Objective:

1. To study the degradation of selected Active Pharmaceutical Ingredients (API’S) in water by using $\text{H}_2\text{O}_2$/Fe$^{+2}$.
2. To establish the various operating condition for the Fenton oxidation using $\text{H}_2\text{O}_2$/Fe$^{+2}$ on pure API’S in laboratory.
3. To establish the process applicable to waste water treatment plant in pharmaceutical manufacturing industries.
4. The established process should be utilized as pre-treatment to activated sludge process thereby making the biodegradability easy in aeration tank of the activated sludge process.
5. To minimize the high COD load on the activated sludge process i.e. biological treatment plant.
6. To prevent in minimizing land and water pollution.
7. To reduce the asset cost of the industries thereby eliminating the need for large aeration tank in effluent treatment process.
8. To minimize the energy consumption in aeration tank in effluent treatment plant.