

Chandraprappa - Rain Gun

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Problem addressed:
 The existing flood irrigation system requires ample amount of water. Drip and sprinkler irrigation systems utilize water efficiently but it is very difficult to irrigate long and dense crops by them and in short duration.

Product:
 The existing sprinklers are moving discharge sprinklers; single nozzle assemblies, which have been employed with a deflector, used to breakup the single fluid stream. In these moving discharge sprinklers, the deflector and the nozzle assembly have each been separately driven by gear connections to the transmission



Technical Specifications	<ul style="list-style-type: none"> • One acre of farm can be irrigated in about 90 minutes • Low cost, efficient, flexible and requirement based nozzle. • Motor ratings 5-15 HP depending on models, 1440 rpm motor • Dimension: 30 x 30 x 48 inch • Socket wheel : 21.5 in. (height), 28 socket/round • Material of Construction: Cast iron
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Key Competitive Advantage:	<ul style="list-style-type: none"> • The rain gun sprays water at high pressure and thereby the pests are washed. • It can be locked into a specific position and thereby it ensures that the water sprayed is not wasted away and is sprayed among the intended recipient plants. • It can irrigate one acre in about one and half hours. • Locking mechanism that prevents water from being sprayed into neighbouring areas..
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Time to deliver:	One month after confirmed order with full advance payment
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Price	The cost of rain guns varies according to the coverage area. (ex-factory India price + packaging). The price does not include transportation costs, taxes, etc.
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	Parameters/Models	Model 1	Model 2	Model 3	Model 4
	Boom spread on each side	50 feet	80 feet	120-130 feet	150 feet
	Motor power required	3-4 HP	5 HP	10 HP	13-15 hp
	7000	10000	12000	15000	
Achievements:	The innovator Shri. Annasaheb Udgavi was recognized by National Innovation Foundation in the year 2001 for developing the rain gun.				
IPR Status:	CS filed (Application Number: 2719/CHE/2011)				
BD website link:	http://nif.org.in/innovation/chandraprabah_rain_gun/88				
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