A comparative study on performance of a rotavator in barren and fertile land

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- ABSTRACT: The mechanisation of agricultural practices has resulted in increased agricultural productivity in India. As a consequence it seems that, rotary tillage implements are now being projected as important tools in obtaining fine tilth in soil. Even the Indian agriculture can be profitable by increasing land under cultivation, timely farm operation, reduction of cost of operation, adoption of tractor drawn rotavator etc. The rotavator was tested in terms of width and depth of cut, speed of operation, fuel consumption, theoretical and effective field capacity. Also soil parameters like soil moisture content, type of soil, bulk density etc. were studied. The performance of rotavator was evaluated for medium black and trashy soil. The cost of operation of fertile land was found to be 1988 Rs./ha and that of cultivated land was 1668 Rs./ha. It is found that the field efficiency for cultivated land was found to be more than barren land.
- **KEY WORDS**: Rotavator, Barren land, Fertile land, Cost of operation
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