SYNOPSIS OF THE THESIS

STUDIES OF COCCIDIAL FAUNA FROM MARATHWADA REGION

The thesis presents the results of the studies on the coccidian parasites of the genus *Eimeria* occuring in some Mammals (Buffaloes and Goats) in Marathwada region of Maharashtra State.

The investigation showed extensive prevalence of coccidia - in buffaloes and goats in this area.

Cattle showed relatively very low prevalence of coccidial infections. The results are presented in two parts.

PART : I

This part covers a study of the prevalence of *Eimeria* in buffaloes in Marathwada region. The study an analysis of 1052 faecal samples from buffaloes, over a period of one and half year. Detailed data as well as critical comments are presented on the over all prevalence of *Eimeria*, the prevalence of the individual species and the pattern of pure and mixed infections.

This part gives an account of the morphology and morphometrics of the oocysts of nine species of *Eimeria* from buffaloes. The following species are described in this part :

1. *Eimeria alabamensis* Christensen, 1941
3. *E. bovis*, (Zublin, 1908), Fiebigcr, 1912.
5. *E. canadensis*, Bruce, 1921.

Critical comments are given in the light of earlier work done by several investigators.

**PART : II**

This part covers a study of the prevalence of *Eimeria* in goats of Marathwada region. The study covers an analysis of 297 faecal samples from goats, over a period of half year. Detailed data as well as critical comments are presented on the over all prevalence of *Eimeria*, the prevalence of the individual species and the pattern of pure and mixed infections are studied.

This part presents a study of the morphology and morphometrics of the oocysts of the *Eimeria* species occurring in goats. The following eleven species are described in this part.

2. *E. arloingi* (Marotel, 1905) Martin, 1909
8. *E. intricata* Spiegl, 1925.


Comments are given in the light of the earlier work in this area. Brief historical review of the coccidia of buffaloes and goats is also given.