

CHAPTER VIIIRECOMMENDATION FOR FUTURE WORK

The present study was only the preliminary investigation of the capability of the rate of oxygen transfer for the designed multiple tray aerator using gravel as packing media, therefore the following suggestion and recommendation might be needed for future work.

1. The experiment should be performed with various sizes and types of packing media instead of 1-3 in. size gravel.
2. The feeding water should be directly pumped and sprayed or distributed uniformly over the body of packing media thus avoiding the use of the constant head tank in order to determine the actual rate of oxygen transfer per unit of power consumption.
3. A full - scale aeration unit should be installed for evaluating the treatment cost.
4. The aeration system should be experimented with wastewater for the determination of B O D reduction, because it acts as a trickling filter as well as an aeration unit.