

Contents

	Page no.
Acknowledgements.....	i
List of Tables.....	ii
List of Figures.....	iii-iv
List of Plates.....	v-vi
Abbreviations.....	vii-viii
Abstract.....	ix
Contents.....	x-xii
 Chapter-I:	
1 Foundation of the Research	1-21
1.0 Introduction.....	2-3
1.1 About the study area.....	4-11
1.1.1 Physiographic settings of the study area.....	4-7
1.1.2 Late Holocene Geomorphology of the Study Area.....	7
1.1.3 Relationship with geology and physiography.....	7-8
1.1.4 Climatic characteristics	8-9
1.1.4.1 Rainfall.....	8-9
1.1.4.2 Temperature.....	9
1.1.5 Drainage and water body.....	9
1.1.6 Soil.....	9
1.1.7 Vegetation.....	10
1.1.8 Communication and transport.....	10-11
1.2 Literature Review.....	11-16
1.3 Research Problems or Gaps.....	17
1.4 Objectives.....	18
1.5 Methods and materials of the study.....	18-20
1.6 Research Design.....	21

Chapter-II:

2.0 Beach Stage and Dune Stage Dynamism	22-83
2.1 Concept.....	23-26
2.2 Analysis.....	26-27
2.2.1 Sample site selection.....	27-31
2.2.2 Estimation of Sediment Transportation Budget of Sampling Areas.....	31-41
2.2.3.1 Sieve analysis.....	41-42
2.2.3.2 Gradistat analysis.....	43-46
2.2.3.3 Soil Stratigraphy collection.....	46-47
2.2.4 Estimation of wave hydrodynamics.....	47-51
2.2.5 Estimation of Aerodynamics.....	52
2.2.6 Estimation of Bioturbation influences on the beach morphology.....	52-54
2.2.7 Dune floral community & Dune adjustment.....	55
2.2.8 Micro geomorphic features.....	56-58
2.2.9 Estimation of Beach-Dune Morphodynamism.....	59
2.3 Outcome.....	60-81
2.3.1 Sample site selection.....	60
2.3.2 Estimation of Sediment Transportation Budget.....	60-63
2.3.3 Sediment analysis.....	63-68
2.3.4 Estimation of wave hydrodynamics.....	68-70
2.3.5 Estimation of Aerodynamism.....	70-72
2.3.6 Estimation of Bioturbation influences on the beach Morphology.....	72-75
2.3.7 Dune floral community & Dune adjustment.....	76
2.3.8 geomorphic features.....	77-79
2.3.9 Estimation of Beach-Dune Morphodynamism.....	79-81
2.4 Discussion.....	82-83

Chapter-III:

3.0 Relationship between physical and cultural aspects of the Coastal society	84-101
3.0 Concept.....	85-87
3.1 Analysis.....	88-91
3.1.1 Estimation of Decadal Population Change.....	88-90
3.1.2 Change detection analysis through LULC.....	90-91
3.1.3 Estimation of Livelihood Diversity Indices	92-94
3.1.3.1 Simpson Index.....	92
3.1.3.2 Herfindahl-Hirschmann Index (HHI).....	92-93
3.1.3.3 Ogive Index.....	93
3.1.3.4 Entropy Index.....	93-94
3.1.4 Estimation of Hotel survey.....	94
3.2 Outcomes.....	95-99
3.3 Discussion.....	99-101

Chapter-IV:

4.0 Sustainability of coastal development under vulnerability	102-117
4.0 Concept.....	103-104
4.1 Analysis.....	105-111
4.2 Outcome.....	111-113
4.3 Discussion.....	113-114
4.4 Major Findings of the Research.....	115-116
4.5 Recommendations.....	116
4.6 Conclusion.....	117
References	118-121
Appendices & Annexure	122-140