



## **BLADE HARROW**

he blade harrow moves into the top surface of the soil without inverting it.

It is used for pulverization of the soil and to create soil mulch.

Mostly, the farmers of Central parts of India use it.

Pulled by a pair of bullocks



-Blade Harrow



# DRAG HARROW



**Triangular Harrow** 

It is spike tooth harrow with a triangular frame.

The spikes or the pegs are rigidly fixed on the frame.

It is used for breaking the clods, stir the soil and uproot the weeds.

# SPIKE TOOTH HARROW

Used to smooth the seed bed, break clods, kill small weeds, close air pockets in the soil, loose and aerate soil and break rain crusted soil for fast emergence of seedlings.

Available either as animal drawn or tractor drawn type.

The working depth of this kind of harrow is generally 5 cm.



Spike Tooth Harrow



### SPRING TYNE HARROW

**Used primarily to** loose the soil crust, **Dig & lift the soil** break clods, pull roots of weeds, close air pockets in the soil, level the surface to make it ready for sowing





## **DISC HARROW**

**COMPONENETS** DISC GANG **GANG BOLT SCRAPER** SPOOL GANG ANGLING MECHANISM FRAME **BEARING** 



#### SINGLE ACTION DISC HARROW

It has two gangs of disc placed end to end.

The discs throw soil in opposite direction.

Basically, it is an animal drawn implement.



But large size tractor drawn single action disc harrows are available.

Apart from harrowing, it is also used in forming ridges, boarders for irrigation and in puddling.



#### DOUBLE ACTION DISC HARROW

Two opposed front gangs as well as two rear gangs.

Front gangs throw soil outward whereas, the rear gangs throw the soil inward

Gives a better soil pulverization in one pass which is not possible in case of single action disc harrow.



- 1. Disc
- 2. Front gang
- 3. Rear gang
- Frame
  Gang angling mechanism



#### OFFSET DISC HARROW

Operated in off-set position in relation to the centre the prime mover.

The front gang throws the soil outward and the reading gang throws the soil in opposite direction.

Mostly right hand off-set.

Suitable for working near the trees in orchard and under low hanging branches. It gives a soil smother than other types of harrows





### TANDEM DISC HARROW

- Gang angle up to 24° in each gang is provided in tandem disc harrow.
- In tandem disc harrow when front gangs are angled the rear gangs assumed an angle, which is reverse of the front gang thus throwing the soil towards the centre giving a double action.