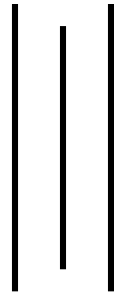
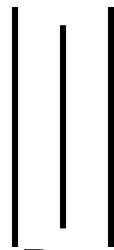


A STUDY ON SOCIO-ECONOMIC IMPACT OF BIOGAS
PLANT IN SURKHET DISTRICT
(A case Study of Birendranagar Municipality-3 Surkhet)



A Dissertation

Submitted to the Birendranagar Multiple Campus,
Birendranagar, Surkhet, in Partial Fulfillment of the
Requirement for the Degree of
MASTERS OF ARTS
IN SOCIOLOGY



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RECOMMENDATION

This is to certify that the dissertation submitted by Kamala Tiwari entitled "**A Study of Socio Economic Impact of Biogas Plant in Surkhet District**" (A case Study of Birendranagar Municipality- 3, Surkhet) has been prepared as approved by this Department in the prescribed format of Faciltity of Humanities. This thesis is forwarded for examination.

.....

(Supervisor)

APPROVAL LETTER

We certify that this dissertation entitled "**A Case Study Of Social Economic Impact Of Biogas Plant In Surkhet District**" (**A Case Study Of Birendranagar Municipality-3, Surkhet**) prepared by Kamala Kumari Tiwari submitted to Faculty of Humanities Tribhuvan University in partial fulfillment of the requirement for the degree of Master's of Arts been found satisfactory in scope and quality. Therefore, we accept this as a part of the said degree.

Evaluation Committee

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Head of Department

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External Examiner

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Supervisor

Date : March, 2009

ACKNOWLEDGEMENTS

This dissertation , on the title "**A Study of Socio-Economic impact of biogas plant in Surkhet district, the case study of Birendranagar-3, Surkhet**" has been written to fulfill the study of master's degree in Humanities, according to the curriculum of the T.U.

The thesis has tried to access the socio- economic impact of the biogas plant installation in Birendranagar Municipality -3, Surkhet. The researcher has expected that it's conclusion helps the stakeholders to find out the socio-economic implications of biogas users and usefulness of biogas plant in respect to health, sanitation and education. On the basis of information from this project work, policy makers will also be able to find out the problems related to biogas plant. The recommendations put forward will certainly help in the improvement of bio-gas programme.

In this context, I would like to convey my gratitude to my project work supervisor and also my teacher, Lecturers of Birendranagar Multiple Campus for her valuable assistance in shaping this research.

During the preparations of this project work, the officers of biogas branch office of Surkhet district have assisted me a lot for which I would like to express my gratitude.

Last but not the least, I am very much obliged to the villagers of Birendranagar-3, Surkhet, and my sister Sarita Tiwari for their assistance in my field work.

Kamala Kumari Tiwari

EXECUTIVE SUMMARY

Biogas is gaining popularity as a good alternative source of energy. The history of biogas was started from 18th century with the development of various technological factors, the energy sector is seen to have served as the backbone of modern society. Many developing countries are facing energy related problems such as rising price of fossil fuels and the high rate of depletion of the forest resources under Nepalese context, the sources such as solar and wind energy have not been fully utilized and exploited. Though with very high potentiality, water resources of Nepal have been very maximally explored. The energy problem of a country leads to the search and study of the alternative sources of energy such as biogas.

Biogas technology has given a good contribution in the energy sector of Nepal, a technology which helps to save the deforestation and many other bad consequences such as health related problem, and it helps in curtailing the imports of oil products, the slurry of biogas helps in curtailing the import of expensive fertilizers, increase in agriculture production which will develop the living standard of farmer, after installation of biogas plant, fuel wood collection time is saved, the cost of kerosene can be minimized, enrollment of girls children in school is increased, cooking time can be minimized in comparison to time consumed by firewood, study time of children is increased, indoor pollution is decreased, eye problem, respiratory problem, headache burn related problem i.e. health related problem is decreased so from every angle biogas helped in positive change of the developing country like Nepal.

From the study we can conclude that energy is the backbone for the development of the modern society. At the present context, Nepal is facing the energy related problem such as shortage of LP gas. At this condition, we have to promote for the installation of biogas to rural people so that they would not face the energy related problem and in some extent deforestation would be controlled. The slurry of biogas would also help to increase the production so that the living standard of the people would be increased. So the conclusion can be made that biogas assists to the change of every aspect of living standard of the people of the developing nation like Nepal.

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List Of Abbreviation

FY	Fiscal Year
TOE	Tons of Oil Equivalent
GGC	Gober Gas Company
LPG	Liquid Petroleum Gas
VDCS	Village Development Committees
KW	Kilo Watt
DCS	Development and Consulting Services
BEW	Butwal Engineering Works.
BTI	Butwal Technical Institute
ADB	Agriculture Development Bank