CHAPTER II

AIMS & OBJECTIVES
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The present investigations on the monocotyledonous diversity from the Deccan Intertrappean beds of Mandla District are based upon the following aims and objectives approved by the University of Pune.

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I. Review of literature on Indian fossil monocotyledons.
II. Morpho-anatomical investigations of impressions and permineralized vegetative and reproductive plant parts such as stem, root, petiole, lamina, inflorescence, peduncle, rachilla, flowers, fruits, seeds and in situ preserved pollen grains if possible.
III. Correlations of the vegetative and reproductive taxa.
IV. Attempts for reconstruction of the complex plant organs like stem axis, entire leaf, inflorescence or whole plant.
V. Observations on origin and diversification of monocotyledonous elements based upon self investigations and earlier work done.
VI. Phytoecological investigations
VII. Palaeoecological interpretations.

The aim of this 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, Liliaceae, Pandanaceae, Scitamineae, Araceae, Gramineae, Cyperaceae and others from the Deccan Intertrappean beds of India.

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