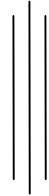


PREPAREDNESS PRACTICE ON FLOOD

**A Case Study of Bandarpur and Payal Ramnagar Communities
in Kailali District**



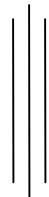
A Dissertation

Submitted to

Tribhuvan University Department of Sociology/ Anthropology

**Prithvi Narayan Campus in the Partial Fulfilment of the Requirement for
the**

Masters Degree in Sociology



By

Shanta Upadhaya

Roll No. 271/059

Regd. No. 39149-91

Tribhuvan University

The Faculty of Humanities and Social Sciences

Department of Sociology/Anthropology

Prithvi Narayan Campus

Pokhara

April 2009

LETTER OF RECOMMENDATION

This is to certify that Ms. Shanta Upadhaya has prepared this thesis entitled **Preparedness Practice on Flood** under my guidance and supervision. I, therefore, forward this dissertation for final evaluation, approval and acceptance.

Mr. Netra Narayan Paudel

Lecturer

Department of Sociology and Anthropology

Prithvi Narayan Campus, Pokhara

LETTER OF ACCEPTANCE

This thesis prepared and submitted by **Mrs. Shanta Upadhaya**, entitled **“Preparedness Practice on Flood”** (A Case Study of Bandarpur and Payal Ramnagar Communities in Kailali District) has been evaluated and accepted as partial fulfilment of the requirement for the Master’s Degree of Arts (M.A.) in Sociology by the thesis evaluation committee comprising of:

Thesis Evaluation Committee

Head of Department

Dr. Bishwo Kallyan Parajuli

Thesis Supervisor

Mr. Netra Narayan Paudel

External Examiner

Dr. Debendra Bahadur Lamichhane

Language Editor

Mr. Parmeshwor Baral

Date: 2066/01/06

RECOMMENDATION OF LANGUAGE EDITOR

This is to certify that I have read through the draft of the dissertation entitled **“Preparedness Practice on Flood”** (A Case Study of Bandarpur and Payal Ramnagar Communities in Kailali District) by Mrs. Shanta Upadhaya as language editor and made necessary correction and improvements. I have been impressed by this intelligible presentation on the facts through the medium of plain and correct English.

Parmeshwor Baral

Language Editor

Department of English Education

Prithvi Narayan Campus Pokhara

Acknowledgements

I would like to express my sincere gratitude to Mr. Netra Narayan Paudel, my Supervisor for his outstanding guidance, encouragement and suggestions to complete this thesis successfully. I would also like to express my heartfelt thanks to Dr. Bishwo Kallyan Parajuli, the Head, Department of Sociology and Anthropology for kindly providing me with an opportunity and encouragement to conduct this study. Without his inspiration and intellectual stimulation, this work would have never been completed.

I would also like to extend thanks to all respected teachers and staff of the Department of Sociology and Anthropology and my colleagues who have directly or indirectly supported me during completion of this study.

I should not forget to extend gratitude to the respondents (key person and local people) whom I met during my field visit at different time and places around Bandarpur and Payal Ramnagar communities in Kailali district, who had given their precious time and invaluable information to complete the questionnaire with their views and suggestions regarding disaster preparedness.

I would further like to extend my sincere thanks to my brothers Krishna Prasad Upadhaya and his friend Shyam Adhikari for their support to bring this dissertation in this form.

My especial thanks go to team members of Conscious Society for Social Development (CSSD) local partner of CARE Nepal for implementation of SADHAN-II in Kailali district. I am also grateful to the CARE Nepal Doti cluster's team members for their support for accomplishing of this dissertation.

Last but not the least, I am grateful to my parents, brothers, sister and my family members including my sons Basanta and Suraj for their full encouragement and support in due course of completion of this thesis and Master's Degree in Sociology.

Shanta Upadhaya

Baishakh 2066

TABLE OF CONTENT

Letter of Recommendation	i
Letter of Acceptance	ii
Recommendation of Language Editor	iii
Acknowledgement	iv
Table of Content	v
List of Tables	vii
Acronyms	viii
CHAPTER I INTRODUCTION	
1.1 Background of the Study	1
1.2 Type, Magnitude and Frequency of Natural Disaster in Nepal	4
1.3 Statement of the Problem	5
1.4 Research Questionnaire	7
1.5 Objective of the Study	7
1.6 Scope of the Study	8
1.7 Organization of the Study	8
CHAPTER II LITERATURE REVIEW	
2.1 Continuous Rainfall and Cloudbursts	11
2.2 Physical and Spatial Vulnerability	11
CHAPTER III RESEARCH METHODOLOGY	
3.1 Rational of Selection of the Study Area	20
3.2 Research Design	20
3.3 The Universe and the Sample	20
3.4 Nature and Source of Data and Information	21
3.5 Data Collection Technique	21
3.6 Limitation of the Study	22
3.7 Data Processing and Analysis	23
CHAPTER IV DESCRIPTION OF THE STUDY AREA	
4.1 Bandarpur	24
4.2 Payal Ramnagar	28

CHAPTER V PREPAREDNESS PRACTICE TO RESPONSE THE FLOOD	
5.1 Past Floods	32
5.2 Ranking of Disasters	32
5.3 Causes of Flood	33
5.4 Life saving Practice during past Disasters	34
5.5 Preparedness Activities to Save Life and Properties	35
5.6 Losses due to Disaster in the Past	37
5.7 Resource of Communities	38
5.8 Organized Approach to Response Floods	38
5.9 Future Plan of the Community	39
CHAPTER VI COMMUNITY PERCEPTION ON RELIEF DISTRIBUTION	
6.1 First Responder during Disaster	40
6.2 Types of Relief Materials	41
6.3 Timing of Relief Material Distribution after the Incident	42
6.4 Organizations Involved in Relief Distribution	43
6.5 Community Response on Relief Distribution	43
CHAPTER VII SUMMARY, CONCLUSION AND RECOMMENDATION	
7.1 Summary	45
7.2 Conclusion	47
7.3 Recommendation	48
Bibliography	50
Annexes	
ANNEXE 1: Questionnaire Schedule for Detailed Interview	53
ANNEXE 2: Checklist for Focus Group Discussion	54
ANNEXE 3: Checklist for key Informant Interview	55

LIST OF TABLES

	<u>Page No.</u>
Table 1.1: Average Annual loss of Life and Property from Natural Disasters	4
Table 1.2: Losses due to Disasters in Dhansingpur and Narayanpur VDCs	6
Table 4.1: Distribution of Population by Age and Sex-Bandarpur	25
Table 4.2: Distribution of Households by Caste-Bandarpur	25
Table 4.3: Distribution of Agricultural Land-Bandarpur	26
Table 4.4: Chronology of Past Disaster and its Effect to the Community	27
Table 4.5: Distribution of Population by Age and Sex –Payal Ramnagar	28
Table 4.6: Distribution of Household by Caste	29
Table 4.7: Distribution of Agricultural Land	30
Table 4.8: Chronology of Past Disasters and its Effect to the Community	31
Table 5.1: Ranking of Disasters by Communities	33
Table 5.2: Life Saving Measures during Floods	34
Table 5.3: List of Preparedness Practice by the Community	36
Table 5.4: Type of Losses due to Floods	37
Table 6.1: List of Responders during past Disasters	40
Table 6.2: Distribution of relief Materials	41
Table 6.3: Timing of Relief Distribution after the Disaster	43
Table 6.4: Response of Community to relief Distribution	43

ACRONYMS

AIDS	Acquired Immune Deficiency Syndrome
BCPR	Bureau of Crisis Prevention
CBO	Community Based Organization
CBS	Central Bureau of Statistics
CNDRC	Central Natural Disaster Relief Committee
CSSD	Conscious Society for Social Development
DHM	Department of Hydrology and Meteorology
DNDRC	District Natural Disaster Relief
DRRC	Disaster Risk Reduction Committee
DWIDP	Department of Water Induced Disaster Prevention
FGD	Focus Group Discussion
GDP	Gross Domestic Production
GIS	Geographic Information System
GLOF	Glacial Lake Outburst Floods
HHs	Households
HIV	Human Immune Deficiency Virus
ICIMOD	International Centre for Mountain Development
INGO	International Non-Governmental Organization
LDOF	Landslide Dam Outburst Floods
LRMP	Land Resource Mapping Project
LWF	Lutheran World Federation
MoHA	Ministry of Home Affairs
MoLD	Ministry of Local Development
MoPE	Ministry of Population and Environment
NGO	Non Government Organization
NPC	National Planning Commission
NRCS	Nepal Red Cross Society
SAR	Search and Rescue
SLC	School Leaving Certificate
UNDP	United Nations Development Programme
VDC	Village Development Committee
WECS	Water and Energy Commission Secretariat
Km	Kilometre