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CERTIFICATE

This is to certify that the dissertation report entitled “**Design and Development of Seed and Crop Transplanter**” Submitted by **Miss. Dhawan Prashanti S. (Exam No- B80350810), Miss. Moje Tejashree S. (Exam No- B80350845), Miss. Karande Nilam L(Exam No- B80350832) and Mr. Gaikwad Mahesh G(Exam No- B80350813)** to Savitribai Phule Pune University for the partial fulfillment of award of Degree of Bachelor in Engineering with specialization in Mechanical is a record of bonafide work carried out by them under our supervision and guidance. Further it is certified that the work done by them is original and carried out under our guidance.

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Place: Baramati

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External Examiner

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Principal
VPCOE, Baramati

Seal

ACKNOWLEDGMENT

“We are not a Team because We work together. we are a Team because we Respect, Trust and Care for each other.”

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ABSTRACT

In the farming process, often used conventional seeding operation takes more time and more labor. The seed feed rate is more but the time required for the total operation is more and the total cost is increased due to labor, hiring of equipment. The conventional seed sowing machine is less efficient, time consuming. Today's era is marching towards the rapid growth of all sectors including the agricultural sector. To meet the future food demands, the farmers have to implement the new techniques which will not affect the soil texture but will increase the overall crop production. Agriculture in India has a significant history.

Today, India ranks second worldwide in farm output. Still, agriculture is demographically the broadest economic sector and plays a significant role in the overall socio-economic fabric of India. This project deals with the various sowing methods used in India for seed sowing and fertilizer placement. The comparison between the traditional sowing method and the new developed machine which can perform a number of simultaneous operations and has number of advantages. As day by day the labor availability becomes the great concern for the farmers and labor cost is more, this machine reduces the efforts significantly and total cost of sowing the seeds and fertilizer placement.

keywords : seed sowing method

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1.1 Table name 2
1.2 Table name 2

LIST OF ABBREVIATIONS

1 INTRODUCTION

1.1 INTRODUCTION

Section should be in CAPITAL

Subsection should be in CAPITAL

subsubsection should be in Title case

- Professional-quality typesetting program
- Standard in scientific communication
- Uses text-based commands to format

This is very important.

- Flexible: can format letters, papers, even books
- Easy to effect changes to whole document

Starting your LaTeX document Typesetting: Spacing

- Any number of whitespace characters is treated as one “space”.
- Any number of blank lines is treated as a paragraph break.
- It does not matter whether you enter one or several spaces after a word. An empty line starts a new paragraph.

Most mathematicians today use some variant of TeX to write papers and books containing mathematics. TeX was created around 1980 by **Donald E. Knuth**, a computer scientist at Stanford University. has dramatically changed the process of preparing and distributing mathematical documents. During the ensuing two decades, since its introduction, various versions of extension packages sprang up; some evaporated in the face of newer software.

- stringing characters together in words and paragraphs,
- positioning symbols properly in mathematical formulas,
- automatically finding good page breaks, and
- dealing with footnotes and other floating objects, such as figures and tables.

1.2 SUBSECTION IN CAPITAL

How to add image has dramatically changed the process of preparing and distributing mathematical documents. During the ensuing two decades, since its introduction, various versions of TeX-related extension packages sprang up; some evaporated in the face of newer software.

1.2.1 Project Introduction

The recommended row to row spacing, seedrate, seed to seed spacing and depth of seed placement vary from crop to crop and for different agricultural and climatic conditions

to achieve optimum yields and an efficient sowing machine should attempt to fulfill these requirements. In addition, saving in cost of operation time, labor and energy are other advantages to be derived from use of improved machinery for such operations. A traditional method of seed sowing has many disadvantages. This paper is about the different types of methods of seed sowing and fertilizer placement in the soil and developing a multi functional seed sowing machine which can perform simultaneous operations.



Fig. 1.1 Final Transplanter

As you can see in the Fig. 1.1, Final Seed and Crop Transplanter in shown 2

Table 1.1 Table name

1	2 1	2 1	21	21	2
3	4 1	2 1	21	21	2
1	2 1	2 1	21	21	2
3	4 1	2 1	21	21	2
1	2 1	2 1	21	21	2
3	4 1	2 1	21	21	2

Table 1.2 Table name

1	2 1	2 1	21	21	2
3	4 1	2 1	21	21	2
1	2 1	2 1	21	21	2
3	4 1	2 1	21	21	2
1	2 1	2 1	21	21	2
3	4 1	2 1	21	21	2

2 LITERATURE REVIEW

REFERENCES

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