

CHAPTER VII

SUMMARY AND CONCLUSIONS

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The present study entitled, “**Studies on Plant Fossils from the Deccan Intertrappean Beds of Mandla District, (M.P.), India and its correlation with Palaeoenvironment and Phytogeography**” embodies the results carried out by me during the period from April 2004 to April 2011.

The present research work is divided into VIII chapters:

Chapter I Introduction to the Deccan Trap Country having three Traps, intercalated with Intertrappean Beds; Appraisal of the Deccan Intertrappean flora and Age of the Deccan Traps with Geological, Radiometric Palaeomagnetic and Stratigraphic evidences

Chapter II Aims and Objectives of the present work.

Chapter III Materials collected for the present work from different Inter-trappean exposures, especially from the Mandla district, Madhya Pradesh and **Methodology** adopted for the analysis of the permineralised woods and impressions. Since the work is concerned with anatomical analysis, the fossils were compared with the extensive anatomical work done on the extant plants.

Chapter IV Geology and Physiography of the Deccan Trap Country in general and the Mandla district, Madhya Pradesh in particular. This chapter also includes floral history of the area.

Chapter V Palaeofloristic description embodies the discovery of new plant fossils from the Deccan Intertrappean Beds exposed in Mandla district, Madhya Pradesh. Their systematic description, Identification, Comparison and Discussions are given along with the diagnosis. The observations are supported with Field photographs, required maps and photomicrographs.

During the present work the following plant fossils have been investigated.

1. *Palmoxylon blanfordi* Schenk from Barbaspur.
2. *Palmoxylon mandlaensis* Lakhapal et al. from Bhama.
3. *Palmoxylon dilacunosum* Ambwani from Deori.
4. *Palmoxylon arecoides* sp.nov. from Barbaspur.
5. *Rhizopalmoxylon macrorhizon* Bonde et al. from Barbaspur.
6. *Mahabalea phoenicoides* sp.nov. from Umaria.
7. *Palmacites umariense* sp.nov., a palmate leaf from Umaria.
8. *Ailanthoxylon indicum* Prakash et al. from Deori.
9. *Elaeocarpoxyton ghughuensis* Awasthi et al. from Silther.
10. *Euphorbiocarpon drypeteoides* Mehrotra et al. from Silther.

Chapter VI Palaeoenvironment and Phytogeography of the region in the light of present Investigations and Investigations made so far.

Chapter VII Summary and Conclusion of the work.

Chapter VIII References consulted during the above investigations.

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