Contents

Chapter – 1 Introduction 1-13

Chapter – 2 Review of Literature 1-32

Chapter – 3 Materials and Methods and Scope of Study 1-31

Chapter – 4 Results 1-30
  4.1 Physico-chemical characteristics of pond water
    4.1a --Physico-chemical parameter 2003
    4.1b --Physico-chemical parameter 2004
    4.1c --Metal content 2003
    4.1d --Metal content 2004
  4.2 Toxicity tests
  4.3 Survival and growth of the fish under metal stress
  4.4 Bio accumulation of copper and zinc in different tissues of Catla catla
  4.5 Effect of copper and zinc on enzyme activities
  4.6 Effect of copper and zinc on biochemical components
  4.7 Phytoremediation measure to control water pollution
  4.8 Use of agricultural wastes as adsorbent for metals
  4.9 Electrophoretic separation of protein of liver and muscle under metal stress

Chapter – 5 Discussion 1-39

Chapter – 6 Summary and Recommendations 1-15

Chapter – 7 References 1-48