

Tractor drawn Onion Transplanter

Innovator: Pandharinath Sarjerao More	Address At. & Po. Sangavi Bhusar, Tal. Kopargaon, Ahmadnagar, Maharashtra - 423602	Contact Details Mob: 9960868195 Email: pandharinathmore@rediffmail. com
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Problem addressed:

The task of transplanting onion seedlings manually is time consuming, labor intensive and toilsome process. Innovator Shri More, who is a farmer, has developed an affordable, semi-automatic transplanter for timely sowing of onion seedlings.

Product:

It is a tractor drawn semi - automatic Onion transplanter. It can perform three functions at a time viz. transplanting the onion, applying the fertilizer and making the irrigation channels. When the tractor moves forward, the star wheel type metering mechanism gets the drive to release the fertilizer in the tubes. The seedlings are delivered manually in the delivery chutes for planting. The inter-row and inter-plant spacing can be adjusted in the machine to a finer level. Two depth controlling wheels fitted on either ends of the equipment maintain the uniform depth of onion planting, which is kept at 1 cm. A channel forming ridger plough is mounted offset to the right end of the transplanter to form the irrigation channel simultaneously



Technical Specifications

- Power required: More than 25hp tractor
- Working width: 1.5 metres (includes 8 furrow openers)
- Plant Spacing: 18 x 9 cm & Depth of plantation: 1 cm
- Transplants 5, 55,950 seedlings per ha. (as against 420000 to 470000 in conventional planting)
- Manpower Requirement: 5 labours (1 driver + 4 labours)
- Capacity: 1 hectare per day (of 8 hours)
- Weight: 300-350 kg (with fertilizer drilling arrangement)
- Weight: 3.5 ton (with fertilizer drilling arrangement)

Key Competitive Advantage:

- Uniform Planting (maintain row to row and plant to plant spacing)
- It gives 100 % of plant emergence
- Facilitates the mechanical weeding and harvesting



	<ul style="list-style-type: none"> It can also be used for drilling the cereals and pulses
Time to deliver:	15 days
Price :	Rs. 60,000 without fertilizer box (ex-factory India price), Rs. 70,000 (ex-factory India price) with fertilize drill
How to Order	Please contact: Mr. Madhusudan More on Mob: 9960868195 Email: pandharinathmore@rediffmail.com
Achievements:	Innovator has been awarded in NIF's Fifth Biennial Award function for Grassroots Innovations and Traditional Knowledge in 2009. The entrepreneur has so far sold 80 units which also includes international order from Kuwait.
IPR Status:	Indian Patent Applied (No. 2353/MUM/2008). (The innovator has declared it as open source technology for the farmers and small-scale industries. He provides design drawings and necessary guidance to those who wishes to manufacture)
BD website link:	http://nif.org.in/innovation/onion_transplanter/1
For Business Enquiries, please contact:	Business Development, National Innovation Foundation – India Satellite Complex, Nr. Mansi Cross Roads, Satellite Ahmedabad -380 015, Gujarat, India Phone: +91-79-2673 2456, 26732095; Fax: +91-79-2673 1903 E mail: bd@nifindia.org , Web: www.nif.org.in