LIST OF FIGURES

Figure 1.1	The general structure of polyp and underlying		
	skeleton	29	
Figure 1.2	Growth forms of hermatypic corals	30	
Figure 1.3	Types of Reefs	30	
Figure 1.4	Distribution of warm and cold water reefs in		
	the world	31	
Figure 1.5	Interrelationship of associated ecosystem	32	
Figure 2.1	Coral reef regions of India	42	
Figure 2.2	Location map of the study area	43	
Figure 2.3	Distributions of Reefs in Gulf of Kachchh	44	
Figure 3.1	Location map of Pirotan reef and Tidal		
	stations with hydrodynamics of Gulf of		
	Kachchh	74	
Figure 3.2	Flow chart of Methodology	75	
Figure 3.3	RESOURCESAT IRS P6 LISS IV images of		
	sequential years 2004-2007	76	
Figure 3.4	Spectral signature of selected reef substratum	77	
Figure 3.5	IRS P6 LISS IV classified images of years		
	2004 to 2007 showing substrate occupancy	78	

Figure 3.6	Tread of different substrates over the period	
	of 2004-2007	79
Figure 3.7	Change detection: Core region 2004 vs 2005	80
Figure 3.8	Change detection: Core region 2005 vs 2006	81
Figure 3.9	Change detection: Core region 2006 vs 2007	82
Figure 3.10	Change detection in flowline condition 2004	
	vs 2005	83
Figure 3.11	Change detection in flowline condition 2005	
	vs 2006	84
Figure 3.12	Change detection in flowline condition 2006	
	vs 2007	85
Figure 3.13	Tidal levels at Okha, Kandla and Navlakhi	
	during RESOURCESAT IRS P6 pass time	87
Figure 3.14	Future scenario of Pirotan reef	88
Figure 4.1.1	Classification map of Paga reef: year 1997	103
Figure 4.1.2	Classification map of Paga reef: year 2002	104
Figure 4.1.3	Classification map of Paga reef: year 2008	105
Figure 4.1.4	Graph showing SST of summer months in	
	Gulf of Kachchh from 1996 to 2008	106
Figure 4.2.1	Location map of the areas of Palythoa habitat,	
	along with Hydrodynamics of Gulf of	
	Kachchh	124

Figure 4.2.2	Chemical structure of Palytoxin	125
Figure 6.1	Location of Bural Chank Reef complex	152
Figure 6.2	Tidal contours with Eco-geomorphologically	
	classified map of Bural Chank Reef	153
Figure 7.1	Flow chart showing various threats effecting	
	on Gulf of Kachchh Reefs	166