



SUGARCANE BUD PLANTER

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INNOVATOR

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PROBLEM ADDRESSED

Sowing of sugarcane buds and potato in field is laborious, time consuming and scarcity of labor increases the problem multifold during sowing. Manual sowing of buds fails in maintaining uniform distances between the buds, equal depth and supplying of equal quantity of manure, which may cause unhealthy crop and less productivity. Sugarcane Bud Planter overcome these issues & accomplishes sowing one buds in a non labor intensive manner. Machine allows sowing one bud after another in a continuous pre-defined manner with inter-spaces between the buds.



PRODUCT

Sugarcane Bud Planter is a tractor mounted implement with a unique metering mechanism for planting sugarcane buds directly into the field. The field capacity of the machine is 0.5 acre/ hour. Using this planter the plantation cost is estimated to reduce to about Rs 800/acre from about Rs 6000/acre using labor. The machine becomes helpful for the farmers to overcome the scarcity of laborers in the peak season due to high work rate. The machine requires manpower only to fill the bud box whenever it gets empty.

TECHNICAL DETAILS

- It consists of two boxes on each side of machine for storing buds, a conveyor belt with grooves for carrying buds, two pulleys to drive the belt, a hollow pipe, furrow opener and a guide wheel/ground wheel. This assembly is driven by chain and sprocket mechanism.
- Each box can stack sugarcane buds of 30 kg.
- The conveyor belt driven by pulleys is fitted into the box such that it would pick one sugarcane bud at a time.
- These buds are then inserted into furrows prepared by furrow opener. Three furrows can be prepared at a time.
- Machine can sow 2 quintals of buds in 1 hr.

SALIENT FEATURES

- Maintains uniform distance between buds, equal depth of buds.
- Inter-cropping can be done using this machine and between the two buds; grams, wheat, peanuts and pulses can be planted.
- Machine has arrangement to drop uniform amount of manure near each bud while sowing.
- Machine can also be equipped with sprayer pump to spray weedicide & pesticides to prevent weeds & pest in the crop.
- Machine can also be used for planting potatoes.

AWARDS AND RECOGNITION

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

