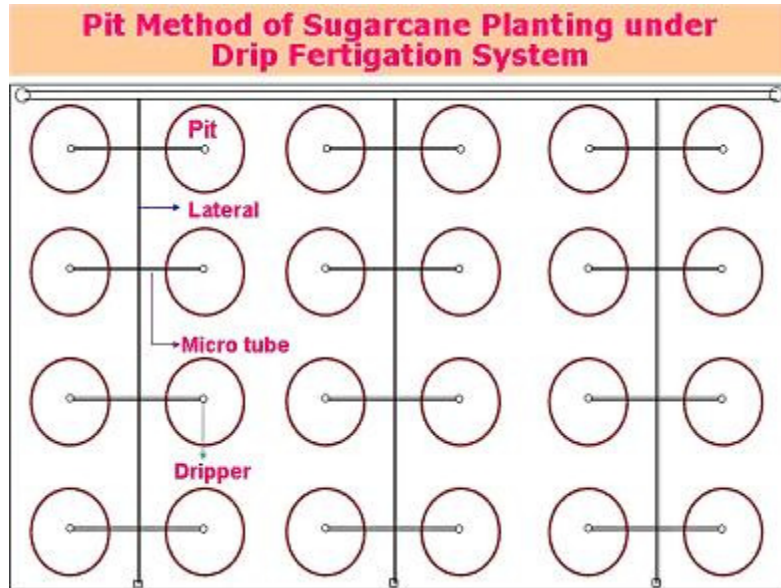


## **Pit cane planting** **under drip fertigation system**

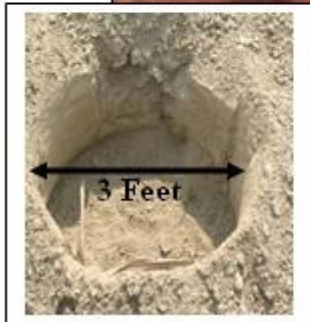
- to produce more per mm of water and all other inputs
- to raise cane crop even under marginal lands
- to raise cane crop even under unlevelled fields
- to raise crop in problem soils and water
- to go for organic cane cultivation
- to have minimum tillage
- to create micro catchments for water harvesting
- to have multi-ratooning
- to produce higher cane yield with less water





## **Pit Planting of Cane**

- **Pit to pit spacing : 1.5 x 1.5 m**
- **Pit diameter : 0.90 m**
- **Pit depth : 37.5 cm**
- **Fill the pit with native soil and FYM : 15.0 cm**
- 5. Single budded setts : 32 nos/pit**
- 6. Or two budded setts : 16 nos/pit**



- 1. Double hole pit maker**
  - 2. It can dig 250 to 300 pits / hr**
  - 3. Can be fitted with 35 HP tractor also**
- 
- 1. Slides the soil in the pit on 50 – 60 DAP and cover the pit to a height of 2.5 cm (partial earthing up)**
  - 2. On 90 – 100 DAP cover the pit leaving 2.5 cm depression by sliding the soil around the pit**
  - 3. If lodging is expected high earth can be done to a height of 5 cm**
  - 4. FYM can be applied at the time of second earthing up so as to avoid early lodging**
  - 5. Detrashing and trash mulching are essential**

## DRIP DESIGN

- ❖ Lateral to lateral spacing(12 or 16mm) : 3.0 mt
- ❖ Micro tube to each pit on either side : 1.0 mt
- ❖ Emitters – One emitter per pit : 8 LPH
- ❖ Place the emitter in the centre of the pit
- ❖ In undulating lands go for PC emitters
- ❖ Use quality pipes and drip units
- ❖ Fix ‘Ventury’ or ‘fertigation tank’ for fertigation and system maintenance
- ❖ Provide NRV and Air release valves





# *Ratoon management*



**Stubble shaving**



**Stubble shaved pit**



**Second ratoon crop**

**Uniform distribution**



**Clustering**

