

## Performance evaluation of bullock drawn MAU stubble collector

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■ **Abstract** : In India, for stubble collection animal power is not used so extensively. Manual stubble collection can give clean results but it is time consuming, slow process and required more labors. The bullock drawn MAU stubble collector was developed by MKV Parbhani, under AICRP. The performance results of this stubble collector were observed by testing on the field of green gram and bajra crop. The width of operation, for this stubble collector was 1.60 m for both the crop on the field. The depth of operation on the field of green gram was found to be 5.76 cm and on the field of bajra it was found 5.80 cm. The average speed required at green gram field, was found 2.59 km/hr and for bajra crop it was found 2.49 km/hr. The average draft requirement, field efficiency and power requirement during green gram field operation were found 41.87 kg, 84.68%, 0.277 kW, respectively and in case of bajra field 46.0 kg, 83.94% and 0.318 kW, respectively for MAU stubble collector. The stubble collector operation carried out for 6 hrs in a day 2 hrs works and 1 hr rest. On both the field the MAU stubble collector gave very clean results with very less time and only one labor was required to carry out the operation.

■ **KEY WORDS** : Stubble collector, Green gram, Bajra, Width of operation, Draft requirement, Field efficiency, Power requirement

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