

Tractor Operated Low Cost Sprayer

Shri Chaturbhai Bhagwanbhai Gediya
Village: Shilana, Taluka: Amreli, District: Amreli

Profile



Age : 46 years
Education : Ninth
Landholding : 3 ha.
Farming Experience : 30
Crops Grown : Cotton, Wheat,
Sesame, Gram
Livestock : Cows, Buffalo

Description of Innovation:

Low cost Tractor operated Sprayer developed for cotton and Groundnut crop, idea came from Boom sprayer already in market but of high cost. Then farmer have taken a lead for development of such type of spray unit which is low cost Tractor operated.

Practical utility of Innovation:

The length of boom is 24 ft. with 5 and 10 nozzles for cotton and groundnut crop respectively. Barrel capacity is 200 liters. The field capacity of sprayer is 2.5 ha/hr. Cost of machine is Rs 15,000. 0.8 liter of Diesel is required to spray about one ha area thus cost for one ha spraying is just Rs. 35. Labor cost Rs. 225 per day in conventional spray for 1 ha. area, while spraying with low cost boom sprayer labour cost is just about Rs. 25 for one ha. area. one person can earn about Rs. 700-800/day by offering the services of the new device for spraying. 1 persons sprays about 15 ha. in a day with this new device, while with ordinary knapsack sprayer 1 person only about 1 ha per day. The pump powered by PTO.

