

ABSTRACT

FABRICATION OF SUN FLOWER THRESHER

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The present project focuses on solving the problem faced by the farmers in separating the seeds from the sunflower. Farmers use the manual methods due to unavailability of suitable machinery for sunflower threshing. During manual sunflower production, the most time and labor-consuming operation is the threshing of sunflower by beating the sunflower heads with a stick, rubbing wear heads against a rough metal surface or power tiller treading machine. The aim of the project is to fabricate a machine which will separate the seeds from the sunflower. The main components required to fabricate the machine are Blades, Shaft, Pulley, Blower, Hopper, Tray, Motor, V-Belt and Pillow Block Bearings. The sunflower threshing unit operates on the principle of axial flow movement of the material. The sunflower is threshed in a closed threshing unit by rotating blades where the seeds are separated from flower and husk of the flower is removed through blower. Finally the cleaned seeds are collected in a Tray.

Keywords – Design and Fabrication, Sunflower, Seed Extractor

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