

Self-propelled Multi-purpose Platform for Fruits

Utility

The harvesting, pruning, spraying and other canopy management practices in fruit trees such as mango, citrus and sapota are difficult and labour intensive. A self-propelled hydraulic multi-purpose platform for medium height fruit trees helps to increase harvesting/pruning efficiency in orchards. This machine can be used as a platform to reach fruits on trees for easy picking. Lifting and lowering of the platform, forward and backward movement, and steering of the machine are controlled by an operator from the platform. The machine is easy to operate and requires low maintenance. It can be operated safely on flat field as well as on hilly terrain having lateral as well longitudinal slope up to 5°.



Specifications & Performance results		
Power source, kW petrol engine	:	8.7
Load carrying capacity, kg	:	200
Cost of the machine, Rs.	:	7,50,000
Maximum vertical reach, m	:	6
Maximum ground speed, km/h	:	3.00
Fuel consumptions, l/h	:	2.00
Output capacity, fruits/h	:	700 -1,100

Benefits over conventional/traditional practices

- Reduces labour requirement and cost of operations for pruning, spraying and harvesting of fruits, reduces drudgery and enhances operator comfort.
- Effective pruning and spraying operation because of better reach to the canopy.

Design: ICAR-CIAE, Bhopal

Commercialization Status: Commercialized

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