The present work was undertaken to contribute to the study of microfossils occurring in the Tertiary rocks of Kutch, western India. Though lately, a few papers have been published on the Foraminifera and Ostracoda, yet it has been felt that there is a lot of scope for adding to our existing knowledge of these groups of organisms. Hence it was deemed proper to confine the present work to the study of Ostracoda and only to those genera of larger Foraminifera which have received little attention.

The Tertiary beds of the Babi Hill and adjacent area, northwest Kutch, in the Gujarat State of India, have yielded a rich assemblage of Foraminifera and Ostracoda. The present study includes systematic descriptions and illustrations of fifty-one species of Ostracoda and seven species of larger Foraminifera. Amongst the ostracodes described herein, seventeen species are new, and generic shift has been made in the case of nine species. Amongst the new genus of Ostracoda *Karthikovella* has been proposed. Out of the seven larger foraminiferal species described, two of them are new. It has been possible to delineate nine larger foraminiferal zones in the Babi, Kirthar, Vari and Gaj Formations encountered in the Kali-Karasadi river section and the Babi Hill section and thus an effort has been made in establishing a detailed biostratigraphy of the area. Likewise, five ostracode zones have also been marked. The ecology and stratigraphy of the area has also been dealt with
in detail according to modern concepts. The basal Gaj beds, hitherto referred to Aquitanian age, have been assigned to Chattian — Barmidian (Uppermost Oligocene) age.

In connection with the present assignment, the field work was carried out during three field seasons, i.e., December/January, 1967-68; January, 1969; and January, 1970. Detailed bed by bed sampling was carried out in the two sections. In addition to above, representative samples were also collected from the various parts of the present area.

For the convenience of presentation, the thesis has been subdivided into two parts as follows:

Part I - Deals with Introduction, Previous Work, Tertiary Electrostratigraphy, Stratigraphic Position of *Eunocolinaeannae* bed (Basal Gaj) in Dutch, Paleozoology, and Correlation of the beds.

Part II - Deals with Palaeontology which has been divided into two sections. The first section includes Introduction and Systematic Description of Ostracoda. The second section deals with larger Foraminifera which has been further subdivided into Introduction, Taxonomic comments on the involute forms of the genus *Asterosteiina* and Systematic Descriptions.
The thesis is corroborated by a good deal of biometric data, faunal distribution charts, two geological maps and text-figures containing correlation of the sections, stratigraphic successions and location map. There are twenty-nine plates exhibiting both the Camera Lucida sketches of various ostracodes and their microphotographs. These also include field-photographs. An exhaustive list of references has also been appended.

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