

## RIDGE FERTILIZER DRILL CUM SEED PLANTER



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On account of climate changes during the last decade, the rainfall pattern and distribution has exhibited frequent aberrations. This machine with different land configuration technique the crop productivity can be substantially enhanced as compared to the conventional method of planting and fertilizer application. Moisture stress management along with need of right placement of basal doze fertilizer has come up as major issues to be addressed. This can be achieved by machine utilizing ridge fertilizer drill cum seed planter. Looking to its urgent need, Directorate of Soybean Research, Indore has designed, developed and commercialized an effective ridge fertilizer drill cum seed planter.

### **The Ridge fertilizer drill cum seed planter**

The Ridge fertilizer drill cum seed planter machine was developed to cope up with the problem of placement of seeds saving of fertilizer, moisture management and weed control in the soybean crop.

Thus, by this machine, the performance of high yielding improved varieties is optimized as the deep furrows and ridges created under ridge fertilizer drill cum seed planter provides effective drainage during excess rains, while serves as saver of precious 40% basal doze fertilizer along with in situ moisture conservation during dry spells, thus mitigating the detrimental effects of both extreme situations with saving of fertilizer and preventing nutrition to the weeds.

### **Tips for successful operation and best results**

1. Subsequent to harvesting of *rabi* crop, the field should be tilled deep for preparation of quality seed bed.
2. Deep tillage should be done with the help of rigid tine cultivator
3. Field leveling should be done if needed with the help of multipurpose blade terracer of normal tractor operated blade terracer after every three years with suitable gradient.
4. In vertisols the tractor should be of 55 PTO HP to operate Ridge fertilizer drill cum seed planter machine with ease.

5. The first and the foremost need is to test the pre-sowing calibration of the ridge fertilizer drill cum seed planter machine with seeds to be used for sowing.
6. It is very critical to keep the seed bed without weeds and root stocks.
7. Safety measures should be adopted as top priority while operating the machine to prevent any untoward incidence/accident.

### **Features and specifications**

1. The Ridge fertilizer drill cum seed planter machine has a ability to adjust desired depth of basal doze fertilizer.
2. The Ridge fertilizer drill cum seed planter machine has a ability to adjust desired depth of soybean seeds for sowing.
3. Ridge fertilizer drill cum seed planter machine can be operating with 55 PTO HP tractors.
4. This machine has a provision to adjust desired row to row distance.
5. This machine also facilitates irrigation through channels easily as and when desired.
6. The machine has additional channel opener wings which are provided as an additional option for increasing/decreasing with of the channels and height of the ridges.
7. The machine has ridge stabilizer at the rear end of the frame.
8. The Ridge fertilizer drill cum seed planter machine has a facility to change the seed dropping roller as per the size of the seed.
9. Ridge fertilizer drill cum seed planter machine has provision of 4 furrow openers with 5 additional furrow openers.
10. The machine presently costs **Rs. 69,100/- (04 bottom)**  
**Rs.74,800/- (05 bottom)** which is likely to be revised as and when needed.

This excludes the cost of transport which is to be borne by buyer.



Ridge fertilizer drill cum seed planter machine at work

### **Procurement**

Order and payment for Ridge fertilizer drill cum seed planter machine is to be made to manufacturer and coy of the same to Director, ICAR-DSR, Khandwa Road, Indore PIN- 452001, M.P.

To know further:

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For commercialization: Contact Dr VS Bhatia, Director DSR or Dr. M.P. Sharma, Principal Scientist & Nodal Officer, ITMU, ICAR-DSR, Indore (email:dsriprind@gmail.com)

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