

LIST OF FIGURES

<u>Fig.No.</u>	<u>Title</u>	<u>Page</u>
1.	High-rate aerobic pond	4
2.	Protein used and remaining in the experiment with mixed algae	64
3.	Aminonitrogen used and remaining in the experiment with mixed algae...	64
4.	Total sugar used and remaining in the experiment with mixed algae	65
5.	Free sugar used and remaining in the experiment with mixed algae	65
6.	Volatile acids used and remaining in the experiment with mixed algae	67
7.	Biochemistry of algal-bacterial symbiosis in high-rate aerobic oxidation pond system (Modified after Oswald and Gotaas)	70
8.	Total bacterial oxidation of organic matter (Modified after Porges)....	75
9.	Bio-oxidation of sewage organic matter in high-rate aerobic oxidation pond using <u>Scenedesmus obliquus</u> and <u>Microcystis aeruginosa</u>	80
10.	Bacterial oxidation of organic matter in using <u>Scenedesmus obliquus</u>	81
11.	Total bio-oxidation of organic matter using <u>Scenedesmus obliquus</u>	81

(ii)

<u>Fig.No.</u>	<u>Title</u>	<u>Page</u>
12.	Bacterial oxidation of organic matter using <u>Microcystis aeruginosa</u>	89
13.	Total bio-oxidation of organic matter using <u>Microcystis aeruginosa</u>	89
14.	Different phases of bacterial oxidation in high-rate aerobic oxidation pond	91
15.	Algal photosynthesis using <u>Scenedesmus obliquus</u>	101
16.	Algal-bacterial symbiosis using <u>Scenedesmus obliquus</u>	101
17.	Algal photosynthesis using <u>Microcystis aeruginosa</u>	102
18.	Algal-bacterial symbiosis using <u>Microcystis aeruginosa</u>	102
19.	Biochemistry of algal-bacterial symbiosis in high-rate aerobic pond (Modified after Stumm)	105
20.	High-rate aerobic pond for algal production.	130
A.	Dark brown filaments resembling <u>Leptothrix ochracea</u> (Photograph).	59
B.	Rotifer <u>Lucane</u> Spp. in the algal sample. (Photograph)	60