

ABSTRACT

DESIGN AND FABRICATION OF MINI PADDY DE-HUSKING MACHINE

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Milling is most important aspect of post harvest operation of paddy. The traditional method of paddy de-husking is laborious, time consuming, low output and has more breakage. Overall efficiency of the traditional method is very poor. So to improve efficiency and to reduce the breakage, mini paddy de-husking machine will be designed and fabricated. This machine is used mainly for domestic purpose and it is portable. The de husking can be done by rubber rollers with the help of shearing action. The machine has the following units feeding, de husking and separating unit. The paddy passes through the rollers is abraded by two knurled shaft and is de husked by the rotation of the de husking drum. The clearance between the rollers is adjustable depend upon the type of the rice to reduces breakage. The capacity of the machine is 20kg/hr from paddy to rice and breakage is less than 10%. Commercially available materials are used for the fabrication. According to the standard specifications, components are selected and assembled. The fabrication process involves drilling, welding, and assembling of the components. After fabrications of the components, assembly will be done.

CONTACT FOR FULL SYNOPSIS  +91 7892151234

#2232, 16TH B CROSS, SECTOR B, YELAHANKA NEW TOWN, BANGALORE-560064
Ph: +91 7892151234