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Performance evaluation of self propelled vertical conveyor reaper for soybean crop

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ABSTRACT : The feasibility testing of self propelled vertical conveyor reaper was carried out for harvesting of soybean crop at Central Research Station of Dr.PDKV, Akola. The testing was carried as per RNAM test codes on four test plot of total area 1.1 ha. The average effective field capacity and field efficiency of the self propelled vertical conveyor reaper was found to be 0.255 ha/h and 88.59 per cent, respectively. Fuel consumption of self propelled vertical conveyor reaper was 0.728 l/h, and 2.84 l/ha The average harvesting losses in mechanical harvesting and manual harvesting were found to be 5.68 per cent and 4.73 per cent, respectively.The cost of operation of self propelled vertical conveyor reaper and manual harvesting were 775.64 Rs/ha and 1264 Rs/ha, respectively. In mechanical harvesting the per cent saving in the cost of operation and time were found to be 38.63 per cent and 67.81 per cent, respectively.

KEY WORDS : Self propelled vertical conveyor reaper, Harvesting Losses, Shattering losses

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