****

**TRIBHUVAN UNIVERSITY**

**INSTITUTE OF ENGINEERING**

**PULCHOWK CAMPUS**

**THESIS NO: M-\_\_-MSR or MSE or MST–20\_\_/ 20\_\_ (for code contact Mech Admin)**

**Title of Thesis (double spaced)**

**by**

**Name of Student**

**A THESIS**

**SUBMITTED TO THE DEPARTMENT OF MECHANICAL ENGINEERING**

**IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE**

**DEGREE OF MASTER OF SCIENCE IN ………………………**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**LALITPUR, NEPAL**

**MONTH, YEAR**

**COPYRIGHT**

The author has agreed that the library, Department of Mechanical Engineering, Pulchowk Campus, Institute of Engineering may make this thesis freely available for inspection. Moreover, the author has agreed that permission for extensive copying of this thesis for scholarly purpose may be granted by the professor(s) who supervised the work recorded herein or, in their absence, by the Head of the Department wherein the thesis was done. It is understood that the recognition will be given to the author of this thesis and to the Department of Mechanical Engineering, Pulchowk Campus, Institute of Engineering in any use of the material of the thesis. Copying or publication or the other use of this project report for financial gain without approval of the Department of Mechanical Engineering, Pulchowk Campus, Institute of Engineering and author’s written permission is prohibited.

Request for permission to copy or to make any other use of this thesis in whole or in part should be addressed to:

Head

Department of Mechanical Engineering

Pulchowk Campus, Institute of Engineering

Lalitpur, Nepal

**TRIBHUWAN UNIVERSITY**

**INSTITUTE OF ENGINEERING**

**PULCHOWK CAMPUS**

**DEPARTMENT OF MECHANICAL ENGINEERING**

The undersigned certify that they have read, and recommended to the Institute of Engineering for acceptance, a thesis entitled "Title of the M.Sc. Final Year Thesis" submitted by Student ‘s Name in partial fulfillment of the requirements for the degree of Master of Science in……….

Supervisor, Name of the Supervisor

Title

Name of the Department

External Examiner, Name of the External Examiner

Title

Name of the Organization

Committee Chairperson, Name of the Chairperson

Title

Name of the Organization

Date of Final Defense

**ABSTRACT**

……………………………………………………………………………………………… …………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………….

**ACKNOWLEDGEMENT**

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..

**TABLE OF CONTENTS**

Copyright………………………………………………………………………………….II

Approval page…….……………………………………………………………………...III

Abstract…...……………………………………………………………………………...IV

Acknowledgement....……………………………………………………………………..V

Table of Contents………………………………………………………………………...VI

List of Tables……………………………………………………………………………VII

List of Figures…….…………………………………………………………………....VIII

List of Symbols….………………………...…………………………………………......IX

List of Acronyms and Abbreviations……….………….....…………………………........X

**CHAPTER ONE: INTRODUCTION…………………………………………………..1**

* 1. Sub-heading……………………………………………………………………….2
     1. Sub Sub-heading…………………………………………………………………..3
     2. Sub Sub-heading…………………………………………………………………..4
  2. Sub-heading……………………………………………………………….……....5

**CHAPTER TWO: LITERATURE REVIEW……………………………...…………..8**

* 1. Sub-heading……………………………………………………………………….9
     1. Sub Sub-heading…………………………………………………………………10

**CHAPTER THREE: RESEARCH METHODOLOGY……………………………..15**

* 1. Sub-heading……………………………………………………………………...16
     1. Sub Sub-heading…………………………………………………………………17

**CHAPTER FOUR: RESULTS AND DISCUSSION..………………………………..18**

* 1. Sub-heading……………………………………………………………………...19
     1. Sub Sub-heading…………………………………………………………………20

**CHAPTER FIVE: CONCLUSIONS AND RECOMMENDATIONS………………21**

* 1. Sub-heading……………………………………………………………………...22
     1. Sub Sub-heading…………………………………………………………………23

REFERENCES…………………………………………………………………………..24

APPENDIX A: Title of Appendix……………………………………………………….25

**LIST OF TABLES**

Table 1: Name of the table………………………………………………………………2

Table 2: Name of the table………………………………………………………………5

Table 3: Name of the table………………………………………………………………9

**LIST OF FIGURES**

Figure 1: Name of the figure………………………………………………………………4

Figure 2: Name of the figure………………………………………………………………6

Figure 3: Name of the figure……………………………………………...……………...12

**LIST OF SYMBOLS**

Efficiency of the Motor

Refractive index of the Glass

**LIST OF ACRONYMS AND ABBREVIATIONS**

FAO Food and Agricultural Organization

GDP Gross Domestic Product

HDI Human Development Index

NARC Nepal Agriculture Research Council

**CHAPTER ONE: INTRODUCTION**

* 1. **Background**

Agriculture is the backbone of national economy, means of livelihood for majority of population, main source of GDP, income and employment opportunities in Nepal………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

**CHAPTER TWO: LITERATURE REVIEW**

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..

**CHAPTER THREE: RESEARCH METHODOLOGY**

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

**CHAPTER FOUR: RESULTS AND DISCUSSION**

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

**CHAPTER FIVE: CONCLUSION**

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………….

**REFERENCES**

1. Acharya, A., Sigdel, A. K. & Thapa, D., 2003. *Development of modified mechanism of rice transplantation machine to suit terai region of Nepal,* Pulchwok, Lalitpur: Department of Mechanical Engineering.
2. AEC-FNCCI, 2070. *Agriculture Mechanization policy-2070 final Draft,* Kathmandu: Agro Enterprise Center- Federation of Nepalese Chambers of Commerce and Industry.
3. AMI, 1967-84. *Research Reports,* s.l.: Agricultural Mechanization Institute.
4. Datta, S. K. D., 1981. *Principles and Practices of Rice Production.* Philippines: A Wiley-Interscience publication, JOHN WILEY & SONS.
5. DOAEngineering, 2012. *Directorate of Agricultural Engineering.* [Online]   
   Available at: http://doaengg.gov.np/index.php?page=bikas-prayas  
   [Accessed 6 August 2015].
6. FAO, 2012. *FAO Statistical Year Book 2012, Part three Feeding the world,* Rome, Italy: Food and Agriculture Organization.
7. Gami, V. & Justice, S., 1998. Preliminary Report: Women Farmer Participatory Testing and Evaluation of the IRRI 6-Row Rice Transplanter in Rupendehi District. In: P. R. Hobbs & N. P. Rajbhandari, eds. *Proceedings of Rice-Wheat Research End-of-Project Workshop, 1-3 October 1997, Hotel Shangri-La, Kathmandu, Nepal.* Mexico: Nepal Agricultural Research Council (NARC), International Maize and Wheat Improvement Center (CIMMYT) and Rice-Wheat System Research Consortium, pp. 91-94.