

## CENTRAL FOOD TECHNOLOGICAL RESEARCH INSTITUTE, MYSORE

1. **Name of the process:** Process know how for **dry maize milling** plant (One TPH)

2. **Brief description of the process:**

Maize grown in subsistence agriculture ranges among the leading cereal crops in the world with current production placed at 526 million tonnes. India produces about 10 million tonnes of maize that constitutes about 30% of total coarse cereals produced in the country. Potential exists to process about 4-5 million tonnes by dry milling to obtain germ and grits. Currently, very little of maize is milled in a few large scale imported dry-maize milling plants (capacity 100 - 200 tonnes/day), which is capital intensive.

Major portion of maize is, therefore, converted to flour and semolina in plate grinders across the country. There are no indigenous technologies which can suit to the small scale sector for their wide spread usage across the country. A 10-15 tonnes per day plant, with a capacity of 1 TPH is envisaged as the most suitable for this sector. An indigenous technology has been recently developed under the aegis of TMOP&M at CFTRI, Mysore, and a pilot mill of 1TPH capacity has been commissioned at CFTRI.

The basic steps involved in this system are cleaning and grading, de-stoning, multi-stage conditioning, multi-stage milling, sifting and gravity separation. The typical yield of products and by-products from the plant are:

• Large & medium grits	50-60%	• Bran	8-12%
• Small grits	10-15%	• Germ	5-7%
• Meal	10-15%		

3. **Uses of the process:** Dry maize milling is aimed at achieving maximum yield of large-sized grits and other fractions like germ, meal and flour in pure form.

4. **Project cost:**

Land and building (4000 Sq. Ft)	-	36 Lakhs
Plant and machinery	-	45 Lakhs
Working capital	-	20 Lakhs
Power	-	130 HP

5. **Mode of Technology Transfer:** Director, CFTRI, MYSORE - 570 020  
Ph - 0821-2514534; Fax-0821-2515453  
Or

Technology transfer agency, which is approved by CSIR from time to time

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