

People's Participation in Community Forest Management
A case study of Bashpani Forest User Group
in Tupche VDC of Nuwakot District

A Thesis

**Submitted to the Central Department of Rural Development, Faculty of
Humanities and Social Sciences Tribhuvan University
in Partial Fulfillment for Requirement of the
Degree of Master of Arts
in Rural Development**

Submitted By
Baikuntha Nepal
Exam Roll No.:-3067-(2060/62)
T.U. Registration No.:- 6-1-40-0096-96

Central Department of Rural Development
Tribhuvan University
Kirtipur, Kathmandu
August, 2006.

RECOMMENDATION LETTER

This Thesis entitled" **People's Participation in Community Forest Management: A Case Study in Tupche VDC of Nuwakot District**" has been prepared by Baikuntha Nepal under my supervision in partial fulfillment of the requirement for the Degree of Master of Arts in Rural Development.

I hereby recommend this thesis for its evaluation and acceptance.

.....
Dr. Uma Kant Silwal
Associate Professor
Supervisor

Date:

APPROVAL SHEET

We certify that this thesis entitled "**People's Participation in Community Forest Management: A case study of Bashpani Forest User Group in Tupche VDC of Nuwakot District**" submitted by Mr. Baikuntha Nepal to the Central Department of Rural Development, Faculty of Humanities and Social Sciences, Tribhuvan University in partial fulfillment of the requirement for the Degree of Master of Arts in Rural Development has been found satisfactory in scope and content. Therefore, we accept this thesis as a part of the said degree.

Evaluation Committee

.....
Prof. Dr. Pradeep Kumar Khadka
Head of the Department

.....
Prof. Dr. Pradeep Kumar Khadka
External Examiner

.....
Asso. Prof. Dr. Uma Kant Silwal
Supervisor

Date :

ACKNOWLEDGEMENTS

This Thesis entitled "**People's Participation in Community Forest Management: A Case Study in Tupche VDC of Nuwakot**" has been prepared for the partial fulfillment of the requirement for Master's Degree in Rural Development. I acknowledge my deep sense of gratitude to my supervisor Dr. Uma Kant Silwal. His valuable guidance and encouragement through out the research project has made possible to shape my thesis in this form.

I am also very much thankful to all the respondents and other people of Tupche VDC, Nuwakot who provided their valuable time for interview with me or in focused group discussion and in informal discussions.

Thanks goes to my colleague Mr. Ram Kumar Shretha for his valuable guidance in preparing this report. Saroj K.C. deserves an appreciation who sat for hours of informal discussion on my research project. My sister Goma Nepal/Bhandari has given me her valuable time in typing this report on the computer and also helped me financially.

I say respect to my parents for their valuable support and encouragements to complete my postgraduate degree.

Many people have helped me directly or indirectly in the process of preparing this research work. It is not possible to name them all, I am thankful to all of them.. I remain, however, solely responsible for any shortcomings and errors that may have crept in this undertaking.

ABSTRACT

This research is conducted in ward no. 1 of Tupche VDC of in Nuwakot district. Here, the researcher had conducted the research on "People's participation on community forest management". It's a case study conducted on a small area but this research contributes valuable information on issues of participation equity and management in community forestry development at district and national level.

The overall objectives of the study is to access the "people's participation in community forest management". However, the objectives are to analyze the socio-economic characteristics of the respondents, to analyze the existing community forest management system in the study area, to know how the people one involved in CFM system and lastly to find out the problem related to the well functioning of FUG in the Tupche VDC.

The study is exploratory as well as descriptive in nature. It is based on a sample of 40 households whoever selected by using simple random sampling techniques. The data were obtained through interview schedule, observation, focus group discussion and check-list. Both primary and secondary data were used for the research. Data has shown that male population is dominant by female as well as the age above 16-60 is high in the study area. The economically active population is 55.46%.

Brahmin and Chhetri castes were the majority in the study area followed by Gurung, Tamang and Damai. In the case of education none of the respondents were illiterate.

After the community forest program was launched, the forest of Tupche VDC was handed to local people by the government. The overall forest management system in BCFUG is described on four categories: Operation management, Protection management, Utilization management, Promotion and development management.

After the people's participation in BCF, people of the study area were conscious about the activities related to CF. The data shows that 35% of the female respondent were actively participated in the meeting. But on the other hand 7.5% of the women were only participated in decision making process, this shows that the female percentage is lower than male in decision making process.

The finding of the study reveals that 83% of the total respondents are literate. The greater percentage of the population is engaged in agriculture. But in the case of conflict regarding management of forest, there still exist on conflict over access, conflict due to resource availability and conflict in sharing benefit.

The FUG has been playing role for the development of local human resource and also enhance the rural livelihood. It has also empowered people towards team building, group dynamism as well as self-motivation in community development. The direct and indirect benefits from the community forestry have played the greater role in the social life of the people in the study area.

Based on the above facts it can be concluded that the FUG has emerged as a viable institution for rural community development using local resources. It has been found that the FUG has maximum benefits to the underprivileged group of the community from such community development activities.

TABLE OF CONTENTS

	Page No.
Letter of Recommendation	
Letter of Approval	
Acknowledgement	
Abstract	
Table of Contents	
List of Tables	
Abbreviation/Acronyms	
CHAPTER-I : INTRODUCTION	1-8
1.1 Background of the Study	1
1.2 Statement of the Problem	3
1.3 Conceptual Framework	5
1.4 Objective of the Study	6
1.5 Rationale of the Study	7
1.6 Importance of the Study	7
1.7 Organization of the Study	7
CHAPTER-II : LITERATURE REVIEW	9-21
2.1 General Review	9
2.2 Development History of Community Forest	13
2.3 Community Forestry Management	14
2.4 Community Forestry at Present	17
2.5 People's Participant in Community Forestry	18
CHAPTER-III: RESEARCH METHODOLOGY	22-25
3.1 Rationale of the Selection of Study Area	22
3.2 Research Design	22
3.3 Nature and Sources of Data	23
3.4 Universe and Sampling	23
3.5 Data Collection Techniques and Tools	23
3.5.1 Household Survey and Questionnaire	23
3.5.2 Observation and Checklist	24
3.5.3 Focus Group Discussion and Topic Guideline	24
3.6 Data Presentation & Analysis	24
3.7 Limitation of the Study	24
CHAPTER-IV : SETTING OF THE STUDY .AREA	26-33
4.1 Location	26
4.2 Climate	26

4.3	Forest and Vegetation	27
4.4	Cropping Pattern of the Study	28
4.5	Social Setting	28
	4.2.1 Social-economic Profile of BCFUG	28
	4.2.2 Population Composition	29
	4.2.3 Education	30
	4.2.4 Occupation	31
	4.2.5 Cooking and Lightening	31
4.6	Community Forestry in Tupche VDC	32
4.7	Bashpani FUG and Its History	32
CHAPTER-V: COMMUNITY FOREST MANAGEMENT SYSTEM		34-46
5.1	General Overview of Management System in BCFUG	34
	5.1.1 Operation Management	35
	5.2.1.1 Formation of Forest User Group	35
	5.2.1.2 Selection and Structure of Executive Committee	36
	5.2.1.3 Membership	38
	5.2.1.4 General Assembly and Meeting	39
	5.2.1.5 Office Management and Financial Status	39
5.2.2	Protection Management	40
	5.2.2.1 Forest and Forest Plots	40
	5.2.2.2 Forest Guard	40
	5.2.2.3 General Rules for Protection of Forest	41
	5.2.2.4 Penalties and Reward System	41
5.2.3	Utilization Management	42
	5.2.3.1 Grass/Fodder Collection	42
	5.2.3.2 Firewood Collection	42
	5.2.3.3 Timber Collection	43
	5.2.3.4 Coal Collection	43
5.2.4	Promotion and Development Management	43
	5.2.4.1 Silviculture Practice	43
	5.2.4.2 Plantation	44
	5.2.4.3 Training and Awareness Programs	44
	5.2.4.4 Future Plans for Development of forest	44
5.3	Conflict within BCFUG	45
CHAPTER-VI : PEOPLE'S PARTICIPATION IN COMMUNITY FOREST MANAGEMENT		47-55
6.1	Sources of Forest Products	47
6.2	Forest Products Collection	48
6.3	People's Participation in Community Forest	49

6.3.1	Participation in Executive Committee and Meeting	49
6.3.2	Participation in Silviculture Activities	51
6.3.3	Participation in Other (extra) CF Activities	52
6.4	Factors Affecting the Women Participation in Community Forest Management	52
6.4.1	Traditional Role of Women and Social Norms	53
6.4.2	Education	53
6.4.3	Composition of FUG	54
6.5	Participation in Decision Making and Profit Sharing	54
6.6	Impact of Community Forest	54

CHAPTER-VII: SUMMARY AND CONCLUSION **56-63**

7.1	Summary of the Major Findings	56
7.2	Conclusion	60
7.3	Recommendation	62

REFERENCES

QUESTIONNAIRE

CHECKLIST

LIST OF TABLES

Table-2.1 :	Community Forestry National Database	18
Table 4.1 :	List of Vegetation Found in CF of Tupche	27
Table 4.2 :	Cropping Pattern of Study Area	28
Table 4.3 :	Population of Sampled HH	29
Table 4.4 :	Distribution of Family Member of Respondent by Age and Sex	29
Table 4.5 :	Distribution of Respondent by Caste/Ethnicity	30
Table 4.6 :	Educational Status of Respondent	30
Table 4.7 :	Occupation Status of Respondents	31
Table 4.8 :	Cooking Materials Currently Used by the Respondents	31
Table 5.1 :	Sex Wise Structures in Executive Committee	37
Table 5.2 :	Educational Status of the Executive Member	37
Table 5.3 :	Animal wise Detail of Penalties	42
Table 6.1 :	Sources of Forest Products (Grass and Firewood)	47
Table 6.2 :	Forest Products Collection (Sex wise)	48
Table 6.3 :	People's Participation in Different Level of CF Activities	50

ABBREVIATION/ACRONYMS

BCF	Bashpani Committee Forest
BCFUG	Bhaspani Community Forest Users Group
CBS	Central Bureau of Statistic
CF	Community Forestry
CFDP	Community Forest Development Program
CFP	Community Forest Program
Cu. ft	Cubic feet
DDC	District Development Committee
DF	District Forest
DFO	District Forest Office
DoF	Department of Forest
FD	Forest Development
FP	Forest Product
FUG	Forest Users Groups
FY	Fiscal Year
ha.	Hectare
HH	Household
HMG	His Majesty's Government
HMG/N	His Majesty's Government of Nepal
INGO	International Non-Government Organization
MPFS	Master Plan for Forestry Sector
NGO	Non-Government Organization
NPC	National Planning Commission
PF	Panchayat Forest
PPF	Panchayat Protected Forest
PRA	Participatory Rural Appraisal
VDC	Village Development Committee
Viz.	Those
Yr.	Year

CHAPTER - I

INTRODUCTION

1.1 Background

Nepal is the poorest of the poor country in the world. The total area of the country is 1,47,181 sq. km and out of that Hills and Mountains covers 68% of the area. Geographically, it is divided into three distinct regions namely High Himalayas, Hills and Terai. Nepal is recognized as a mountainous country in the world. More than 90% of the total populations are inhabited in rural areas and depending on agriculture. Most of the rural areas of the country are far-out of minimum basic development requirements. Quantity of land holding per family is decreasing due to population growth and along with productivity of the land is also decreasing, that is why, the rural poverty is spread tremendously. Thus, poverty is becoming a main constraint of development. The 10th five-year plan of Nepal has developed and poverty reduction strategy paper and directed towards strategic poverty reduction activities.

Forest is the life blood of society for a developing country like Nepal and also a great element for human beings. It provides daily life subsistence materials and services. That is why forest and human beings have mutual relationship. It is also regarded as a valuable and renewable resource. (Bajracharya, 1975)

Forest is one of the important natural resources of Nepal. Forest is complex ecological entities with a multitude of productive, protective and regularly functions. As for the production function of forests, the most important forest production include logs, timber, firewood, fodder, fruits, flower, fibers, medicinal herbs etc. Firewood from the forest is the most important energy resources for about 85% of the Nepalese people who live in rural areas. The protective function of forest include the role of forestry in preventing soil erosion and landslide prevention, protection and conservation of plant diversity, and an enhancement of scenic beauty in the countryside. The regulatory function of hydrological cycle of water regime, minimization of air and water pollution by absorbing carbon dioxide as well as other harmful elements, moderation of adverse effects of light, heat, wind and other

climatic process. Forest, which is a renewable resource, performs multifarious function by providing various valuable services and products. It conserves watershed, protect from flood and soil erosion, help to regulate climate and is also a habitat for various animal and plant species. Also, the forest provides fodder forage and litter to the livestock, wood for domestic use and trade, composting and thatching materials, farm implements fruits, honey, oils and medical herbs. In brief the forest has been playing crucial role in sustaining the farming system in Nepal since long (Devkota and Joshi, 1991).

The forest is directly linked with the economy of the country and the rural people's livelihood. So, different option have been implemented in different time and period for the protection and management of the forest in Nepal. Community Forest (CF) is a major program of Nepalese forestry sector. The concept was formally launched in Nepal in 1978 with the promulgation of Panchayat Forest Rules and Panchayat Protected Forest Rules and Panchayat Protected Forest Rules in 1978. Nevertheless, the concept was incorporated earlier in Nepal's first National Forestry plan 1976 and related legislation 1977 (Gilmour and Fisher, 1992, Chapagain et, al 1999). In 1989, the Master Plan for Forestry Sector (MPFS) was published which placed highest priority on CF recognizes the importance of need of people's participants in protection, production management and utilization of forest (Gilmore and Fisher 1992 cited in Tembe 2061).

Nepal is a multi-ethnic society and equity issues one very important in any development process including community forestry. Moreover, gender issues are of particular importance in forest management as women and children mainly do fuel wood and fodder collection. Women are the principal fuel-wood and fodder collector in Nepal. Therefore, they are the most adversely affected population by the process of deforestation.

Community forestry emphasize a gradual shift from a highly technical "Classical forestry management approach to a "Participation approach" which is people oriented (Gilmour et al, 1988).

Hence, community forestry in Nepal is about establishing and partnership between HMG and the forest users group in which CF is seen as a deliberate and

conscious application of business method and technical forestry. Principles to help village community. People participation is the most essential feature of community forestry in Nepal. Because of mass illiteracy and backwardness it has been termed very difficult to get people's participation in any forestry projects in Nepal (Gilmour et al, 1988).

CF is defined as “the forest protected, managed and utilized by local forest user groups;” The community forestry is a small scale, village level forestry practice where decision and action are often made on a community/collective basis. And where the rural population participates in planning, establishment, management and harvesting of forest crops and receives a major proportion of the socio-economic and ecological benefits from the forests (Kayastha, 1991).

In Nepal, out of the total territory, 14.7 million hectares forest covers total 5.5 million hectares (ha), which equals to 37% of the land area. Only 11% of natural forest are in Terai and High Himal Zone, the remaining area is evenly distributed across the Middle hills and Siwaliks of this land area 3.5 million hector 61% has been identified as potential community forests, which could be handed over to local people for management. According to Department of Forest (DoF, 2002), the total area of handed over CF is about 925,089 hector to about 11,749 user groups and it has benefited about 12,92,184 families from the implementation of Community forestry operation Plans in Nepal (Neupane, 2005). Present day forest management is moving towards a participatory model, where foresters are supposed to provide technical and other advisory services to the local people regarding the management of forests. Resource scarcity is one of the prime motivating factors for user groups to participate in the management of community forests.

From the early 1980, however the community forest programs were introduced in Nepal to mobilize the local people in grass root level. But not much evidence is available for its successful results.

1.2 Statement of the problem

Forestry sector plays a central role in economic & social life of Nepalese people. Forestry encircles many objectives: economical, rural development (poverty alleviation, employment and empowerment creation, self-reliant), tourism, natural

biodiversity conservation. Majority of Nepalese people depend on Nepal's immense natural resource for their livelihood. Once green forest were national wealth of Nepal, but now the situation has greatly changed. With the growing population the need and demand of forest have greatly increased. At present the area of forest has estimated about 37% only (Neupane 2005). Subsequently, there are very few forest that are not under severe pressure from the nearly population. The responsible causes for this are rapid deforestation, weak conservation system, unscientific cultivation and management system and uncontrolled population growth.

The concept of community forestry is based on the principles of people's participation. In other words it is thought that forest can be effectively managed under the responsibility of the local people rather than government control. The users' awareness level of the forest resource is important as well as necessary element for their livelihood.

Considerable efforts have been made to conserve forest in the hills of Nepal, but in the end use, we find ourselves cutting trees is not bad in itself as a forest is a resource which should be utilized regularly in a managed way. Forest provides numerous benefits to the people and to support economic growth. The present trend to utilizing to the point of total destruction in the hills of Nepal has become a major problem. The reason is the lack of proper management system. In effect, a renewable resources is being treated as a non-renewable resources. Therefore, the main concern of the forest sector in the hills of Nepal is to stop this trend and for this purpose the preparation and implementation of management plans are essentials (Karmacharya, 1978).

The procedures of transferring forest ownership from DF to the FUGs have not yet been systematized. It needs further requirement based on the lesson learned from different part of the country (Karki, 1994).

Deforestation is the main problem in our country and people were the main users of forest and to stop the illegal activities, it is very necessary to participate people on community forest management. This potential activity helps the people of that particular area in community development. In this study, it is felt that in order to develop the forest or even to stop the rapid increasing deforestation process, only

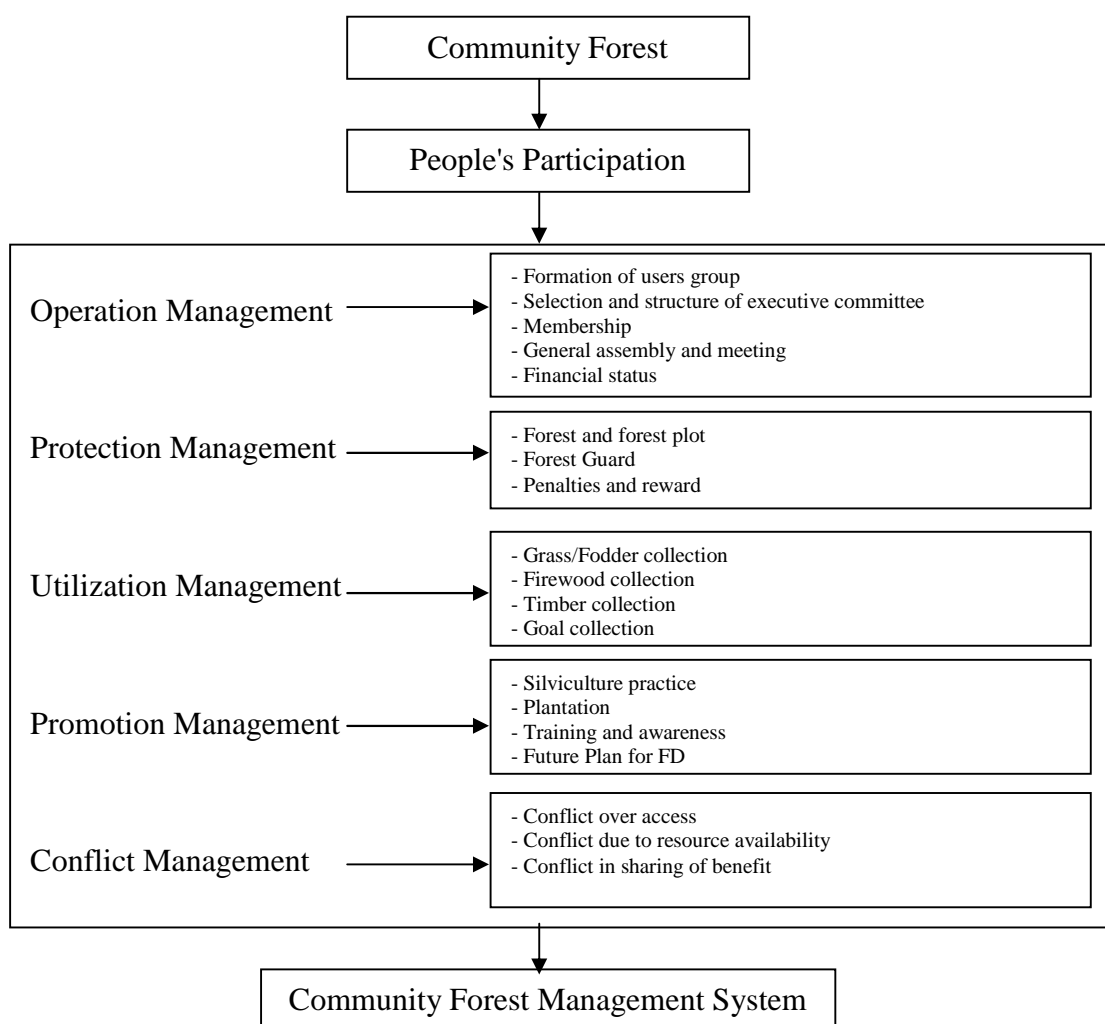
government efforts are not enough, people themselves should be made conscious for their active participation in community forest promotion. So people participation plays vital role of the forest product.

However there has not been studied which examines the participation of people in the user committee and some recommendation to improve the organization and participation of people in forest resources management. So to fill the gap this study plays a vital role for management. However the study is mainly focused on the given problems:

- What is the opinion of the user towards their forest?
- What is the role of people in utilization of forest product?
- What are the sources of forest products?
- Will the existing forest management system be sustainable?
- How actively the entire CFUG members participate in Community Forest activities?
- What are the responsible factors that affects in people's participation in CF management.

1.3 Conceptual Framework

The overall conceptual framework has guided this research. the conceptual framework has been developed to investigate the factors which are main responsible to make people participation in community forest management. In this study people participation is taken as independent variable. People participation in different CF activity has its impact in CF management. Indicators that are considered to ensure the people participation in 5 different management aspect of this study are general assembly and meeting, formation of users group, selection and structure of executive committee, collection of grass/fodder/firewood/timber, forest and forest product, penalties reward, silviculture practice, plantation, sharing of benefit etc.



1.4 Objectives of the Study

The general objective of this research is to assess the people's participation in the user committees' activities in the study area. The specific objectives however are:

1. To analyze the socio-economic characteristics of the respondents.
2. To analyze the existing community forest management system in the study area.
3. To understand people's participation in community forest management system.
4. To identify problem related tot he well functioning of the FUG in Tupche VDC.

1.5 Rationale of the Study

In Nuwakot district, very limited studies have been carried out about the people's participation in CFUG. The major contribution is providing valuable information issues of participation, equity and management in community forestry development in district and national level.

This may be helpful to policy maker, planners and professionals in journey to consider people's participation, equity and management in community forestry development in district and national level. The study also helps to promote the role and importance in forest management, role of people in CFUG and also their action towards community development.

This study also helps to researcher to develop skills and confidence on the research purpose as well as enhance the sociological and anthropological knowledge at the academic levels.

1.6 Importance of the Study

This study will be important for investigating the changes in the CFUG study area. The findings of the study will be helpful for the implementing agencies in the formulation of plans and policy maker for to formulate the appropriate plan for further development to gain economic achievement and also to improve the participation approach in community forestry of the users. It may open up the further problems to be researched. The findings of the study may help the rural people to decide for participation in community forest management.

1.7 Organization of the Study

The present study consists of all together seven chapters including introduction, literature review, research methodology, introduction of study area, community forest management system, people's participation in community forest management, summary, conclusion and recommendations respectively.

First chapter is about the introduction including background of the study, statement of the problems, objective of the study, conceptual framework of the study, rationale of the study and organization of the study.

The second chapter discusses the review of literature including general review, development history of community forest at present, community forest management and people participation in community forestry.

Third chapter is about the research methodology including rationale of the selection of the study area, research design, nature of sources of data, universe and sampling, data collection technique and tools and limitation of the study.

Similarly, chapter four explain about the study area including location, Climate, forest and vegetation, cropping pattern of the study area, social setting, community forest in Tupche VDC and Forest User Group and its history.

In chapter five, community forest management system discusses the overall management system of Bashpani community Forest User Group and also the conflicts within the user group.

The chapter six discusses the sources of forest products, collection of forest product, people's participation in community forest management and community development activities and also the women's participation in community forest management. It also analyses the participation of people in different level of community forest management and impact of community forest on the local users and community.

Summary, conclusion and recommendation are presented in the chapter seven.

CHAPTER - II

LITERATURE REVIEW

2.1 General Review

Forest management has traditionally been a major public policy issue in Nepal, although historically forest has been shaped by political and economic motives rather than by ecological consideration. The tradition of governmental control and protection of forestry resources dates back to ancient times when dense, malaria-infested forests were seen as an important buffer and defense against marauding invaders from the southern plains. Feudal lords imposed rigorous controls upon the use of strategically placed forests although in certain localities forest of particular religious significance were also accorded special protection. In a study of community and forest management in South Asia, Poffenberger has discussed the different transitions in forest management paradigms in South Asia. Accordingly while population and forest exploitation levels have expanded dramatically over the past years, fundamental shifts in human resources management systems have also played a part in shaping the fate of forest. These changes in social forestry. These changes in social forestry result from the competition of different paradigms or models of management paradigms exist contemporaneously. (Poffenberger, 2000)

In the history of forest management in Nepal, different management strategies can be found according to geographic condition. The forest management has been distinctly different in the Kathmandu Valley, the Middle Hills and the Terai. Forests are an integral part of the kingdom. As Poffenberger has written, during the Lichhavi Dynasty, there were the decentralization administrative policies in Kathmandu valley that supported communal organization like the *guthi* and *panchali*. Ancient inscriptions that indicate that authority in forest matters were largely a communal matter; with dictates from King Shiva Dev in the middle of the fifth century empowering village councils to oversee use. During the Malla Dynasty in the eleventh century, there was the temple forest network in the valley, with the provisions that banned all hunting, gathering and fires. Malla rulers also gained revenue by exporting timber, wax, honey, birds and elephants collected in the forest of Terai. By the eighteenth century, forest management practices for temples, Royal land and

communal holders in Kathmandu valley were clearly articulated and actively implemented.

The history of the Middle Hills' forests followed a different course. While sophisticated cultures were developing in Kathmandu valley, the hills remained sparsely populated by tribal communities of Tibeto-Burman speaking people. Most of the hill tribes of Nepal held all their lands under a form of *Kipat* (communal control) system. Responding to pressure from new waves of Islamic rulers moving into the Indian Plains from the northwest, a steady stream of Hindu people settled in the middle hills from the eleventh century onwards. With superior weapons, wet rice technology and greater literacy, high caste Hindus with their lower caste retainers, began subordinating the existing Mongoloid society, influencing their crops and cultivation practices. Indigenous systems of communal forest and land management were gradually supplanted by feudal systems of control.

Nepal began developing a national identity in the middle of the eighteenth century, when Prithvi Narayan Shah, founded the present line of monarchs and began uniting the country. Shah made alliances with Gurungs, Magars, and other hill tribes, allowing them to retain communal *kipat* systems of land tenure. Nonetheless, over the next two hundred years, the hierarchical caste-based social structure favored lowland Hindu migrants, while the nobility sought to extend their influence and territorial control through making acquiring land grants (*Birta, guthi, jagir*) *Birta* is an ancient land-tenure system under which lands grants were made usually to the nobility or senior office holder. *Guthi* grants were made to support the temples, monasteries, religion foundation and charitable institutions. *Guthi* land endowments included both crop land and forest. *Jagir* land grants were made in lieu of salaries, especially to army, officials and other government employees. In *Jagir* system, jagirdars (grantee) received all the benefits of the land (Mahat et. al, 1987).

The history of forest management in the terai differs sharply from the experience of the hill forest. The dense Sal forests of the terai resisted settlement and logging for centuries due to the prevalence of malaria throughout the region. Only the *Tharu* and several other tribal communities resided in the area practicing hunting, gathering and farming. As early 1793, with the realization of the forest resources of terai as important source of revenue for the government, the government had

established administrative regulation centralizing the timber trade, with new orders in 1799 controlling the selling wax and certain other forest products.(Mahat et. al, 1987).

The land in Nepal was traditionally seen by the state as its important resource. Cultivated land was of prime importance as its products could be taxed in one way or another. Forest, on the other hand, was seen as virtually wasteland, a view doubt encourage by the great surplus of forest resource that must have existed centuries ago. It was therefore in the interest of the state to encourage conservation of forest to agriculture land and this policy was pursued energetically and coercively over a long period, the Rana policy of agriculture development after 1845 also mainly involved expansion of the area of agriculture land. They also argued that the deforestation of the middle hills of Nepal has been caused mainly by this land-use policy of the government, which promoted the conservation of the forestland to agriculture land. During Rana regime, the forest of Nepal have been strongly affected by the different external influences, such as land grants, exploitation of forests for the purpose of building and smelling for national purpose, have all had a profound influence on land use, and deforestation in particular. Further, the forest land is an integrated part of the agro-ecosystem but a significant proportion of this land, both government and privately owned is being over used or used sub-optimally. This is leading to severe ecological imbalances, which threaten the continued viability of the agro-ecosystem and could contribute to a major ecological disaster. The possible solution was the adoption of community based forestry activities as a means of raising the productivity of all the non- cultivated land and also for more drastic restructuring of the society to become one less dependent on the fragile ecosystem. By the time of Rana Government was over thrown in 1951, one-third of the country farmland and forest and were held under *Birta* with 75 percent belonging to members of the Rana family. During the same period, Private Forest Nationalization Act of 1957 strengthen the Nepal's forest. All the private forestlands of the country especially the *Birta* and *jagir* land grants, became public domain and were largely nationalized and placed under the jurisdiction of Forest Department. A major goal of the forest Nationalization Policy was end the feudal system of resource control that had evolved over a century of Rana government administration . Eliminating feudal tenure authority created opportunities for greater control by local communities (Mahat et. al., 1987).

Traditional management of forests by specific local groups was common especially among the hill communities. To recognize these traditional users and the traditional use practices of the forests, His Majesty's Government of Nepal (HMG/N) realized the need of involving local communities in the forest management in 1961. However, Community Forest Program was initiated in Nepal in the late seventies. In the 1970's, the Community Forest Development Program (CFDP) introduced the concepts of Panchayat Forest (PF) and Panchayat Protected Forest (PPF), Leasehold Forestry with the purpose of handing back the protection and management of the forest to the people. In the 1980s, decentralization regulations were introduced in the forestry sector to further establish and foster local peoples' and local organizations participations in the management and development of PF and PPF. In the 1990, the end of Nepal's Panchayat system of government brought a change in the status to PF and PPF. Today, the term "Community Forest (CF)" is used to refer to any forest under user groups protection and management.

The community forestry policy focused mainly on:

- Handing over accessible forest to the forest user groups (FUGs) irrespective of political boundaries. FUG is made up of households living near by who been traditional users of the forest resources.
- FUG to get all income generated from the community forest resources. As the FUGs start management they get forests products from cleaning, pruning and thinning operations. They are distributed among the users and surplus is sold outside the FUGs.
- Orientations of the entire forestry department staff to cater for change of their traditional role as a policeman than extension worker (Neupane, 2005).

In Nepal, current forest policy puts great emphasis on community forest management. Community forest is based on the notion for people's participation of the forest users to manage their resources. Consequently, the management of national forest is being systematically handed over to identify community of users (Bhattarai, 1997). The focus of the Master Plan is on the basic needs of the Nepalese people and on the requirement to meet those needs. The main policy of the Community and Private Forestry Programs is to develop and manage forest resources through the

active participation of individuals and communities to meet their basic needs. The main Component and Private Forestry Programs are:

- Establishment and management of community forestry in open and degraded areas.
- Distributions of free or subsidized seedlings to encourage the establishments of private forests (MoF, 1989).

Nepal's most recent modification of legislation, the Forest Act 1993 aims at securing basic needs for forest products by forming user groups for joint forest management giving "priority to poor communities, or to the poorer people in a community" (Tembe, 2061). Thus, community forestry is generally praised as a community based process of empowerment of local groups. The new forestry legislation, Forest Act 1993 and Forest Regulation 1995, is supportive and conducive for community forestry development in Nepal. Accordingly DFO, it is authorized to hand over any part of accessible national forests to the communities, in the form of community forest for protection, management and utilization of forest, who are traditional users of the forests, if they are interested to manage the forests. Any amount of national forest can be handed over to FUGs if they indicate that they are capable of managing the forests. FUGs are autonomous and corporate bodies with succession rights. FUGs can plant long term cash crops such as medical herbs, without disturbing the main forestry crops and can fix prices if forest products irrespective of the government royalty. DFO can take community forest back from FUGs if they go against the operational plan. However, the DFO must give back the forest back to newly reformed FUG as soon as possible once the problem is resolved (Neupane, 2005).

2.2 Development History of Community Forestry

The forest Act of 1978 has introduced the concept of Panchayat Forest and Panchayat Protected Forest, Based on that concept the forest was managed at village level by village Panchayats. The Forest user Group concept was introduced in the Decentralization Act of 1982 where the concept was promoted as the most effective approach for development and management of natural resources in local communities.. Village Panchayat was the part of governmental structure, the user

groups are autonomous legal entities, and a significant devolution of power to the user groups has taken place in the forestry sector (Shrestha and Shrestha, 2002). This is the most effective and appropriate to preserve and develop the forest of Nepal.

The community Forestry Program in Nepal was officially initiated in the late 1970s. Since then, a movement has been evolving to involve local communities in the management and utilization of forests (Kandel et al. 2003). Particularly, the National Forestry Plan (1976), the Decentralization Act (1982) and the Master Plan of Forestry Sector (1989) specify the importance of local control over forest and local needs. On this ground the Forest Act of 1993 and the Forest Regulation Act 1995 have reaffirmed that the government's responsibility of forest protection and management has devolved to the local communities (Bhattarai, 2002). In Nepal, along with the decentralization, devolution of power in use and management of forest resources, especially through Community Forestry (CF) is remarkable (Subedi, 2002).

2.3 Community Forest Management

In the Forest Act 1993 and Forest Regulation 1995, provisions relating to the Community Forest are fully defined. The main features of the Forest Act are:

-) District Forest Office has been empowered to hand over any patch of national forest directly to the Forest Users Group along with operational plan prepared by users themselves.
-) Users Group has authority to fix the prices of the forest products independently to sell the products, to transport the products freely anywhere within the country, and to use the fund partly for the forest development and partly for the village development.
-) Users Group can appeal to the Regional Forest Director if the District Forest Office decides to resume the community forest and cancel its registration.

Community forestry was initially defined by FAO as any situation which intimately involves local people in a forestry activity. It embraces a spectrum of situations ranging from woodless areas, which are short of wood and other forest

product for local needs, through the growing of trees at the farm level of provide cash crops and the processing of forest products at the households artisan or small industry level to generate income to the activities of forest dwelling communities (FAO, 1998).

Community Forestry is seen as control, management and use of forest resources by villagers. It seeks to increase the level of awareness of local people and actively to involve them in all aspects of forestry activities (Fishwer 1988).

To involve women in community forestry we first learnt that we have to identify the priorities of women, which may not necessarily be directly related to forests. Secondly these priorities are to be set as goals. Thirdly a prescription of action to achieve the goals needs to be developed. Then through such activities the action involvement of women can be realized within the community forestry (Kharel, 1993).

Nepal's community forestry programme involves the transfer of responsibility for management of forest resources to local people. As these resources are to be managed collectively by the community. The effective management of common property by a collective is not the theoretical problem that it is asserted to be simply because the theory assumes that economic behaviour is played out as if it were a game disembodied from social relations in general. The reason why people conform to practices, which are against their short-term economic interest, is that they have other interests besides narrowly defined economic ones, including the desire to maintain social relationships (Fisher, 1988).

Nepal has successfully implemented Community Forestry Programme (CFP) so that Nepal is also recognized as a world leader in the field of community forestry. CF has not only influenced the economic development of rural people but also has influenced the community life. According to one of the founder of FUG, community management of forest has changed the concept of community life. Villagers do not think in terms of personal benefits. Rather, they think in terms of collective benefits. The money earned from the forest can be spent in community development works like widening of trail roads and supplying potable water (Poffenberger, 2000).

Community forestry has received the highest priority in the forestry sector program of the government as reflected in both the Master Plan for the forestry Sector (HMG, 2004) and the Eight Five Year Plan (NPC, 1992). The main thrust of the

community forestry policy of the government is the phased transfer of management and utilization of community forests to the actual users based on simple operational plans, which are prepared and endorsed jointly by the forest users and the assistant rangers from the District Forest Office. Assistant rangers are supposed to help the users in preparing the operational plans. The operational plan is a simple document, which describes the rules, schedule, and other institutional arrangements made for forest production, management, and utilization (Acharya, et al., 1993 Cited in Neupane 2005).

It seems to be likely that sustainable management can occur when management plan are developed by the people most closely concerned with the individual patches of forest the users themselves with assistance provided by Forest Department or other NGOs. Participatory approach that emphasizes the importance to defining problem and developing solution in participatory fashion with user involvement is the most appropriate approach to develop a sustainable management system. The focus on user groups as the most appropriate groups for implementing forest management is recent and an appropriate one (Karki et al, 1994).

"Wise utilization is conservation" and for wise utilization a proper management system is essential. Only through proper management system will we achieve the goals that have been set and obtain the yields that have been prescribed in the management plans. A management system in community forestry should be based on the fact that a forest needs tending to ensure that it delivers the optimum sustainable yield, and that it is regenerating. The aim is for the communities to be self reliant in forest management and also to ensure that the benefits from the forest are equitably distributed. Forest management must also be concerned with controlling environmental degradation (Karmacharya, 1978).

It is necessary to involve users in starting of management plan and clearly identified the users who are responsible for management and will be benefited from forest. The management plan therefore should be able to respond to the particular situation, ecology as well as socio-economy of the people where the forest patch is situated (Khadka, 1991).

The success of community forestry program in Nepal is contingent on the local communities or user groups of forests becoming confident enough to carry on the protection, management and utilization prescriptions in their operational plans in order to meet their requirements of forest and tree products. Thus, implementation of the operational plans is essential for an effective implementation of community forestry itself (Chhetry and Baral, 1992).

Community forestry is not just a special technology but rather a process of socio-economic change that requires continuous participation of the community in planning, implementation and problem solving. Community forestry is not just planting trees; it is a bundle of activities, which generate a supplementary flow of income to the community by utilizing either unutilized or ill-utilized land (Kayastha, 1991).

Nepal's community forestry programme involves the transfer of responsibility for management of forest resources to local people. As these resources are to be managed collectively by the 'community'. The effective management of common property by a 'collective' is not the theoretical problem that it is asserted to be, simply because the theory assumes that economic behaviour is played out as if it were a game disembedded from social relations in general. The reason why people conform to practices, which are against their short-term economic interest, is that they have other interests besides narrowly defined economic ones, including the desire to maintain social relationship (Neupane, 2005).

2.4 Community Forestry at Present

Community Forestry has been a major program of the forestry sector of Nepal. In the last 26 years, it has made impressive achievements. Thus, it is widely celebrated as one of the most progressive examples of developing control over forest resources to community based user groups (Britt, 2001). At present, we can proudly say that Nepal has moved away from being a country of ecological doom to a community forests (Shrestha,2001).

Community Forestry policy is recognized as one of the most progressive policies in the world (Kanel et. al, 2003 and Shrestha, 2001). The policy has transferred the responsibility of managing government forest to the communities and

provided right of using the forest products in a sustainable way and the with the ultimate policy objective of improving livelihood of rural communities (Kanel et.al, 2003). This program promotes the control and use of forest resources by the local people. To ensure their legitimate right, the Forest Act 1993 defines the forest user group as an autonomous and corporate bodies with perpetuate succession. The FUGs are legally authorized to sell and distribute the forest products independently fixing their price (Kanel et.al, 2003; Chapagin et.al, 1999)

Table-2.1: Community Forestry National Database

7Total area of the Community Forests handed over	1,077,714ha
Total number Community Forestry User Groups	13,185
Total number of household involved in FUGs	1,484,591
Average size of the Community Forest	81 ha
Average Forest Area per household	0.72 ha
Average household per community Forestry User Group	122.50
Number of Women only Community Forest User Groups	663

Source:- DoF FUG national database, 2003

2.5 People’s participant in Community Forestry

People’s active participant in forest resources development which would be stimulated by their own thinking and deliberation and over which they control. An effective way for achieving people’s participation is through community organization which local people will themselves set and manage (Barlett and Nurse, 1992).

The new participation approach and participatory silviculture to improve dynamic linkage between forest management and rural livelihood in the community forest in the middle hills of Nepal. As he found that the existing mixed (indigenous, diverse, specialized) type of silviculture systems CF were more complex than generally considered and also identified several issues and challenges in the interface between silviculture practices in CF and rural livelihood. He stated that the existing overall strategy of the community forest management is timber-oriented, which may be harnessed by an innovative approach to silviculture that consists of new

conceptual, methodological and substantive element to give to practices that better ecological, economical and social standards (Ojha,2001).

Nepal has successfully, implemented community forestry program with the active participation of local people. Forest committee formed by user groups take the responsibility of protecting, plantation and conserving natural forest. People participate in all stages of decision making, planning and reaping benefits. They show ample interest in nursery and plantation works. According to one study it has been found that private planting is the most successful components of the community forestry program. Even the poor are willing to participate in community forestry program because they can collect fuel wood and fodder from the community forests and save their time for earning wages (Kayastha, 1991).

The main strategy of HMG a Master plan was to promote people's participation in forest resource develop community forest user groups as one of the important alternatives for the forestry sector in Nepal(Dhahal, 1994).

Chhetri and Pandey carried out eight detailed case studies of forest user groups in Baitadi and Achham districts in Far Western Nepal. These eight studies suggest that people's active participation is a key solution to effective protection and management of common property resources particularly forests (Chhetri and Pandey, 1992).

According to Verma, in the extreme, participation can be "forced or imposed" on a group of people. In this case, they are forced to donate their labour to plant trees on government land. The second level of participation is "induced participation" in which people are convinced that they should plant certain types of trees or protect the forest. The third level of participation is "guided participation" where the forester's work with the user groups who may have formed their own, but the forester's field staff makes many decision in the process. The people are guided in the direction that the fields staffs determines. Real "Participation" means the users are empowered to direct their own project. The users make the decision; they initiate the process and the use the forestry staff for technical help and advice. With true participate, the Forest Department does not make decisions for the people, its staff does not have to convince the people to do activities, instead the foresters provide support for the

user's chosen activities. Participant will really only happen when people are aware of and exercise their rights (cited from Neupane, 2005).

No development effort can succeed without the people's cooperation and commitment and effective development take place through a top-down process alone. In other words, people's participation in an imperative. People participation means different things to different people. People's participation can be at many levels of a continuum. Participation is a process by which people become involved in all stages of situations that affect their lives. Involvement includes studying, making decision and acting. Stages include appraisal, planning, implanting, monitoring and evaluation (Desmond, 1996).

There are a number of benefits to the government that can be gained from promoting people's participation.

-) More accurate and representative activities information about the need, priorities and capabilities of local people.
-) Adaptation of program activities to meet local conditions so that scarce resources can be employed more efficiently.
-) Local cost of access to the public for extension programs through local institutions and organizations.
-) Tapping of local (indigenous) technical information that can otherwise be costly to obtain.
-) Improved utilization maintenance of government facilities and services.
-) More reliable feed back on the impart of the government initiatives and programs.
-) Active co-operation of local on new programs (Uphoff, 1992).

People participation is the most essential feature of community forestry. It should be the principal aim of the community forestry to involve people in all stages from decision making to harvest (Kayastha, 1991).

The active participation of villagers should be encouraged in the different activities of community forest. Accordingly, implementation of the operational plans,

which were developed by the users in conjunction with Forest Department field staffs, has shown that there is a continuing role of the Forest Department field staff after the plan has been approved. Where the villagers do not have experiences in harvesting green forest production training may have required. When conflicts arise the field staff or DFO may be requested to act as an arbitrator. It is preferable that the villagers be given the opportunity to solve their own conflicts before the field staffs taken an active role. It must also be recognized that in many cases the first Operational Plan negotiated with the users groups may not be perfect and it may need to be modified as the users gain experience. The composition of the user group may change over time and the user may wish to vary the rules and management prescriptions (Acharya and Barlett, 1991).

Rural people perception of social forestry, cost and benefit of social forestry is a prerequisite for the study of people participation.

CHAPTER - III

RESEARCH METHODOLOGY

This chapter focuses the overall methodology and limitation of the present study. It explains the procedures of the study from beginning i.e., selection of the study area to the end i.e., analysis of the data and presentation. It includes research design, nature of data, sampling procedures, data collection technique and tools used in the present study and data analysis. It also defines some variables and terms used in the present study.

3.1 Rationale of the Selection of Study Area

This study is carried out in Nuwakot district of Tupche VDC ward no 1 named as "Bashpani Community Forest User Group". The main reason for the selection of this group is that this community forest is located in the accessible area closed to motor able road; the study also aim to include different ethnic groups and it is considered as the best FUG in its protection system and implementation of operation plan among other forest in the Nuwakot, because of good safeguarding of the forest by its user from fire protection, Woodcutters, and timely performed the Silviculture activities (Thinning, Pruning, Weeding and Cleaning of the Forest Area). The total households of the study area are 278 (including both permanent and temporary settler). It's forest area is 58.2 hectare. Different ethnic group such as Gurung, Tamang, Dhimi, Brahman and Chhetri etc. are the main habitants in the target area. Majority of the people in these area depends on agriculture, business, service and forest resources.

3.2 Research Design

Descriptive and exploration research design was used in this study. The emphasis is given on the qualitative rather than the quantitative aspects of the information relating to the management condition of forest as well as role and activities of people's participation in forest management system.

3.3 Nature and Sources of Data

In this study, both primary and secondary sources of information were used. Primary data were collected from the field survey with the help of interview schedules, observation, group discussion. Secondary data were collected through published and unpublished books, reports thesis, journals, papers, records etc for required quantitative and qualitative information.

3.4 Universe and Sampling

The study area is homogenous in terms of membership, FUG however they are different and varying in terms of cast/ethnicity/economic and other socio-economic attributes. A systematic sampling has been used for selection of the respondents. There are total 205 beneficiaries households in universe divided in 4 cluster or settlements based on community settlement pattern of ward no 1 of Tupche VDC. It is hoped that a sample size of 10% of sample frame from each cluster could represent the status of the whole community. 10 Person from the respective cluster. So the interview was taken with 40 beneficiaries households. However, the study focused to both the male and female respondents. Respondents were selected from economically active age group (15-60 yr) from the member of CF. Out of total 40 respondents 21 were male and 19 were female.

3.5 Data Collection Techniques and Tools

Both primary and secondary data collection methods were used in this stud. Primary data is a major factor it fulfills the objectives of the study. Some of the stander tools and technique were used in order to collect primary data from the study area. Interview schedules, observation, focus group discussion have been especially taken as tools for the study.

3.5.1 Household Survey/Interview Schedules

Household Survey has been used to collect information regarding personal information, family background, socio-economic status, relation to the forest, people's participation in different activities and its role in community forest

management as well as in utilization of forest product. A sample of Schedule is annexed to this report.

3.5.2 Observation

Observation is also a method of primary data collection in which the researcher observes various phenomena by involving himself in a number of groups. Observation is useful in observing the forest resources, performance of forest user group, forest management system, sharing of forest products, role and responsibility of the user group in forest management process, decision making in user groups and function of the forest user group.

3.5.3 Focus Group Discussion/Checklist

Focus Group Discussion is used to obtain basic information regarding community forest condition, management, protection, development and conflict with the beneficiaries' households and executives committee members. 6 to 10 persons were in focus group discussion and 2 focus groups held at the time of field work.

3.6 Data presentation and Analysis

The data collected were through various sources using different data collection technique were put together, processed and analyzed manually. The present study attempts to present or describes the data in vary simple and communicable terms and language as far as possible. The presentation of quantitative information in tabulation form is carried out by simple mathematical tools such as percentages, graphs; charts etc. where as qualitative data were analyzed and presented in descriptive manner. Maps, diagrams and photographs are prepared as far as possible.

3.7 Limitation of the Study

This study was carried out only in one FUG in Nuwakot district. Thus a vary small area of study cannot represent the whole country as well as district. The sample size is not probabilistic in this study. This study covers only a few selected variables, which is limited to in-depth analysis. This study is primarily based on only 20 percent of the total user households.

Being a thesis of non professional researcher; detail study is not possible due to the budget and skill. This research is dealt with people's participation in decision making at community level not at the household level and benefit sharing indicators of forest products only and forest management and it can not generalize in other natural resource management process. Simple statistical tools (i.e. diagram table, percentage, ratio etc) has been used to analysis the data.

CHAPTER - IV

SETTING OF THE STUDY AREA

This chapter discusses the locating, geographical setting and biophysical setting of the study area and the socio-economic profile of the community forest user group.

4.1 Location

There are 75 district in Nepal. Out of them, Nuwakot is one. In this district one is municipality, thirteen are *Illaka Karayalayas*, and 61 are village development committee.

Tupche VDC is one of the 61 VDC of Nuwaiot district of Bagmati zone. It is situated at 85° 13' to 85° 17' east longitude and 27° 51' to 27° 54' north latitude. The elevation of this VDC is 600m to 1500m from sea level. The total area of this VDC is 1121 sq. km. There are 1239 HHS with a population of 6264 comprising male 3076 and female 3188. The average households size is 6.39.

There are 11 ethnic/caste groups namely Brahmin is the dominant ethnic group in the VDC. Agriculture is the main occupation for more than 80% households of the VDC. Farming is mostly of traditional type.

This VDC lies between Bidur municipality and Trishuli river in the North, Rasawa district and, Manakamana VDC in the east and north But Bungtang VDC in the west. The rivulet 'Trishuli Khola' is continuously flowing east to west from eastern part of this VDC. The study area is a *Bashpani Ban* which cover 58.2 hectare of non-irrigated land of ward number one. The total area of forest in this VDC is 643.5 hectare according to District Forest Office (DFO).

4.2 Climate

Tupche VDC is situated in the hilly region. The landscape has different elevations within the VDC. Some place are up to the height of 1500m from sea level where the climate is not too hot. Some place one up to 600m. from sea level where the climate is hot. It shows that there is cool in winter and hot in summer. The months of

November, December and January are moderate cool The months of February, September and October are temperate. But the months of March, April, May, June, July and August are hot. The annual rainfall varies from 3.3mm to 76.6 mm at Tupche as recorded during (1988-90). The normal maximum (summer) temperature exceeds 29°C Celsius and the minimum 2.7° Celsius.

4.3 Forest and Vegetation

Forest is the most peculiar, valuable a renewable national resources of this village and for this reason, it has to be preserved carefully and honestly. Approximately 673 hectares of land is under the forest in this VDC. The product of the forest, which the people of Tupche village use includes fuelwood, timber fodder, and some fruits and vegetables. Besides this, the forest also provides shelter to the large number of wildlives such as leopard, rabbit, jackal, monkey and wild birds. Similarly it provides leaf litter and fodder for large number of domestic animal in the village area.

It has different types of natural vegetations. Some types of vegetation are found in high elevation and some are in low.

A list of vegetation that are founder CF a private agricultural land in Tupche VDC are listed below.

Table 4.1
List of Vegetation Found in CF of Tupche

S.N.	Nepali Name	Botanical Name
1.	Rani Sallo	<i>Pinus roxburghii</i>
2.	Chilaune	<i>Schima wallichii</i>
3.	Sal	<i>Shorea robusta</i>
4.	Jamun	<i>Syzygium cumini</i>
5.	Bodi dhiayaro	<i>Lagestroemia</i>
6.	Pipal	<i>Ficus religissa</i>
7.	Imali	<i>Tamarindus indica</i>
8.	Chiuri	<i>Madhuca botryacea</i>
9.	Amala	<i>Embllica officinalis</i>
10.	Bayor	<i>zizyphus jujuba</i>
11.	Saj	<i>Terminalia alata</i>

12.	Asara	Lagestroemia flosreginae
13.	Utis	Alnu nepalensis
14.	Bar	Ficus bengaleosis
15.	Katus	Castanopsis indica
16.	Champ	Michelia cathcartii
17.	Daiya	Prunus carasoides
18.	Bans	Dendrocalamus spp
19.	Koiralo	Bauhenia variegata L.
20.	Khanaya	Ficus cunia bunch
21.	Gunyelo	Elaeagnus parrifolia wall
22.	Bhalaya	Semicarpur anacardium

Source: Field Survey, 2006.

4.4 Cropping Pattern of the Study Area

Cropping pattern of this area is divided into three-time period. In different time period different crops are grown. In irrigated area people preferred rice. Millet is only grown in un-irrigated land. Potato, wheat and mustard are grown according to their requirement. All the people of this area grew maize.

Table 4.2
Cropping Pattern of Study Area

Crops	Months	Seed Sowing	Harvesting
Rice/Millet	June-October	June	October
Wheat/Mustard and Potato	November- March	November	March
Maize	April-July	April	July

Source: Fields Survey, 2006.

4.5 Social Setting

4.5.1 Socio-Economic Profile of BCFUG

In order to analyze and describe the socio-economic status of the respondents, different indicators such as ethnic group, gender, level of education, occupation and main source of income were used.

4.5.2 Population Composition

The total population in ward no. 1 of Tupche VDC is 1949 comprising 1027 of female and 92 male in 205 households. In BCFUG, there are total 205 member households with total population is 1448 out of them 719 male and 729 female. The average family size of the study area is about 7 persons. Table below shows the sample households population composition according to sex.

Table 4.3
Population of Sampled HH

S.N.	Description	Number	Percentage
1	Male	143	48.80
2	Female	150	51.20
	Total	293	100.00

Source: Field Survey, 2006.

Similarly, with reference to field survey the age-wise population composition out of the total sample households is about 35.15% is below 15 years and that above 60 years is only 9.39%. The economically active population i.e. age between 15 and 60 years is about 55.46% of the total sampled population. The table below shows the population composition of sampled HHs according to age.

Table 4.4
Distribution of Family Member of Respondent by Age and Sex

S.N.	Age Group	Male	Female	Total	%
1	1-15	47	56	103	35.15
2	16-60	87	74	161	55.46
3	Above 60	14	15	29	9.39
	Total	148	145	293	100

Source: Field Survey, 2006.

In the study area, there are Brahmin, Chhetri, Gurung, Tamang, major Damai, Kami caste/ethnic groups. According to households the caste and ethnic distribution of the study area is Brahmin -113, Chhetri-93 Gurung-24, Tamang-28, Damai-25, Kami-6 and Majar-4. Table below shows that caste/ethnic distribution of the study area.

Table 4.5
Distribution of Respondent by Caste/Ethnicity

S.N.	Caste/Ethnicity	HH	Male	Female	Total Population	%
1.	Brahmin	15	54	59	113	38.57
2.	Chhetri	12	50	43	93	31.74
3.	Gurung	3	12	10	24	8.19
4.	Tamang	3	14	14	28	9.56
5.	Damai	3	13	12	25	8.53
6.	Kami	3	3	3	6	2.04
7.	Majari	1	2	2	4	1.37
	Total	40	148	145	293	100

Source: Field Survey, 2006.

From the above table it is clear that Brahmin and Chhetri caste are the majority in the study area followed by Gurung, Tamang and Damai.

4.5.3 Education

Education status of the community people has an important role for the participation in different CF activities. In this subject the researcher has tried to show the education status of the respondents. Here the level of education have been divided in four categories like illiterate, literate - 5 class, class 6-SLC, intermediate and above. Table below shows the educational status of the respondents.

Table 4.6
Educational Status of Respondent

S.N.	Academic Qualification	Male	Female	Total	Percentage
1.	Illiterate	1	6	7	17.5
2.	Literate-5class	8	3	11	27.5
3.	6 class - SLC	11	6	17	42.5
4.	Intermediate and above	4	1	5	12.5
	Total	24	16	40	100.0

Source: Field Survey, 2006.

The above table shows that educational status of the respondent is not bad. About 70% of the respondent are from literate to SLC. Where 17.5% from illiterate and 12.5% are in intermediate and above class.

4.5.4 Occupation

Economy is the pre-dominant factor of any society. Without the study of economy in any society we cannot understand the whole system. The study area is very near to the market area. Thus, it can be said that, there is a good opportunity of business a service. Directly or indirectly most of the population are engaged in agriculture. It is already mentioned that there is 55.46% of economically active population in the study area. The demographic summary of the households sample shows that about 27.5% population are engaged in service about 37.5% are in business sector and about 35% in agriculture sector. The table below shows the population composition of sampled households according to occupation.

Table 4.7
Occupation Status of Respondents

S.N.	Occupation	Total Households	Percentage
1	Service	11	27.5
2	Business	15	37.5
3.	Agriculture	14	35
	Total	40	100.00

Source: Field Survey, 2006.

4.5.5 Cooking and Lighting

The house survey shows that electricity is used in all households for lighting in the study area. For cooking, different materials like gas, Kerosene and firewood is used. The table below shows that about 67.5% of the households use firewood for cooking. Similarly, about 17.5% of the households use bio-gas, about 10% and 5 of the households use kerosene and LPG gas respectively.

Table 4.8
Cooking Materials Currently Used by the Respondents

S.N.	Cooking Materials	Samples Households	Percentage
1	Firewood	27	67.5
2	Bio-gas	7	17.5
3.	Kerosene	4	10
4.	LPG	2	5
	Total	40	100.00

Source: Field Survey, 2006.

4.6 Community Forestry in Tupche VDC

Community forestry program is being implemented since 1990/91 in the district. Under this program accessible and potential forest area is being handed over to the nearby user according to Forest Act 1993 and Forest Regulation 1995. This program also covers the Tupche VDC and CF program has been successfully implemented.

In total, the Tupche VDC has 643.05 hectares of forest area with seven FUG that were handed over to the FUG of the particular area in different time period. There are 1354 HHs that handles those seven CF. The range of forest area handed over as CF in the VDC is 18.75 to 218 hectares. Similarly the range of users households involved in CF is 80 to 263.

Almost all-potential forest area for CF is already handed over to the users. Some forests of this VDC are productive and potential for forest product commercialization. The major potentials forest products for commercialization are timber. However commercialization process has not been started in CF due to remoteness and lack of training. Inventory of potential forest product and inclusion in OP has been started in the CF of the VDC. During the information collection process of the study area it has been tried to compile all the available information data related with FUGs for the generation of idea on the study topic.

4.7 Bashpani FUG and Its History

Bashpani is a naturally mixed forest however, dominant species of forest lies in the eastern part of the village at the upper part of ward no. 1. The villager used to take authority for the utilization of forest product from "MUKHIYA" during Rana and Panchyat system. Whatever, the forest was being degraded due to lack of clear rule, protection, and management measures.

After the restoration of democracy the villagers initiated process to bring the resource under the control of community. It was not an easy job. However slowly CF concept was introduce to all villagers by some energetic and change lover villagers. The villagers formulated a forest protection committee in 1991 and assigned some specific responsibility to implement forest protection, management and utilization

activities at local level. At the beginning, the villager carried out plantation activities with their own initiation to protect from grazing. Along with forest protection, they put their demand to district forest officer for the formation of FUG covering all real users of the forest. After a long attempt in 2054 B.S. the FUG was formulated and legally handed over 58.2 hectares of forest to 205 households in the name of Bashani Forest Users' Group (BCFUG), Tupche 1.

The forest operation plan of Bashpani CF has been revised two times. The last revision was done in 2061. During the revision, new ideas of forest development activities abstracted from past experience were included from past experience were included in operational plan. The revised forest determinate that the total household of the CF is 205 and the area 58.2 hectares. The forest area per households seems 0.28 hectares. But, the forest is unproductive that's why the CF is not being able to fulfill the forest product demand of users expectedly. The users have been implementing different forest development activities according to their forest operational plan such as plantation of multi purpose species, thinning, pruning, weeding etc. The users have promoted agro-forestry to reduce the pressure on CF from the very beginning. The Bashpani FUG is recognized as a model FUG of the area a the district too.

The total population of the FUG is 1448 (male 719 and female 729). From the beginning of the forest hand over the user have been implementing different protection and management activities according to the forest operation plan prepared by them (BCFUG). Along with forest development activities they have been participating in varieties of human resource development activities. The users are committed for the development of CF and to bring positive change in the community through it.

CHAPTER V

COMMUNITY FOREST MANAGEMENT SYSTEM

The chapter discusses the overall management system of community forestry in Bashpani community forest User Group through the use of various methods.

5.1 General Overview of Management System in BCFUG

The Bashpani Community Forest User Group was formally registered in District Forest Office of Nuwakot on 2054/7/10 for forest conservation, utilization, management and development by the user group. As per discussion with the executive committee members, key persons and review of relevant documents during the field survey following objectives are found included in BCFUG.

-) To conserve and to promote the existing forest within the CF area resulting a healthy and worthy forest.
-) To perform plantation in the open area of the CF.
-) To provide different forest products to the entire members without any disturbances to forest status.
-) To decrease the land-slides and erosions by conserving the forest.
-) To communalize the forest by improving the degrading environmental pollution.
-) To disseminate the communal feeling.
-) To conduct various service oriented as well as money oriented programs.
-) To disseminate the appropriate conservation system to the wildlife available in CF area.

Since the time of establishment, the BCFUG has been managing the forest according to operation plan. They are following the same guideline, legal rules and regulations as stated in the approved operation plan of for the forest management. Besides, it was found that the user to give priority to things according to deed assessments. According to DFO staffs and local users, the condition of the forest is becoming glorious after community had started to manage the forest. Most of the entire members stated that the scarcity of the forest products has decreased since the inception of the community forestry programs. However, the improved forest

conditions have also simplified the demand for the forest resources. The water resources also have improved with increased and dense forest cover as well as increased a numbers of wild animals like leopard, jackal, rabbit, monkey and others. Hence it is a good signal of the BCFUG that it initiate its movement from protection regime to production regime,

The overall forest management system in BCFUG can he described as:

-) Operation management
-) Protection management
-) Utilization management
-) Promotion and development management

5.1.1 Operation Management

The operation management includes the overall operation process for management. It includes user group and its formation, executive committee, other general rules of community forest, office management and financial status etc.

5.1.1.1 Formation of Forest User Group

The forest user group includes all the members of a community that regularly use a particular of forest for grazing and collection of forest products and form themselves into a group to protect, manage, and utilize that area of forest (HMG/N, Master Plan for the Forest).

Before initiation of new Community Forest Policy, the process of registration of forest was very difficult, so the educated population of the study area established a club and started to manage conserve forest by organizing different awareness programs in the community. Although they had not legal authority to do such works. They were self-motivated towards management of forest and started to converse a small part of the forest. After the initiation of new Community Forestry Policy, the people of the study area were also encouraged to register their nearby forest as the community forest and they consulted District Forest Office for the further process.

Prior to registration, they had already stared to conserve the forest. They performed clear filling in a small part of forest with the technical support from DFO

to develop the forest. When they cut down all the trees completely, they had to face different problems and conflicts in the community. Different types of negative whims and impressions were raised up regarding the status of the forest. Many people scolded them and also blamed that they are selling the forest to HMG. But later, when the regeneration started almost all the users were convinced and supported the activities of committee. They again convinced other users personally and also by conducting different programs i.e. *Ghar-dailo* programs, *Samuhik Ban Samrakshyan Abhiyan* etc.

After they had convinced all the local users, they called mass meeting where the users of ward no 1 of Tupches VDC were present and they discussed about the registration, management and conservation of forest. The Ranger from DFO helped them to conduct first general assembly and supported to prepare operational plan and constitution. And the forest was legally registered as the Bashpani Community Forest User Group in 2054 B. S. at District Forest Office of Nuwakot.

5.1.1.2 Selection and Structure of Executive Committee

According to HMG, master plan for the forest, all the members of community that regularly use a particular area at forest for grazing, and collection of forest products and from themselves into group to protect, manage and utilize that area or forest for the forest, the executive committee is defined as a group of people elected by the users to represent the forest user group. The user group decides the responsibilities of the committee and its chairperson.

The forest executive committee is formed by the General assembly of the forest users groups through the exercise of democratic election as per their constitutional norms. Table below shows the forest executive committee structure according to sex wise.

Table 5.1
Sex Wise Structures in Executive Committee

S. N.	Description	Number	Percentage
1.	Male	7	63.63
2.	Female	4	36.37
	Total	11	100.00

Source: Field Survey 2006

The present executive committee was formed by the mutual understanding of the entire community members with the involvement of men and female under the chairmanship of Tika Ram Adhikari with 11 members including 4 womn members. As mentioned in operation plan, executive committee serves the service for 2 years.

Education plays an important role in development and management of the community forest. Education is promoting factor for people participation in different CF activities like decision making participation in meetings, etc Educational level of the present executive committee member is broadly classified under four headings as literate, school level, intermediate level graduate level. Table below shows the education status of the executive committee members.

Table 5.2
Educational Status of the Executive Member

S.N.	Level of Education	Number of Member	Percentage
1	Literate	3	27.27
2	School Level	2	18.18
3	Intermediate Level	4	36.37
4	Graduate Level	2	18.18
	Total	11	100.00

Source: Field Survey 2006.

From the above table educational status of the executive committee is quite good. No one member is illiterate. Maximum number in intermediate level i.e. 4 followed by literate 3.

The study area is highly dominated by Brahmin, Chhetri, Gurung, Tamang, Damai and others caste. The executive committee of FUG has tried to include the members from each caste and ethnicity as far as possible. But it did not include all caste and ethnicity in executive committee. All members include in executive committee are Brahmin and Chhetri. Most of the economically disadvantage group ethnicity did not actively participated in executive committee due to the following reasons.

- a. Workload (physical laborers)
- b. Unawareness (illiterate)
- c. Passiveness In work
- d. Lack of interest and negative attitude towards forest

Although, for the better convenience and equal participation of the users to manage protect, utilize and benefit sharing of forest products the total area of BCFUG is divided into 3 area and 3 selected Group Leader from each area and caste as far as possible Out of the 3 members in group leader, there are 1 Brahmin and Chhetri, 1 Tamang and 1 Damai.

5.2.1.3 Membership

As stated in constitution of BCFUG, people living permanently within the boundary of working area of the forest are the permanent member of the user group and people living temporary (migrated and rented) with in the working area of the forest are called the temporary member of the user group. All the interested family who wants to be the member within the area has to follow some legal process. First the individual have to submit application for membership with entrance fee Rs. 50.00 for permanent and migrated or temporary members. The eligible members have to pay Rs. 100.00 for permanent membership and Rs. 50.00 for temporary membership to use the forest products specified in the operational plan of this community forest. The entrance fee and the membership fees are non-refundable. There are some criteria for eligible member.

-) Household owner or representatives living within the working area of CF.
-) Person who has agreed to follow the rules and regulation of CE
-) Person who is mentally health; and without any immoral habits.

Membership can also withdraw or rejected by executive committee in following cases

-) If any member dose not allow the objectives, rules and regulations as stated in constitution
-) If any member betrays the user group regarding its operation, promotion, and financial aspects

5.2.1.4 General Assembly and Meeting

During the course of data collection in the field researcher had opportunity to observe monthly committee meeting once where he discussed with members and reviewed meeting minutes and other records/documents of the FUG.

The user group organizes the general assembly once a Year. They disseminate the message of the general assembly to the members through committee members. In general, most of the member households attain the general assembly.

The committee meeting generally held once in 2 months. They discuss about the activities and progress in this meeting. About 95 percent members are attaining the Committee meeting. Generally, women members always attain the committee meeting. There is a well management information system regarding activities of executive committee, management activities and new programs on forest. This information is well distributed among the entire members by the committee members to their respective areas. Local people are made aware of the meeting and new development projects through pamphlets, letters and sharing information among each other.

5.2.1.5 Office Management and Financial Status

For the better management BCFUG has also established own office room. They have also appointed forest guard among the entire members who looks out all of the forest regularly. They are paying Rs 2500.00 per month to the person.

The FUG has systematic account keeping, record keeping system and auditing system. So, there is a transparent financial system to the members. The FUG has its own bank account for saving the income.

The major source of income of FUG is the forest products. They earn much money from the sell of timber and firewood. The other sources of income are entrance fee, membership fee, identity cards cost and penalty cost. The revenue from community forest is used in different forest promotion activities like: Nursery establishment and plantation, office management, employment of forest guard, boundary wall and fencing. Besides, they have also invested the revenue, in community development activities such as primary school development, wooden furniture to school village road construction etc.

5.2.2 Protection Management

The protection management includes the activities regarding conservation and protection of forest, forest products, wildlife and encroachment etc. It includes forest plots, forest guarding system, rules and regulation, penalty system etc.

5.2.21 Forest and Forest Plots

BCF covers a total area of approximately 58.2 hectares. According to operation plan, the forest has single management units or blocks, which can be distinguished permanently. These blocks are scattered in different location. So, the size of the blocks varies because of its inclined ecological regions. The forest of BCF is predominantly Sal forest. Besides, mixed forest of Saaj, Chilaune, Aap along with dominant Chilaune trees also found in BCF.

5.2.2.2 Forest Guard

The forest should be protected from fire, grazing encroachment, and illegal cutting and collection of forest products. They have appointed and arranged one forest Guard to protect and watch the forest every day. They are paying Rs. 2000.00 per month to the Forest Guard.

5.2.2.3 General Rules for Protection of Forest

- a) To protect the firing in forest they have made 4m broad fire-line according to the geographical division of the plot. Moreover, the things that can cause fire are strictly prohibited to take within the forest area.
- b) Grazing is strictly controlled to those plots and areas where recent plantation is made and also to those areas production has just started. Besides these areas, the other barren areas of the forest areas are open for grazing. But it is strictly prohibited to wildlife and birds within the forest area.
- c) Besides the recently planted area and Sal regeneration area, grass cutting is open in other forest areas. In these areas the small herbs are allowed to cut. Generally, it is prohibited to collect green branches. The other forest product i.e. firewood, fodder, timber, wood, coal etc. are allowed to collect only in the prescribed dates and prescribed amount.

5.2.2.4 Penalties and Reward System

The operational plan of the group it has mentions punishing the violators of the rules in accordance with the nature of the crime and the level of destruction. The levy imposed on the user in initially at a normal rate but gradually increases if the offense is repeated. Finally she/he can he expelled from the group. In the case of a non-user, the charge is double than of the users and the tools are sized.

The operational plan has some provisions regarding penalties and rewards in the context of the forest management. The following provision has been written:

- i. In case forest has been destroyed, all the cut products will have to be returned to the executive committee and the punishment according to listed below:

Cut timber without permission-----	Rs. 1000.00
Copy or change of tree demarcation-----	Rs. 1000-2000
Setting fire-----	Rs. 500.00
Change of demarcation of forest-----	Rs. 500-1000.00

- ii. Any person who will be involved in any forest destruction activities like animal grazing in prohibition area of forest will be punished as per the numbers of animal grazing. From the discussion and interaction with respondents and executive committee, the lists of penalties are shown in table below.

Table 5.3

Animal wise Detail of Penalties

S.N.	Animal	First time	Second time	Third time
1	Goat, Sheep	5.00	10.00	15.00
2	Buffalo,	10.00	20.00	30.00
3	Others	5.00	15.00	15.00

Source: Field Survey 2006.

In the case of non-users the penalties charge is double then of the users. Individual who helps to carry out different activities regarding forest protection, management and development will receive various prizes. Therefore, users are motivated to protect and participate in forest management for the prizes and not misuse or avoid the forest rules due to the fear of penalties.

5.2.3 Utilization Management

5.2.3.1 Grass/Fodder Collection

Grass cutting is not strictly controlled in forest area besides recently planted area and Sal regeneration area. But green branches are strictly prohibited to collect. During the period of '*Jhadi Safai*' users can collect green leaves of trees and branches at free of cost. If any users need green leaves in off time then they have to take permission from the committee and have to pay a certain amount. During ceremonial function they can take these products at free of cost.

5.2.3.2 Fire wood Collection

When the forest s open for firewood collection the entire users can collect dry firewood at free of cost. Generally, forest is Open during the special festival like

Dashain and *Tihar* for firewood collection. The distribution of firewood is not depending on family size.

During the social occasions like marriage, *saptaha*, funeral function etc. the entire members can easily get the required amount of firewood at free of cost. Besides ceremonial occasion, if any users need large amount of firewood they had to take permission from the committee and to pay Rs.30.00 per load (*bhari*).

5.2.3.3 Timber Collection

According to operation plan, committee harvest old and damage trees. Generally, sal and chilaune trees are used for timber wood. The entire members have to drop application to buy timber wood from community forest. Because of status of forest, the amount of timber in community forest is very limited. So the committee selects the household according to the need assessment. They give first priority for those who have to build up the house and then only other purposes are considered. The rate of timber also varies according to their type and amount.

5.2.3.4 Coal Collection

The users have to drop the application mentioning the amount of *goal* to forest executive committee. After the application is accepted users can collect *goal* from the CF in presence of -committee members. According to operation plan, it cost is 50 percent less than the prescribed rate of the other forest products.

5.2.4 Promotion and Development Management

The promotion and development management includes all the techniques that are used for development of community forest status i.e., silviculture practices, plantation, nurseries etc. It also includes awareness and training among users and also the future plans for CF development.

5.2.4.1 Silviculture Practice

Since the beginning of the community forest, several new management practices were implemented in BCFUG For better management and development of

forest, the BCFUG has Performed different silvicultural practices (*Ban godne*) i.e. *Jhadi Safai* (cleaning), Thinning, Pruning, Singling etc.

Silviculture is defined as a practice of cleaning and cutting of undesired tree species for improving the forest condition thereby increasing the quantity and quality of products. The silviculture activities are generally based on operational plan but sometime they used to change the timetable and strategy on the basis of need assessment. According to DFO staffs, the technical supports for different silviculture activities are also provided to this FUG. This FUG is following the same cutting, thinning, and pruning procedures as prescribed in operation plan. According to executive committee members and monitoring from DFO, it was found that the silviculture activities in this CF are satisfactory.

The activities of *Ban godne* runs once a year All the member households must attain in *Ban godne*. Due to security problems, they usually form small groups of people and also divide the work during *Ban godne* It was also found that women members equally participate in *Ban gonde* activities.

5.2.4.2 Plantation

Most of the forest area of this CF is natural sal and Chilaune forest. Thus, the major process of promoting this forest is sal and Chilaune generation Besides, they had performed different plantation program in open area of CF Generally DFO provides the seeds and seedling to the CF for plantation.

5.2.4.3 Training and Awareness Programs

The executive committee frequently conducted various training and awareness programs to the entire members and users of the community forest. Besides, DFO and Other line agencies also provides various types of training to the executive members and FUG for better management, protection, development and utilization of the forest products.

5.2.4.4 Future Plans for Development of Forest

The FUG has to plan as to develop the community forest as the model community forest of the district. In the study area FUG has implemented some

income generating activities and empowerment activities for the improvement of socioeconomic status and level of the awareness of the beneficiaries especially of the beneficiaries especially for the target group For this Purpose, they have some future plans:

-) To develop a part of forest as bio-diversity conservation area.
-) To develop the forest as demonstration plot of medicinal plants and research centre.
-) To establish a resort and picnic sport within the CF area.
-) To support for the establishment of small-scale industries.
-) To support for the livestock and bee keeping program.
-) To support for the other income generating activities for the target group

5.3 Conflict with in BCFUG

Conflict is an integral part of human condition, which differs in its scope and scale from culture to culture. The term is derived from the Latin word "conflictus" meaning striking together with force (Kharel, 1993) Conflict can occur when people have different views or perceptions on an issue, when someone interest is not considered or fulfilled when a decision is made, or when others interest is encroached upon (Shrestha, 1995).

It was found that in BCFUG there exist very few conflicts regarding management of forest, decision-making, conflict between entire members, conflict with neighboring groups and conflict with DFO But still various conflicts exist in this group. The conflict within this FUG can be described as:

-) Conflict over access
-) Conflict due to resource availability
-) Conflict in sharing of benefit

Most of these conflicts are managed by executive members, local leader, and the educated people of the community through indigenous dispute management techniques.

Similarly, when grazing and grass cutting were prohibited in some parts of CF then women of the community were about to create physical fight with them. But later

when they were convinced they started control others from grazing, firing, and cutting grass and young shoots. Still some users are unsatisfied due to limited grazing lands. They also claimed that green grasses are decreasing of controlling the fire in the forest.

Benefit sharing mechanism is one of the major factors for sustaining community forestry. Forest products, particularly firewood is distributed more or less equally among the user. The conflicts may arise during the time of product sharing Families, whether large or small receive the same quantity of firewood, while those who have small family will have surplus. This has caused conflicts in FUG.

The users living far from the forest usually used to blame the users living in nearby forest that they are getting the maximum benefit from the forest. Whereas the nearby users explained they used to give up more time to forest protection and management activities. This has also created conflicts in FUG.

The major conflict in this user group is the distribution of timber wood. During the interview, it was found that most of the users were not satisfied with distribution of timber wood, as they did not get the sufficient wood. On the other hand, the committee member said the amount of wood is very limited and also they are tightened by the rules. Moreover, there are no more damaged and old trees, which can be collected. As they claimed, despite of insufficient amount of wood they are distributing the timbers were equally to the member according to need assessments.

CHAPTER - VI

PEOPLE'S PARTICIPATION IN COMMUNITY FOREST MANAGEMENT

This chapter discusses participation of people in community forest management and community development activities. It also analyses factors affecting the women participation in community forest management and impact of community forest.

6.1 Sources of Forest Products

The people of the study area have been utilizing forest and forest products to fulfill some parts of their basic need such as fodder, firewood, leaf-liter and timber. It was observed that both community forest and private land are used to satisfy the requirements of forest products. Most of the people also use forest area for animal grazing. According to field survey, it was found that about half of the population of user group depends on CF for grass and firewood where as all of the population of user group depends on CF for timber.

Table 6.1
Sources of Forest Products (Grass and Firewood)

S.N.	Collection	Total Household	Percentage (%)
1.	Private land only	6	15
2.	Community forest only	14	35
3.	Private + Community Forest	17	42.5
4.	Other	3	7.5
	Total	40	100

Source: Field Survey, 2006.

The above table shows that 15 percent of the population collects grass/fodder and firewood from private land, 35 percent population depends on community forest, 45.5 percent population depends on both private and community forest for grass and firewood. It was also found that 7.5 percent population neither depends on community

forest nor private land for these forest products. This population collects these products either from other nearby CF/National forest or buys from market. It was found that the firewood and other products collected from the CF are only used for domestic consumption.

6.2 Forest Products Collection

Forest resource is one of the most essential natural resources and the people depend on the forest resource for fuel wood, fodder/grass, herbs, timber etc. Timber is widely used for house construction, shed for animal, furniture agriculture tools and other various purposes. Fodder/grass need in the rural area to feed the livestock. Fuel wood is needed to cook food and other various purposes. Table below shows the forest production collection according to sex wise.

Table 6.2
Forest Products Collection (Sex wise)

Collectors						
	Grass/ fodder	Percentage (%)	Firewood	Percentage (%)	Timber	Perce tage (%)
Women	14	35	17	42.5	0	0
Women+ Men	12	30	12	30	12	30
Women+ Children	11	27.5	7	17.5	0	0
Hired Labor	3	7.5	4	10.	28	70
Total	40	100.00	40	100.00	40	100.00

Source: Field Survey 2004

It was found that both males and females collect the forest products. However, women collect more grass, fodder and firewood and men typically collect timber and firewood. Table above shows that 35 percent of women collect grass and fodder, 42.5 percent of women collect firewood and none of the women alone collect timber. On the other hand, none of the men alone collect the forest products. Similarly, 30 percent of both man and women together collect grass and fodder, 30 percent of both men and women together collect firewood and 30 percent of both men and women together collect timber.

The children of age above 5 years also collect grass fodder and firewood occasionally to help their family, Children do these works generally in their leisure and holidays in school. Some of the rich households also hire labors to collect grass and firewood As heavy physical labour is needed to transport timber from CF to the house, most of the households about 70 percent hire labors to collect timber and other wood. On the other hand, about 30 percent households both men and women of the family collect timber themselves. Generally, men carry out the cutting tress and making firewood pieces where as women bring the firewood to the house.

6.3 Peoples Participation in Community Forest

People's participation is the main important part in community forest management program. Without people participation CF cannot be success properly and sustainable way. The principal aim of CF is to involve beneficiary in all stages beginning from planning, decision making to benefit sharing. People are essential factor for the sustainable management and development of the community forest. The community forest program itself defines the participation of people in management, utilization and development of their local forest. Thus participation of people in community forest indicates the involvement of the entire member of FUG in all levels i.e. from planning formation process to benefit sharing of forest management.

In the study area active participation of people was identified in three different community forest activities:

-) Participation in executive committee and meeting
-) Participation in Silviculture (Ban Godne) activities and
-) Participation in other (extra) community forest activities.

The people's participation in these activities was found to be different in degree and frequency according to the nature of activities.

6.3.1 Participation in Executive Committee and Meeting

The executive committee has to play a significant role in the planning management and development of the forest. As explained in the Chapter- V, there are 11 members in the executive concerned for the use of forest and its products (timber, fuel wood fodder etc). Women are found encourage taking active part in the executive

committee. Table below Shows the people's participation (respondent participation) in different levels of community forest activities.

Table 6.3
People's Participation in Different Level of CF Activities

S.No.	Level of Participation	Male	Percentage (%)	Female	Percentage (%)	Total	Percentage (%)
1	Meeting Attendance	18	45	14	35	40	80
2	Not Attending Meeting	2	5	6	15	7	20
3	Discussion	17	42.5	21	52.5	38	95
4	Giving Suggestion	24	60	13	32.5	37	92.5
5	Decision Making	12	30	3	7.5	15	37.5
6	Silvicultural Activities	19	47.5	17	42.5	36	90
7	Other (extra) CF Activities	15	37.5	21	52.5	36	90

Source: Field Survey, 2004

From the household survey, four different levels of participation were identified. The first level of participation is attendance in general and monthly meetings, which was found to be 80 percent where as women's participation constitutes 35 percent. The second level of participation is discussion, where certain individual discusses the issues in the community forest. The participation in discussion was found to be 95 percent where women's participation constitutes 52.5 percent.

The third level of participation is giving suggestion relating to the development of the community forest. The participation in giving suggestion was found to be 92.5 percent where women's participation constitutes 32.5 percent. The fourth level in decision making for the implementation of rules and regulation for the forest users group. The participation in decision-making was found to be 37.5 percent where women's participation constitutes 7.5 percent. It was found that 20 percent of respondent do not participant in any activities of general meeting where women's participation constitutes 7.5 percentages.

The table 6.3 shows that most of the respondent attends the general meeting only for attendance, participation decreases as the responsibility of the task increases. Therefore, at the level of decision making only a few executive members who are influential individuals in the community are participating. It was found that the women's participation is lower than the men in all the levels and also the number of women not attending the meeting is higher than the male. This is because of different factors i.e., educational roles, social values and norms which hinders the participation of women in decision-making and other activities of the CF. It was found that generally women from the deprived group only take part in all levels of CF activities where as women from the deprived group only take part in the silviculture and extra activities like plantation and only attend the general assembly. They generally participate the meeting just to know the future plans and rules. Due to their illiteracy and social bound they do not move their steps in discussion and suggestion, They are actively involved in the protection of forest by stopping the illegal collection of forest products because they are highly depending in the forest products like; firewood and fodder for their livelihood.

6.3.2 Participation in Silviculture Activities

The basic forestry products needed by the local people include none other than firewood, timber and bedding material. These are harvested from forest by applying silviculture practice, which is often called as "Ban Godne" in Nepali. This literally means weeding, cleaning and shrub cleaning. In fact, it is defined as a practice of cleaning and cutting undesired tree species for improving the forest condition, thereby increasing the quantity and quality of products (pokheral,2000)

Generally, Ban Godne is carried out once a year particularly during the agriculturally slack period. The activities of Ban Godne run for two weeks in each time. As explain earlier, the entire member households must attain in Ban Godne. Table 6.3 shows that 90 percent people participated in the Ban Godne whereas women participation constitute 42.5 percent. The cent percent participation in Ban Godne is due to the penalty system and also the motivation towards the condition of forest. From the household survey, it was found that in Ban Godne and village cleaning, which includes physical labor and much time, the participation of women is high. This is because women are mostly involved in household works rather than in official

works and have managed leisure time to work in community forest. Moreover, it was also realized that usually women are concern in sharing of firewood and fodder fodder for their daily domestic work. whereas it was found that some min are not interested in silviculture work, as it is not related to them.

6.3.3 Participation in Other (extra) CF Activities

The development and protection of the forest condition depend on the activities likes, plantation, nursery establishment and guarding system performed by the FUG. Community forest is also play a vital role in economic and community development. Participation during plantation was found to be high in the study area.

Table 6.3 shows that 90 percent people participated in extra activities in CF where women participation constitutes 52.5 percent. According to community member, they used to provide some seedlings to the participants during plantation, which has caused increased in participation. Moreover women participation was found to be comparatively high during plantation, this may be due to the closed interrelationship between women and the forest.

According to committee members, the women were the main forest offenders before CF has started. Since CF has started, it has help the women to save their time from day to day activities by making available of firewood, fodder, grass, leaf litter, water in the near by area. The women who have to spend a lot of time walking just to get a bundle of firewood and fodder now they get it from near by community forest. The save time could be used for other purposes, i.e., taking care of children or houses, involving in social function. Such activities can help them to keep their environment healthy (Pokharel, 2000). Thus, nowadays they are the guard of forest. Generally women are very conscious about the status of forest than man. They often control firing and illegal cutting of forest.

6.4 Factors Affecting the Women Participation in Community Forest Management

In Nepal, more than 50 percent of the total population is female and they are lagged behind in almost every activities and opportunities. Unless women are empowered and provided equal opportunity, the Nepalese socio-economic situation

will not gain momentum in obtaining higher equitable growth (Maharjan, 1997), As certain women are found to be involved in different activities of forest management in the study area, there are still some constraints affecting the extent of women participation in CF management. The major factors, which promote and hinder the women's participation, are:

-) Traditional roles of women and social norms
-) Educations
-) Composition of FUG

6.4.1 Traditional Role of Women and Social Norms

The multiple roles of rural women having both domestic and outdoor i.e., agriculture and forest product collection responsibilities make them bounded within a small limitation. Rural women usually spend about 12-15 hours a day in household tasks. They have to spend much time in taking care of children and house, preparing food. They have to waste their move time consuming and laborious task like making available of water for human and livestock, firewood, grass and fodder etc. Thus full participation of women in economic and community development program is hampered by a lack of time and energy.

It was found that only the married women are involved in different community forest and community development activities. This is because unmarried women are not allowed to do such things in the study area as they have to marry and also they are mostly engaged in educational activities. So despite of well education unmarried women are far behind from the community development activities.

6.4.2 Education

Education plays a vital role in development. Education is promoting as well as the hindering factors for women participation in decision-making. In the study area it was found that the male respondents are more educated than the female. On the average the women are literate but only few have completed high school. Due to lack of education, women usually did not understand the rules, regulations and policies of CF Moreover they have to loose the opportunity for training due to their illiteracy. On the other hand, they feel hesitations to open and put their view in mass of educated

individuals due to their education. This is the major reason for the lowest participation of women in giving suggestion and decision-making.

6.4.3 Composition of FUG

The size of FUG is also affecting the participation of women in CF management. It is a mixed and large users group but the size of executive committee is small where women's involvements are not more than 25 percent. Due to big voice of males, female voice is often avoided. Besides, women rarely participate in the official works, which deprives the women from the important official status of CF like, decisions, financial status, grants and donation from different agencies etc.

6.5 Participation in Decision Making and Profit Sharing

Participation in decision making and profit shearing among the beneficiary was examined during the observation in their committee meeting. In the observation we observed that who are the voice raiser and whose voice taken into account also give participation level for decision making. Participation in decision-making also found by reviewing meeting minutes, agenda discussed and decision on the respective agenda. Participation in decision making found 37.5 percent.

Benefit shearing has done irrespective of the family size but in the equal basis for all members. There were no major dispute found in this issue however timber distribution required need assessment. Beneficiary express their satisfaction on grass/fodder, firewood collection.

6.6 Impact of Community Forest

Each and every thing has its positive and negative impacts as two sides of a coin. Similarly, CF program has also both types of impacts in community. During the time of interview, it was observed that CF program has now become a part of life of rural community. It was found that the member households of the user group are directly or indirectly benefited from the community forest. It was found that the direct benefit is the forest products i.e., grass/fodder, leaf-litter, firewood and timber. The indirect benefit from the CF are increasing greenery of the forest, increasing water resources, wildlife and bio-diversity, decreasing soil erosion and landslides,

decreasing in encroachment of forest area, participation in different community development works and increasing leadership pattern among villagers. Despite some negative issues, CF is providing different facilities to the people of the community. The major negatives impacts are conflicts between user groups due to boundary and traditional rights, fear of wild animals to the users living nearby forest.

CHAPTER-VII

SUMMARY, CONCLUSION AND RECOMMENDATIONS

7.1 Summary of the Major Findings

Forest is a renewable natural resource, which provides a wide range of socio-economic, environmental and cultural benefits and services. The rural people are dependent on forest for various products to fulfill their basic needs such as grass, fodder, leaf-litter, firewood, timber etc. Forests have multiple uses for farmers. They are not only the sources of timber and other forest products, but also satisfy people's religious, social and cultural norms. Social and cultural norms, values and sanctions reflect people's attitudes towards conservation of forest resources (Chhetri, 1994).

Rural communities depend on forest for their day-to-day essentials. Due to which the forests of Nepal are often fragmented into small patches, particularly in Hill Districts. With these constraints the only realistic option is 'Forest managed by local community. Community forestry considerable effort is now directed at forest user group (FUG) involvement in forest management. Equally important to forest resource, economic status and landscape stability is the encouragement of individuals into forestry activities. Encouragement of on-farm planting is the objective of community and private forestry program for the forest of Nepal to have a future their management should be community based. To benefit many has been given priority than to benefit few.

His Majesty's Government of Nepal (HMGN) approved a comprehensive Master Plan for the Forestry Sector (MPFS) in 1989. The plan recommended to review the existing forest legislation so that most of the accessible government - owned but user-managed forests could be handed over to defined user groups for sustainable forest development and utilization. The responsibility of managing, these community forest lies with the user group. The district forest office has to hand over and provide technical assistance in the management of these forests.

Hence, community forestry in Nepal is about establishing a partnership between HMG and the forest users group in which community forestry is seen as a

deliberate and conscious application of business methods and technical forestry principles to help village community. People participation is the most essential feature of community forestry in Nepal. Because of mass illiteracy and backwardness it has been termed very difficult to get peoples participation in any forestry projects in Nepal (Gilmour et. al., 1988).

Descriptive and exploratory research design was used in this study. The emphasis is given on the qualitative rather than the quantitative aspects of the information relating to the management condition of forest as well as role and activities of people's participation in forest management system.

The study area is homogenous due to all the inhabitants are the entire members of Bashpani Forest Users Groups (FUG). A systematic random sampling has been used for selection of the respondents. There are total 205 beneficiaries households in universe divided in 4 cluster of settlements. It is hoped that a sample size of 10% of sample frame from each cluster could represent the status of the whole community. So the interview was taken with 40 beneficiaries households. However, the study focused to both the male and female respondents.

Both primary and secondary data collection methods has been used in this study. Primary data is a major factor to fulfill the objective of the study. Some of the standard tools and technique has been used in order to collect primary data from the study area. Interview schedule, observation, focus group discussion have been especially taken as tools for the study.

The total population in ward no. 1 of Tupche VDC is 1949 comprising 922 male and 1027 female in 278 households. In BCFUG, there are total 205 member household with total population is 1448 out of them 719 male and 729 female. The average family size of the study area is about 7 persons. The economically active population, i.e. age between 16 and 60 years is about 55.46 percent of the total sampled population which indicates that the active population of the area is higher than other.

In the study area, there are Brahmin, Chhetri, Gurung, Magar, Tamang, Kami and Damai caste/ethnic groups. According to sample household the caste and ethnic

distribution of the study area is Brahmin-38.57, Chhetri-31.74, Gurung-8.19, Magar-1.37, Kami-2.04, Damai-8.53, and Tamang-9.56%.

The educational status of the household sample shows the about 83 percent of the total population are literate and about 17 percent are illiterate. Out of total literate population, 57.5 percent are male 25 percent are female. Most of the populations are engaged in agriculture. The demographic summary of the household sample shows that about 27.5 percent population is engaged in service, about 27.5 percent in business, about 35% percent in agriculture.

Since the time of establishment, the BCFUG has been managing the forest according to operation plan. They are following the same guideline, legal rules and regulations as stated in the approved forest operation plan for the forest management. Besides, it was found that the user groups usually used to give priority to things according to need assessments. According to DFO staffs and local users, the condition of the forest is becoming glorious after community had started to manage the forest. The overall forest management system in BCFUG can be described as: Operation management, protection management, Utilization management and promotion/ Development management.

It was found that in BCFUG there exist very few conflicts regarding management of forest, decision-making, conflict between entire members, conflict with neighbouring groups and conflict with DFO. But still various conflicts exist in this group. The conflict within this FUG can be described as: conflict over access, Conflict due to resource availability, conflict in sharing of benefit.

The major conflict in this user group in the distribution of timber wood. During the interview, it was found that most of the users were not satisfied with distribution of timber wood, as they did not get the sufficient wood. On the other hand, the committee member said the amount of wood is very limited and also they are tightened by the rules. Moreover, there are no more damaged and old trees, which can be collected. As they claimed, despite of insufficient amount of wood they are distributing the timbers were equally to the member according to need assessments.

In the study area active participation of people was identified in three different community forest activities: participation in executive committee and meeting,

participation in Silviculture (*Ban gonde*) activities and participation in other (extra) community forest activities. The people's participation in these activities was found to be different in degree and frequency according to the nature of activities.

The executive committee has to play a significant role in the planning, management and development of the forest. As explained in the Chapter-V, there are 11 members in the executive committee out of them 4 are women members. Both men and women are equally involved and concerned for the use of forest and its products (timber, fuel wood fodder etc.).

From both the household survey and key persons, four different levels of participation were identified in forest executive committee viz., attendance, discussion, suggestion and decision making. The first level of participation is attendance in general and monthly meetings, which was found to be 80 percent where as women's participation constitutes 35 percent. The second level of participation is discussion, where certain individual discusses the issues in the community forest. The participation in discussion has been found to 95 percent where women's participation constitutes 52.5 percent.

The third level of participation is giving suggestion relating to the development of the community forest. The participation in giving suggestion has been found to be 92.5 percent where women's participation constitutes 32.5 percent. The forth level is decision making for the implementation of rules and regulation for the forest users group. The participation in decision-making was found to be 37.5 percent where women's participation constitutes 7.5 percent. It has been found that 20 percent of respondent do not participant in any activities of general meeting where women's participation constitutes 15 percentages.

It has been found that the women's participation is lower than the man in all the levels and also the number of women not attending the meeting is higher than the male. This is because of different factors i.e. education, traditional roles, social values and norms which hinders the participation of women in decision-making and other activities of the CF. It was found that generally women from the educated background take part in all levels of CF activities where as women from the deprive group only take part in the silviculture and extra activities like plantation and only attend the

general assembly. They generally participate the meeting just to know the future plans and rules. Due to their illiteracy and social bound they do not move their steps in discussion and suggestion. They are actively involved in the protection of forest by stopping the illegal collection of forest products because they are highly depending in the forest products like, firewood and fodder for their livelihood.

From the household survey, it has been found that in *Ban Godne* and village cleaning, which includes physical labor and much time, the participation of women has been recorded high. This is because women are mostly involved in household works rather than in official works and have managed leisure time to work in community forest. Moreover, it has been also realized that women usually are concern in sharing of firewood and fodder for their daily domestic work.

7.2 Conclusion

The community forestry plays a vital role in conservation, protection and regeneration of forest resources of the country. Moreover participatory approach in community forest not only satisfies the basic need of the rural people but also enhances the rural livelihood. It also empowers people towards team building, group dynamism as well as self-motivation in community development. As the local resources are effectively managed and utilized, it helps the country for being self-dependent.

As observed during interview, the work division in the household works is quite systematic among respondents. Due to awareness among the respondents because of education and most of them were migrated from other parts in the study area, the male and female sharing the domestic works. However in few households of the lower status (uneducated) families, there exist much discrimination and tension. With a few exceptions, the invisible energy and labor of women with in the households are comparatively counted because of small family size in the study area. Male and female have the equal role and responsibility in the collection of forest products after the inception of the community forest because of the limited opening days for collection of firewood.

As the lower cast women are illiterate and have to do hard labour for family income, seemed to be very passive in community forestry and development related

works. Whereas it will be very unfair to say that they could not walk ahead. Thus, it was realized that the principal need of the women should be fulfilled to draw them in the mainstream of the development. Based on the fact of the present study, it can be said the Bashpani community forest users group is one of the good users groups, which is utilizing its own local resources for the betterment. But the existing community forest management system is more protection oriented rather than productive oriented. For this reason, the poor people may be deprived from day to day use of forest product, which may affect their economy.

It can be said that the leadership among the women of this FUG is also increasing, despite the fact that the participation of women is very low in decision making.

It has been realized that, there is a need of various training and technical support regarding utilization of forest products, record keeping, benefit sharing, monitoring, new methods on silviculture practices, selection of plantation site according to plant species etc. for the better efficient, effective as well as productive management. However, there must be transparency in product sharing among entire users, which reduces the conflicts in FUG.

As we know, each and every thing has its positive and negative impacts on the community (society). Similarly, community forestry program has also both types of impact in community. During the time of interview, it was observed that CF program has now become the part of life of the rural community in the study area. Despite some negative issues, CF is providing different facilities to the people of the community. The direct and indirect benefits from the community forestry have played the great role in the social life of the people in the study area. Less time consumption in performing the different activities by women has made them use the leisure time in taking care of children and house, involving in different social functions, and also encourage them to identify their strategic needs and right in development. As the revenue from the community forest is used in different community development activities like, road construction, construction of water taps, temples and resting places etc, the livelihood of villagers is become easier. CF helps for the promotion of the local tourism from which some community people can run their small business as income generating activities. It is also a good opportunity for the government to

enhance the livelihood of the rural people by developing the skill oriented training program in the study area.

7.3 Recommendation

Based on the fact observed and mentioned in the present study, some point were identified which should be improved for the betterment of The Bashpani Forest Users Group in coming days. Thus the present study has following recommendation:

-) FUG should involved more women and members from economically disadvantage group in users committee so as to make plan and policy to meet the requirement of the mentioned group.
-) Users committee should do survey and systematic need assessment prior to timber distribution so as to decrease the conflicts and biasness.
-) FUG should consult technicians to select the plantation site according to the plant species to fit with the local climate so as to check failure in the plantation.
-) User's committee should be productive oriented rather than protective so as to take maximum benefits from their available resources for sustainable development.

References

- Acharya, D.P. and Barlet, A.G.(1991). *Implementation of Community Forestry Through User Groups: Experiences from Nala Ko Thulo ban in Kabhrepalanchok district, Nepal-Australia Community Forestry Project. Discussion Paper/91.*
- Acharya, H., Acharya, R. and Joshi, A. L. (1993). *Participation of Women in the Management of Community Forest in Gorkha, Nepal.* A Report Submitted to the Nepal Field Office of the Save the Children Federation, USA.
- Bajracharya, D. (1975). *Brief Sketch of Forestry Economies.* The Nepal Journal of Forestry, vol. 4 No 1 Kathmandu.
- Bartlett A.G. and Nurse, M.C. (1992). *A Participatory Approaches to Community Forestry Appraisals.* "Banko Janakari" Vol-3 No.2.
- Bhattarai, B.(2002). *Community Forestry: Achievements and Challenges.* Human-Institutional Natural Resources Interactions (Proceeding of a Seminar, Pokhara, Nepal 27-28 March, 2002). Nepal Forest Resource and Institutions, Kathmandu Nepal.
- Bhattarai, N.K. (1997). *Role of Women in the Use and Conservation of Biodiversity: Studies in the Nepal Himalaya.* Banko Janakari vol. 7 no. 2: 3-8 Forest Research & Survey Center, Kathmandu.
- Britt, C. (2001). *Mixed Signals and Government Orders: The Problem of Unagain Off-again Community Forestry Policy.* Forest Tree and People, No. 45
- Chapagain, D.P., Kanel K.R.and D.C. Regmi (1999). *Current Policy and Legal Context of the Forestry Sector with Reference to Community Forestry Program in Nepal.* Nepal-UK Community Forestry Project, Kathmandu, Nepal.

- Chhetri, R. B. (1994). *Indigenous and Community Forest Management System: "Reviewing their strengths and weakness"* In Allen, M. Anthropology of Nepal.
- Chhetri, R. B. and Pandey, T.R., (1992). *User Group Forestry in The Far-Western Region of Nepal: Case Studies from Baitadi and Achham*. ICIMOD, Kathmandu.
- Chhetri, R. B. and Baral, S.P. (1992). *Implementation of Operational Plans in Community Forestry*. Some Useful Approaches Presented in Seminar Series at IOE Pokhara, Nepal.
- Desmond, D.F. (1996). *Current Concepts in Community Forest: Bhutan,-German Integrated Forest Management Project*.
- Devkota, B and Joshi, A. L. (1991). *Popular Management of Forest Resources: Selected Case Studies of Rapti area Agriculture and Rural Development Office, USAID/Nepal*.
- Dhal, D.R. (1994). *A Review of Forest User's Group: "A case study from Eastern Nepal"*, ICIMOD, Kathmandu.
- Fisher, R.J. (1992). *Indigenous Forest Management in Nepal: Why Common Property is not Problem*, Proceeding of an International Seminar on the Anthropology of Nepal: Peoples, Problems and Process, Edited by Michale Allen, Mandala Book Point, Kathmandu.
- Forest Act. (1993). *Ministry of Forest and Soil Conservation*.
- Forest Rule, (1995). *Ministry of Forest and Soil Conservation*.
- Gilmour D.A and D. J. Fisher (1992). *Villagers, Forest and Foresters. The Philosophy, Process and Practice of Community Forestry in Nepal*. Sahayogi Press, Kathmandu.
- Gilmour, D.A. (1988). *Key Element in Community Forestry Management*. Seminar Series at Institute of Forestry, Pokhara.

- HMG (2004). *National Database of Community Forestry User Group*. Community Forestry Bulletin. Department of Forests Community Forestry Division, Kathmandu, Nepal.
- Kanel, K. R. and Kanel R.B.(2003). *Community Forestry in Nepal: Second Generation Issues*. Community Forestry Bulletin. Department of Forest, No. 10
- Karki M.B et. al, (1994). *Sustainable Management Community Forest Resources: In Evaluation of Selected Forest User Groups in Western Nepal*, ICIMOD, Kathmandu.
- Karmacharya, S. C. (1987). *Community Forest Management, experience of the Community Forestry Development Project*, "Banko Janakari" Vol. 1 No 4.
- Kayastha, B.P (1991). *Element of the Community Forestry in Nepal*.
- Khadka, K. B. (1991), *Community Forest Management by User Group*, Problems and Prospective Solution.
- Kharel R. S. (1993) *Conflict in Community Forest in Nepal*. A review: Banako Janakari Vol. 8, Forest Research and Survey Center Kathmandu.
- Maharjan, S. 1997. *Women's Participation in Community Forest Management*. A Case Study of Bhaktapur District. A dissertation submitted for the partial fulfillment the Maste's Degree, Central Department of Geography, Kathmandu.
- Mahat, T.B.S. (1987). *Human Impact on Some Forests of the Middle Hills of Nepal*, Part 3, Forests in the Subsistence Economy of Sindhupalchok and Kabhrepalanchok, Mountain Research and Development Vol. 7 No. 1 and 2.
- Neupane H.C (2005). "*Peoples Participation in Community Forest Management. A Case Study of Maulukali Communal Forest User Group in Nawalparasi District*" Unpublished M.A (Sociology/ Anthropology) thesis submitted to T.U.

- Ojha, H.R. (2001). *Silviculture in community Forestry: conceptual and practical issues emerging from the middle hills of Nepal*. Banko Janakari, Vol. 11 Forest Research and Survey Center, Kathmandu.
- Poffenberegger, M. (2000). *Communities and Forest Management in South Asia*. A regional profile of IUCN.
- Pokharel, R. K. and Roy. R. (2000). *Impact of Community Forest on Rural Livelihood: Banko Janakari Vol. 10*, Forest Research and Survey Center, Kathmandu.
- Risher, R. J. (1988). *Directions for Community Forest Management in Nepal*. Seminar Series at Institute of Forestry, Pokhara.
- Shrestha K.B. and Shrestha R.B. (2002). *Experience of Over 25 Years in Community Forestry. Human Institutional Natural Resources Interactions*. (Proceeding of a Seminar, Pokhara, Nepal 27-28 March, 2002). Nepal Forest Resource and Institutions, Kathmandu Nepal.
- Shrestha N.K.(2001). *The Backlash: Recent Policies Change Undermined User Control of Community Forests of Nepal*. Forest, Tree , People. No. 44
- Subedi, B.P.(2002). *Decentralization and Community Forestry in Nepal: Innovations for Sustainable Community Development*. Human Institutional Natural Resources Interactions. (Proceeding of a Seminar, Pokhara, Nepal 27-28 March, 2002). Nepal Forest Resource and Institutions, Kathmandu Nepal.
- Tembe H.B. (2061). *Role of Community Forest Users Group in Community Development: A case study of Serauligurdum FUG of Okheri VDC, Ramechhap, Nepal*. Unpublished MA (Sociology/Anthropology) thesis submitted to T.U.
- Uphoff, N. (1992). *Local Institution and Participation for Sustainable Development*. Gatekeeper Series No. 31. International Institute for Environment and Development, London.