



## Tractor Operated Trencher for Laying of Subsurface Drainage Pipe

### Utility

The irrigation channels are formed by manual labour using local hand tools. It involves lot of labor and drudgery. A tractor operated irrigation channel former can be used for making irrigation channels in orchards with much ease. It opens the furrow, inverts the soil on the sides, and simultaneously compacts the side walls to form a clean and compact channel for irrigation purpose.



Specifications & Performance results		
Digging mechanism	:	Chain with blades
Pipe laying	:	Boom with roller
Overall weight, kg	:	680
Field capacity, m/h	:	250
Field efficiency, %	:	78-81
Cost of operation, Rs/h	:	1,967-2,000
Cost of machine, Rs	:	300,000/-

### Benefits over conventional/traditional practices

- It can easily be detached and attached to the tractor
- Saves 87% and 79%, in cost of operation against manual and excavator method of trenching, respectively.
- Saves 96% and 93% in time and labour against manual and excavator method of trenching, respectively

**Design:** ICAR-CIAE, Bhopal

**Commercialization Status:** Commercialized

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