**Seed Sowing Robot**

**Abstract:**

Agriculture is the backbone of Indian economy. About half of the total population of our

country has chosen agriculture as their chief occupation. The states like Maharashtra, Punjab,

and Kerala, Assam are highly involved in agriculture. It all started due to the impact of, “Green

Revolution” by means of which farmers came to know about the various techniques involved in

farming and the advantages in it. As centuries passed, certain modern techniques were invented

in agriculture due to the progress in science.

These modern techniques included the use of tractors for ploughing the field, production

of pesticides, invention of tube-wells etc. Since water is the main necessity in this scenario,

techniques were discovered which would help in watering the field easily, consume less water

and reduce human efforts. These discoveries improved the standard of living of farmers.

Agro-Technology is the process of applying the technology innovation occurring in daily

life and applying that to the agriculture sector which improves the efficiency of the crop

produced and also to develop a better Mechanical machine to help the agriculture field which

reduces the amount and time of work spent on one crop. Hence in this work of project we

decided to design a better mechanical machine which is available to the farmers at a cheaper rate

and also which can sow and seed the crop at the same time.

This project consists of the better design of the machine which can be used specifically

for sowing of soyabean, maize, pigeon pea, Bengal gram, groundnut etc. For various agricultural

implements and non-availability of sufficient farm labor, various models of seed sowing

implements becoming popular in dry land regions of India.

**APPLICATIONS:**

* PLOUGHING
* SEED SOWING
* WATERING

SOFTWARE AND HARDWARE REQUIREMENTS

\* Hardware Requirements

1. Funnel

2.Relays (5V)

3.Jumper wires

4.Wheels

5.DC Motors

6.Chisel

7.Valve

8.Breadboard

9.Line follower

\*Software Requirements

1.Raspberry pi

2.MIT app inventor

ADVANTAGES:

1. Fully Automatic Seed Sowing

2.Efficient and Fast Farming

3. Portable Robot

Circuit Diagram

WATER

SEEDING

DRILLING

MOTOR(WHEEL)

MOTOR DRIVER

SPRINKLER

RELAY DRIVER

SEED MOTOR

NODE MCU

RASBERRY PI