

## Performance evaluation of self propelled riding type vertical conveyor reaper

■ S.A. MEHETRE, J.S. GHATGE AND P.S. BANDGAR

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See end of the Paper for authors' affiliation

Correspondence to :

**P.S. BANDGAR**

Department of Renewable Energy Sources, Padmashree Dr. D.Y. Patil College of Agricultural Engineering and Technology, Talsande, KOLHAPUR (M.S.) INDIA  
Email : [psbandgar@gmail.com](mailto:psbandgar@gmail.com)

■ **ABSTRACT** : Changing socio-economical scenario, Indian agricultural will sustain only through modernization process by means of agricultural engineering knowledge. The use of improved and precision machinery for harvesting operation such as 'self propelled vertical conveyor reaper' is urgent need in present day agriculture in the country. The saving in labour, time and cost of operation are the major advantages in the use of self propelled vertical conveyor reaper. In view of this, the self propelled riding type vertical conveyor reaper was tested to assess its performance. The test result indicated an average effective field capacity of 0.17 ha/hr at an average forward speed of 1.7 km/hr with 60 per cent efficiency. The vertical conveyor reaper was found to be suitable for reaping the crops up to 55 to 60 cm crop height. Operating cost of the machine was worked out to be Rs.115.27/hr.

■ **KEY WORDS** : Vertical conveyor reaper, Soybean

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