Chapter 1

Introduction

1.1 Background of the Study 1

1.2 History of Plantation in Kerala 6

1.2.1 Influence of the British Raj in Plantations 8

1.2.2 After Independence 9

1.2.3 Trade Unions in Plantations 10

1.2.4 Induction of Plantation Labour Committee and the Tripartite Conferences 11

1.3 Livelihood of Plantation workers (Rubber and Spices) 14

1.4 Employment in Rubber and Spices Plantations 15

1.4.1 Women Workers in Plantation 19

1.4.2 Health Issues of Workers in Rubber and Spices plantations 20

1.5 Statement of the Problem 22

1.6 Literature Review 26

1.7 Objectives of the study 39

1.8 Hypothesis 40

1.9 Scope of the Study 40

1.10 Methodology 41

1.11 Data 41

1.12 Scheme of the Study 42

1.13 Chapterisation Scheme 43

Chapter 2

Economic Importance of Plantation Sector in Kerala

2.1 Contribution of Agriculture to Kerala State GDP 46

2.2 Income Share of Main Agriculture Crops in Kerala 48

2.3 Area-Production-Productivity Trends of Rubber, Black Pepper and Cardamom 50

2.3.1 Natural Rubber 50

2.3.1.2 Relative Contribution of Various States in Terms of Area 50

2.3.1.3 Rubber Holding in India according to Size 51

2.3.1.4 Trends in Area, Production and Productivity of Rubber in Kerala vis-à-vis India 52
2.3.1.5 Compound Annual Growth in Area and Production of Rubber in Kerala 56
2.3.2 Black Pepper 59
  2.3.2.1 Trends in Area, Production and Productivity of Pepper - Kerala vis-à-vis India 59
  2.3.2.2 Compound Annual Growth of Area and Production of Pepper in Kerala 64
2.3.3 Cardamom 67
  2.3.3.1 Share of Various states in terms of Area and Production 67
  2.3.3.2 Trends in Area, Production and Productivity of Cardamom - Kerala vis-à-vis India 68
  2.3.3.3 Compound Annual Growth of Area and Production of Cardamom in Kerala 72

2.4 District Wise Share of Rubber-Black Pepper - Cardamom in Kerala 75
  2.4.1 Rubber 75
  2.4.2 Black Pepper 77
  2.4.3 Cardamom 78

Chapter 3
Plantation Trade- Importance of Natural Rubber and Spices 81-152

3.1 Global Trends in Production and Consumption of Natural Rubber 82
  3.1.1 World Rubber Consumption 83
  3.1.2 Country-Wise Production of Natural Rubber 84
3.2 Natural Rubber- Indian Scenario 86
  3.2.1 Production and Consumption of Natural Rubber 86
  3.2.3 Production and Consumption Growth Rate in India 87
  3.2.4 Type-wise Production and Consumption of Natural Rubber in India 88
  3.2.5 Consumption of Rubber- Sector wise-Product-wise 90
  3.2.6 Consumption of Natural Rubber- Kerala Scenario 91
3.3 Trends in Natural Rubber Price- India and International Market 93
  3.3.1 Domestic and International Price of Natural Rubber from 1992-93 to 2013-14 93
  3.3.2 Domestic Rubber Price and its fluctuations from 1975-76 to 2013-14 94
    3.3.2.1 Domestic rubber price during the Pre-Liberalisation Period (1975-76 to 1990-91) 94
3.8.2.2 Herfindahl-Hirschman Market Concentration Index of Pepper-India-All World-ASEAN
3.8.2.3 Herfindahl-Hirschman Market Concentration Index of Cardamom-India-All World-ASEAN

3.9 Import of Natural Rubber and Pepper to India- A Gravity Model Analysis
3.9.1 Gravity Model – A Brief Understanding
3.9.2 Gravity Model study on Rubber and Pepper Imports from ASEAN to India
3.9.2.1 Results and Discussion – Natural Rubber-Pepper

Chapter 4
Employment and Livelihood of the Workers in Plantation Sector

4.1 Employment in Spices and Large Rubber- Small Rubber Plantation
4.1.1 Employment in Spices Plantations
4.1.1.1 Employment in Large Cardamom Plantations
4.1.1.2 Trends in Employment Growth in Cardamom Plantation
4.1.2 Employment in Rubber Plantations
4.1.2.1 Employment in Large Rubber Plantations
4.1.2.2 Employment in Small Rubber Plantations
4.1.3 Rubber Price Movement and Its implications on Employment

4.2 Understanding Plantation Labour in a Livelihood Framework
4.2.1 Livelihood Assets of Plantation Workers
4.2.1.1 Profile of Workers
4.2.1.2 Physical Assets
4.2.1.2.1 Ownership of house -Type of house -Area of house
4.2.1.2.2 Land Holding Capacity-Sanitary Facilities
4.2.1.2.3 Status of Electrification
4.2.1.3 Natural Assets
4.2.1.3.1 Water Availability (Source- Status- Duration of water availability)
4.2.1.4 Human Assets
4.2.1.4.1 Education Attainment
4.2.1.4.2 Proficiency in Job-related Skills
4.2.1.4.3 Apprenticeship in Rubber Plantation
4.2.1.4.4 Age Classification of Workers on the Basis of Age Category
4.2.1.4.5 Primary and Secondary Employment of workers 183
4.2.1.5 Financial Assets 185
  4.2.1.5.1 Average Daily wage and Average Monthly Income among Workers 186
  4.2.1.5.2 Possession of bank account -Access to Credit 189
  -Insurance Coverage
  4.2.1.5.3 Beneficiaries-Nature-Amount of Government Sponsored Schemes 192
4.2.1.6 Political Assets 195
  4.2.1.6.1 Possession of Voter ID and Voting in General Elections 195
  4.2.1.6.2 Membership in Political Party or Associated Trade Unions 196
4.2.1.7 Social Assets 197

Chapter 5
Income, Consumption, Indebtedness and Nature of Exclusionary Trend among Plantation Workers 201-231

5.1 Trends in Monthly Income and Expenditure of Plantation Workers 202
  5.1.1 Income and Expenditure of Workers-Plantation Sector-wise 203
  5.1.2 Region-wise Trends in Monthly Income of Plantation Workers 206
5.2 Expenditure Pattern of Workers in Rubber and Spices Plantation 208
5.3 Indebtedness among Plantation Workers 216
5.4 Region wise Education Attainment of Plantation Workers 222
5.5 Standard of Living and Social Exclusion among Plantation Workers 223
  5.5.1 Standard of Living of Plantation Workers 223
  5.5.2 Region-wise SLI of Plantation Workers 226
  5.5.3 Income category and SLI 228
  5.5.4 Social Exclusion of Plantation Workers and Determining Factors 229

Chapter 6
Concluding Observations 233-247

6.1 Area, Production and Productivity Implications 234
6.2 Trade Implications 236
6.3 Socio-economic Condition of Plantation Workers 240
6.4 Evaluating Quality of Life and Exclusionary Trend among Plantation Workers 243
6.5 Policy Suggestions 246
6.6 Scope for Further Research 247

References 249-254

Appendix 255-301