

Developed farm implements and machinery is an important input in farm production. Performing different activity in time at low cost and to ensure maximum utilization of valuable farm inputs such as seed, fertilizers, water, farm protection chemical etc. helps in growth in farm production.

- **Farm implements used in preparation of field**

- Rotavator
- Disc harrow
- Cultivator
- Tractor driven rotavator and power tiller
- Pant Nagar Machine
- Tractor driven drain and bund making machine

First of all, plough with rotavator and then use after, use cultivator to convert the soil in to fine tilth. If the quantity of roots residue and clod is more in the field, disc harrow destroy the root residue by cutting them and clod of the soil is converted in to fine particles and the soil become tilth. This also improves water retention capacity of the soil. Use of rotavator not only saves money and time but the field also become ready in 1 -2 plough.

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- **Farm implements useful in sowing**

- a. Seed cum Fertidril**

Use of seed cum Fertidril is essential to apply fertilizer and sowing of seed deep and at a definite distance to get good yield. This is available in bullock, Power tiller and tractor driven model. Scientific experiments have proved that sowing by Fertidril can save 15-20% seed and production is increased by 12-15%. If it is used for sowing, hoeing and weeding is possible through hand hoe.

- b. Zerofil Fertidril**

This machine is used for direct sowing of wheat after harvesting of paddy which is continuously being manufactured since last 14 years. If is used for direct sowing of wheat, Rs.1500-2000 can be saved per acre. Growth of

weeds is restricted. This can also be used for green leguminous pod crops such as pea and masoor.

c. Tractor driven potato planter

Tractor driven potato planter works simultaneously for planting and earthing up. Tractor driven sugar cane planter is an automatic machine for cutting the pieces of sugar cane and planting in furrows in two rows.

d. Chonga

In case of non availability of Fertidrill, applying fertilizers in furrows and sowing is beneficial.

e. Tractor driven Rotatill drill

This performs the function of ploughing and sowing simultaneously.

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- **Farm implements used in hoeing/weeding**

- 1) Hand Hoe/Wheel Hoe/Multi purpose Hoe

For weeding and hoeing, multi purpose wheel hoe is the most suitable machine. This saves time and cost both.

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- **Farm implements used in harvesting**

- **Sickle**

- **Reaper(Power Driven)**

For early harvesting, use of reaper is beneficial. It can be used attached with tractor or power tiller.

- **Combine Harvester**

Harvesting, threshing and winnowing of wheat and paddy are done in arrow and clear grain is obtained. This machine can be used for harvesting on hire basis through custom service.

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- **Farm implements used in harvesting**

- **Multi crop Thresher(Power Driven)**

- **Winning Fan**

For threshing of different crops, multi crop thresher is very useful machine. Crops other than wheat and barley can also be threshed. Only ISI Mark power thresher should be purchased.

- **Winning Fan**

After threshing, winnowing fan is used to separate grains from the straw. Under different government scheme up to 50% grant is available on purchase of some use full farm implements. On distribution of power thresher, 25% grant subject to maximum Rs. 5000/ is admissible.

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- **Straw Making Machine**

This machine makes straw after harvesting by combine.

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- **Rotavator**

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