

CHAPTER II

AIMS AND OBJECTIVES

AIMS AND OBJECTIVES

The present investigation dealing with the plant fossils from the Deccan Intertrappean beds of Mandla District, Madhya Pradesh, India is based upon the following aims and objectives approved by the University of Pune.

AIMS AND OBJECTIVES

- I. **Review of literature** on Deccan Intertrappean flora including the assemblage of Mandla district.
- II. **Field work** – collection of critical plant material. Morpho-anatomical investigations of permineralized material of stems, roots, fruits by **Thin Ground Section Method** and leaf impressions by comparing them morphologically with the extant material if possible.
- III. Correlations of the vegetative and reproductive taxa of both petrified and impression material.
- IV. Photomicrography and microscopic measurements.
- V. Probable affinities of fossil organs of extant members.
- VI. Correlation of vegetative and reproductive taxa with the extant members.
- VII. Correlation of the different florules from Mandla district with the other Intertrappean exposures.
- VIII. Phytogeographical correlations.

The aim of the present research work is to make further addition to the flora of the Deccan Intertrappean beds of India in general and Mandla district, Madhya Pradesh, in particular. The investigations to be carried out will discuss the affinities of the fossils with extant members and search will be made for their phylogenetic relationships.

It is expected that the present study may add substantially to the fossils probably assigned to the monocotyledonous families Palmae (Arecaceae) and dicotyledonous family Simarubaceae, Euphorbiaceae and Elaeocarpaceae from Umaria, Silther, Bhama, Deori and Barbaspur in Mandla district, Madhya Pradesh, India belonging to the Deccan Intertrappean beds of India.
