Self-propelled Onion Weeder

Utility

Manual weeding in closely spaced crops like onion and garlic is a very tedious, costly and time consuming operation. Self-propelled onion weeder is very useful for weeding in crops like onion and garlic. A petrol engine (1.5 hp) operated weeder consists of weeding mechanism, which works on a vertical rotary weeding principle.

Specifications & Performance results		
Power source , kW	:	1.12 kW engine
Weight of machine, kg	:	90
Number of rows	:	4
Row spacing adjustment, mm	:	150 and 200 mm
Actual field capacity (ha/h)	:	0.06
Forward speed, km/h	:	1.2
Field efficiency, %	:	85
Weeding efficiency, %	:	91-93
Cost of the machine, Rs.	:	80,000/-
Cost of operation, Rs/h	:	264

Benefits over conventional/traditional practices

- Time saving is 96% and cost saving is 62% as compared to manual weeding.
- Reduces drudgery by avoiding continuous bending and squatting posture to be maintained during manual weeding.

Design: ICAR-CIAE, Bhopal

Commercialization Status: Ready for commercialization

Contact:

- Director, ICAR-CIAE, Nabi Bagh, Berasia Road, Bhopal 462038, Tel: 0755-2521134; Email: directorciae@gmail.com