**LOW COST SUNFLOWER SEED REMOVAL MACHINE**

# ABSTRACT

India being an agricultural country, about 40%farmers face lot of problem in maintaining an economic cultivation and yielding profit. This project idea was formulated based on the problems faced by the farmers in and around Dindugal in removing the seeds from sunflower. Sunflower seeds come from the big round centre of the sunflower, which turns throughout the day to follow the course of the Sun. A detailed review from the farmers strongly insists that it takes a lot of time and requires a large man labour for removing the sunflower seeds from the plant. Either farmers follow manual method of removing or they have to depend upon the industries which lend them large machines to remove the seeds. In the manual method they remove seeds by sliding the sunflower over a wire mesh or thrash it with a metal weld which is really problematic and involves a lot of labours which will land them in wastage of time and energy. Similarly in the second method they used to pay a sum of amount to the industries and have to remove the seed which is also going to be non-profitable for the farmers. Based on the study, it is observed that for 1acre it will take two days to remove completely involving five labours and with a daily wages of Rs 200, and so this project is cost effective than the conventional method followed by the farmers. This model consists of a cylindrical chamber and rotating discs run by a motor which will remove the seeds effectively within the limited period of time. Hence this project idea is going to be a great boon for farmers in terms of time as well as money.