



Summary &
Conclusions

SUMMARY AND CONCLUSIONS

The present investigation incorporates the data gathered from the morphological and anatomical investigations on the fossil plants from Nagpur district in Maharashtra. The plants studied here are from three different localities viz. Satnaori, Bazargaon and Umred. They are preserved in the form of impressions and petrifications. The elements studied belong to the Glossopteris flora, which represents the Lower Gondwana flora of India. The impressions were collected from Bazargaon, Umred and Satna^ari, while the petrifications come from Satna^ari only. The floral assemblage broadly suggest the age of the flora as Upper Permian to Lower Triassic, however the locality Umred does not fall in this range which is some what older and belongs to Barakar stage. Hence the floral range becomes wider ranging from Carboniferous to Early Triassic.

1. CHAPTER - I : It is the introduction and gives the brief information of the classification of Gondwana system. It also adds different views about the classification. It is given on pp. 1 to 7 .

2. CHAPTER - II : Relates with the earlier work done on the divisions of Lower Gondwana formations. The chapter is named as the previous work and it gives specific information regarding the 'previous work' on the fossil flora of the different Gondwana divisions. It starts from Talchir Stage and ends upto Kamthi Stage. It is given on pp 8 to 22.

3. CHAPTER - III : The material investigated in the present work and technique employed for it forms this Chapter. It is entitled as 'Material and Methods'. It is given on pp. 23 to 28

4. CHAPTER - IV : It deals with the Geology and Topography of the area studied in Nagpur district and surrounding region. The relevant Geological information is added. For understanding the geology and topography of the area which includes the localities studied here. The brief discussion of lithology and characters of Kamthi rocks is given. This is due to difference found in rocks of the Kamthi formation and features of others. It is given on pp. 29 to 31 .

5. CHAPTER - V : It is descriptive and includes two parts such as -

PART-I : Covers the studies of petrified woods found at Satna^ori. The woods are assigned to 4 genera and they are identified upto the specific level. The part shows the following genera of gymnospermus woods and their species.

a) Araucarioxylon Kraus 1870

It is represented by a new species viz. A.lepekhinae.

b) Kamthioxylon Mahabale and Vagyani 1980

It is represented by a new species viz. K.satnaoriense sp.nov.

c) Dadoxylon Endlicher

It is represented by a new species D.maheshwarii.

d) Prototaxoxylon Kräusel & Dolianti 1958

It is represented by a new species P.satna^orii.

PART-2 : It includes the impressions. They are assign to -

A) Genus - Glossopteris Sternberg

It is represent by following 5 species

1. G. emarginata Maheshwari & Prakash 1965
2. G. retifera Feistmantel
3. G. longicaulis Feistmantel 1880
4. G. surangei Chandra & Prasad 1981
5. G. sp.

B) Genus - Rubidgea Tate 1867

It is represented by only one species R. lanceolata (Maithy 1965).

C) Genus - Gangmopteris Mc Coy

It is represented by two species.

1. G. major
2. G. sp.

D) Genus - Neocalamites

It is represented by only one species. N. foxi (Lele)

E) Noeggerathiopsis Feistmantel 1879

It is represented by two species (1) N. spathulata Dona and (2) N. hislopi (Bunf) Feistmantel.

A fertile scale assign to the female fructification Venustostrobus.

6. CHAPTER - VI : It is general consideration and includes the observations of the genera included here.

The comparative account of these genera is also added and their occurrences in India is also discussed. The homotaxial position of Kamthis Stage and Raniganj Stage is also considered for the discussion of age. The age of the flora is also discussed in this chapter. It is given on pp. 80 to 92.

7. CHAPTER - VII : This is called as Summary and Conclusion. It gives the contents of the chapters of the work. It is given on pp. 93 to 96 .

8. CHAPTER - VIII : Chapter-VIII is references which gives the literature consulted in this dissertation and given on pp. 97 to 108 .

9. The dissertation ends with a note on authors sincere thanks to Dr. Mrs. S.S. Chitambar for her guidance and for the help rendered by Dr. B.A. Vagyan through out the work.

*It comes in
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