

**ECONOMIC EFFECT OF TUNNEL VEGETABLE FARMING:
A Study of Phungling Municipality, Taplejung, Nepal**

A Thesis

Submitted to the Tribhuvan University, Faculty of Humanities and Social Sciences
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In
Rural Development

By

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August, 2023

DECLARATION

I hereby declare that this Thesis entitled **Economic Effect of Tunnel Vegetable Farming : A Study of Phungling Municipality, Taplejung, Nepal** submitted to the department of Rural Development Mahendra Ratna Multiple Campus Ilam, is my original and empirical work. I truly want to state that I have borrowed all idea and information from different sources for the preparation of them. I made due acknowledgement to them it is also declared that the results of thesis have not been presented and submitted anywhere else for the award of any degree and for any other proposes. I want to assure that any part of the content of this thesis has not been published in any form before.

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Recommendation Letter

The thesis entitled **Economic Effect of Tunnel Vegetable Farming: A Study of Phungling Municipality, Taplejung, Nepal** has been prepared by **Himal Rai** under my guidance and for her partial fulfillment of the requirements for the Degree of Master of Arts in Rural Development. This is her innovative work. I, therefore, recommend this thesis for its evaluation and approval.

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ABSTRACT

The Commercializing subsistence farming is crucial for changing the livelihood of farmers. Vegetables have a great importance in agriculture sector. The contribution of agriculture to national Gross Domestic Product is remarkable; however, it is declining over the decades. Use of seasonal extension technologies such as plastic tunnels in farming can potentially contribute to farms capability by helping farmers to improve their efficiencies and by extending the market season, one of the major barriers in meeting food demand. Tunnel farming is relatively new technology in Nepal and its benefits are not vibrant. This study is an attempt to find out the benefits of tunnel farming. The Government of Nepal emphasizes agriculture development in for poverty alleviation. This paper aims to analyze the Economic analysis of tunnel vegetable farming in Phungling Municipality. Simple random sampling method is used for determine sample size. Altogether 35 farm household surveys were conducted in two major areas of Phungling. A total of 20 key informant interviews were also conducted to understand the perception of farm households on tunnel vegetable farming. The result shows that around 97.2% of the total sampled farm households have leasehold farmland that has spread to different settlements of Ward No. 7 & 8 at Phungling Municipality. The major Finding was listed below. 106 Respondents are selected for Research. The all total respondents from study area 67% Male and 33% female are involve in tunnel farming. The highest 74.3% respondents says they have no other job they only involved in tunnel farming, and the lowest 1% respondents are Entrepreneur, 5.7% respondents family member are going foreign country, 8.6% respondents have private job, 5.7% respondents are also involve in government job, and 4.8% respondents are also involve in local shop. The Major Recommendation government has to make further policy research and developmental studies to cultivate the vegetable through the development of commercialized agriculture in study area. So, the farmers will have more opportunities and practices in vegetable farming. Local Governmental Institutions (Municipality/Rural Municipality) should also implement policies and programs for promoting sustainable vegetable farming towards market oriented organic production systems in coordination with concerned institutions. As a result of which, the local level developments become sustainable through constant farming.

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Abbreviations/ Acronyms

ADB/N	Agricultural Development Bank, Nepal
ADS	Agriculture Development Strategy
DIO	District Irrigation Office
DOAL	Department of Agriculture and Livestock
FAO	Food and Agriculture Organization
GDP	Gross Domestic Product
GNP	Gross National Product
HHs	Households
ICIMOD	International Centre for Integrated Mountain Development
MoA	Ministry of Agriculture, Nepal
MOAD	Ministry of Agriculture and Livestock Development
MoF	Ministry of Forestry, Nepal
NGO	No- Government Organization
NPC	National Planning Commission, Nepal
PMAMP	Primenister Agriculture Modernization Project
SD	Sustainable Development