

Reaper Windrower with Reel

Innovator: Mr. Bhagwan Singh Dangi,	Address Sojanawale, Post: Madhoganj Dist : Vidisha, Madhya Pradesh	Contact Details (M): 09617729447
---	---	--

Problem addressed
Labor scarcity, loss in yield of crop during harvesting made the innovator search for machine but found significant wastage of grain and loss of stalk as left over. The innovator developed a machine for harvesting crops, which overcomes such problems. It is a front mounted attachment for tractor and windrowing unit which facilitates gathering of harvested crop at the center of machine ultimately reduces the shattering loss.

Product
It consists of self-made chassis, frame for mounting it to front of tractor, power transmission system for taking drive from crankshaft of tractor engine, hydraulic system for lifting/lowering the reaper unit, reeling unit, cutting unit and windrowing unit.



Technical Specifications	Shape	Hexagonal
	No. of crop collectors	13
	Length, mm	2250
	Stroke Length, mm	70
	Minimum Adjustment Height of Cutter Bar, mm	100
	Maximum Adjustment Height of Cutter Bar, mm	900
	Horse Power of Engine	35-50
	Width, mm	2290
	Height, mm	1000
	Weight (Kg)	300 kg
	Field Capacity	0.35 ha/hr
	Fuel consumption	4.03 l/h
	Harvesting losses	1.04 % (Soybean)

Key Competitive Advantage

- The provision of windrowing unit with reel, which gathers the crop in the center of the machine which ultimately reduces shattering losses which can increase the productivity and in turn generate income for the users
- Less labor required during windrowing operation (Total 3-4person)

Time to deliver: 15 days after placing confirmed order and full payment

Price: Rs. 1,00,000 (Ex-factory India +packaging). The price does not includes transportation cost, taxes etc.



Achievements:	Innovator has been awarded in the 7 th National Award Function of NIF (2013).
IPR Status:	Indian Patent Filed (677/MUM/2011)
BD website link:	http://nif.org.in/innovation/reaper_windrower/602
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