Plan of work

1. Literature search
   This will be continuous process from starting till the finalization of the work. The sources utilized would be books, standards like IP, USP, ICH and WHO guidelines etc., journals including National and International, patents and internet.

2. Procurement of drug, excipients and oil.

3. Preformulation study.

4. Determination of $\lambda$-max of Glipizide drug and preparation of standard graph
   The standard curve of Glipizide in pH 7.4 buffer was plotted to quantify the samples.

5. Construction of Ternary phase diagram for determining the area of microemulsion.
   Phase diagrams were constructed to determine regions of microemulsion formation.

6. Formulation of selected Glipizide microemulsions based on the phase diagram.

7. Evaluation of conductivity of the formulations.
   Electrical conductivity of the samples will be measured using a digital pH/conductivity meter.

8. In-vitro dissolution studies of all formulations.
   This study will be carried out as given in US pharmacopoeia.

9. Selection of best formulation based on the above studies.
   The formulation which provides greater bioavailability will be chosen.

10. Study of the release pattern of the drug from the optimized formulation.
    Various models will be tested to explain the kinetic of drug release.

11. Evaluation of the optimized microemulsion formulations.
    An evaluation will be performed to assess various physicochemical properties of the developed formulations.

12. Stability study
    The stability study of the optimized microemulsions will be done as per ICH guidelines and will be observed for phase separation, viscosity and % drug release.

13. Analysis of results and compilation
    Once the samples are collected analysis will be done and statistics will be applied on the results.