MANAGEMENT AND UTILIZATION OF FOREST PRODUCTS IN BUFFER ZONE:

(A Case Study of Shuklaphanta Wildlife Reserve, Kanchanpur, District)

A Thesis Submitted to the Central Department of Rural

Development for partial Fulfillment of the Requirements for
the Degree of Master of Arts in Rural Development

Submitted By Man Bahadur Airie

Exam Roll No.: 2756

T.U. Registration No. 5-1-61-104-99

Tribhuvan University, Kirtipur Kathmandu, Nepal August 2009

LETTER OF RECOMMENDATION

This Thesis entitled "Management and Utilization of Forest Products in Buffer Zone: A Case Study of Shuklaphanta Wildlife Reserve, Kanchanpur, District" has been prepared by Mr. Man Bahadur Airie under my supervision and guidance for his partial fulfillment of the requirement for the Masters of Arts in Rural Development. I recommend this thesis to the evaluation committee for its final approval and acceptance.

1	_	4	_	
	 • 1	т	4	•
	 a	ш	L	_

.....

Prof. Dr. Pradeep Kumar Khadka
Head of the Department
(Thesis Supervisor)
Central Department of Rural Development
Tribhuvan University, Kritipur,
Kathmandu Nepal

LETTER OF APPROVAL

This is certify that the thesis submitted by Mr. Man Bahadur Airie entitled "Management and Utilization of Forest Products in Buffer Zone: A Case Study of Shuklaphanta Wildlife Reserve, Kanchanpur, District" has been approved by this department in the prescribed format of the faculty of Humanities and Social Science. The thesis is forwarded for the evaluation.

Evaluation Committee			
Prof. Dr. Pradeep Kumar Khadka			
Supervisor			
Head of the Department			
Prof. Dr Mangala Shrestha			
External Examiner			
Doto			

ACKNOWLEDGEMENT

The thesis entitled "Management and Utilization of Forest Products: A Case Study of Suklaphanta Wild Life Reserve Kanchanpur District has been prepared as a partial fulfillment for M.A. in Rural Development. For this present study, my great debt to my supervisor Prof. Dr. Pradeep Kumar Khadka Head of Central Department of Rural Development, Tribhuvan University, Kirtipur, Kathmandu, Nepal who has encouraged and guided me all the time while preparing and writing this thesis.

I would like to express my sincere thanks to my respected teachers of the Central Department of Rural Development, T.U. Kirtipur and other staffs who provided me valuable suggestion during this thesis work. My sincere acknowledgement also goes to all the staffs of T.U. Central Library and Department of Natural parks and Wild Life Conservation.

I have also benefited from the people of the study are (Mahendranagar Municipality). Who spare their valuable time in discussion their problem individually and groups to strengthen my understanding and making this study possible. Therefore, I must extend my sincere thanks to them. I also wish express my special thanks to my Elder Brother Ram Bdr. Airi for his kind cooperation, guidance, encouragement and provided me homely and friendly environment during my study period, without which this study would not be complete.

I am very much indebted to my beloved brother G.B. Airi, Khem Raj Airi and Deepesh Airi for their valuable guidance and my special thanks to my friend Hari, Uttam and Bashu who help me directly in this work.

I would further express my gratitude all my friends of Rural Development senior and junior students for their full support and guidance while performing this work, these are those people who have been helping me towards the way of my academic achievement to the best of capacity.

Last but not the least I would like to extend my heartly thanks to my beloved parents who give me moral and financial support, who are the responsible for my present status.

Man Bahadur Airie

ABSTRACT

The research entitled "Management and Utilization of Forest Products in Buffer Zone" was carried out in Mahendranagar Municipality of Kanchanpur District. The main objective of the present study basically intends to find out and document the process of community group activities and management and utilization of forest resources and other objectives are:

- 1. To identify the existing user's groups and their structural functional features.
- 2. To access the resource mobilization pattern in these user groups.
- 3. To assess the level/extent of people participation in community Management and utilization of forest product.
- 4. To suggest recommend applicable improvement measures of sustainable community management and utilization.

Buffer zones are the latest concept of conservation in natural resources sector, when surrounding areas of national parks and wildlife reserve at risk and become conflict, as natural resources are increasingly required to provide for-ever expanding population after that buffer zone concept was brought by Department of National Parks and Wildlife Conservation (DNPWC) Nepal in 1984 to fulfill the demand of periphery people.

Mahendranagar Municipality of Kanchanpur district was selected as the study area. For the fulfillment of above objectives the study guided by sample frame from, where the sample population 20 percent and the total sample is to be 100 member of user group. Explorative and descriptive research method was used to analyze the community group based Management and utilization of forest product.

Direct observation, participatory resource mapping key informant interview, face to face questionnaire and group discussion are used for primary data collection. Secondary data were collected through the review of various books publisher and unpublished literatures. The data collected were analyzed qualitatively and quantitatively.

This study is about Suklaphanta Wild Life Reserve buffer zone management and utilization of forest products, Suklaphanta Wildlife Reserve and Buffer zone has important natural resources like flora is sal, khayar, siwaw, simal etc. and fauna like 27 royal Bengal tiger, Blue bull, Barking deer, Hog deer, swam deer (1674), 19 wild elephant, 5 domestic elephant, wild boar, leopard, jackals, langur and rhesus monkey one horned rhino etc.

This study area has more population is Brahmin/Chhetri (62%), Tharu (13%), Kami/ Damai/ Sharki (18%) was found. All the people of buffer zone are primary user. The literacy rate of buffer zone area is 75.63% and large number of student has form as schooling. At the time of study buffer zone has secondary forest but inside of national park has evergreen and food forest. In the study area people are managing reward and punishment system for good management of buffer zone forest, gender participation of this area has some present in management and large present in utilization. They are using forest resources as grass, firewood and less amount of timber in the forest area. The main problem of buffer zone is crop raiding, timber, firewood, grass, greasing and irrigation and building materials and solution of problem and conflict by meeting in between park and local user groups.

Suklaphanta Wildlife Reserve, other organization and local people has conducted conservation education for protected park and buffer zone flora and fauna.

CONTENTS

Title F	Page	i
Recon	nmendation Letter	ii
Letter	of Approval	iii
Ackno	owledgement	iv
Abstra	acts	*
Conte	nts	V
List of	f Tables	viii
Abbre	viation	ix`
CHAI	PTER I: INTRODUCTION	1
1.1	Background of the Study	1
1.2	Statement of the Problem	5
1.3	Objectives of the Study	6
1.4	Justification of the Study	6
1.5	Organization of the Study/ Report	7
CHAI	PTER II: REVIEW OF LITERATURE	8
CHAI	PTER III: RESEARCH METHODOLOGY	13
3.1	Research Design	13
3.2	Site Selection	13
3	3.2.1 Rationale for the Selecting the Study Area	13
3.3	The Universe and Sample	14
3.4	Nature and Source of Data	14
3.5	Techniques of Data Collection	15
3	3.5.1 Household Survey	15
3	3.5.2 Interview	15
3	3.5.3 Participant Observation	16
3	3.5.4 Focus Group Discussion	16
3.6	Data Analysis and Interpretation	16
3.7	Limitation of the Study	17

CHAPTER IV: INTRODUCTION OF THE ST	FUDY
AREA	18
4.1 Pysio-Geographical Features	18
4.1.1 Geographical Setting	18
4.1.2 Climate	18
4.1.3 Soil and Land	18
4.1.4 Natural Resources	19
4.1.5 Settlement Pattern	19
4.2 Work of Organization	19
4.3 Socio-Economic Characteristics of the User's Group	20
4.3.1 Introduction of the User Groups	20
4.3.2 Introduction of Respondent and User	21
4.3.3 Demographic structure of User's Group (Respondent)	22
4.3.4 Educational Structure	23
4.3.5 Educational Attainment	24
4.3.6 Occupation Composition	24
4.3.7 Agriculture	25
4.3.8 Livestock	26
CHAPTER V: FOREST RESOURCES MANAGEMENT	28
5.1 Nature of Forest	28
5.2 Management, Activities and Conservation	29
5.2.1 Role of User's Group	30
5.2.2 Role of Park	32
5.2.3 Rewards and Punishment System	33
5.2.4 Gender Participation in the Forest Management	35
5.2.5 Women's Participation	36
5.2.6 Problem Associated with the forest Management and	
Conservation	37
5.2.7 Formation of User Groups and their Boundary	38
5.2.8 Meeting of Users' Group	39
5.2.9 Participating in Meeting	40
5.2.10 Registration and Handing over of forest of user group	40
5.2.11 Buffer Zone Management Committee	40

5	.2.12 Conflicts between UG and Park	41
5	.2.13 Problems and solution of conflict	42
5.3	Forest Resource Utilization	43
5	.3.1 Distribution and Use of Forest Product	43
5	.3.2 Use of Fund	45
5.4	Main Problems of Buffer Zone	46
5.5	Proper Management of Buffer Zone	46
5.6	Well Management of Buffer Zone	47
5.7	Crop Raiding	47
CHAI	PTER VI: SUMMARY, CONCLUSION AND	
	RECOMMENDATION	49
6.1	Summary	49
6.2	Conclusion	51
6.3	Recommendation	52
BIBL	IOGRAPHY	53
APPE	NDICES	

LIST OF TABLES

Table no. 4.1:	Information of User Groups	20
Table no. 4.2:	Introduction of Respondent and User Types	21
Table no. 4.3:	Age/Sex Composition of the Population of UG	
	Household	22
Table no. 4.4:	Literacy Rate by Sex of UG	23
Table no. 4.5:	Education Attainment by Sex	24
Table no. 4.6:	Occupational Composition of UG Respondent	25
Table no. 4.7:	Agriculture Composition of UG Respondent	26
Table no. 4.8:	Livestock among the UG Household	27
Table no. 5.1:	User's Group's Working Plan	30
Table no. 5.2:	Punishment System of Illegal Cutting	34
Table no. 5.3:	Punishment System of Illegal Interred the Domestic	
	Animals	35
Table no. 5.4:	Gender Participation Lies forest Product Collection	35
Table no. 5.5:	Gender Participation in Plantation and Bus Leafing	
	Activities	36
Table no. 5.6:	Problem Arising in Forest management	37
Table no. 5.7:	Source of Conflicts	41

ABBREVIATION /ACRONYMS

AD : After the death of Christ

BZ : Buffer zone

CBO : Community Development

CD : Community Development

DNPWC: Department of National Park and Wild Life

Conservation

FAO : Food Agriculture Organization

FRM : Forest User Group

GEF : Global Envtal Fund

HH: Household

Km : Kilo meter

KMTNC : King Mahendranagar Trust for Natural conservation

LNP : Langtang National Park

MNR : Mahendranagar

NAFP : Nepal Australia forest Project

NGO : Non-Government Organization

NP : National Park

NTFP : Non Timber forest Product

NUKCEP: Nepal-UK Community Forestry Project

PPP : Park People Program

SWR : Suklaphanta wildlife Reserve

UG : Use Group

UNDP : United National Development Program

VDC : Village Development Committee

WWF : World Wildlife Federation