Preface

Unplanned industrialization, ever-rising population and other anthropogenic activities add to increasing pollution. The elevated global consumption of Cadmium and its products are matter of great concern, as Cadmium is a known to cause physiological damage in many organisms. A haematological and biochemical study on the effects of heavy metal pollution on fish could provide worthy information aiding access the potential for human exposure to the same and for predicting human health risks.

Considering this as my motivation of work, the study was carried out to analyse the effect of cadmium exposure on haematological and biochemical parameters of Nile tilapia (*Oreochromis niloticus*).

The present study, the effect of heavy metal, cadmium on various haematological and biochemical parameters of freshwater fish species, *Oreochromis niloticus*, was investigated.

Chapter 1 includes Introduction, motivation, problem statement, aim and research framework for this study.

Chapter 2 is provided with a literature review of the effects of heavy metals on fish.

Chapter 3 incorporates a detailed description of the various materials used and methods followed during the study.

Chapter 4 describes the acute toxicity test in detail.

Chapter 5 deals with the results obtained from chronic toxicity tests for various haematological and biochemical parameters during this study and a discussion thereof.

Date:

Place: Surat

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