Agri bot

A TECHNOLOGY FOR FARMERS

OBJECTIVE

Introduction:

- **This is an idea to make the work of a farmer very easy.**
- **Thi is useful for the farmers to know and educate about the technology.**
- **This is a eco friendly machine which runs with a solar energy.**
- **This technology is useful to make everything to make easy and also easily controlled and coordinated**
- **Thi is to make everything in the agriculture field uing artificial intelligence easier the work of farmer**

Significance of the work

- **The main aim of this innovation Is that to make farming industry digital**
- **This machine is useful to farmers for every purpose starting from fertility to water requirement**
- **In this we will be having four nozzles for four four cylindrical structures in the machine**
- **The machine is run with the concept of sliding mechanism**
- **This machine can be moved from one to another easily**
- **This machine can be operated through cloud or bluetooth**

Schematic of total work

- **The total mechanism of machine is totally based on two mechanisms**

1. Hydraulic one nozzle machine
2. 3-Dimensional axis mechanism

Hydraulic one nozzle mechanism:

- **This is a machine required to design to make a multi unit one nozzle hydraulic based operation**
- **In this machine we are going to make use o four cylinders for the storage of different categories of substances**
- **In this machine we use four lots and one vaccum**
- **The four lots are for fertilizers, pesticides, seeding, watering**
- **The vaccum is required for the purpose of extra water removal during floods and storing it in a well or tank.**

3-Dimensional axis mechanism:

- **In this mechanism we will be having three axis for the propagation of the machine.**
- **The machine which consists of Y axis and Z axis will be moving to and fro on the x axis**
- **The y axis will be having cylindrical structures which will be moving on the y axis**
- **The cylinder will move up and down on the z axis using the hydraulics.**

Functions of each and every part

- **In this machine we have two main machine that is required to build**
- **As discussed we are having a cylindrical shape with five nozzles and 2 sensors**
- And we are going to design a hydraulic machine with four slots and a vacuum in built in it
- This is the most important task of designing frame with clip lock process
- And the piston holder is made with a path for it to move horizontally and vertically

Background

- **The 3- dimensional axis system is derived from the machine of farm bot which was done by an American team farmbot.inc**
- **The sensors used in the testing of doing and water level , nitrogen percentage etc are already being designed**
- **The basic Cad model of this agribot is being derived from the Cad model of farm bot this is for the purpose of gardening**

Finance required for AGRIBOT

➢ Hydraulic machine:

➢ Parts

- 4SLOTS FOR HYDRAULIC MACHINE- 10,000/-
- Vacuum pump-15,000/-
- Hydraulic -5,000/-
- Manometer,fertilitymeter,soilsensor-10,000/-
- Aluminium tussle frame-50,000/-
- Cylindrical piston- 20,000/-
- Vertical slots-5,000/-
- Belt-5,000/-
- Miscellaneous-30,000/-

Total finance :1,50,000/-