

ICAR CIAE-Tractor operated raised bed former cum onion bulb planter for multiplier onion

Utility

Tractor operated raised bed former cum onion bulb planter consists of main frame, raised bed former, seed metering mechanism, seed hopper, ground wheel, furrow opener and standard three-point hitch. The main frame supported the ridger with raised bed former, leveller, standard three-point hitch and onion planting unit. It makes two raised beds with three furrows. The metering mechanism operates with chain and cup feed

mechanism, driven by ground wheel. It comprises of forty-eight cups (8 rows with 6 cups per metering unit) to suit the size of onion sets. A funnel shaped box provided at the bottom of seed onion delivery tube (to prevent spillage) and delivery tubes of seed onion are fitted to rear side of shoe type (adjustable row spacing) furrow opener to ensure the onion seeds to be placed in furrows. This planter makes two bed (70 cm top width) and eight row planting (four rows in each bed) simultaneously. The field capacity and field efficiency are 0.30 ha/h and 75%, respectively. The cost of operation and saving in cost are Rs. 2270/ha and 71 %, respectively. Can be used for forming beds and planning onion bulbs in the raised beds.



Specification and working features		
Field capacity	:	0.30 ha/h
Field efficiency	:	75%
cost of operation	:	Rs. 2270 per ha
Cost saving	:	71 %

Design: ICAR-CIAE, Bhopal

Commercialization Status: Licensed to M/s. Shri Baba Industries, 5-192/A-, Sri balaji Avenue 3rd cross, Ponnandampalayam, Kaniyur post, Coimbatore - 641659

Proposed stakeholders: Onion growers, Custom hiring operators and manufacturers

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