5. **WORK PLAN AND METHODOLOGY**

The study is been planned to be conducted in hospital as well as by obtaining data’s from various medical laboratories in the mentioned sites.

- **Study Site:** Khammam District of Telangana and Thrissur District of Kerala.
- **Study design:** Retrospective and prospective observational study.
- **Data Collection:** From pathological lab or chart and recorded on structured Data Entry Form.
- **Sample Size:** A minimum of 2000 subjects

**Work Plan:**

- **Phase I:** Data collection
- **Phase II:** Statistical analysis of data and interpretation.
- **Phase III:** Feedback leading to intervention for preventive action.
- **Phase IV:** Circulation of standard treatment/ first line treatment for various diseases.

A comparative study will be done between two districts of two states in India for antibiotic resistant pattern in order to establish the difference in microbial resistance.

Data collection will be done during ward activities, obtaining laboratory reports and by discussion of case with clinical staff.

**Selection of Patients:**

- **Inclusion Criteria**
  - All the patients with infectious disease admitted in hospital.
  - All the culture positive infection cases.
- **Exclusion Criteria**
  - Patients without culture report.