

Central Food Technological Research Institute, Mysore - 570 020

SPRAY DRIED COCONUT MILK

POWDER

POWDER INTRODUCTION

Coconut, the fruit of the kalpavriksha has been from time immemorial associated with divinity and viewed with reverence in many communities and in many parts of the world. It is observed that the possibility of utilization of a large share of the coconut production in primary usage without any value addition and the principal product, the coconut oil and its price being the determinant of price of coconut, are the major factors of depriving the farmers of their economic benefits. Keeping these factors in view, CFTRI has developed and standardized value added spray dried coconut milk powder for commercial level production.

PRODUCT USE

Coconut milk is white milky produce extracted from the endosperm of coconut and constitutes into an emulsion stabilized by proteins. It has a characteristic nutty flavour and also is known for its nutritional values. It is an ingredient for sweets, confectioneries, vegetable dishes, beverages, sharbats, fish, meat, poultry and other type of preparations.

Spray dried coconut powder can be used in formulations of Flavoured milk, Milk shake, Lassi, Coconut rice, Coconut puddings, Coconut burfi, Coconut savory and other Indian traditional products.

RAW MATERIALS

Coconut is the raw material, which is available in plenty in states like Kerala, Karnataka, Tamilnadu, Pondicherry and Andaman & Nicobar Islands.

PROCESS

Well-ripened fresh coconuts are de-husked, de-shelled, paring removed and grated. The grated coconut is comminuted and milk is extracted using a suitable press. The milk thus obtained is formulated and standardized. The formulated milk is homogenized and spray dried under optimum conditions. The dried powder is packed in laminated pouches with or without nitrogen.

EQUIPMENTS

Major equipments are Disintegrator, Screw-press, Vibrating screen, Homogenizer and Spray drier, Vibro fluidized bed dryer, Pasteurizer, Sealing machine & Oil expeller.

ECONOMICS OF PROJECT (Approximately):

Capacity of Plant:	20,000 nuts per day or 1-ton spray dried powder per day
Land (20000 M ²)	22.2 Lakhs
Building (1527 M ²)	74.27 Lakhs
Other fixed assets	18 Lakhs
Preliminary / Preoperative expenses	23.9 Lakhs
Cost of plant/equipment:	143.83 Lakhs
Working capital (margin)	18.33 Lakhs
Total Project Cost:	300.53 Lakhs