

# **Team**

- Mr. Manoranjan Das Adhikari, Director Bsc, having 15 years of exeperience in the manufacturing business of agriculture implements and machines, sale and marketing
- Mr. Rabindra Behera, Director

Diploma engineer, having 30 years of experience in the field of research and manufacturing of agriculture implements and machines.

- Mrs. Madhuri Das Adhikari, Director

  Bsc, graduate, having 10 years of experience of operation.
- Mr Subhrajit Biswal (Director)

Bcom, Graduate, having 3 Years of experience In Accounting

Mr Satya Ranjan Das Adhikari

Bcom, Graduate, having 3 Years of experience In Sales and marketing and dealership management and govt tender work.

# Problems of the farmer during the cultivation process.

- ➤ Sowing pulse seed (Groundnut, Black gram, Bengal gram, white gram other Dal related crop), Maize are very pathetic for the small marginal farmer presently.
- At present they sow the seed by hand scattering the seeds as a result no line and space is maintained between the tree to tree and line to line leading to low yield and huge financial loss.
- ➤ Presently the small marginal farmers are sowing groundnut by bullock drawn plough and 6 children / person required to sow the groundnut at a time cultivation work and the expense is more for the farmer.

### Solution

# SINGLE ROW SEED DRILL (GROUNDNUT, MAIZE, BLACK GRAM SEED PLANTER)

#### INNOVATION FOR THE SMALL MARGINAL FARMER

- A new innovation and specially designed for Groundnut, maize and black gram
- Widely used in the two district (Balasore, and Mayurbhanj).
- •It has a highest potential in entire Odisha and other part of country where small farmer doing cultivation of groundnut.
- •The cost of the machine is only 5500 which can be afford by a small farmer.
- With the help of our machine two person can sow one acre of land by 4 -5 hrs.

There is not other substitute of this product.

Creation of job opportunity for the village youth.





### **Specification of the machine**

- **No of row**: 1 row with spacing of 7inch (standard) and (adjustable).
- **Space and Depth**: Seed to seed space & depth is adjustable, as per the requirement of farmer.
- **Size of groundnut**: The inclined plate is designed for different size of groundnut, two type of inclined plate will be provided for small and big size groundnut along with hand operated grader.
- Hopper capacity: 2kg seed at a time,
- Weight: 9 kg approx.
- Seed for sowing: Specialized for Groundnut, but Maize, Green gram, Soybean can be sown.
- Operation: It can be utilized by both manual (hand) and bullock.

COMPARISION BETWEEN OLD METHOD AND SINGLE ROW SEEDRILL					
OLD AND MANUAL METHOD/ACRE					
COST	SINGLE ROW SEEDDRILL/ACRE COST				
6 Labour X250=1500.00	2 labour=300.00X2=600.00				
2 Pair of Bullock = 1000X2=2000.00	MEAL=50X2=100.00				
Meal=6x50=300.00					
Total cost to farmer=3800.00	Total cost to farmer =700.00				
	The longevity of the machine will last for 10 year.				
With this method the line sowing will	With this method line sowing happens so the				
not be maintained. So the production	tree get adequate amount of oxygen and give				
will be less.	highest yield.				





#### **Competition and scalability**

At present there is not any direct competition. Only big Seed drill is utilize for the sowing of pulses where the people not satisfied by the tractor drawn Seed drill.

And the cost of seeding is more.

#### MARKET SIZE FOR SINGLE ROW SEED DRILL

- There are almost 50000 small farmer who cultivate pulse specially groundnut in Odisha.
- This is a seasonable business.
- The target for the next 18-36 month to sell 10,000 pcs across odisha.
- Major targeted district are **BALASORE**, **MAYURBHANJ**, **JAJPUR**, **KENDRAPADA** Etc.

#### **6 ROWS MULTICROP SEEDDRILL**

#### **Technical specification:-**

#### Name: 6 ROW MULTICROP SEEDRILL (POWERTILLER)

- No of row: 6 rows with spacing of 7inch (standard) and (adjustable).
- Space and Depth: Seed to seed space & depth is adjustable, as per the requirement of farmer.
- **Size of groundnut:** The inclined plate is designed for different size of groundnut, two type of inclined plate will be provided for small and big size groundnut along with
- Hopper capacity: 12kg seed at a time,
- Weight: 60kg approx.
- Seed for sowing: Specialized for Groundnut, but Maize, Greengram, Soyabean can be sown.
- Which Power tiller for fitting: It can be fitted/attached to all company Powertiller very easily within 15 minutes. Without removing tilling blade and other parts.



# Advantage:-

- Easy to do the weeding for the proper space between the line of groundnut tree .
- Breakage and (Pilling of the skin of the groundnut) is very very less upto 0.5%.
- Missing or gap of seed to seed during planting of groundnut is very very less.
- Due to the proper space and depth between tree to tree causes high yealding.
- It takes only 2.5 hours to cover 1 acre of field.





<b>COMPARISION WIT</b>	HOLD METHOD	AND 6ROW MUIT	TICROP SEEDRILL
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COMPARISION WITH OLD METHOD AND BROW MULTICKOP SEEDKILL						
OLD AND MANUAL METHOD/ACRE COST	6 ROW MULTI CROP SEEDDRILL /ACRE COST					
6 Labour X250=1500.00	1 labour=300.00/2.5 hrs (Power tiller driver)					
2 Pair of Bullock =1000X2=2000.00	2 liter of diesel =140.00					
Meal=6x50=300.00	Maintenance of Powertiller=100.00					
Total cost to farmer=3800.00	Total cost to farmer =540.00					
It takes 4 hrs to sow the seed for 1 acre of land With the help of two pair of bullock and 6 labour	It takes 2.5 hr to sow the seed for 1 acre of land					
With this method the line sowing will not	With this method line sowing happens so					
be maintained. So the production will be	the tree get adequate amount of oxygen					
less.	and give highest yield.					

## **Projected Revenue**

	Actual	Actual	Actual	Estimated	Projected	Projected	Projected
YEAR	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
SALES	6183603	13008762	20017524	44049885	128163262.5	136707480	145251697.5
Cost of							
Production	5285173	9078750.667	18157500	38542738.09	46008905.29	49109205.96	52136328.86
Add: Opening							
Stock of F.G.	1254145	1221458	2442916	2226097.08	9493575	10171687.5	10849800
Less:Closing							
Stock of F.G.	1221458	2226097.08	4452194	5876975	10171687.5	10849800	11527912.5
Cost of Sales	5317860	8074111.587	16148222	34891860.17	45330792.79	48431093.46	51458216.36
<b>Gross Profit</b>	865743	6534650.501	13069300	39158024.83	82832469.71	88276386.54	93793481.14
Selling, General							
Admn.Exp.	295561	470568.3404	941136			1561577.23	1702142.79
EBITDA	639871	6954797.1	13909594	39136608.5	82322738.32	87585840.39	92962369.43
Depreciation	69689	890714.9401	1781428	890714.9401	871031.085	871031.085	871031.085
EBIT	570182	6064082.16	12128164	38245893.56	81451707.24	86714809.31	92091338.35
Interest on C.C.							
Loan	0	0	390000	390000	390000	390000	390000
Interest on Term							
Loan	0	308298.196	616596	884760.8503	599737.2207	457225.4059	314713.5911
Provision for							
Taxation -							
Current	0	1487102.853	2974204	10386386.3	22789458.28	24355708.39	25948929.14
Provision for							
Taxation -		25542 6222		400000 0000	0.400.4.04.40.4	1050 005011	22542 22225
Deferred	0	-25540.69823		130202.9906	34884.01104	1268.285041	-30649.82026
Net Profit/Profit	570400	4004004 04	0500440	2645454244		64546667.00	CT 4 COO 4 T 4 4
after Tax(PAT)	570182		8588442				65468345.44
Retained Profit	570182	4294221.81	8588442	26454543.41	57637627.73	61510607.22	65468345.44
Gross Profit	0.140006330	0.447240254	0.400000040	0.530000040	0.646304346	0.645724042	0.645720706
Margin	0.140006239	0.447310351	0.498806018	0.528806018	0.646304316	0.645731942	0.645730706
Net Profit	0.002200704	0.20204027	0.207252000	0.257252000	0.440720254	0.440043345	0.450722445
Margin	0.092208701	0.29394837	0.307252998	0.357252998	0.449720354	0.449943245	0.450723445

# **Awards and Recognition**

