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## DESIGN AND DEVELOPMENT OF TRACTOR OPERATED JOWAR REAPER WINDROWER

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**ABSTRACT :** The design and development of the Jowar (*Bicolor L. Monech*) reaper was carried out on the basis of principle of vertical conveying. The basic considerations of design are average height of the jowar and the weight distribution. The prototype of jowar reaper with 2.2 m cutting width, which equals to seven rows at 30 cm was developed for operation with the tractor. Three conveyor belts are provided on machine to facilitate better conveying of the cut stalks. The visibility from driver's seat was given due consideration and in upper portion of crop board is made up of m.s. mesh.

**Key Words:** Jowar, sorghum, reaper-windrower, harvester.