

Milling and processing

Rice milling

- The process of removing husks from paddy to obtain the rice grains. The brown rice is polished to get white rice. The polished rice is sorted into size (small broken, large broken and whole grain). The rice is blended as per the KEBS manual to attain grades. Grade 1 (85% HR and 15% broken), grade 11 (75% HR and 25% broken) and grade 111 (65% HR and 35% broken).

Milling and quality

- The type of mill influences the quality of rice
- The moisture content of paddy also influences the quality of rice.
- The quality of paddy also influences rice quality

Village milling

- É Small scale milling
- É Also called single/one stage milling
- É Use pestle and mortar to remove the husks
- É Mostly for family consumption
- É Quality issues are not paramount
- É No grading is involved

Commercial rice milling systems

- É Large scale rice milling system
- É Milling and processing rice for sale
- É Comprises of **beehive activities** or processes
- É Milling involves a series of machines
- É Compliance to Government statutory regulations
- “ Rice blended as per the KEBS manuals

Improving the output of the rice mill

- É Procurement of good quality paddy
- É **Training programs for farmers on good crop husbandry**
- É Improve harvesting, drying & storage systems of paddy
- É Strict quality checks at critical points in the processing line
- É Employ Cleaner production strategies
- É Mechanization aspects of the milling machines

By-products

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- É Broken rice-Degrees of broken rice (small & large broken)
- É Bran meal-rice germ
- É Colored rice
- É Husk

Utilization

- É Broken rice consumed as food
- É Small broken sold to customers as poultry feed
- É Broken rice used in the blending of grades 1 & 11 rice
- É Bran Meal bought by institutions involved in the manufacture of poultry and cattle feeds
- É Bran Meal used in the making of Fish feed after incorporating with protein material (sunflower cakes,omena)
- É Husks—used for making briquettes as source of fuel