

BEVERAGE MIX FROM MALTED RAGI

Introduction

Beverages are a class of convenient foods, which are either in ready-to-drink form or in powder form, and can easily be reconstituted with milk or water before consumption. Beverages can be classified as specialty foods that provide energy and some of the essential nutrients like proteins, minerals and vitamins. These foods offer energy and nutrition to the consumers and help them to overcome fatigue and convalescence in the form of liquid food supplement. These foods are generally taken as refreshing beverages. Most of the beverage formulations marketed in India and abroad are based on malt extract from barley and wheat solids.

Ragi is known to contain good amount of calcium and sulfur amino acids. Besides, ragi in the malt form can be an excellent cereal base for products like beverages and hence preparation of an instant beverage based on ragi malt was developed. It was blended with a small proportion of barley & protein concentrate to make a product with a desirable nutritional profile.

The product can be packed in flexible laminated packaging material or in PET or glass bottles or refill packs in card board box as retail consumer packs. When packed as unit pouches, a shelf life of 1 year for foil laminate and about 6 months for metallized polyester/polyethylene was predicted under normal storage conditions (65% RH and 27°C).

Uses: The mix can be used in the preparation of a beverage after reconstitution in water, milk or such other potable liquids.

Raw material : Finger millet malt flour, Barley malt flour, Skimmed milk powder, Malt extract, Protein concentrate, Vegetable oil, etc.

EQUIPMENTS REQUIRED:

Steam jacketed kettle, storage tank –ss, Homogeniser, Vacuum shelf dryer, granulator, boiler, dehumidifier, Form fill seal m/c etc.

PROJECT REQUIREMENT (an estimate) :

Land (Approx. in Sq. metres)	3750
Building (Approx. in Sq. metres)	700
Plant & Machinery (Approx. Rs. in '000)	15350
Total Project cost (Approx. Rs. in '000)	35020

CAPACITY :

Suggested economic capacity: 1000 kg/day
Working : 300 working days/ year