

IMPACT OF URBANIZATION ON IRRIGATION SYSTEM
(A Case Study of Sorah Chhattis Mauja Community Irrigation
System, Rupandehi)

A Thesis Submitted to the Central Department of Rural
Development in the Partial fulfillment of the Requirement for
the Master's Degree of Arts in Rural Development

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RECOMMENDATION LETTER

This thesis report entitled *Impact of Urbanization on Irrigation System (A case Study of Sorah Chhattis Mauja Community Irrigation System of Rupandehi District)* submitted by Damodar Pangeni is prepared under my guidance and supervision. I forward this thesis with recommendation for final evaluation and approval.

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LETTER OF APPROVAL

This thesis report entitled *Impact of Urbanization on Irrigation System (A case Study of Sorah Chhattis Mauja Community Irrigation System of Rupandehi District)* submitted by Damodar Pangenji has been accepted as a partial fulfillment of the requirements for the degree of Master of Arts in Rural Development by the undersigned member of the committee.

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ABSTRACT

Irrigation is the most important factor to improve agricultural production. If farmers have got sufficient irrigation facility, they can produce more crops and our country will be benefited more, because agriculture is the backbone of Nepalese economy. Most of the people of the country depend on the agriculture for their livelihood. Agriculture is the major source of the employment for the country. This study especially focuses on Sorah Chhattis Mauja Community Irrigation System of Rupandehi District.

Sorah Chhattis Mauja Community Irrigation System is expanded into 7 VDC and a municipality of Rupandehi district, which is under the management of the local farmers since the initial stage. This study focuses on to assess the impact of urbanization on Sorah Chhattis Mauja Community Irrigation System, which is the one of the large Irrigation system of the country since more than a century.

This study by nature largely based on primary data. The primary data is collected from the farmers of Shankarpur Mauja, Mirgauliya Mauja, Paschim Pahuni Mauja, Purbi Shankarnagar Ek Number Mauja, Char Number Mauja and whereas secondary data and information were accumulated from various published and unpublished sources. 50 households of these Maujas are sample size of this study. The structured questionnaires are used to collect the primary data from individual household to fulfill the objectives of the study. All collected data are tabulated and analyzed by using simple statistical method.

This study revealed that the impact of urbanization on SCMCIS is problems for the farmers of this irrigation systems command area. This study has found that Sorah Chhattis Mauja Community Irrigation System is affected by the urbanization due to lack of any proper management of wastage disposal for the municipality and village development committee. People of the main area of

this system are throwing their wastages in the canal, without any clarification. So, status of this systems water is poor and not much acceptable for the agricultural production. This is very harmful for the farmers and the country, which is affecting the countries agricultural production.

On the basis of the study finding some recommendations have been suggested for the improvement of SCMCIS management aspect and to increase the quality and flow of the water on irrigation system.

CONTENTS

Recommendation Letter	ii
Letter of Approval	iii
Acknowledgements	iv
Abbreviations / Acronyms	v
Glossary	vi
Abstract	vii
List of Tables	ix
Contents	x

CHAPTER ONE

1. INTRODUCTION	1-6
1.1 Background of the Study	1
1.2 Statement of the Study	2
1.3 Objectives of the Research	4
1.4 Rationale of the Study	5
1.5 Organization of the Study	5

CHAPTER TWO

2. REVIEW OF THE PREVIOUS LITERATURE	7-16
--------------------------------------	------

CHAPTER THREE

3. RESEARCH METHODOLOGY	17-21
3.1 Selection of the Study Area	17
3.2 Research Design	17

3.3 Nature and Sources of Data	18
3.4 Universe and Sampling	18
3.5 Data Collection Technique	19
3.5.1 Key Informants Interview	19
3.5.2 Participant Observation	20
3.5.3 Focus Group Discussion	20
3.6 Method of Data Analysis	20
3.7 Limitation of the Study	20

CHAPTER FOUR

4. PRESENTATION AND ANALYSIS OF DATA	22-35
4.1 Background of the Study Area	22
4.1.1 Rupandehi District	22
4.1.2 Butwal	24
4.1.3 Tinau River	25
4.1.4 Sorah Chhattis Mauja Community Irrigation System (SCMCIS)	26
4.2 Land Holding Pattern	28
4.3 Irrigation Facility	30
4.4 Alternative Means of Irrigation	31
4.5 Impact on Agriculture	32
4.6 Quality of Water	32
4.7 Impact on Production	33

4.8 Multiple Water Using Pattern	34
4.9 Wastage Mixing Pattern	35

CHAPTER FIVE

SUMMARY OF MAJOR FINDINGS, CONCLUSIONS AND RECOMMENDATION	36-43
--	-------

5.1 Major Findings of the Study	36
---------------------------------	----

5.1.1 Land Holdings	36
---------------------	----

5.1.2 Irrigation Facility	36
---------------------------	----

5.1.3 Flow of Water	37
---------------------	----

5.1.4 Quality of Water	37
------------------------	----

5.1.5 Wastage Mixing Pattern	38
------------------------------	----

5.1.6 Impact of Urbanization on SCMCIS	38
--	----

5.1.7 Impact of Industrialization on SCMCIS	39
---	----

5.1.8 Impact on Agricultural Production	39
---	----

5.2 Conclusion	40
----------------	----

5.3 Recommendation	42
--------------------	----

REFERENCES	44-46
------------	-------

ANNEX

LIST OF TABLE

	Page No.
Table 4.2: Land Holdings Pattern	30
Table 4.3: Irrigation Facility	31
Table 4.4: Alternative Means of Irrigation	31
Table 4.5: Flow of Water	32
Table 4.6: Quality of Water	32
Table 4.7: Impact on Production	33
Table 4.8: Multiple Water Using Patterns	34

GLOSSARY

Mauja	A settlement cluster which roughly corresponds to a village
Terai	Plain area of Nepal
Meth Muktiyar	Chief-Staff of the system
Muktiyar	the staff of village level irrigation committee and in isolated cases, he can be the village level elected representative of water users village level system chief
Kulahi	A process to cleaning and maintaining the canal
Pahari	People from the hill.
Bazar	Market
Birta	Tax-free land granted by the state to the individuals
Kattha	Measurement scale of land used in Terai
Bigha	Measurement scale of land is equal to 0.67 hectares

ABBREVIATIONS/ ACRONYMS

BLUWP	Bhairahawa Lumbini Underground Water Project
CBOs	Community Based Organization
CBS	Central Department of Statistics
CIA	Central Intelligence Agency
FMIS	Farmer Managed Irrigation System
GDP	Gross Domestic Production
GO	Government Organization
HH	House Hold
INGOs	International Non-Government Organizations
M/F	Male/ Female
NA	Not Available
NGOs	Non-Governmental Organization
SCMCIS	Sorah Chhattis Mauja Community Irrigation System
TU	Tribhuvan University
VDC	Village Development Committee