

Table of Contents

DECLARATION	I
CERTIFICATE	II
ACKNOWLEDGEMENT	III
CHAPTER ONE	
INTRODUCTION.....	1
1.1 The Problem.....	2
1.2 Indian Planning Process:.....	2
1.3 Planning in Gujarat	6
1.4 Regional Planning Approach	7
1.5 Problems emanating from planning practices in India.....	8
1.6 Scope of the Study	8
1.7 Relevance.....	9
1.8 Aim	10
1.9 Objective	10
1.10 Methodology	10
1.11 Organisation of Work.....	12
CHAPTER TWO	
UNDERSTANDING DEVELOPMENT: A LITERATURE REVIEW	16
2.1 Introduction.....	16
2.1.1 Defining Development and its nature	16
2.1.2 Development Thoughts in Social Sciences	18
2.1.3 Changing Development Thought in Geography	20
2.1.4 The concept of “Spatial Development”	21
2.2 Development Theories and Planning Framework.....	22
2.2.1 Harrod-Domar Theory (1946).....	24
2.2.2 The Two -Gap Theory.....	24
2.2.3 Modernization Theory.....	25
2.2.4 Dependency Theory	26
2.2.5 Marxism and Role of State.....	27
2.2.6 Sustainable Development and Millennium Development Goals	27

2.3.1	Economic Thoughts and Planning in India	28
2.3.2	Mohandas Karamchand Gandhi (1869-1948).....	30
2.3.3	P.C. Mahalanobis	30
2.4.1	Progress of Development Thoughts in Indian Planning	30
2.4.2	Adopting the Development Theories in Practice (1950 -1970)	31
2.4.3	Shift from Theories to Strategies (1970-80)	32
2.4.4	Democratization and Sustainability (1980-90)	33
2.4.5	Deregulation and Globalization (1991-2001)	33
2.5	Human Development in India	37
2.5.1	The Human Development Index - going beyond income	37
2.6	Regional Planning	38
2.6.1	Region and Regional Studies in Geography	40
2.6.2	Globalisation and Regional disparities	41
2.6.3	Regional Planning as a Subject of Inquiry amongst Indian Geographers.....	44
2.7	Summery	45
2.8	Relevance of the study	46

CHAPTER THREE

REGIONAL PROFILE OF GUJARAT	47	
3.0	Evolution of the State.....	47
3.1	Physical Characteristics of the State	48
3.1.1	Location	48
3.1.2	Climate.....	48
3.1.3	Geology	50
3.1.4	Drainage.....	50
3.1.5	Soil	50
3.2	Regional Characteristics of Gujarat	51
3.2.1	Regional Classification	51
3.2.2	Other Regional Classifications.....	52
3.3	Population and Demography.....	53
3.3.1	Sex Ratio.....	56
3.3.2	The Gender Discrimination.....	59

3.3.3 Literacy	60
3.3.4 Spatial Patterns of Literacy (1961-2001)	63
3.3.5 Scheduled Tribes: Regional Demographic Changes.....	64
3.3.6 Scheduled Caste (SC): Regional Distribution.....	68
3.4 Development Trends in Gujarat.....	71
3.4.1 Economic Growth	71
3.4.2 Agricultural Development.....	73
3.4.3 Development in the Mining Sector	74
3.4.4 Industrial Development.....	76
3.4.5 Transport and Communication.....	77
3.4.6 Urban Development	78
3.5 Regional Development.....	80
3.6 Human Development	82
3.7 Development Concern for State.....	83
3.8 Conclusion	85

CHAPTER FOUR

REGIONAL DISTRIBUTION OF INDUSTRIES IN GUJARAT AND POLICY CHANGES..86

4.1 Introduction.....	86
4.1 Industrial Development: Policy Perspective	86
4.1.1 Industries in Backward Area.....	86
4.1.2 Financial and Institutional Support	87
4.1.3 Support Infrastructure Development.....	88
4.1.4 Investment Summits (2003-2011).....	89
4.2 Changes in Industrial Growth (1960-2008)	92
4.2.1 Growth in Factory Sector	93
4.2.2 Regional Distribution.....	94
4.3 Progress of Gujarat Industrial Development Corporation (GIDC)	95
4.3.1 Regional Distribution of GIDC	95
4.4 Regional Localisation of Industries	96
4.5 Medium and Large Scale Industries.....	105
4.5.1 Employment in Large and Medium Industries.....	106

4.5.2 Employment Prospects.....	106
4.5 Small Scale Industries (SSI) in Gujarat	108
4.5.1 Growth of SSI in Gujarat	108
4.5.2 Regional Distribution of SSI (1985-2006).....	110
4.6 Micro, Small and Medium Enterprise (MSME) in Gujarat	111
4.7 Towards 21st Century Industrial Gujarat: A New Approach.....	113
4.7.1 Special Economic Zones in Gujarat.....	114
4.7.2 Special Investment Region (SIR) in Gujarat.....	116
4.8 Impacts of Present Industrial Growth Patterns.....	118
4.9 Summery of Issues Concerning Industries.....	121
4.10 Conclusion	124

CHAPTER FIVE

REGIONAL DEVELOPMENT LAND UTILIZATION AND AGRICULTURE.....125

5.1 Operational Land Holding	125
5.1.1 Population Pressure and Land Availability.....	127
5.1.2 Land Availability for Agriculture	128
5.1.3 Wasteland and Salinity Ingress in the State	129
5.2 Regional Water Resources and Development Status	131
5.2.1 Regional Exploitation of Water Resources in Gujarat.....	133
5.2.2 Regional Changes in Irrigation and Net Sown Area.....	136
5.3 Land use Pattern.....	139
5.3.1 Changes in Land Use Pattern (1984-2004).....	141
5.3.2 Regional Changes in Land Utilization	144
5.4 Regional Land Availability and Development Projects.....	149
5.4.1 Land Acquisition (LAQ) and Displacement by Development Projects	149
5.4.2 Development Phases and LAQ in the State	150
5.4.3 Regional Characteristics of Land Acquisition	153
5.4.4 Land Acquisition and Families Displaced/Affected	156
5.4.5 Impact of Land Acquisition	157
5.4.6 Reduction of Common Property Resources (CPR) in the State.....	161
5.5 Agricultural Development.....	162

5.5.1 Changes in Agricultural Production.....	163
5.5.2 Field Irrigation and Peoples Participation in Schemes	164
5.5.3 Commercial Crops and Horticulture	165
5.5.4 Agriculturally Lagging Regions.....	167
5.6 Regional Development Change and Impact on Land and Agriculture	167
5.6.1 Impact of Infrastructure and Industrial Development	168
5.7.1 Central Gujarat: A Case of Water and Land Pollution of Villages near Padra	170
5.7.2 South Gujarat: Case Study of Water and Land Pollution in Villages near Ankleshwar Region	174
5.7.3 Saurashtra: Case Study of Socio-Economic Impacts on the Villages in Jamnagar Region	177
5.7.4 North Gujarat: Case of Land Pollution due to Oil Exploration in Mehsana Region.....	180
5.8 Summery of Issues in Land and Agriculture practices in Gujarat	183
5.8.1 Status of Land Utilization and Degradation.....	183
5.8.2 Role of the State in Environment Pollution	184
5.8.3 State transferring its Duties to the Private Sector	184
5.8.4 Regional Land Utilization and Agriculture.....	185
5.8.5 Reasons for the rapid conversion of Agricultural Land for Non Agricultural purpose	185

CHAPTER SIX

REGIONAL PATTERN OF URBANISATION AND URBAN EMPLOYMENT	187
6.0 Urbanisation and Regional Development	188
6.1 Urbanisation in India.....	189
6.2 Trend of Urbanisation in Gujarat (1961-2010).....	191
6.3 Region-Wise Change in Urbanisation.....	193
6.3.1 Block-Wise Urbanisation	194
6.3.2 Urbanisation in 1961	196
6.3.3 Urbanisation in 1971	198
6.3.4 Urbanisation in 1981	200
6.3.5 Urbanisation in 1991	202
6.3.6 Urbanisation in 2001	204
6.3.7 Urbanisation	206
6.4 Deurbanisation	206
6.5 Primacy of Region	207

6.6	Regional Development and Concentric Urbanisation.....	210
6.6.1	Spatial Distribution of Cities.....	214
6.7	Perspectives to Future Urbanisation in Gujarat	215
6.8	Regional Urban Challenges in Gujarat	217
6.9	Urban Poverty and Employment.....	222
6.9.3	Educational Levels and Urban Employment in Gujarat	225
6.9.4	Industrial Investment, Urbanisation and Employment.....	226
6.9.5	Over employment and shortage of labour in Urban Gujarat	229
6.9.6	Employment and Urbanisation Scenarios for 2040 AD.....	231
6.9.7	Spatial Threats and Opportunities.....	232
6.10	Summery	233

CHAPTER SEVEN

GEOGRAPHICAL ANALYSIS OF DEVELOPMENT OF GUJARAT	234	
7.1	Regional Sub Division	234
7.2	Demographic Profile of Geographical Regions	235
7.2.1	Growth Rate	237
7.2.2	Sex Ratio	238
7.2.3	Distribution of Scheduled Caste Population	239
7.1.4	Distribution of Scheduled Tribe Population	240
7.1.5	Changing Literacy Rates	241
7.1.6	Distribution of Schools (2001-2008)	242
7.1.7	Changes in Employment and Work Participation.....	245
7.2	Block (Taluka) Development Index (2001-2008).....	248
7.2.1	Taluka Development Index (Composite Index).....	252
7.2.2	Comparison of the Specific Indicators (2001-2008)	252
7.3	Incidence of Regional Poverty in Gujarat.....	261
7.3.1	Regional Poverty Scenario.....	262
7.4	Human Development Index	263
7.5	Geographical Analysis of Regions: Methodological Note.....	265
7.6	Plains of Mainland Gujarat	266
7.6.1	Physiographic Characteristics	267

7.6.2 Nature of Sub Regional Development	267
7. 6.3 General Notes on Development Issues	268
7. 6.4 Social and Economic Concerns.....	271
7.6.5 Backward Sub Region: North Gujarat	273
7.7 Coastal Region of Gujarat.....	276
7.7.1 Demographic Profile.....	276
7.7.2 Development Issues: Coastal Gujarat	278
7.7.3 Poverty in Coastal Areas.....	280
7.8 The Eastern Region – Tribal and Forest Areas of Gujarat.....	280
7.8.1 Poverty in Tribal Areas	283
7.8.2 Development Perspectives for Eastern Region	284
7.8.3 Tribal Migration.....	286
7.8.4 Changes in Forest Cover and Livelihood.....	287
7.8.5 Agrarian and Industrial Development.....	290
7.8.6 Situation of APMC in Tribal Areas	291
7.8.7 Struggle for Land Rights in Tribal Areas.....	294
7.9 Kachchh – Development Trends.....	301
7.9.1 Regional Linkages	301
7.9.2 Development Scenario of Kachchh.....	302
7.9.3 General Issues in Region.....	303
7.10 Saurashtra.....	308
7.10.2 Ground Water Depletion in Saurashtra.....	311
7.10.3 Damage of Green Belt on Saurashtra Coast.....	312
7.10.4 Status of Water Supply in Saurashtra	314
7.10.5 Industries in Saurashtra.....	316
7.10.6 Salt Cultivation	319
7.10.7 Fishing Industry	321
7.10.7 Migration of Industrial Labour	323
7.11 Summery	323

CHAPTER EIGHT

SPATIAL ANALYSIS OF DEVELOPMENT EFFORTS DURING THE PLAN PERIODS (1951-2007).....	327
8.1 Introduction.....	327
8.1.2 Methodology	329
8.2 Planning Perspectives – National Plan through Various Stages	330
8.2.1 Phase – I: Nehruvian Thoughts	330
8.2.2 On Dealing with Spatial Inequalities	333
8.2.3 Location of Industries	340
8.3 Phase –II Transition in Planning Mechanism and Thought (Minimum Needs, Poverty) ...	341
8.3.1 The Poverty Removal Agenda	344
8.4 Phase – III: Approaching for the Rolling Plan and Consultation with State (1978)	345
8.4.1 Minimum Needs and 20 Point Programme (Sixth Plan Agenda)	346
8.4.2 Subsidising Development	347
8.5 Phase IV Modernising and Technology Focus in Plan	351
8.6 Phase –V: Indicative Planning and Liberalization of Economy	354
8.7 Paradigm Shift in Planning Visions (First to Tenth Plan).....	361
8.7.1 Scope of Rural Participation: Spatial Context	361
8.7.2 National Extension Movement (1955 onwards) and Role of Family in Village Development	362
8.7.3 Perspectives of Balanced Development.....	363
8.7.4 Food Policy – To Reach the Rural Mass (Third Plan)	364
8.7.5 Targeting Poverty in Fifth Plan.....	365
8.7.6 Changing Centre-State Relations and Development Impact.....	367
8.7.7 Family Planning Program and Central Assistance	368
8.7.8 Role of Strong Leadership	368
8.7.9 Reorientation of Planning Commission	370
8.7.10 Emergence of Market Oriented Planning Mechanism	371
8.7.11 Party Politics at the Grass Root affecting Development Programs.....	373
8.7.12 Rapid Economic Growth (Ninth Plan - 50th Year of Independence)	374
8.8 Regional Development Planning Plan Perspectives	375
8.8.1 Agriculture and Rural Development	376

8.8.2 Industrial Development – Plan Periods.....	378
8.8.3 Poverty Alleviation –Through Plan Period.....	378
8.8.4 Regional Backwardness and Poverty Alleviation in Gujarat.....	384
8.8.5 Spatial Coverage of Development Programmes	388
8.8.6 Decentralisation in Gujarat	390
8.8.7 Development of Geographically Backward Areas.....	391
8.9 Twenty Point Program – Rural Development Initiatives –Regional Implications.....	392
8.10 A Critique of the Present Development Model.....	393
8.11 Planning Through Development Sectors – Current Trends	394
8.12 Tribal Area Development Efforts through Central Plans.....	399
8.13 Tribal Development: Policy Perspectives of Central Government	400
8.14 Tribal Development in Gujarat	404
8.15 Summery	406

CHAPTER NINE

REGIONAL DEVELOPMENT ISSUES: POLICY PERSPECTIVES.....408

9.1 Regional Orientation of Development Planning in Gujarat.....	410
9.1.2 Decentralised Planning and its Assessment	410
9.1.3 Assessment of requirement	411
9.1.4 Urban Area Planning.....	414
9.1.5 Industrial Area Planning	416
9.1.6 Emerging Trends for Regional /Spatial Planning in Gujarat	417
9.2 Decentralised Planning and Regional Plan	418
9.2.1 Port based Development	420
9.2.2 Tourism based Development	421
9.2.3 Industrial Area Planning	422
9.3 Tribal Plans – Scope for Regional Plans.....	423
9.4 Community Perspectives of Development Planning.....	423
9.5 Climate Change Perspectives and Regional Development	435
9.5.1 Climate Change and Gujarat	436
9.5.2 Vulnerability risk of Coast to Storm Events	438
9.5.3 Vulnerability of Climate Change	439

9.5.4 Conceptualization of Climate Change and Development Relationships	447
9.5.5 Spatial relationships – Regional Scale	448
9.6 Impacts on Regional Development	448
9.6.1 Agricultural Changes	451
9.6.2 Natural Disasters	451
9.6.3 Coastal Urbanisation	452
9.7 Need for climate Sensitive Regional Planning in Gujarat	452
9.7.1 Scope for Adaptation	453
9.7.2 Scope for Mitigation	454
9.8 Spatial Development Issues in Gujarat	454
9.8.1 Change towards the Urban Systems in Gujarat.....	455
9.8.2 Changing Role and Function of Rural Gujarat	458
9.8.3 Role of Transport and Communication Networks	462
9.8.4 Environmental Concerns and Issues for Regional Approach.....	466
9.9 Approach towards the Delineation of Sub Regions (Regional Typologies)	469
9.9.1 New Assumptions for Regional Development Perspectives.....	471
9.9.2 Role of Transportation (Intra-Regional Movement)	471
9.9.3 Classification of Spatial Regions by Activities.....	472
9.9.4 Proposed Scalar Regional Development Model	475
9.10 Geographical / Regional Development Matrix (Dominant Characteristics)	480
9.11 Conclusion	485
CHAPTER TEN	
SUMMERY, SCOPE AND PERSPECTIVES OF REGIONAL DEVELOPMENT PLANNING IN GUJARAT	487
A. Nature of Regional Development and Potentials	492
B. Key Findings – Spatial Diversity, Geography and Migration Trends.....	495
C. National and State Planning, Constraints to Development and Policy Implications	499
Limitations of the Study.....	512
BIBLIOGRAPHY	513
SUBJECT INDEX.....	530