

## PROBLEM ADDRESSED

Trees and horticulture plants are generally pruned for better growth by cutting the stem, branches, leaves, etc. The task is generally done manually by using knives etc, which is very risky, tiresome and time consuming process. The task of reaching out to branches above heights that cannot be scaled manually necessitates the use of ladder or like support elements. The automated electro mechanical pruning machine provides a resolution.



## **PRODUCT**

It is a tractor operated tree pruner which is useful for pruning the trees and can do top dressing as well. The machine is mounted to tractor and gets drive from hydraulic system. It could scale relatively greater heights, possess height adjustment capability, greater power, power adjustment capacity and adopt at pruning in a given line.

## TECHNICAL DETAILS

- The machine is mounted to tractor and gets drive from hydraulic system.
- Hydraulic motor 15 kw.
- Speed at motor 1000 rpm, at intermediate shaft 2000 rpm, at central shaft 3000 rpm and at the blade it is 4200 rpm.
- It can be attached to any tractor of size 40 hp and above.

## SALIENT FEATURES

- The machine can prune trees of height 20 ft (top-down) while keeping blades vertical and can top dress the plants of height 12-15 ft.
- The machine can cover a circle of 10 ft diameter while tractor is static. It can prune 2000 ft long rows of trees at a spacing of 18-20 ft on both the sides of a road.
- In orchards, it can cover about 200 plants in one hour, spaced at 18-20 ft distance.

