

**SOCIO-ECONOMIC IMPACT OF SMALL HYDROPOWER:
A CASE STUDY OF BIJAYAPUR HYDROPOWER PROJECT,
KASKI**

A Thesis

**Submitted to the Department of Economics,
Faculty of Humanities and Social Sciences of Tribhuvan University,
in Partial Fulfillment of the Requirements for the Degree of
MASTER OF ARTS
in
ECONOMICS**

Submitted By

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LETTER OF RECOMMENDATION

This thesis entitled “*Socio-Economic Impact of Small HydroPower: A Case Study of Bijaypur Hydropower Project, Kaski*” is prepared by Mr. Anil Thapa under my supervision. I hereby recommend this thesis for approval by the thesis committee.

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Date: 7th April, 2017

APPROVAL SHEET

We certify that the thesis entitled “*Socio-Economic Impact of Small Hydropower: A Case Study of Bijayapur Hydropower Project, Kaski*” submitted by Anil Thapa to Department of Economics, Prithvi Narayan Campus Pokhara, Faculty of Humanities and Social Sciences, Tribhuvan University, in partial fulfillment of the requirements for the degree of MASTER OF ARTS in ECONOMICS has been found satisfactory in scope and quality. Therefore, we accept this thesis as a part of the said Degree.

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ABSTRACT

The present study was carried out in Bijayapur hydropower of Kaski. The survey was conducted with the aim of determining socio-economic impact of Small Hydropower Project (SHPP) through income and employment generation, health and sanitation, education and information technology and suggest solution for sustainable development of SHPP.

In Kaski district there are five SHPP Mardi Khola, Bijayapur, Upper Madi, Seti and Fewa with the total 36.8 MW electricity generations which is connected to national grid. The Bijayapur hydropower generates 12.22% of total electricity production of Kaski which is 0.49% of total hydropower production in Nepal. The canal from the Seti hydropower is also mixed with Bijayapur river to generate the electricity.

The present study has attempted to bring these aspects of the SHPP into the limelight through the study of socio-economic impact of Bijayapur HPP in the overall sector of the study area. The construction of project was started from the year 2067 B.S. with the financing of Rastriya Banijya Bank, Nabil Bank and Nepal Bank Ltd and was completed in the year 2069 B.S.

The study has employed both primary and secondary data. Under the primary data, the study has been based on questionnaire, interview and direct observation of the project site and affected areas. Likewise, different reports and official publications regarding hydropower plants have been taken into consideration for the secondary data.

The study has been found mixed socio-economic impact of the project on the project affected areas. The populations of the surrounding area have been increased due to the development of this project. After the installation of SHPP around 28 local peoples have fully involved in job. In the study area, Ram Jyoti Secondary School has increased its infrastructure which increase the performance of the students enrolled in it after the donation from the hydropower to the school. This also increases the living standard of the people in the study area

To sum up, installation of Bijayapur hydropower project is significant from several angles like to fulfill national demand of electricity, uplift income and living standard of local people.

TABLE OF CONTENTS

	Page No.
ACKNOWLEDGEMENTS	iii
ABSTRACT	iv
LIST OF TABLES	vii
LIST OF FIGURES	viii
LIST OF ACRONYMS	ix
CHAPTER 1. INTRODUCTION	1
1.1 General Background	1
1.2 Statement of Problems	6
1.3 Objectives of the Study	6
1.4 Significance of the Study	7
1.5 Limitations of the Study	7
1.6 Organization of the study	8
CHAPTER 2. REVIEW OF THE LITERATURE	9
2.1 Review of the Hydropower Studies	10
2.2 Research Gap	27
CHAPTER 3. METHODOLOGY	28
3.1 Selection of the Study Area	28
3.2 Research Design	28
3.3 Sample Size and Sampling Procedure	29
3.4 Nature and Sources of Data	29
3.4.1 Primary Data	29
3.4.2 Secondary Data	30
3.5 Data Collection and Processing.....	30
3.6 Techniques of Data Analysis	31
CHAPTER 4. DATA ANALYSIS	33
4.1 Bijayapur SHPP	33
4.1.1 Installation Cost of the Project	33
4.1.2 People Perception about Impact of Surrounding area of SHPP	33
4.1.3 Electricity Consumption in Study Area	34
4.2 Household Information of the Project Affected Area.....	35
4.2.1 The Households Participants of Ward No. 26	35

4.2.2 Gender of the Respondents	36
4.2.3 Age Group of the Respondents	37
4.2.4 Population Distribution of the Study Area by Ethnic Group	38
4.2.5 Main Income Source of Households	38
4.3 Socio Economic Impact of Bijayapur SHPP	39
4.3.1 SHPP Role in Electrification	40
4.3.2 Uses of electricity for various purposes	40
4.3.3 Change in Consumption of Energy	41
4.3.4 Effects on education	42
4.3.5 Access to Modern Technology	44
4.3.6 Impact on Source of Income	45
4.3.7 Impact on Female Participant in Social Activities	46
4.3.8 Impact on Health, Child Health and Maternal Health	46
4.3.9 Establishment of Industry and Direct Job Creation	47
4.3.10 Environmental Impact of SHPP	48
4.3.11 Impact on Promotion of Internal Tourism	48
4.3.12 Impact on Migration Rate	49
4.3.13 Investment by SHPP in Development of Society	50
4.3.14 Impact on Children Playing Area	50
4.3.15 Impact on Grazing Land	51
4.3.16 Impact on Water Resources	52
4.3.17 Electric Power Generation from SHPP	52
4.3.18 Revenue from SHPP	54
4.4 Major Findings	57
CHAPTER 5. SUMMARY AND CONCLUSIONS	59
1.1 Summary	59
1.2 Conclusions	60
1.3 Recommendation	61
APPENDIX	62
BIBLIOGRAPHY	71

LIST OF TABLES

Table 4.1: Monthly total consumption and selling of electricity in Kaski district	34
Table 4.2: Monthly total electricity consumption in Kaski district and total income collected by NEA office.	34
Table 4.3: Tolewise distribution of respondents	36
Table 4.4: Age group of respondents	37
Table 4.5: Population Distribution by Ethnic Group	38
Table 4.6: Main Income Sources of HHs	39
Table 4.7: Use of electricity for various purposes	41
Table 4.8: Change in consumption of energy	42
Table 4.9: Impact of electricity on children studying habit	43
Table 4.10: Changes on no. of students in School	44
Table 4.11: Access to modern Technology	45
Table 4.12: Total job creation from SHPP	46
Table 4.13: Firm registered in study area	47
Table 4.14: Migration Rate in study area	49
Table 4.15: Mean and Standard Deviation of Migrated HHs	49
Table 4.16: Number of Livestock in study area	51
Table 4.17 Electric Power Generation from SHPP	52
Table 4.18 Trend of Electric Power Generation from SHPP	53
Table 4.19: Revenue of SHPP	55
Table 4.20 Income trend value of SHPP	55
Table 4.21: Revenue and Profit of SHPP	56

LIST OF FIGURES

Figure 4.1: Monthly total Unit Electricity Consumed in Kaski District ...	35
Figure 4.2: Gender of the respondents	36
Figure 4.3: Age Group of Respondents	37
Figure 4.4: Main Income Sources of HHs	39
Figure 4.5: Change in Consumption of Energy	42
Figure 4.6: Changes in no. of students in School in the study area	44
Figure 4.7: Total no. of industry in the study area after SHPP	48
Figure 4.8: Migrated HHs of the Study Area	50
Figure 4.9: No. of Livestocks	51
Figure 4.10: Trend Line Graph of Electric Power Generation	54
Figure 4.11: Trend Line Graph of Income of SHPP	56
Figure 4.12: Profit of the SHPP	57

LIST OF ACRONYMS

DOED	Department of Electricity Development
GJ	Giga Joule
GoN	Government of Nepal
GNP	Gross National Product
HP	Hydropower
HPP	Hydropower Project
INPS	Nepal Power System
IPP	Independent Power Producer
KV	Kilo Volt
MOE	Ministry of Environment
MOWR	Ministry of Water Resources
MW	Mega Watt
NEA	Nepal Electricity Authority
NHA	Nepal Hydro Power Association
NPC	National Planning Commission
PPA	Power Purchase Agreement
ROR	Run-of-River
SHPP	Small Hydropower Project