

Motorcycle Driven Sprayer

Mr. Ganeshbhai Dodia

- Bullet, a powerful motorcycle, available with marginal farmers, has been used for this sprayer.
- Sprayer is powered by energy generated in the engine coupled with a belt drive.
- It is extremely flexible product with adjustable height and width of spraying boom.
- Can spray up to 40 acres in a day.



[Video](#)

Battery Operated Sprayer

Mr. Lalit Surana

- Sprayer is operated by deriving power from Kisan Torch
- One person can spray one acre of land in one hour
- Amount of chemical, size of droplets can be controlled
- Spraying area is six feet in diameter
- With the help of one battery it can operate for six hours



[Video](#)

“Jayant” Sprayer

Mr. Rameshbhai Bhalala

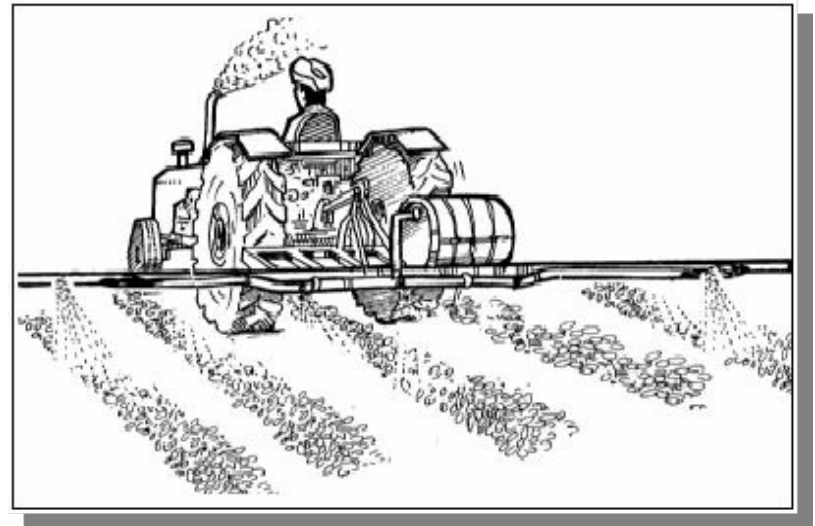
- Operated through 7.2 HP diesel engine and three-piston ASPEE sprayer pump.
- Engine & pump mounted at five feet height on the self designed iron chassis mounted on four pneumatic wheels.
- Highly efficient for cotton and other crops where the plant height is more.
- Also used for interculturing by attaching harrow behind it.
- Consumes four litres of diesel to cover 50 acres of land in a day.



Tractor Mounted Sprayer

Mr. Dahyabhai Patel

- Leyland Oil pump is mounted behind the tractor along with PTO shaft to generate pressure.
- High volume capacity and uniform spraying.
- Easy installation on tractor
- Cost is about Rs. 4000/-



Traction Based Technologies

A low cost multi-purpose tractor mounted sprayer—mulji bhai , Gujarat



- Power 5.5. HP
- Price of device \$ 2000
- Consumes one liter diesel per hectare
- Can carry upto 1000 kgs of load

Video Link:

http://www.nifindia.org/nif_video/mulubhai_tractor.mpg

Farm Machinery

Groundnut digger and Separator : An attachment for tractor



- Used after harvesting to recover remaining groundnuts from soil
- Price \$ 1000 per attachment
- Increases output per hectare at low cost
- Efficiency of operation goes up by 35%

Indian Patent Filed

Video Link:

http://www.nifindia.org/video/groundnut_%20picker.mpg

Food-Processing Machinery

Garlic Peeling Machine



- Extremely cost-effective : **\$1.3 per 1000 kgs of Garlic Peeling**

-**Price of machine \$ 4500** vis-à-vis \$ 25000 Taiwanese make & \$ 15000 German make for same capacity

- Capacity 200kgs per hour

Indian Patent Filed

Video Link:

<http://www.nifindia.org/garlicpeeling.mpg>