SYNOPSIS OF THE THESIS

STUDY OF COCCIDIOSIS IN CHICKEN

IN AURANGABAD DISTRICT

The thesis presents the results of the studies on the coccidian parasites of the genus *Eimeria* occurring in Broiler chicken, (*Gallus gallus*) in Aurangabad district of Marathwada region.

The investigation showed extensive prevalence of coccidia in broiler chicken in this area. Broiler chicken shows variations in prevalence of coccidian infection throughout the year. The results are presented in three parts.

PART – I

This part covers a study of the prevalence of *Eimeria* in Broiler chicken in Aurangabad district of Marathwada region. The study covers an analysis of 2524 faecal samples from broiler chicken, over a period of two years.

Detailed data as well as critical comments are presented on the over all prevalence of *Eimeria*, prevalence of the individual species and the pattern of pure and mixed infections.
PART – II

This part of thesis gives the morphology and morphometrics of the oocysts of ten species of *Eimeria* from Broiler chicken. The following species are described in this part.

1)  *Eimeria tenella*  Railliet and Lucet 1891
2)  *Eimeria necatrix*  Johnson, 1930
3)  *Eimeria brunetti*  Levine 1942
4)  *Eimeria acervulina*  Tyzzer 1929
5)  *Eimeria praecox*  Johnson 1930
6)  *Eimeria maxima*  Tyzzer 1929
7)  *Eimeria mitis*  Tyzzer 1929
8)  *Eimeria nikamae*  (n.sp.)
9)  *Eimeria Tarabaie*  (n.sp.)
10) *Eimeria shivpuri*  (n.sp.)
PART – III

This part of the thesis presents a study of histopathological changes in the infected tissue of broiler chicken with special reference to *Eimeria tenella* & *Eimeria necatrix* as these two species are more pathogenic than the other Eimerian species found in broiler chicken. Comparison of histology of infected intestine is also done with non infected intestine of broiler chicken.