

## Performance evaluation of bullock drawn cotton planter

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■ **ABSTRACT** : A 3-row bullock drawn cotton planter was evaluated on field of the Department of Farm Power and Machinery, Dr. PDKV, Akola using NHH-44 variety of cotton. The average moisture content of soil was 33 per cent. The field performance tests conducted over an 0.182 ha area revealed that the average horse power for the planter was 0.467 for an average draft of 48.53 kgf and average speed of 2.6 km/hr. The theoretical field capacity, effective field capacity, field efficiency obtained for continuous operations of planter were 0.47 ha/day, 0.34 ha/day and 72.51 per cent, respectively. In view of the above performance it can be concluded that newly developed bullock drawn cotton planter is suitable for cotton planting.

■ **KEY WORDS** : Spacing adjustment, Gear ratio, Hopper, Seed plate, Ground wheel

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