WORK PLAN AND METHODOLOGY

- **Literature Review.**
  The literatures were reviewed through different journals, Books and by using internet.

- **Collection of plant material**
  The plant will procure from medicinal garden of Bharti vidypeeth unervisity, Poona college of Pharmacy, Pune.

- **Experimental Work.**
  
  o **To obtain callus from leaves of *T. indica***
    The callus will obtain after performing following steps.
    
    - Surface sterilization of plant material
    - Preparation and sterilization of solid media
    - Preparation of explants
    - Aseptically transfer explants in to culture media.

  o **To obtain friable callus from callus of *T. indica***
    The friable callus will obtain after performing following steps.
    
    - 3-4 sub-culture of callus at an interval of 2-3 week period.

  o **To obtain suspension culture from friable callus.**
    The suspension culture will obtain after performing following steps.
    
    - Preparation and sterilization of liquid media
    - Aseptically transfer friable callus in to liquid media

  o **To study the effect of precursors feeding on suspension culture.**
    The effect of precursors feeding on suspension culture will study after performing following steps.
- To prepare solution of different concentration of precursor (eg. 1 ppm, 2 ppm.)
- Aseptically transfer of this solution in to suspension culture

- **To study the effect of elicitors at different concentration on suspension culture.**
The effect of elicitation on suspension culture will study after performing following steps.

  - To prepare solution of different concentration of elicitor (eg. 1%, 2%).
  - Aseptically transfer of this solution in to suspension culture

- **To study comparative antimicrobial activity of extract of callus and extract of suspension culture (sample of precursor feeding and elicitation) of *T. indica*.**
The antimicrobial activity will perform by using following steps.
  - Collection of microbial strains
  - Preparation of the media
  - Determination of antimicrobial activity by using well plate method