

**Leadership & Participation Process in Micro Hydro Project**  
**(A Study of Micro Hydro Project)**

A dissertation submitted to the Tribhuvan University Faculty of  
Humanities  
and Social Sciences Central Department of Sociology/Anthropology  
in Partial Fulfillment of the Requirements for the Degree of  
Master of Arts in Sociology

**By**  
**Ram Gurung**

**Central Department of Sociology/Anthropology**  
**Tribhuvan University**  
**Kathmandu, Nepal**  
**2012**

## RECOMMENDATION SHEET

This is to certify that this dissertation entitled "**LEADERSHIP & PARTICIPATION PROCESS IN MICRO HYDRO PROJECT**" submitted by **Ram Gurung** in the partial fulfillment of the requirements for the Degree of Master of Arts in Sociology was carried out under my supervision. The dissertation is based on the results of the student's original work and has not been submitted for any other degree to the best of my knowledge. I recommend this thesis for final evaluation.

Dr. Binod Pokharel

Reader and Theses Supervisor

Central Department of Sociology/Anthropology

Tribhuvan University, Kathmandu, Nepal

Date:.....

## LETTER OF ACCEPTANCE

This dissertation entitled “**Leadership & Participation Process in Micro Hydro Project**” submitted by Mr. Ram Gurung has been accepted as the partial fulfillment of the requirements for the Master Degree of Arts in sociology.

Prof. Om Gurung, Head

Central Department of Sociology/Anthropology

Tribhuvan University, Kathmandu, Nepal

External Examiner

Prof. Chaitanya Mishra

Dr. Binod Pokharel

Reader and Thesis Supervisor

Central Department of Sociology/Anthropology

Tribhuvan University, Kathmandu, Nepal

Date: .....

## ACKNOWLEDGEMENT

It is my pleasure to receive a great deal of cooperation from a number of people in the course of completion of this research work.

First and foremost, my thank goes to all the users group of Badigad Micro Hydro, Bajura; Litti Khola Micro Hydro Project, Dhading; and Molung Khola Kartike Micro Hydro Project, Okhaldhunga District for their cooperation during field survey and providing information for this research work.

I would like to express my profound gratitude to Dr. Binod Pokharel, Reader, Central Department of Sociology/Anthropology, Tribhuvan University, for his guidance, support and constant encourage for completing this work, as a Supervisor for this study.

It goes my sincere appreciation to Prof. Om Gurung, Head of the Central Department of Sociology/Anthropology, Prof. Dr. Chaitanya Mishra Central Department of Sociology anthropology and Mr. Kalyan Mathema Lecturer of Trichandra College, Tribhuwan University, for his constant inspiration, constructive suggestions, creative guidance and invaluable advice extended throughout the study period.

I express my sincere gratitude to Mrs Sarita Gurung, Chaiperson, Rural Empowerment Service Centre (RESDTN), Damauli, Tanahun, Miss Niranjana Chanda, AEPC/REF and Mr. Rana Bahadur Thapa, AEPC/ESAP, Khumaltar, Lalitpur; Mr Gokul Gautam and AEPC/RRESC/REMREC, Dhulikhel Kavre; and AEPC/RRESC/RDSC, Rajpur, Dipayal, Doti. I am in creditable to my beloved mother Mrs Dhan Maya Gurung, wife Mrs Sanu Maya Gurung my ultimate source of inspiration and son Samin Gurung & other friends for their necessary support in making my task successful.

Ram Gurung  
Kathmandu, Nepal

18 March, 2012

## TABLE OF CONTENTS

	Page No.
RECOMMENDATION SHEET	i
APPROVAL SHEET	ii
ACKNOWLEDGEMENTS	iii
ACRONYMS	iv
TABLE OF CONTENTS	v
LIST OF TABLES	ix
LIST OF FIGURES	x
LIST OF BOXES	x
<b>CHAPTER – I : INTRODUCTION</b>	<b>1-8</b>
1.1 Abstract:	1
1.2 Background	1
1.3 People's Participation	3
1.4 Statement of the Problem:	4
1.5 Objectives:	6
1.5.1 The general objectives of the studies were as follows:	6
1.5.2 The specific objectives of the studies are as follows:	7
1.6 Rationale of the Study:	7
1.7 Organization of the Study	8
<b>CHAPER - II : REVIEW OF THE LITERATURE</b>	<b>9-20</b>
2.1 Development	9
2.2 Community Development	10
2.3 Micro Hydropower Project	11
2.4 Community Organization	13
2.4.1 Participatory Approach	14
2.5 Manipulated Strategy in MHP	15
2.6 Conflict in Community Development	16
2.7 Definitions of Main Terminologies Used in the Thesis	18
<b>CHAPTER - III : RESEARCH METHODOLOGY</b>	<b>21-29</b>
3.1 Selection of Study Area:	21
3.2 Relativity to MHP	22
3.3 Research design:	23

3.4 Adapted Approach to the Study	23
3.5 Nature and Sources of Data:	23
3.6 Sampling / Universe:	24
3.7 Tools and Techniques of data collection	25
3.7.1 HH Survey	25
3.7.2 Observation	25
3.7.3 Focused Group Discussion	26
3.7.4 Key Informants' Interviews	26
3.7.5 Case Studies	26
3.8 Literature Review	27
3.9 Data Analysis:	27
3.9.1 Data Base Management	27
3.9.2 Data Entry, Processing and Analysis	27
3.10 Limitation of the study:	28
1.11 Challenges and Experiences	28

## **CHAPTER - IV : SOCIO-CULTURAL AND ECONOMIC**

### **CHARACTERISTICS**

**30-39**

4.1 Age of Respondents	30
4.2 Caste/Ethnicity	31
4.2.1 User Committee	32
4.3 Education	32
4.3.1 User Committee	33
4.3.2 Users	34
4.4 Economic status of respondents of Different MHPs	34
4.4.1 Occupation	35
4.4.2 Agriculture	36
4.4.3 Food Security	36
4.4.4 Livestock	37
4.4.5 Income	38

## **CHAPTER - V : STAKEHOLDER INSIDE MICRO**

### **HYDRO PROJECT**

**40-77**

5.1 Beneficiaries involved in MHP Planning, Implementation and Operation	40
5.1.1 Textual and action reverse in MHPs	40



6.3.2 Illiteracy	87
<b>CHAPTER -VII : SUMMARY AND CONCLUSION</b>	<b>89-93</b>
7.1 Rising of Local Petty State:	89
7.2 Investment–Leadership association	90
7.3 Centralization and Dependency	91
7.4 Summary	92
7.5 Conclusion	93
<b>BIBLIOGRAPHY</b>	<b>94-97</b>
<b>ANNEXES</b>	
ANNEX 1 Questionnaire Used at the Field Survey	
ANNEX 2 Maps of Study District Indicating Study Area	
ANNEX 3 Photographs	

## LIST OF TABLES

		<b>Page No.</b>
Table 1	Sampling / Universe of the Study Area	24
Table 2	Age group of respondent of different MHPs	30
Table 3	Caste / Ethnicity of users of different MHPs	31
Table 4	Caste / Ethnicity of users committee of different MHPs	32
Table 5	Religion of Users of different MHPs	33
Table 6	Education of UC members and users of different MHP	34
Table 7	Education of respondents different MHPs	34
Table 8	Occupational Status of the Respondents	35
Table 9	Household food security of Respondents of different MHP	36
Table 10	Distribution of Livestock among the Respondents	37
Table 11	Monthly Income of Respondents of different MHPs	38
Table 12	Entry fee of users of different MHPs	47
Table 13	Attendance of Mass Meeting in Badigad MHP	51
Table 14	Attendance at Mass Meeting in Molung Khola Kartike MHP	53
Table 15	Attendance at Mass Meeting in Litti Khola MHP	55
Table 16	Participation in User Committee by age group	59
Table 17	Caste / Ethnicity in User Committee	60
Table 18	Educational Status in User Committee	63
Table 19	Position in UC by Occupation of different MHPs	64
Table 20	Position in UC by Education of different MHPs	65
Table 21	Respondent Participating in Identification of MHP of different MHPs	71
Table 22	Respondent Participation in Formation of UC of different MHPs	72

## **LIST OF FIGURES**

	<b>Page No.</b>
Figure 10: Structural Concept of MHP	4
Figure 11: Planning Stakeholders in Theoretical Structure of MHP	41
Figure 12: Planning Structure of MHP	42
Figure 13: Structure of MHP	44
Figure 14: Institutional Relationship Structure in MHP	46

## **LIST OF BOXES**

Box 1 : Jaya Karna Giri, a user of Badigad MHP, Jagannath VDC, Bajura	69
Box 2 : Mangal Singh Bholan, a user of Litti Khola MHP, Dhading	70
Box 3 : Bishnu Devi shrestha, a user of Molung Khola Kartike MHP, Okhaldhunga	70

## ACRONYMOUS

AEPC	:	Alternative Energy Promotion Centre
BA	:	Bachelor in Arts
DDC	:	District Development Committee
DFS	:	Detail feasibility study
ESAP	:	Energy Sector Assistance Program
HH	:	Households
HSS	:	Higher Secondary School
ha	:	Hectare
I/NGO	:	International Non-Government Organization
kW	:	Kilowatt
MA	:	Master in Arts
MHP	:	Micro Hydro Project
NGO	:	Non government Organization
PAF	:	Poverty Alleviation fund
PAF	:	Poverty Alleviation Fund
PQ	:	Pre – Qualified
TRC	:	Technical Review Committee
RERL	:	Rural Energy for Rural Livelihood
REDP	:	Rural Energy Development Program
RRESC	:	Renewable Rural Energy Service Centre
REMREC	:	Resource management and Rural Empowerment Centre
RESDTN	:	Rural Empowerment Service Centre, Damaouli, Tanahun, Nepal
RDSC	:	Rural Development Service Centre
TRC	:	Technical Review Committee
SLC	:	School Leaving Certificate
VDC	:	Village Development Committee
WFP	:	World Food Programme