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JHARKOT ELECTRIFICATION SCHEME

PRE-ELECTRIFICATION BASELINE SURVEY

Integrated Development Systems (IDS)

MIT Series No. 7

1991

INTERNATIONAL CENTRE FOR INTEGRATED MOUNTAIN DEVELOPMENT

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**Integrated Development Systems (IDS)
P.O. Box 2254
Kathmandu, Nepal**

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International Centre for Integrated Mountain Development (ICIMOD)

Kathmandu, Nepal

PREFACE

Development and Consultancy Services (DCS) and the International Centre for Integrated Mountain Development (ICIMOD) took the opportunity to commission a study on the impact of the Jharkot Electrification Scheme. Integrated Development Systems/Nepal (IDS) was contracted to conduct this pre-electrification baseline study. The IDS Study team members visited the site in the late winter (March/April) and summer (August) of 1989. The post-electrification survey and assessment is planned for 1991.

The IDS study team consisted of Mr. Dipak Gyawali (Project Director), Dr. Krishna Dev Bhatta (Senior Research Associate), Mr. Kedar Bilas Panday (Field Coordinator), Mr. Shankar Aryal and Ashwasthama Pokhrel (Senior Research Assistants). Mr. Santosh Nepal (Field Enumerator) and Mr. Raju Aryal (Field Enumerator). Mr. Prem J. Thapa contributed to the design of the study and assisted in completing this Report.

Electrification of Jharkot provides an excellent opportunity to carefully analyse the impact of electrification in a remote mountain hamlet through pre-electrification and post-electrification assessments, and thereby gain valuable insights into the role of electricity in resource-conservation and general development of such areas. A more specific research interest is to understand and document the nature of changing energy use patterns in such communities after electrification, and also to study the adoption of the *bijuli dekchi* innovation.

ACKNOWLEDGEMENTS

IDS wishes to thank ICIMOD for entrusting it with this important study, as well as for providing it with funds for the study. In addition, we are very grateful to Dr. Ram Prakash Yadav, Dr. Mahesh Banskota, and Dr. Deepak Bajracharya (ICIMOD) and to Ben van Wijhe and Bikash Panday (IDS) for their valuable inputs in the design and conduction of the study and for their general assistance.

IDS also wishes to thank to Mr. Jens Chr. Olesen of DCS for his extensive and insightful comments on the draft report of the winter period baseline survey findings. This final report incorporates many of the points raised by him and which have led to improvements in the report.

Finally, IDS expresses its deep appreciation for the cooperation and understanding extended by the villagers of Jharkot and Khinga who, in spite of their busy domestic chores, gave their valuable time to help out in this study. Special mention must be made of Mr. Sherpa Gurung for his help in preparing the village household lists and in introducing us to the villagers, and to Mr. Kuanga Gurung for working as an interpreter to help us better communicate with the villagers.

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LOCAL WORDS AND CONVERSION FACTORS USED IN THE REPORT

LOCAL WORDS

<i>Bhari</i>	:	Load
<i>Bhote Pipal</i>	:	<i>Populus ciliata</i>
<i>Bijuli Dekchi</i>	:	Electric cooker (kettle)
<i>Chhepa</i>	:	Penalty or fine
<i>Chulo</i>	:	Traditional cooking stove
<i>Dal</i>	:	Traditional Nepali lentil soup
<i>Dhindo</i>	:	Porridge
<i>Dolpelis</i>	:	Inhabitants of Dolpa District
<i>Gembuwa</i>	:	Elected leader of the <i>Zhomgen</i>
<i>Ghatta</i>	:	Water mill
<i>Ilaka</i>	:	Sub-division of <i>Panchayat</i> area
<i>Jharkotelis</i>	:	Inhabitants of Jharkot Village
<i>Jhoomas</i>	:	Nuns in a Tibetan monastery
<i>Jhopa</i>	:	Crossbred yak
<i>Kataulos</i>	:	Other officials appointed by the <i>Zhomgen</i>
<i>Khinga ko Kulo</i>	:	Khinga's traditional irrigation canal
<i>Khingalis</i>	:	Inhabitants of Khinga
<i>Pradhan Pancha</i>	:	Village leader
<i>Rollos</i>	:	Other officials appointed by the <i>Zhomgen</i>
<i>Sattu</i>	:	Food made from pre-cooked flour
<i>Sukuti</i>	:	Smoke-dried meat
<i>Zhomgen</i>	:	Traditional council of village elders in Jharkot

CONVERSION FACTORS

1 Bulb	:	40 Watts
1 kg Bushes	:	15.1 MJ
1 kg Dung Cakes	:	10.9 MJ
1 kg Firewood	:	16.7 Megajoules (MJ)
1 Gigajoules	:	1000 MJ
1 Hectare	:	19.6 <i>Ropanies</i>
1 Ltr. kerosene	:	36.3 MJ
1 <i>Mana</i>	:	0.6 Litres
1 Megajoules	:	239 (approx.) kilocalories
1 <i>Pathi</i>	:	8 <i>Manas</i>
1 <i>Ropani</i>	:	74 ft. x 74 ft. i.e., 5476 sq.ft.
1 <i>Ropani</i>	:	In local measurement units, amount of land requiring 8 <i>Pathi</i> of rice seed for sowing