CONTENTS

General introduction 1-7
Review of literature 8-21
Aim and scope of study 22-23
Description of the study site 24-26

Chapter 1 27-52
Ecology and radioecology of seagrasses *H. pinifolia* (Miki) Hartog and *S. isoetifolium* (Asch.) Dandy along the Kanyakumari coast
  1.1 Introduction
  1.2 Materials and Methods
  1.3 Results
  1.4 Discussion

Chapter 2 53-90
Isolation and characterization of biofilm forming bacteria from *Halodule pinifolia* (Miki) Hartog and *Syringodium isoetifolium* (Asch.) Dandy blades
  2.1 Introduction
  2.2 Materials and Methods
  2.3 Results
  2.4 Discussion
Chapter 3 91-133

Seasonal variations of phyllosphere bacterial communities of seagrass *H. pinifolia* (Miki) Hartog and *S. isoetifolium* (Asch.) Dandy

3.1 Introduction
3.2 Materials and Methods
3.3 Results
3.4 Discussion

Chapter 4 134-159

Seagrass-bacterial interaction and the antipathogenic activities of *H. pinifolia* (Miki) Hartog and *S. isoetifolium* (Asch.) Dandy

4.1 Introduction
4.2 Materials and Methods
4.3 Results
4.4 Discussion

Chapter 5 160-192

Mosquito larvicidal and insect repellent activity of seagrass extracts and their phytochemical analysis

5.1 Introduction
5.2 Materials and Methods
5.3 Results
5.4 Discussion

Summary 193-196

References 197-245