OBJECTIVE:

- To use model drug as diclofenac sodium which is needed in pain relieving conditions as NSAID and which is having short duration of time dose delivery is also problem with such drug is choosen for our formulation.
- To design and prepare sustained release matrix tablet using selected gums or either gum blends.
- To study drug release profile by using different types of natural gums such as locust bean gum, xanthan gum, sodium alginate, guar gum, gum ghutti.
- To study effect of concentrations of different natural gums on drug release profile.
- To study effect of combination of different natural gums on drug release profile.
- To compare release profile of all formulation with marketed preparation.
- To study swelling behavior of sustained release tablets in terms of mass degree of swelling and swelling index.
- Market sustained release formulations lack of sustained property over long period of time.