4. PLAN OF WORK

**Stage I-** Literature survey

**Stage II-** Pre-formulation

- Compatibility studies
- Analytical method development

**Stage III-** Formulation and evaluation of aceclofenac solid dispersion

- Formulation variables with different ratios of the selected carriers
- Drug content
- % Practical Yield
- *In vitro* drug release studies

**Stage IV-** Formulation and characterization of aceclofenac pellets (Multiple unit dosage form)

- Formulation variables with different ratios of selected polymers
- Flow properties
- Particle size evaluation
- *In vitro* drug release studies

**Stage V-** Formulation and characterization of aceclofenac mini tablets (Multiple unit dosage forms)

- Formulation variables with different ratios of selected polymers
- Post compression parameters
- Friability
- *In vitro* drug release studies

**Stage VI-** Formulation and evaluation dual release dosage form using optimized batches

- *In vitro* drug release studies
- Evaluation of release kinetics

**Stage VII-** Pharmacokinetic parameters for optimized dual release formulations