
Objective of research work

After going through thorough literature survey and identifying the challenges in bioremediation process, following objectives were decided to achieve in current research work-

1. To evaluate performance of batch and continuous packed bed bioreactors.
2. To isolate and identify specific microbes for pesticide degradation
3. To estimate growth and inhibition kinetic parameters.
4. To establish microbial biodegradation pathway of malathion.
5. To identify the proteins responsible for biodegradation of Malathion and to carry out their detailed proteomic study.
6. To assess the efficacy of integrated aerobic treatment plant (IATP) or hybrid bioreactor for the treatment of mixed pesticides.
7. To study Hybrid bioreactor system for removal of atrazine