METHODOLOGY

- Method development for drugs by using high performance liquid chromatography (RP-HPLC)
- Optimization of various conditions during method development.
- Study of validation parameters to new method development can be done are
  - Precision, Accuracy, Linearity, Specificity, Limit of detection (LOD), Limit of Quantification (LOQ), System suitability, Robustness, Ruggedness, Recovery studies.
- Selection of the mobile phase will depend upon solubility of the drug, which gives the better resolution, peak will be selected.
- Selection of the column is based upon on the literature review and depends upon the availability in markets and also which shows the separation of drugs.
- Detection of wavelength by UV-Visible spectrophotometer.
- Preparation of calibration curve with different concentrations of the standard drugs and calibration curve is plotted for standard deviation (SD), relative standard deviation (RSD).

5. WORK PLAN
- Review of literature related to drug profile, solvent profile, method development, validation parameters will be done by standard books, National & International journals and E- journals.
- Procurement of drugs and their formulations of (Indinavir sulphate, Saroglitazar, Saquinavir, aceclofenac & serratiopeptidase, Darunavir & Cobicistat, Lornoxicam & Thiocolchicoside, Abacavir & Dolutegravir & Lamivudine)
- Identifying their physico-chemical properties of drugs and their formulations
- Analysis of formulations by the proposed method.
- Applying the analytical method for marketed formulation.
- The same method will be validated as per ICH guidelines