



**State Award – Maharashtra**

### **Tillage Equipment with Mechanical Sensor**

Ghanshyam Jadhav  
Nashik, Maharashtra

Ghanshyam (34) left studies after completing 12th to support his family. He lives in a joint family and fabricates farm implements like plough, harrow, cultivators etc. in his fabrication workshop.

He had observed the organic farming practices of his neighbours and felt the need of having advanced technologies for intercultural tillage operation. This motivated him to work on developing a low cost and low maintenance multifunctional tillage equipment with mechanical sensor. He developed a Tractor PTO operated multipurpose equipment having

attachments like plough, disc harrow, weeder, grass cutter and furrow opener. While in operation, whenever the mechanical sensing rod strikes any plant/tree, the whole working unit moves away from it, through the spring attachment, and helps protect tree roots from getting cut. It also results in leaving very small area around the trees uncultivated.

The implement can be attached to any tractor of 22hp and above, and can cover an area of 1 acre in an hour. The cost of this tillage implement is Rs 1.25 lakh.

