

Smart Tillage Equipment With Mechanical Sensor

By : Mr. Ghanshyam B. Jadav , Nashik, Maharashtra

Innovation Description

Profile

Innovator Mr. Ghanshyam B. Jadav hails from Nashik district of Maharashtra.

Purpose

Mr. Ghanshyam regrets that people in India pay less attention to organic farming and they are not as prevalent as they were unable to afford the advanced type of technologies that are used for intercultural tillage operations. That's why he thought that farmers should have to adopt new technology in their farm according to their needs and in order to get the benefit to the general farmer in India which will be available all over in low cost and maintenance, he started work on making five in one i.e. multi-functional tillage equipment.

Technical details

This is a tractor-mounted PTO operated, off-set type multipurpose tillage implement machine, having different attachments like plough, disc harrow, weeder, grass cutter and furrow opener and which can be used for multi-functions like ploughing, harrowing, weeding, grass cutting and also furrow opening and closing respectively. It is suitable for tractors from 18 to 50 hp which can work in the orchard as well as field crops. It has a mechanical sensor to deflect the tillage equipment during obstacles with adjustment in deflection.



The machine can perform different tillage operations in all types of orchard farms in between and around two plants or trees or vines without damaging.

Performance

The working width of the machine is 2.5 m to 3.6 m adjusted in off-set and deflection by the sensor is up to 80. Also, the height of the machine and depth operation of the machine can be adjusted hydraulically as well as manually. It operated at a speed 4 to 6 km/h and an average field capacity of 2 acre/h.

Benefits

This multipurpose implement will promote chemical less, grapes production by tilling soil. It is very economical as compared to all other technologies and saves time.