



COMPOST MAKER FOR MUSHROOM CULTIVATION

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INNOVATOR

Jitendra Malik | Haryana

PROBLEM ADDRESSED

For mushroom cultivation a moist compost without lumps is required. Compost prepared using conventional methods forms lots of lump which are broken manually. Once compost is collected, the next step is to mix it well manually by deploying labor. Compost Maker for Mushroom Cultivation addresses this requirement without labor.



PRODUCT

The electricity operated machine operates in a straight lines cuts through compost heap, turn and mix it well, even mix moisture when required, and heaps it back in a line.

TECHNICAL DETAILS

- No. of Motors : 2
Motor 1: 10 hp for rotating the blades
Motor 2: 2 hp to power rear wheels
- A drum with tines/blades is fixed at its periphery & compost strikes to a net covering on top of the drum because of which clods in the compost are broken. On the side of the net there is a nozzle with a pipe, to spray water or chemical to kill fungus inside the compost.
- Conveyor belt is attached at the rear side of the drum for collecting turned compost.

SALIENT FEATURES

- Machine can properly turn and mix the compost ensuring that no lumps remain in it.
- Machine helps in reducing the disease of Yellow mold in Mushroom.
- Machine can add moisture and fungicide as well to control diseases.
- It can be operated on all the surfaces easily - hard (pakka like cemented floor) and soft (kachcha like farmer's field).
- Efficiency: Machine can heap mushroom compost of 200 ft. in length, 4 feet width and 4 feet height in 25 minutes. Using this machine, the time required for compost preparation is reduced considerably.
- Production of mushroom is about 5-10 % more than that through the conventional manual process.

AWARDS AND RECOGNITION

Innovator has won National award in NIF's Eighth National Biennial Grassroots Innovation Awards, 2015.

