

CONTENTS

ACKNOWLEDGEMENTS	i - ii
ABBREVIATIONS USED	iii - iv
LEGENDS TO THE PLATES	v
GENERAL INTRODUCTION	1 - 7

PART - I

1. Introduction	8 - 23
2. Materials and Methods	24 - 47
Plates	48 - 55
3. Results	56 - 69
3.1. General and Physico-chemical characteristics of the ponds.	56 - 57
3.2. Organic manures	57
3.3. Physico-chemical characteristics of soil during experimental period.	58 - 60
3.4. Physico-chemical characteristics of water during experimental trials.	60 - 62
3.5. Growth of the experimental animals	62 - 68
3.6. Production of fish	68 - 69
Tables	70 - 102
Figures	103 - 109
4. Discussion	110 - 133

4.1. Manures	110 - 112
4.2. Chemical characteristics of soil	112 - 118
4.3. Chemical characteristics of water	119 - 122
4.4. Plankton density	122 - 123
4.5. Combination ratio	124
4.6. Rate and stocking density	124 - 125
4.7. Growth of the fish	125 - 128
4.8. Production	128 - 132
4.9. Cost of production and return	132 - 133

PART – II

1. Introduction	134 - 145
2. Materials and Methods	146 - 149
3. Results	150 - 160
3.1. Total muscle protein content of the experimental animals	150 - 155
3.2. Total muscle lipid content of the experimental animals	155 - 160
Tables	161 - 174
4. Discussion	175 - 181
4.1. Total muscle protein content in relation to body weight	175 - 179
4.2. Total muscle lipid content in relation to body weight	179 - 181
GENERAL CONCLUSION	182 - 184
SUMMARY	185 - 191
REFERENCES	192 - 218