



List of Plates:

Plate 1: Vrindavan Eco-city plan.....	7
Plate 2: Eco-city plan Kottayam.....	8
Plate 3: Koneru pond of Tirupati before and after implementation of Eco-city Program.....	9
Plate 4: Map showing the locations of Eco-city project implementation in Puri..	10
Plate 5: Rudra Sagar Lake of Ujjain.....	11
Plate 6: Residential View of the Magarpatta City.....	12
Plate 7: Eco-city of Lavasa.....	12
Plate 8: Map showing distribution of different plants according to their size.....	18
Plate 9: Contour map of Gujarat.....	19
Plate 10: Floristic map of Wadhvana Reservoir.....	20
Plate 11: Map showing study area.....	39
Plate 12: Map showing Baroda state in 1909.....	42
Plate 13: Transportation network of the Vadodara city.....	65
Plate 14: Sursagar lake of Vadodara city.....	67
Plate 15: Map showing different water bodies of Vadodara city.....	68
Plate 16: Map showing different Gardens of Vadodara city.....	71
Plate 17: Photographs of different Gardens of Vadodara city.....	72
Plate 18: Map showing different Greenbelts of Vadodara city.....	75
Plate 19: Photographs of different Greenbelts of Vadodara city.....	76
Plate 20: Map showing the Population density of different wards in the year 1991 and 2001.....	80
Plate 21: Contour map of Vadodara city.....	81
Plate 22: Slope map of Vadodara city.....	82
Plate 23: Map showing the land use of year 1880.....	87
Plate 24: Map showing the land use of year 1960.....	87
Plate 25: Map showing the land use of year 1980.....	88
Plate 26: Map showing the land use of year 1996.....	88
Plate 27: Map showing the land use of year 2000.....	89
Plate 28: Map showing the land use of year 2006.....	89

List of Plates (Cont.):

Plate 29: Map showing the land use of year 2009.....	90
Plate 30: Lake with vegetation growth on the periphery.....	93
Plate 31: Station road of the city.....	97
Plate 32: NDVI map of Year 2000.....	104
Plate 33: NDVI map of Year 2007.....	104
Plate 34: NDVI map of Year 2009.....	104
Plate 35: Map showing total vegetation and percent of total vegetation in different years.....	107
Plate 36: Map showing Low, Moderate and high vegetation of different years...	107
Plate 37: Ward wise Per capita vegetational status in different years.....	108
Plate 38: Map showing temperature profile of Vadodara city.....	109
Plate 39: Map showing the potential sites for Urban Green Space.....	110
Plate 40: Map showing NDBI of Vadodara city	116
Plate 41: Map showing Building density of Vadodara city.....	116
Plate 42: Suitability map of Ward No.1 based on different models.....	123
Plate 43: Lake showing the eutrophication due to <i>Eicchornia crassipes</i> (Mart.) Solms.....	118
Plate 44: Map showing Existing situation of Ward No. 1.....	123
Plate 45: Map showing Eco-ward plan of Ward No. 1.....	123
Plate 46: Photograph showing the unorganised parking of vehicles.....	122
Plate 47: Suitability map of Ward No.5 based on different models.....	128
Plate 48: Map showing existing condition of Ward No. 5.....	128
Plate 49: Map showing Eco-ward plan of Ward No. 5.....	128
Plate 50: Suitability map of Ward No.9 based on different models.....	133
Plate 51: Map showing existing condition of Ward No. 9.....	133
Plate 52: Map showing Eco-ward plan of Ward No. 9.....	133
Plate 53: Conceptual drawing of Eco-friendly house.....	160
Plate 54: Map showing the location of different trees with their name.....	190
Plate 55: Photographs showing the health status of the trees.....	192
Plate 56: Photograph showing replantatation of some trees.....	193