PLAN OF WORK WITH METHODOLOGY:

1. Selection of herbal drugs –
   a. Following herbal drugs are selected based on the literature review - *Crocus sativus, Piper betel, Symplocos racemosa* and *Myristica fragrance*.
   b. The combination of the herbal drugs based on traditional claims and clinical evidences will be selected for the aphrodisiac activity.

2. Selection of dose -
   a. Appropriate dose of the extract for aphrodisiac activity will be taken by referring previously reported doses.

3. Standardization of the extracts -
   a. Standardization of herbal extracts will be done by means of physical evaluation.
   b. Standardization of herbal extracts will be done by Chemical evaluation.
   c. Standardization of herbal extracts will be done by Chromatographic evaluation.
   d. Standardization of herbal extracts will be done by microbial evaluation.
   e. Standardization of herbal extracts will be done by heavy metal evaluation.

4. Development of the formulation -
   a. Development of the effective and suitable herbal oral solid dosage formulation using the standardized crude drug material with the standard manufacturing procedure will be carried out (Wet granulation/ Dry granulation).

5. Development of the suitable analytical method -
   a. Development of quantitative method for quality control of the finished dosage form by HPTLC and HPLC will be done

6. Preclinical examination -
   a. Preclinical studies of the product using laboratory animal model for aphrodisiac activity will be performed such as -
      i. Aphrodisiac activity by assessing mounting frequency, mounting latency, intromission frequency, erection index
      ii. Androgenic activity in rats
      iii. Sexual behavioral study in active and inactive male rats

7. Stability studies of the finished dosage form -
a. Stability studies in a preferred type of package as per the standard ICH guidelines will be performed for
   i. Physical parameters.
   ii. Chemical parameters.
   iii. Microbiological parameters
b. Stability studies by doing comparison of HPTLC fingerprinting will be done.