

**CONTRIBUTION OF ORANGE FARMING ON RURAL  
DEVELOPMENT**

**An Anthropological Study in Thuladihi VDC of Syangja District**

**A Dissertation**

Submitted to the Tribhuvan University Department of Sociology/Anthropology  
Prithvi Narayan Campus in Partial Fulfillment of the Requirement for the  
Master Degree in **Anthropology**

By

Than Bahadur Rana

Tribhuvan University  
Faculty of Humanities and Social Sciences  
Department of Humanities and Sociology/ Anthropology  
Prithvi Narayan Campus  
Pokhara, Nepal

April, 2010

## LETTER OF RECOMMENDATION

This is to certify that **Mr. Than Bahadur Rana** has completed this dissertation entitled "**Contribution of Orange Farming on Rural Development: An Anthropological Study in Tuladihi VDC of Syangja District**" under my supervision and guidance. Therefore I recommend this dissertation for final approval and acceptance.

Date:

---

**Shiva Bahadur Thapa**

**Lecturer**

Department of Sociology/ Anthropology

Prithvi Narayan Campus

Pokhara, Nepal

## **RECOMMENDATION BY LANGUAGE EDITOR**

This is to certify that I have gone through the draft of dissertation entitled "**Contribution of Orange Farming on Rural Development: *An Anthropological Study in Tuladihi VDC of Syangja District***", prepared by Mr. Than Bahadur Rana as a language editor and made necessary correction and improvements there in. I have been impressed by his intelligible presentation of facts through the medium of plain and correct English

---

**( Bishwo Raj Adhikari )**

Reader

Dept. of English

P.N. campus, Pokhara

## **LETTER OF APPROVAL**

We hereby certify that the dissertation entitled "**Contribution of Orange Farming on Rural Development: An Anthropological Study in Tuladihi VDC of Syangja District**", submitted by Mr. Than Bahadur Rana to the Department of Sociology/Anthropology, Prithvi Narayan Campus, Pokhara, in the partial fulfillment of the requirements for the Degree of Master's of Arts in Anthropology has been found satisfactory in scope and quality. Therefore, we accept this dissertation as a part of the mentioned degree.

### **Members of Dissertation Evaluation Committee**

---

**Shiva Bahadur Thapa**

Research Supervisor

---

( Dr. Krishna K.C. )

External Examiner

---

**Shanti Bhusal**

Head, Department of Sociology/ Anthropology

T.U., PNC, Pokhara

**Pokhara**

**April, 2010**

## ACKNOWLEDGEMENT

This dissertation "Contribution of orange farming on rural Development" has been prepared in accordance with the rules and regulations of the university as the compulsory paper (SA. 508) of the second part of master's degree in Anthropology. It is an agricultural fruit production study to investigate the contribution of orange farming.

For the first and foremost, I would like to express my sincere gratitude to teacher and dissertation supervisor Mr. Siba Bahadur Thapa, department member of sociology & anthropology PNC Pokhara, for his continuous guidance and encouragement in every step of this dissertation without his supervision and invaluable suggestions, I could not have completed this thesis. I am very much heartily thanks to Mrs. Shanti Bushal department head of sociology and anthropology and former head of the department, Dr Bishwo Kallyan Parajuli for their continuous encouragement. So on, thanks to all the member of Sociology/Anthropology department.

I am heartily thankful to Dr. Krishna K.C. head of Geography department of PNC Pokhara for the external guidance of my work and valuable suggestion. I am greatly thankful to Bishwo Raj Adhakari, Reader in English for editing the grammar and language of my dissertation and thus making it readable. Likewise, I would like to extend my special thank to Mr. Amrit Kumar Bhandari the faculty in PNC Pokhara for arranging my scatter data and making them reflect the reality with the help of SPSS computer programme and my sincere thank goes to Mr. Ram Parsad Regmi for his valuable support and suggestion.

Similarly I would like to extend my special thanks to Mr. Om Prakash Regmi Upendera Regmi, Vijaya Kumar Thapa for their valuable support in conducting the field work for my study. I would like to express my sincere thanks to all the people of world No. 1, 5, 6, 7, 8 and 9 area of Thuladihi VDC for their co- operation to my field work.

I also express my sincere thanks to secretary of Thuladihi VDC Mr. Shova Chandara Regmi, DADO Syangja and western library who's helped me with the available statistical and other information for my study work. Further I would like to express my gratitude to my mother Nebu Kumari Rana, life partner China Rana and my son Twoman Rana for providing me time, financial support and endless encouragement for my research work.

Similarly I express my heartfelt thanks to "Quick Computer Service Bagar, Pokhara", Mr. Puspa Poudel and Miss Subina Baniya for making my dissertation presentable with their skillful typing and professional computer work. Finally, I am very thankful to every one who has helped in my dissertation in any way. I entirely bear all the errors happened during the research work.

**Than Bahadur Rana**

## **Abstract**

### **Contribution of Orange Farming on Rural Development: An Anthropological Study in Thuladihi VDC of Syangja District**

Nepal is an agricultural country. In Nepal 80 percent of the total population depends on agriculture for their livelihood (CBS, 2001). Agriculture is the backbone of Nepalese economy. Agriculture contributes of 40.19% its GDP on economy out of the land about 20 percent cultivated (MOA: 998/99)

Agriculture is the main occupation and basis of livelihood of rural people. Fruit production is an important branch of agricultural occupation which fulfills the need of households as well as it can be considered as a source of income. Different kinds of fruits are the source of carbohydrate vitamins and minerals.

Sweet orange is one of the most important and highly commercial fruit crops of world and Nepal also. it is widely cultivated in the hills area ranges from 600-1400 metre. in eastern to western Nepal (Shrestha and Paudel 2062) .

Mid hill area of country is the important area for commercial production of orange, It has to identify 37 mid hill district of Nepal, It has very suitable agro-climatic condition for the cultivation of orange. Out of the 37 district, Syangja is the important district for orange farming. Thuladihi VDC of Syangja district is also important scope for orange farming. In this area's farmers are enthusiastic cultivating orange production.

The broad objective of this study was contribution of orange farming on rural development about the Thuladihi VDC and it's periphery

The specific objectives of this study were as follows.

- ) To find out the major cause behind the attracted towards orange farming.
- ) To find out how can the orange farming help in rural education,, employment, income, living standard.
- ) To analyze the function and condition for orange farming.

### **Statement of the Problems**

Therefore this study has mainly focused to answer the following research questions.

- ) Why are there's farmers interested towards orange framings?

- ) Has the really helped in the rural development of orange farming?
- ) What are the functions of local farmers for orange farming?
- ) Has the Go'S, NGO's and INGO's helped in study area for orange farming?
- ) Has the orange farming to growth socio-economic status of farmers.

## **Literature Review**

### **Theoretical Concept**

#### **Links on world system theory**

- ) Links of core, semi-periphery, periphery
- ) Exchange - Cultural & commodity (unequal, exchange)
- ) Dependency relation
- ) Economic relation
- ) Unequal relation
- ) Profitable, nature

#### **Links with the human & cultural ecology**

- ) Interdependence between socio-cultural system organism & environment
- ) Relation culture & ecology.

#### **Agro-ecological system**

- ) Environment
- ) Climate
- ) Rainfall and temperature

#### **Orange as a commercial Horticultural production**

- ) Orange is one of the most important and highly commercial horticultural production.

#### **Orange as high-value crops**

App priorities

- ) Citrus (Orange): Through out the mid hills
- ) Apple: in the inner Himalayan zone
- ) Off season vegetables: In the hills and Terai
- ) Vegetable and flower seed: in the hills and mountain.
- ) Bee keeping: in the hills and mountain
- ) Raw silk: in the hills



### **Contribution on Related subject matter**

- ) The study of Paneru (1998) discuss the 'Production and marketing of orange' in Ashrang VDC of Gorkha District.
- ) The study of Paudel (2050) of the village profile of Bharat Pokhari VDC in Kaski district describe about the orange farming in this VDC.
- ) The study of Adhikari (1992) explained about the marketing system of citrus fruit in Bhojpur district.
- ) The study of Shrestha (1995) discussed the production situation of mandarin orange in Bunkot VDC of Gorkha district.

### **Research Methods**

#### **Selection of study Area**

The area of this study was Thuladihi VDC of Syangja

#### **Research Design**

The exploratory research design has been used to explore reason of attraction towards orange farming and contribution of orange farming in rural education, employment, income etc. The descriptive has been used to describe the conditions of orange farming and function of farmers for orange farming.

#### **Universe and sampling**

More than 400 household are engaged in orange farming. But universe of the 310 household who was to do orange farming. Who are more than 50 productive and unproductive plant of orange? Where as 20% household have been selected sample as informants using simple random sampling procedure. All together 62 households have been selected from 6 wards which 5, 3, 5, 7, 5 and 37 ward no. 1, 5, 6, 7, 8 and 9 respectively.

#### **Nature and source of data:**

The primary data collection is the orange farmers of Thuladihi. The primary data have been collected by applying research tool household survey, observation, interview schedule. A few secondary data have been collected from various published and unpublished sources. The collected data are both qualitative and quantitative.

### **Description of tools**

Household Survey: It helped to know the total number of orange farming households and to make also in rapport building. To help ward wise to select the sample.

### **Observation**

This technique is used both none or participatory observation. The observation is focused to condition of house, condition of orange farming.

### **Interview schedule**

On the basis of the research objectives of this study the interview schedule was prepared with both open and closed ended question list pre-test and test.

### **Data analysis and presentation**

Quantitative data have been analyzed by using computer software program SPSS for windows. Simple statistical tools like frequency and percentage have been used to present. Tabulations, chart diagrams have been used. The qualitative data have been analyzed descriptively.

Thuladihi is one of the VDC of Syangja district. It is 500 meters to 1600 meters high from the sea level. It is located 4 km north east parts of district headquarter (Putalibazzar).

There is mixed community in this area. From the religions point of view this V.D.C is much of the people Hinduism, some of people Buddhism, little of people Christianity. All of the people speak Nepali Language as well as some of people speak Gurung and Magar language. For education in Thuladihi VDC was started in 2016 B.S. from the Rastiya Lakuribot Pra. Vi. Literacy rate of Thuladihi VDC is 82.04 percent (VDC H.S. 2060).

### **Major finding**

- ) The economy of the study area is mainly based on agriculture with the combination of orange farming, live stocks, food farming pension/service shop and others.
- ) The farmers of the study area are attracted towards the orange farming from various reason, There are, increase income, in low investment take high income,

don't over work than other crops, lack of manpower. Support environment, natural beauty and greenery control landslide.

- ) The orange farming is contributed various sector of rural development i.e rural education, employment, income living standard etc.
- ) The function of farmers for orange farming are digging hollow, weeding and cutting, use of irrigation use of medicine, use of manure and fertilizer, plantation.
- ) Between the farmers and orange farming are much positive significant relation. This relation is give and take relation.
- ) Training, encouragement, awareness and special programme about orange farming are more necessary for farmers in study area.
- ) Information and commercial tricks are necessary for the orange farmers.
- ) Cold store, agriculture tools and instrument, transportation and technician are not available it are more essential for orange farming.

### **Recommendations**

- ) The study area is ecologically very suitable for orange farming. The farmers are recommended to extend orange farming.
- ) The farmers should get easily cheap loan facility for orange farming.
- ) DADO Syangja have to serious to identify and to control the disease to provide technical suggestion and training to the orange farmers.
- ) Recommended to GO's, NGO's, INGO's have been lunched the encouragement and awareness programme about the orange farming in study area.
- ) Irrigation facility, plant, tools and instrument should be provided in reasonable price.
- ) Government must manage frequent services of the agricultural technicians in the field area.

# CONTENTS

|  |              |
|--|--------------|
| Acknowledgement                                    |              |
| Abstract   |              |
| List of Abbreviations                              |              |
| List of Tables                                     |              |
| List of Figures                                    |              |
|  | <b>Page</b>  |
| <b>CHAPTER - I INTRODUCTION</b>                    | <b>1-14</b>  |
| 1.1 Background                                     | 1            |
| 1.2 Statement of the Problems                      | 8            |
| 1.3 Objectives of the Study                        | 9            |
| 1.4 Basic Assumption                               | 10           |
| 1.5 Conceptual Framework                           | 10           |
| 1.6 Significance of the Study                      | 12           |
| 1.7 Organization of the Study                      | 12           |
| 1.8 Delimitation of the Study                      | 13           |
| 1.9 Definition of Terms                            | 13           |
| <b>CHAPTER II LITERATURE REVIEW</b>                | <b>15-23</b> |
| 2.1 Theoretical Concept                            | 15           |
| 2.1.1 Theoretical Overview on World System Theory. | 15           |
| 2.1.2 Theoretical Overview on Human Ecology.       | 16           |
| 2.1.3 Cultural Ecology                             | 16           |
| 2.1.4 Agro- Ecological System                      | 17           |
| 2.1.5 Orange as a Commercial Horticultural         | 18           |
| 2.1.6 Orange as a high-Value Crop                  | 18           |
| 2.2.1 Rural Development                            | 19           |
| 2.3.1 Contribution on Related Subject Matter       | 20           |
| <b>CHAPTER III RESEARCH METHODS</b>                | <b>24-26</b> |
| 3.1 Selection of Study Area                        | 24           |
| 3.2 Research Design                                | 24           |

|     |   |    |
|-----|---|----|
| 3.3 | Universe and Sampling                                   | 24 |
| 3.4 | Nature and Source of Data                               | 25 |
| 3.5 | Description of Tools                                    | 25 |
|     | 3.5.1 Household Survey                                  | 25 |
|     | 3.5.2 Observation                                       | 25 |
|     | 3.5.3 Interview Schedule Per Test of Interview Schedule | 26 |
| 3.6 | Data Analysis and presentation                          | 26 |

**CHAPTER - IV INTRODUCTION OF THE STUDY SITE AND  
RESPONDENT 27-34**

|     |   |    |
|-----|---|----|
| 4.1 | Introduction of the Study Area            | 27 |
|     | 4.1.1 Physical Setting                    | 27 |
|     | 4.1.2 Cultural Setting                    | 29 |
|     | 4.1.2.1 Education Background              | 29 |
|     | 4.1.2.2 Situation of Agriculture sector   | 30 |
| 4.2 | General Information of the Respondents    | 30 |
|     | 4.2.1 Age Composition of Respondents      | 30 |
|     | 4.2.2 Sex composition of Respondents      | 31 |
|     | 4.2.3 Religion Composition of Respondents | 31 |
|     | 4.2.4 Ethnic Composition of Respondents   | 32 |
|     | 4.2.5 Education Composition of Respondent | 33 |
|     | 4.2.6 Infrastructures                     | 34 |

**CHAPTER - V REASON OF ATTRACTION TOWARDS  
ORANGE FARMING 35-40**

|     |                                     |    |
|-----|-------------------------------------|----|
| 5.1 | Introduction of Orange Farming      | 35 |
| 5.2 | Land Area Involve Under Orange Farm | 36 |
| 5.3 | Plantation of Orange                | 36 |
| 5.4 | Main Reason Behind Attraction       | 37 |
| 5.5 | Some Other Reason                   | 48 |

|  |              |
|--|--------------|
| <b>CHAPTER-VI CONTRIBUTION IN RURAL EDUCATION</b>    |              |
| <b>    EMPLOYMENT INCOME, LIVING STANDER OF</b>      |              |
| <b>    ORANGE FARMING</b>                            | <b>41-46</b> |
| 6.1 Contribution in Income Source                    | 41           |
| 6.2 Role of Orange Farming of Respondent Economy     | 42           |
| 6.3 Contribution on Rural Employment                 | 42           |
| 6.4 Types of House                                   | 43           |
| 6.5 Assets of Households                             | 44           |
| 6.6 Institution's for Educating Children             | 45           |
| 6.7 Annual Income From Orange Production             | 46           |
| <br>   |              |
| <b>CHAPTER-VII FUNCTION OF ORANGE FARMERS FOR</b>    |              |
| <b>    ORANGE PRODUCTION</b>                         | <b>47-53</b> |
| 7.1 Function for Orange Farming                      | 47           |
| 7.2 Source of Plant                                  | 48           |
| 7.3 Types of Orange Plant                            | 49           |
| 7.4 Others Function of Farmers for Orange Farming    | 50           |
| 7.5 Methods of Selling                               | 51           |
| 7.6 Basis of Price Estimation                        | 51           |
| 7.7 Appropriate Place for Sealing                    | 52           |
| 7.8 Subsidies from GOS & NGOS, Need of Cold Store    | 53           |
| <br>   |              |
| <b>CHAPTER-VIII SUMMARY FINDINGS CONCLUSIONS AND</b> |              |
| <b>    RECOMMENDATION</b>                            | <b>54-58</b> |
| 8.1 Summary  | 54           |
| 8.2 Major Findings                                   | 56           |
| 8.3 Conclusions                                      | 57           |
| 8.4 Recommendation                                   | 58           |

### **Bibliography**

### **Appendices**

## **LIST OF TABLES**

| Table   | Page |
|---|------|
| 1.1 Economics plantation area Productive Area Production and Increasing Rate of Productivity Citrus | 5    |
| 1.2 Launched LAP  | 6    |
| 1.3 Plantation Area and Increasing Rate of Productivity   | 7    |
| 4.1 Education Status in the Study Area  | 29   |
| 4.2 Status of Agricultural Product in Thuladihi VDC   | 30   |
| 4.3 Age Group Composition of Respondent   | 30   |
| 4.4 Religion Composition of Respondents   | 31   |
| 4.5 Ethnic Composition of Respondent  | 32   |
| 4.6 Education Status of Respondent  | 33   |
| 5.1 Year Started Orange Farming   | 35   |
| 5.2 Land Area of Orange Farm  | 36   |
| 5.3 Total Orange Plant  | 37   |
| 6.1 Status of Respondent's Income Source  | 41   |
| 6.2 Types of House  | 44   |
| 6.3 Institution for Educating Children  | 45   |
| 6.4 Annual Income from Orange Production  | 46   |
| 7.1 Types of Orange Plant   | 49   |
| 7.2 Basis of Price Estimation   | 52   |

## LIST OF FIGURES

| Figure  | Page |
|---|------|
| 1.1 Concept of Farmer's Function, Orange Production, Contribution for RD. | 10   |
| 1.2 Level of Exchange System  | 11   |
| 1.3 Level of Market   | 11   |
| 4.1 Maps of Thuladihi VDC & Syangja District                              | 28   |
| 4.2 Sex Composition of Respondents  | 31   |
| 4.3 Religion composition of Respondents                                   | 32   |
| 4.4 Ethic Composition of Respondents                                      | 33   |
| 4.5 Education Status of Respondent  | 34   |
| 5.1 Reason of Attraction for Orange Farming                               | 38   |
| 5.2 Reason Support Environment Natural Beauty Control Landside and Hobby  | 39   |
| 6.1 Role of Orange Farming of Respondent Economy                          | 42   |
| 6.2 Status of Different Types of Employment                               | 43   |
| 6.3 Status of House of Household Assets                                   | 44   |
| 7.1 Status of Digging Hollow, Use of Manure and Weeding and Cutting       | 47   |
| 7.2 Status Source of Plant  | 49   |
| 7.3 Status of Use of Irrigation use of Medicine, got Training             | 50   |
| 7.4 Methods of Selling  | 51   |
| 7.5 Status of Subsidies from GOS&NGOS and need of cold store              | 53   |



## **LIST OF ABBREVIATIONS**

|           |   |   |
|-----------|---|---|
| APP       | : | Agriculture Perspective Plane                                       |
| APROSCS   | : | Agriculture Project Services Centre                                 |
| BS        | : | Bikram Sambat   |
| CBS       | : | Central Bureau of Statistics  |
| DADO      | : | District Agriculture Development Office                             |
| FAO       | : | Food and Agriculture Organization                                   |
| GDP       | : | Gross Domestic Product  |
| HMG/DFAMS | : | His Majesty of Government Department of Food and Marketing Service. |
| INGO      | : | International Non- Government Organization                          |
| MOA       | : | Ministry of Agriculture   |
| NGO       | : | Non- Government Organization  |
| OF        | : | Orange Farming  |
| PCL       | : | Proficiency Certificate Level                                       |
| RD        | : | Rural Development   |
| SPSS      | : | Statistical Procedure for Social Scientist                          |
| SOAN      | : | Sociology & Anthropology  |
| SLC       | : | School Leaving Certificate  |
| VDC       | : | Village Development Committee                                       |
| WWW       | : | World Wide Wave   |
| LAP       | : | Long run Agricultural Programme                                     |