

## LIST OF PLATES

Plates No.	Title
1	Sampling stations (1 to 4)
2	Sampling stations (5 to 8)
3	Pure cultures of some actinomycetes isolated from Muthupet mangrove sediments and waters
4	Some soluble pigments producing marine actinomycetes
5	Some pigments producing marine actinomycetes
6	Some pure culture of marine actinomycetes
7	Pure cultures of selected actinomycetes isolated from Muthupet mangrove sediment and waters (Actinomycetes isolated agar)
8	Light microscopic views of some selected isolates
9	Antimicrobial efficacy of some selected actinomycetes isolates using primary screening methods (Modified Nutrient agar medium)
10	Secondary screening of selected mangrove actinomycetes isolates against some pathogens
11	Antimicrobial activity of crude extracts from chosen actinomycetes strains (+18 and +50) against chosen bacterial and fungal pathogens
12	Antimicrobial activity of crude extracts from chosen actinomycetes strain (+118) against bacterial and fungal pathogens
13	Solution of silver nitrate (1mM) before (A) and after (B) exposure to the culture supernatant of actinomycetes +18
14	Solution of silver nitrate (1mM) before (A) and after (B) exposure to the culture supernatant of actinomycetes +50
15	Solution of silver nitrate (1mM) before (A) and after (B) exposure to the culture supernatant of actinomycetes +118
16	SEM image of silver nanoparticles (+18 actinomycetes)
17	SEM image of silver nanoparticles (+50 actinomycetes)
18	SEM image of silver nanoparticles (+118 actinomycetes)
19-21	Pictures showing the mass cultivation of chosen actinomycetes
22-24	Pictures showing the dried flakes of chosen actinomycetes
25- 27	Pictures showing the formulated feed supplemented with chosen actinomycetes strain
28-30	Pictures showing the experimental set up larvae rearing of <i>Penaeus monodon</i> PL 15stage
31-33	Pictures showing experimental set up of different treatments
34-36	Pictures showing the harvested <i>P. monodon</i> from different treatment with actinomycetes strain +18
37-39	Pictures showing the harvested <i>P. monodon</i> from different treatment with actinomycetes strain +50
40-42	Pictures showing the harvested <i>P. monodon</i> from different treatment with actinomycetes strain +118
43	Pictures showing the harvested <i>P. monodon</i> in control