

Expo Rekacipta & Pameran Penyelidikan UniMAP 2009

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PORTABLE ROUGH CLEANER MACHINE



Traditional Method



NOVELTY OF INVENTION

Portable Rough cleaner machine is invented to clean and separate the paddy came from the irrigated rice field.

OBJECTIVE

To design and develop a functional mechanism to clean paddy before milling process which can be used for rural farmer to process paddy for personal used.

PROBLEM STATEMENT

- Each paddy that we take from the field mixed with some impurities that includes dirt, dust, dry leaves, stone, sand and dead insect.
- Difficult to separate paddy from the irrigated rice field by using traditional method, "menampi".

SUMMARY OF INVENTION

The rice is widely used as a base food in all over the world. Lately, the price of the rice has been increased to 20%-30%. It is beneficial if the farmers can have small equipment to process the paddy for their own use or to sell in a retail shop. The Portable Machine of Cleaning Paddy is an innovation to clean paddy before milling process. The machine will separate paddy from unwanted matters such as straw and other. This is the phase of the post-harvest system during which the impurities mixed with the grain mass are eliminated. After drying, it is important to remove the impurities (soil, straw, small pebbles, plant and insect waste, weed seeds etc.) from the grain.

ADVANTAGES

1. Farmer can clean paddy before milling process for personal used.
2. Farmer can use Paddy Rough Cleaner machine to separate paddy from irrigated rice field for "Padi Benih".



Before cleaning



After cleaning



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