Fabrication of Waste Food Shredder Machine for Generation of Organic Fertilizers

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ABSTRACT: The project was to fabrication and include of shredder machine. In this project cutting waste food material eg. waste vegetables, waste fruit, grass, etc. the cutting of food waste is used to prepare the compost fertilizers. In this source of this project self ideas and internet and suggestion of teachers. Our project makes different types of work involved this project using the safe and pollution-free. In our project different types of parts such as follows bearing, flamework blade, and shaft cycle pedal using power through the shredder machine and using the appropriate work from the farmer and essential work, waste food material cut shredder machine by using a cutting blade to making a small amount of waste food material cut and using for a domestic well as organic fertilizer. The aim of this project is utilized the waste food material using fertilizer without any electrical power and utilizes men work in shredder machine and its pollution-free in this project and the best quality of fertilizer making in the project.

Keywords: Shredder blades, fertilizer, vegetable.

I. INTRODUCTION:

Waste food shredder machine is using for domestical waste, vegetable waste are are cut in shredder machine of using a man effort by using bicycle pedal man power using working a shredder machine small amount cut the food material in the shredder machine. The main purpose of shredder machine making a better quality of fertilizer using a farmer without any electrical bill its consist of many types of material cutting in the shredder machine such as green vegetable.

And also new idea using shredder machine such as the solar system added in the project to operate the solar system when the man was tired feel then using solar system in shredder machine.

Agriculture essential for farmer to making such as vegetable, fruit, soyabean etc number of making product. The farmer working continuously in the agriculture field and lot of hard working and many types of disease in the plant and demotivate the farmer and its physically and mentally not very well and lot of billing using the agriculture such as water bill, pump and many types of equipment work on electricity, its condition of farmer are not vary, and the prevention of plant diseases using fertilizer but the fertilizer cost costly.

We are using own idea to decrease the less amount of farmer effort by using this project. Minimum less effort of shredder machine an also health fit because of man using the leg exercise.

The shredder machine using best of farmer because of cut the vegetable waste for the using fertilizer to make using the diseases of plant to less cost to be obtained the farmer.

The solar system are widely using the farmer because of solar energy are freely source of energy to never amount electrical bill create.

The output of shredder machine to the best quality of fertilizer (domestical) fertilizer and increase the income of farmer and increase the soil nutrient an benefit the growing the nutrient food.
II. LITERATURE REVIEW

1. Omkumar C et al. the shredder machine of food was cutting the blade to receive a small amount of waste material to eliminate the water particle from the waste.

2. Matin A. Shaikh et al. in the machine of recycle machine detail of various part of recycle part to be manufacture and many essential purpose.

3. Pavankumar S.B. et al the poor farmer get not afford the composite fertilizer the old traditional manufacture source are not be easy as very complicated and is not affordable composite fertilizer to any other farmer.

4. S Nithyananth et al., they are developed the shredder machine and design to of waste shredder machine, shredder machine operation perform as well as tractor. tractor transmit the power and perform the shredder machine without any human effort.

5. Abhishek K et al. this project of aim to to perform a many task such as shredder machine cut the coconut leave and give as powder of coconut leave and essential for human.

6. I.M.Sanjay Kumar et al, the project was decide to own idea and collect information at the source of study material. its cut variou green waste food cut by the dhradder machine an appropriate another work such as making composite fertilizer.

7. P.B. Khope et al, Proposed the Design of experimental set-up for establishing empirical relationship for chaff cutter energized by human powered flywheel motor. This machine used to chop the forage into small pieces for easy consumption by the animals. In the human powered flywheel motor concept, the bicycle mechanism for converting and transmitting human energy through paddling torotational kinetic energy of flywheel is hereby proposed. The energy stored in the flywheel can be used for actual cutting process.

8. Mohamad Khatib Iqbal, proposed its develop a coconut leave cutter machine as well as shredder machine, in the cutting blade very sharp mounted by the shredder machine he said the point of you to cutting leave and domestical waste from using the another essential work such as fertilizer.

OBJECTIVES

1. Farmer essential for machine due to making best quality of fertilizer.
2. less space required due to operation.
3. to operation perform the easy and safe.
4. easily available part and satisfied the farmer.
5. to used green fertilizer to maintain soil nutrient and soil quality.

Advantage:
- Less skilled labor required
- Best quality of fertilizer manufacture
- Maintainance cost less
- Failure part easily available in market
- Its easy and safely
- It portable in anywhere

Disadvantage:
- Man effort required
- Hard material cannot chopping

Application:
- Its using agriculture
- Using manufacting composite fertilizer
- Chooping the agriculture waste

Diagrams of Project:

Input waste
III. CONCLUSION:
The waste food shredder machine its fabricate to modification of shredder machine to useful for farmer to utilizes some amount of work less due to project

Waste food Shredder machine manufacture by the waste food material crushby cutting blade and output come such as small amount of material cut ani using waste making a fertilizer for necessity of former and also using a solar power to performing operation

- Shredder machine maintance is low
- Easy to manufacture
- Shredder machining movable as per requirement place
- Small area required to machine
- Shredder machine failure part easily available in market

REFERENCES: