



## Tractor Operated Side Trencher-cum-FYM Applicator for Grapes Orchard

### Utility

The FYM application in vineyard is one of the most drudgery prone operations in grapes cultivation, which is done manually by digging a continuous trench near the plant and placing FYM. A side trencher-cum-FYM applicator having one tonne capacity can do trenching and place FYM on either side of plant rows, simultaneously.



Specifications & Performance results		
Power source, kW tractor	:	≥ 34
Mode of operation	:	Hydraulic motor
Width of operation, m	:	2.4-2.6
Depth of operation, mm	:	300
Application rate of FYM, tonn/ha	:	25
Cost of machine, Rs.	:	2,00,000/-
Draft, N	:	5563
Actual field capacity, ha/h	:	0.2
Field efficiency, %	:	80
Labour requirement, man-days/ha	:	2.0
Cost of operation with machine, Rs./ha	:	3,440/-

### Benefits over conventional/traditional practices

- 88% saving in cost of operation.
- 99% saving in labour and 80% saving in time of operation.
- Uniform distribution of FYM.
- Reduces human drudgery and maintain timeliness in operation.

**Design:** ICAR-CIAE, Bhopal

**Commercialization Status:** Commercialized

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