

# The Golden Gavel: A Foldable Grain and Grain Bag Collection Trolley

Ankita Khokalea, Kundan Suryawanshia, Rohit Ahirea, Vipul Ahirea

Department of Mechanical Engineering

Guru Gobind Singh Polytechnic, Nashik

**Abstract:** *This paper presents the design and development of "The Golden Gavel," a novel, fully mechanical grain collection and transport system. This system, comprising a foldable trolley with a detachable dustpan, aims to enhance efficiency and reduce manual labour in agricultural harvesting. The design prioritizes user-friendliness, cost-effectiveness, and sustainability, offering a viable solution for small-scale farmers by minimizing physical strain and reducing post-harvest losses*

**Keywords:** Grain harvesting, post-harvest losses, agricultural mechanization, ergonomic design, sustainable agriculture