

CONTENTS

	PAGE
CHAPTER 1. INTRODUCTION	1-11
1.1 PROLOGUE	1
1.2 RESEARCH QUESTION	4
1.3 RESEARCH HYPOTHESIS	5
1.4 ORDER OF PRESENTATION	6
1.5 RELEVANCE OF THE RESEARCH WORK	7
CHAPTER 2. METHODOLOGY	12-16
2.1 SURVEY	12
2.1.1 PILOT SURVEY	12
2.1.2 RESEARCH DESIGN	13
2.1.3 QUESTIONNAIRE DESIGN	13
2.1.4 SAMPLE SIZE	15
2.2 TOOLS FOR ANALYSIS	15
2.3 DATA COLLECTION METHOD	16
CHAPTER 3. TYPES OF GEARS AND FISHING METHODS	17-68
3.1 INTRODUCTION	17
3.2 REVIEW OF LITERATURE	18
3.3 MATERIALS AND METHODS	19
3.4 OBSERVATIONS	19
3.4.1(A) FISHING WITHOUT GEAR	
3.4.1(B) IMPALLING GEAR	
3.4.1(C) TRAPS	
3.4.1(D) HOOK AND LINE FISHING	
3.4.1(E) ENTANGLING GEAR	
3.4.1(F) ENCIRCLING GEAR	
3.4.1(G) SCOOPING GEAR	
3.4.1(H) TRAWLING GEAR	
3.4.2 INDIGENOUS FISHING METHODS	41
3.4.3 SEASONAL VARIATION	46
3.5 DISCUSSION	48
3.6 CONCLUSION	52

CHAPTER 4. COST EFFECTIVENESS ANALYSIS 69-132

4.1 INTRODUCTION	69
4.2 REVIEW OF LITERATURE	69
4.3 METHODOLOGY	73
4.4 OBSERVATIONS	77
4.4.1 ECONOMIC ANALYSIS OF MUSARIJAL	
4.4.2 ECONOMIC ANALYSIS OF DOLIJAL	
4.4.3 ECONOMIC ANALYSIS OF BERJAL	
4.4.4 ECONOMIC ANALYSIS OF PHANSIJAL	
4.4.5 ECONOMIC ANALYSIS OF LANGIJAL	
4.4.6 ECONOMIC ANALYSIS OF KHEWALIJAL	
4.4.7 ECONOMIC ANALYSIS OF HOOK AND LINE FISHING	
4.4.8 ECONOMIC ANALYSIS OF DHENKIJAL	
4.4.9 ECONOMIC ANALYSIS OF HORHORIJAL	
4.4.10 ECONOMIC ANALYSIS OF PARANGIJAL	
4.4.11 ECONOMIC ANALYSIS OF KATAL FISHING	
4.5 DISCUSSION	122
4.6 CONCLUSION	132

**CHAPTER 5. MESH SIZES OF GERAS USED IN
THE BEEL FISHERIES OF ASSAM 133-141**

5.1 INTRODUCTION	133
5.2 REVIEW OF LITERATURE	134
5.3 METHODOLOGY	135
5.4 OBSERVATIONS	135
5.4.1 ANALYSIS OF MESH SIZES OF GEARS AND THEIR LEVEL OF EFFECTIVENESS	
5.4.1.1 MESH SIZES AND CPGH OF GILL NETS	
5.4.1.2 MESH SIZES AND CPGH OF ENCIRCLING NETS	
5.4.1.3 MESH SIZES AND CPGH OF SCOOPING GEARS	
5.4.1.4 MESH SIZES AND CPGH OF TRAWLING GEARS	
5.5 DISCUSSION	139
5.6 CONCLUSION	141

CHAPTER 6. TRADITIONAL STATUS OF FISHING GEARS	142-153
6.1 INTRODUCTION	142
6.2 REVIEW OF LITERATURE	143
6.3 METHODOLOGY	143
6.4 OBSERVATIONS	143
6.4.1 ENCIRCLING GEAR	
6.4.2 ENTANGLING GEAR	
6.4.3 SCOOPING GEAR	
6.4.4 TRAWLING GEAR	
6.4.5 HOOK AND LINE FISHING	
6.4.6 TRAPS	
6.4.7 IMPALLING	
6.5. DISCUSSION	151
6.6 CONCLUSION	153
CHAPTER 7. BEEL WISE ANALYSIS OF COST EFFECTIVENESS OF GEARS	154-178
7.1 INTRODUCTION	154
7.2 REVIEW OF LITERATURE	155
7.3 METHODOLOGY	155
7.4 OBSERVATIONS	155
7.5 DISCUSSION	175
7.6 CONCLUSION	178
CHAPTER 8. LEVEL OF EFFECTIVENESS OF DIFFERENT MESH SIZES	179-191
8.1 INTRODUCTION	179
8.2 REVIEW OF LITERATURE	180
8.3 METHODOLOGY	180
8.4 OBSERVATIONS	181
8.4.1 RECOMMENDED MESH SIZE OF NETS IN THE BEELS OF ASSAM	
8.4.2 NON-RECOMMENDED MESH SIZE OF NETS IN THE BEELS OF ASSAM	
8.4.3 EFFECTIVENESS OF RECOMMENDED MESH SIZE OF NETS	
8.4.3(i) EFFECTIVENESS BASED ON COST AND RETURN ANALYSIS	
8.4.3(ii) EFFECTIVENESS BASED ON PERCEPTION OF FISHERMEN	

8.4.4 EFFECTIVENESS OF NON-RECOMMENDED MESH SIZE OF NETS	
8.4.4.i. EFFECTIVENESS BASED ON COST AND RETURN ANALYSIS	
8.4.4.ii.EFFECTIVENESS BASED ON PERCEPTION OF FISHERMEN	
8.5 DISCUSSION	188
8.6 CONCLUSION	190
SUMMARY	192
REFERENCES	194