

**Socio-economic Status of Bio Gas Users: A Case study  
of Tanahunsur Village Development Committee of  
Tanahun District.**

**A Thesis**

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Faculty of Humanities and Social Sciences**

**In Partial Fulfillment of the Requirement for the Degree of Master of Arts  
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## RECOMMENDATION LETTER

This thesis entitled "**Socio-economic Status of Bio Gas Users: A Case study of Tanahunsur Village Development Committee of Tanahun District**" has been prepared by Mr. Bikash Wagle under my supervision. I hereby recommend this thesis for evaluation to the thesis committee for the fulfillment of the requirement for the degree of Master of Arts in Rural Development.

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## **Approval Sheet**

This is to certify that the thesis entitled "**Socio-economic Status of Bio Gas Users: A Case study of Tanahunsur Village Development Committee of Tanahun District**" Submitted by **Mr. Bikash Wagle** has been examined. It has been declared successful for fulfillment of the academic requirements towards the completion of Masters of Art in Rural Development.

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**May, 2010.**

**Bikash Wagle**

## ABSTRACT

*This study entitled "Socio-economic Status of Bio Gas Users: A Case study of Tanahunsur Village Development Committee of Tanahun District" deals with the socio economic status of biogas energy on biogas users. The general objective of the study is to find out the Socio Economic Status of Bio Gas Users: A Case Study of Tanahunsur VDC Of Tanahun District. The specific objectives are to assess the socio-economic characteristics, analyze the operational Status, and impact of the biogas on women status. For the study, the extensive field visit was conducted in Tanahunsur VDC of Tanahun district. Both primary as well as secondary data have been used in this study.*

*In this VDC, there are 712 households. 145 HHs have installed the biogas plants. About 40 households have been taken as sampled households. Out of 145 Households. Sampled households were those who had installed biogas plant. Simple random sampling technique has been used to select sample. In this study, data were collected from field survey using household survey questionnaire and observation method.*

*This study found that majority of the households 45percent out of total interviewed reported that they had adopted agriculture as a main occupation. Average family size of the sampled household was 4.5 per household. About 77.5 percent plant owners out of total interviewed were literate whereas only 22.5 percent were illiterate. Average landholding size is 14.5Ropani per household. About 42.5 percent out of total interviewed were from Brahmin caste.*

*Out of total sampled biogas plant owners, majority of the households 52.5percent had taken loan from financial institutions. About 47.5 percent*

*households reported that the main reason behind the installation of biogas plant was easy and smokeless cooking. Around 72.5 percent plant owners had attached toilet with the biogas plant. Average livestock population size of sampled household was 3.22 per household. Total average time saving was 3 hrs per day per household. Average saving amount of money was Rs.5928/- per year per household.72.5percent households has been mosquito increased.*

*This study also revealed that improvement was found in health and sanitation situation. Majority of the respondents 77.5percent out of total interviewed reported that their social status has increased. It was also found that 82.5percent women were highly benefited by the biogas plant. This study also revealed that women are Utilization of Saved Time Productivity Sector in 47.5 percent.*

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## **ABBREVIATIONS**

ADB/N	:	Agricultural Development Bank/Nepal
AEPC	:	Alternative Energy Promotion Center
BSP	:	Biogas Support Programme
DDC	:	District Development Committee
FY	:	Fiscal Year
GDP	:	Gross Domestic Product
GON	:	Government of Nepal
GGC	:	Gobar Gas Company
HHs	:	Households
LPG	:	Liquefied Petroleum Gas
MA	:	Master of Arts
MOF	:	Ministry of Finance
MOST	:	Ministry of Science and Technology
NBPG	:	Nepal Biogas Promotion Group
WECS	:	Water and Energy Commission Secretariat
No.	:	Number
NPC	:	National Planning Commission
NPK	:	Nitrogen, Phosphorus, Kalium
CNP	:	Chitwan National Park
RD	:	Rural Development
SNV/N	:	Netherlands Development Cooperation/Nepal
Sq.	:	Square
TU	:	Tribhuvan University
VDC	:	Village Development Committee
WDR	:	World Development Report