CONTENTS

I. INTRODUCTION 1

II. MATERIALS AND METHODS 26

III. OBSERVATIONS AND RESULTS 35

1. ISOLATION AND DEVELOPMENT OF ALGAL CULTURES 35

2. IMPACT OF PESTICIDES ON THE GROWTH OF MICROALGAE 36
   2.1 Endosulfan
   2.2 Ekalux
   2.3 Fernoxone
   2.4 Indofil
   2.5 Nimbex

3. IMPACT OF PESTICIDES ON THE CARBON PRODUCTION OF ALGAE 44
   3.1 Endosulfan
   3.2 Ekalux
   3.3 Fernoxone
   3.4 Indofil
   3.5 Nimbex

4. IMPACT OF PESTICIDES ON THE PIGMENT CONTENT OF TREATED ALGAE 52
   4.1 Endosulfan
   4.2 Ekalux
4.3 Fernoxone
4.4 Indofil
4.5 Nimbex

5. IMPACT OF PESTICIDES ON THE BIOCHEMICAL COMPOUNDS OF MICROALGAE
5.1 Endosulfan
5.2 Ekalux
5.3 Fernoxone
5.4 Indofil
5.5 Nimbex

6. MORPHOLOGY OF TREATED ALGAE

7. BIOACCUMULATION OF THE ORGANOCHELORINE INSECTICIDE ENDOSULFAN ON TWO ALGAL SPECIES

8. DETERMINATION OF 96 hr EC50 VALUES

IV. DISCUSSION

V. CONCLUSION

VI. SUMMARY

BIBLIOGRAPHY