

# INDEX

<b>Chapter No.</b>	<b>Title</b>	<b>Page No.</b>
	<b>Introduction</b>	<b>1</b>
<b>Chapter 1</b>	<b>Population Estimation and Distribution</b>	<b>4</b>
1.1	Population Estimation and Distribution of Flamingos during Non-breeding Season	4
1.2	Population Estimation and Distribution of Flamingos during Breeding Season	20
1.3	Population Estimation and Distribution of Flamingos during Post-breeding Season	28
1.4	Seasonal Variation in Distribution of Flamingos on Different Sites of Gujarat	36
1.5	Distribution of Flamingos in the Gulf of Khambhat	39
<b>Chapter 2</b>	<b>Habitat Preference</b>	<b>46</b>
2.1	Habitat Preference of Flamingos during Non-breeding Season (January 2003)	48
2.2	Habitat Preference of Flamingos during Breeding Season (October 2003)	57
2.3	Habitat Preference of Flamingos during Post-breeding Season (May-June 2004)	62
<b>Chapter 3</b>	<b>Food and Feeding Ecology</b>	<b>69</b>
3.1	Feeding Methods	71
3.2	Feeding Areas	76
3.3	Analysis of Gut Content	82
3.4	Analysis of Food of Greater Flamingos in the Environment	84
3.4A	Analysis of Food by Ground Truth Studies	84
3.4B	Analysis of Food and Habitat Evaluation by Remote Sensing	90
<b>Chapter 4</b>	<b>Breeding Ecology</b>	<b>94</b>
4.1	Nesting History	94
4.1A	Nesting History of Lesser Flamingos	95
4.1B	Nesting History of Greater Flamingos	103
4.2	Breeding Sites	112
4.3	Nesting Season	117
4.3A	Nesting Season of Lesser Flamingos	117
4.3B	Nesting Season of Greater Flamingos	118
4.4	The Nests and Nesting Activity	121
4.4A	The Nests and Nesting Activity of Lesser Flamingos	123

<b>Chapter No.</b>	<b>Title</b>	<b>Page No.</b>
4.4B	The Nests and Nesting Activity of Greater Flamingos	126
4.5	Clutch Size and Egg Morphometric	131
4.5A	Clutch Size and Egg Morphometric of Lesser Flamingos	132
4.5B	Clutch Size and Egg Morphometric of Greater Flamingos	134
4.6	Factors Regulating Breeding of Flamingos and Habitat Evaluation through Remote Sensing	138
4.7	Colony Composition of Greater Flamingos	147
4.8	Chick Mortality and Habitat Evaluation through Remote Sensing	151
4.8A	Lesser Flamingos	152
4.8B	Greater Flamingos	156
4.9	Breeding Success	159
4.9A	Breeding Success of Lesser Flamingos	159
4.9B	Breeding Success of Greater Flamingos	163
<b>Chapter 5</b>	<b>Behavior</b>	<b>166</b>
5A	Egocentric Behavior	167
5B	Social Behavior	169
<b>Chapter 6</b>	<b>Conservation and Management</b>	<b>176</b>
6.1	Threats to Flamingos	176
6.2	Threats to Habitats	179
6.3	Threats to Nesting Colony	180
6.4	Management Options	184
	<b>Bibliography</b>	<b>188</b>