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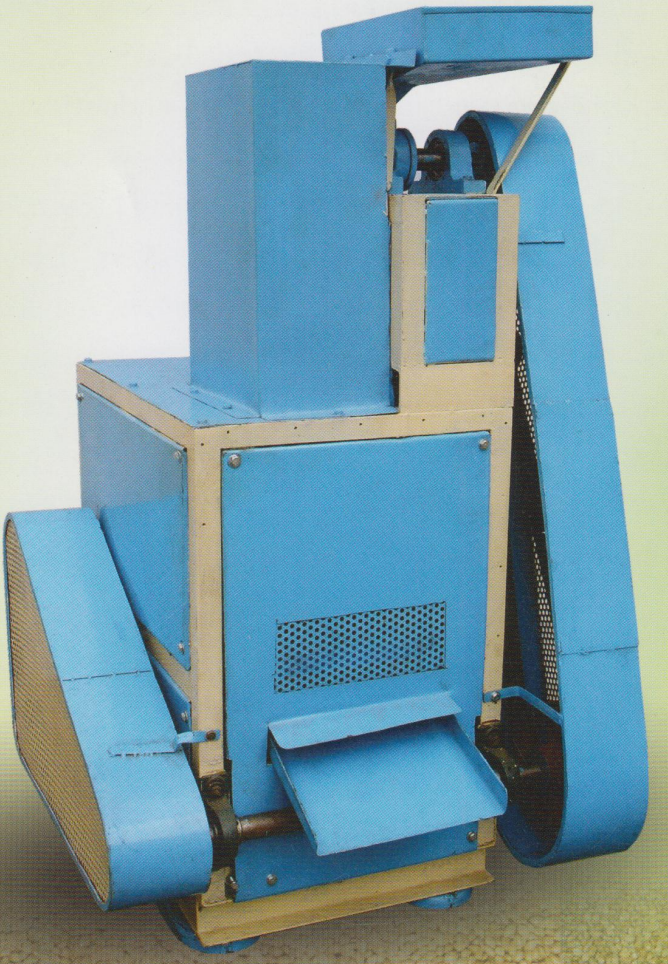
# TNAU MODEL
# MILLET DEHULLER




POST HARVEST TECHNOLOGY CENTRE
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# MILLET DEHULLER

Minor millets such as finger millet (ragi), proso millet (panivaraghu), foxtail millet (Thenai), kodo millet (varaghu), barnyard millet (kudiraivalli), little millet (samai) are the small grained cereals which form the staple foods for a large segment of the population in India. It requires less water for their growth and is used as food sources mainly in arid and semiarid regions of the world. Minor millets rich in B complex vitamins are appropriate food for those with coeliac disease or wheat intolerance. The protein content is comparable to that of wheat and maize. It is relatively rich in starch, iron, phosphorus and fibre. Milling process of minor millet involves dehusking and debraning. At present husking is carried out manually because of the lack of mechanical machines. Moreover due its smaller size it is difficult to follow standard mechanism for dehusking. The information on processing of small millets for food and industrial use is also very limited. By considering the above drawback and for the hassle free dehusking operation, a multi grain centrifugal dehuller was developed. The machine consists of hopper, impeller, casing, aspirator, grain outlet, husk outlet and power transmission system. The impeller rotates at 4000 rpm and the entire machine is powered by 3 hp motor. The machine operates on the principle of impact force. During the operation, the grain gets energized and hit the hard casing surface where the husk splits from the grain. Grain is collected in the grain outlet and the husk is collected by means of aspirator.

## Specifications

| | | |
|---|---|---|
| **Mode of operation** | : | Continuous type |
| **Power requirement** | : | 3 hp, three phase motor |
| **Capacity** | : | 100 kg/h |
| **Purpose** | : | Dehulling of minor millets |
| **Working principle** | : | Centrifugal and impact force |
| **Dehulling efficiency** | : | 95% |
| **Cost of Dehulling** | : | Rs.2 per Kg |
| **Cost** | : | Rs. 75,000 |

*For further details contact*

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