

**IMPACT OF DEEP TUBE WELL IRRIGATION ON AGRICULTURE  
PRODUCTION AT SURUNGA-07 VDC, OF JHAPA DISTRICT**

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**Submitted by**

**Laxmi Rai**

**Roll. No. 192/2067**

**TU Regd. No.: 6-2-40-1537-2006**

**Central Department of Economics**

**Tribhuvan University, Kirtipur**

**Kathmandu, Nepal**

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## **RECOMMENDATION LETTER**

This is certified that **Laxmi Rai** has prepared this thesis entitled **IMPACT OF DEEP TUBE WELL IRRIGATION ON AGRICULTURE PRODUCTION AT SURUNGA-07 VDC, OF JHAPA DISTRICT** under my guidance and supervision. I hereby recommend this thesis for examination to the thesis committee as a partial fulfillment of the requirements for the degree of Master of Arts in economics.

.....  
**Prof. Dr. Sohan Kumar Karna**  
(Thesis Supervisor)  
Central Department of Economics  
Tribhuvan University  
Kirtipur, Nepal

**Date: 2073/06 /06B.S.**

**2016/09 /22 A.D.**

## **APPROVAL LETTER**

We certify that this thesis entitled **IMPACT OF DEEP TUBE WELL IRRIGATION ON AGRICULTURE PRODUCTION AT SURUNGA-07 VDC, OF JHAPA DISTRICT** Submitted by **Laxmi Rai** to the Central Department of Economics. Faculty of Humanities and Social Sciences, Tribhuvan University, in partial fulfillment of the requirements for the Degree of Masters of Arts in Economics has been found satisfactory in scope and quality. Therefore, we accept this thesis as a part of the said degree.

### **Thesis committee**

**Prof. Dr. Ram Prasad Gyanwaly** .....

(Head of the Department)

**Prof. Dr. KusumShakya** .....

(External Examiner)

**Prof. Dr.Sohan Kumar Karna** .....

(Thesis Supervisor)

**Date: 2073/ 06/06 B.S.**

**2016/09 /22A.D.**

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## TABLE OF CONTENTS

	<b>Page No.</b>
RECOMMENDATION LETTER	i
APPROVAL LETTER	ii
ACKNOWLEDGEMENTS	iii
TABLE OF CONTENTS	iv
LIST OF TABLES	vii
LIST OF FIGURES	viii
ABBREVIATION/ACRONYMS	ix
<b>CHAPTER ONE: INTRODUCTION</b>	<b>1-5</b>
1.1 General Background	1
1.2 Statement of the Problem	2
1.3 Objectives of Study	4
1.4 Significance of the Study	4
1.5 Limitation of the Study	5
1.6 Organization of the Study	5
<b>CHAPTER TWO: LITERATURE REVIEW</b>	<b>6-18</b>
2.1 Theoretical Perspective	7
2.2 Empirical Perspective	12
2.2.1 International Perspective	12

2.2.2 National Perspective	15
2.3 Research Gap	18
<b>CHAPTER THREE: RESEARCH METHODOLOGY</b>	<b>19-22</b>
3.1 Research Design	19
3.2 Nature and Sources of Data	20
3.2.1 Primary Data	20
3.2.2 Secondary Data	20
3.3 Method of Data Collection	20
3.3.1 Household Survey	20
3.3.2 Interview of Respondents	21
3.4 Sampling Design	21
3.5 Data Analysis Tools	22
<b>CHAPTER FOUR: SOCIO-ECONOMIC PROFILE</b>	<b>23-31</b>
4.1 Background	23
4.2 Profile of the Study Area	23
4.3 Socio-economic Condition	25
4.3.1 Age and Sex Composition of the Surunga VDC	25
4.3.2 Caste/Ethnicity Composition of the Study Area	26
4.3.3 Literacy and Education	28
4.3.4 Occupation	29

**CHAPTER FIVE: DATA ANALYSIS AND INTERPRETATION 32-38**

5.1 Size of Landholding	32
5.2 Irrigation Status	33
5.3 Agriculture Production	34
5.4 Income Status of the Study Area	37

**CHAPTER SIX: SUMMARY OF THE FINDINGS, CONCLUSIONS AND RECOMMENDATIONS 39-41**

5.1 Summary of the Findings	39
5.2 Conclusions	41
5.3 Recommendations	41

**Appendix 42-48**

**References 49-51**

## LIST OF TABLES

<b>Tables</b>	<b>Title</b>	<b>Page No.</b>
Table 3.1:	Distribution of Sample Households of the Study Area	22
Table 4.3.1:	Population Distribution by Age and Sex	25
Table 4.3.2:	Cast/Ethnic Distribution of Sample Households the Study Area	27
Table 4.3.3:	Educational Status of the Sample Population	28
Table 4.3.4:	Occupational Structure	30
Table 5.1:	Distribution of Landholding Size (in Bigaha)	32
Table 5.2:	Production Structure of the Selected Land before & after Deep Tube-Well Irrigation	35
Table 5.3:	Income Status of Households	37



## LIST OF FIGURES

<b>Figures</b>	<b>Title</b>	<b>Page No.</b>
Figure 4.3.1:	Population Distribution by Age and Sex	26
Figure 4.3.2:	Cast/Ethnic Groups	27
Figure 4.3.3:	Educational Status of Sample Population	29
Figure 4.3.4:	Occupational Structure	31
Figure 5.1:	Distribution Landholding	33
Figure 5.2:	Income Status of Households	38

## **ABBREVIATIONS AND ACRONYMS**

ADB	Asian Development Bank
APP	Agriculture Perspective Plan
CBS	Central Bureau of Statistics
CGISP	Community Groundwater Irrigation Project
DADO	District Agriculture Development Office
DAO	District Agriculture Office
DDC	District Development Committee
DTW	Deep Tube-Well
FAO	Food and Agriculture Organization
FMIS	Farmer Managed Irrigation System
GDP	Gross Domestic Product
GW	Ground Water
HDI	Human Development Index
HHs	Households
HYV	High Yielding Varieties
MoF	Ministry of Finance
NGO	Non-Government Organization
PVC	Polyvinylchloride
STW	Shallow Tube-well
UNDP	United Nation Development Programme
WUG	Water User Group