Section I 108 -129

5.1 An Overall Description of the Development of Economic Infrastructure in Nagaland 109
   5.1.1 Transportation 109
   5.1.2 Communication 115
5.2 An Overall Description of Development of Social Infrastructure in Nagaland 120
   5.2.1 Education 120
   5.2.2 Health 123
   5.2.3 Drinking water 126

Section II 130 -151

5.3 District-wise Description of Decadal Growth (in percentage) of Economic Infrastructure on the basis of Selected Indicators 130
5.4 District-wise Description of Decadal Growth (in percentage) of Educational Infrastructure on the basis of Selected Indicators 132
5.5 District-wise Description of Decadal Growth (in percentage) of Health Infrastructure on the basis of Selected Indicators 135
5.6 District-wise (Rural) Description of Decadal Growth (in percentage) of Economic Infrastructure on the basis of Selected Indicators 137
5.7 District-wise (Rural) Description of Decadal Growth (in percentage) of Education Infrastructure on the basis of Selected Indicators 140
5.8 District-wise (Rural) Description of Decadal Growth (in percentage) of Health Infrastructure on the basis of Selected Indicators 142
5.9 District-wise (Urban) Description of Decadal Growth (in percentage) of Economic Infrastructure on the basis of Selected Indicators 145
5.10 District-wise (Urban) Description of Decadal Growth (in percentage) of Education Infrastructure on the basis of Selected Indicators 147
5.11 District-wise (Urban) Description of Decadal Growth (in percentage) of Health Infrastructure on the basis of Selected Indicators

Section III 152 - 180

5.12 District-wise Disparities in Economic Infrastructure: A Discussion with the help of Selected Indicators 152

5.13 District-wise Disparities of Education Infrastructure: A Discussion with the help of Selected Indicators 156

5.14 District-wise Disparities of Health Infrastructure: A Discussion with the help of Selected Indicators 159

5.15 District-wise (Rural) Disparities of Economic Infrastructure: A Discussion with the help of Selected Indicators 162

5.16 District-wise (Rural) Disparities of Education Infrastructure: A Discussion with the help of Selected Indicators 165

5.17 District-wise (Rural) Disparities of Health Infrastructure: A Discussion with the help of Selected Indicators 168

5.18 District-wise (Urban) Disparities of Economic Infrastructure: A Discussion with the help of Selected Indicators 171

5.19 District-wise (Urban) Disparities of Education Infrastructure: A Discussion with the help of Selected Indicators 175

5.20 District-wise (Urban) Disparities of Health Infrastructure: A Discussion with the help of Selected Indicators 177

Section IV 181 - 215

5.21 Application of PCA to find the Relative Weights of the Selected Indicators for District-wise Study for the year 1981 181

5.22 Application of PCA to find the Relative Weights of the Selected Indicators for District-wise Study for the year 1991 185

5.23 Application of PCA to find the Relative Weights of the Selected Indicators for District-wise Study for the year 2001 188

5.24 Application of PCA to find the Relative Weights of the Selected Indicators for District-wise (Rural) Study for the year 1981 192

5.25 Application of PCA to find the Relative Weights of the Selected Indicators for District-wise (Rural) Study for the year 1991 196

5.26 Application of PCA to find the Relative Weights of the Selected Indicators for District-wise (Rural) Study for the year 2001 199
5.27 Application of PCA to find the Relative Weights of the Selected Indicators for District-wise (Urban) Study for the year 1981

5.28 Application of PCA to find the Relative Weights of the Selected Indicators for District-wise (Urban) Study for the year 1991

5.29 Application of PCA to find the Relative Weights of the Selected Indicators for District-wise (Urban) Study for the year 2001

Section V 216 - 245

5.30 District-wise Composite Index of Infrastructural Development using the technique of Principal Component Analysis

5.31 District-wise Composite Index of Infrastructural Development using V. Nath’s Method

5.32 Karl Pearson’s Correlation Coefficient with their level of significance in case of District-wise Study

5.33 District-wise (Rural) Composite Index of Infrastructure Development using the technique of Principal Component Analysis

5.34 District-wise Composite (Rural) Index of Infrastructural Development using V. Nath’s Method

5.35 Karl Pearson’s Correlation Coefficient with their level of significance in case of District-wise (Rural) Study

5.36 District-wise (Urban) Composite Index of Infrastructural Development using the technique of Principal Component Analysis

5.37 District-wise (Urban) Composite Index of Infrastructural Development using V. Nath’s Method

5.38 Karl Pearson’s Correlation Coefficient with their level of significance in case of District-wise Urban Study

5.39 District-wise Infrastructural Development Index (IDI)

5.40 District-wise (Rural) Infrastructural Development Index (IDI)

5.41 District-wise (Urban) Infrastructural Development Index (IDI)

5.42 Classification of Districts in case of District-wise Study

5.43 Classification of Districts in case of District-wise Rural Study

5.44 Classification of Districts in case of District-wise Urban Study

5.45 Observations on Hypotheses

CHAPTER VI: Summary, Conclusions and Suggestions 247 - 262

Bibliography

Appendix