

## Mechanical Engineering

### MOBILE SPRAYING MACHINE

Designed and fabricated by :-

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#### ABOUT MACHINE:

- Agriculture Spraying machine is a unit that is used to apply liquid fertilizers, pesticides, or other liquids to crops during their growth cycle.
- Parts used in machine:
- Battery 12V & switch
- Motor and Drum
- 3 wheels (1 front wheel & 2 small back wheels)
- Sprayer pipe containing 3 nozzles.
- Valve with crimp
- Suction tube and delivering tube & etc

### **APPLICATIONS:**

- \* key application of an spraying machine in agriculture sector is to spray
- Liquid chemicals like fertilizers, & pesticides (herbicides & insecticides).
- \* It can also be used for spraying sanitizer in public places like railway
- stations and public parks etc.
- \* It is an indispensable agriculture tool used by farmers.
- \* It is used for applying water and chemical solutions containing acids
- for crop performance.

### **ADVANTAGES:**

- Our mobile spraying machine provides-
- 360\* support system and safe to use.
- Cost effective for farmers & minimizes labour.
- Easy to handle, Carry & maintenance.
- strengthened body with comfortable handle.
- The battery is rechargeable without opening the lid.
- It gives 6 hours of battery backup on a single full charge.
- It can spray the liquid up to a range of 2 meters

### **INNOVATIVE IDEA:**

- The main motive of our machine is for RURAL DEVELOPMENT
- It reduces the work load on farmers.
- Introducing agriculture machinery builds and improves
- the infrastructure of rural area
- It helps to increase the GDP growth
- It helps in demolishing unemployment
- Offering technical advice on agriculture to farmers and providing them necessary inputs helps to support their agriculture production.

### **CONCLUSION:**

- Machine supports long term usage
- It can generate income source for farmers.