

FOOD FOR DIABETICS

Introduction

The products prepared from wheat and legumes, blended with special edible ingredients having hypoglycemic characteristics will be useful as ready-to-cook (RTC) or ready-to-eat (RTE) foods or as dietary supplement for the population of physio-pathological conditions with non-insulin dependent *diabetes mellitus (NIDDM) or Type 2 diabetes*. Both RTC and RTE foods may be used as wholesome food, food supplement or as meal replaces by these subjects. The RTC food could be cooked in the form of traditional or other recipes of choice for consumption as breakfast, lunch and dinner, where as, RTE food could be used as snacks in convenient form or as part of meal with other commonly available non-sugar adjuncts.

Raw material and packaging materials

Cereals, pulses, spices and other selected raw materials.

Plant and Machinery:

Principle equipments: Cleaner cum grader, de-stoner, grain conditioning unit, fraction polisher, air classifier, bucket elevators, continuous vibro-fluidised bed dryer, vibratory grader, boiler, coating machine, grain stoner, planetary mixer, Hammer mill, Ribbon mixer, Sampling probes, Grain scoops etc.

Auxiliary equipments: Digital Moisture meter, Thermostatic oven, Hydraulic pallet truck, Hand trolley etc.

Process in brief:

Ready-to-cook

Ingredients → Toasting → Blending → Grinding → Homogeneous mix → Ready-to-Cook Hypoglycemic food

Ready-to-Eat

Ingredients → Toasting → Blending → Grinding → Homogeneous mix → Extrusion cooking → Ready-to-Eat Hypoglycemic food

Project Cost – Fixed Cost – Working Capital (Rs. '000)

(Estimate for a model project)

a)	Land & Land development (7000 m ²)	3500.00
b)	Building and civil works (1250 m ²)	5000.00
c)	Plant and machinery	1390.00
d)	Auxiliary Equipments	500.00
e)	Miscellaneous fixed assets	150.00
f)	Pre-operative expenses	853.00
	Total Fixed Capital	11393.00
	Working capital margin	3756.00
	Total Project cost	15149.00
	Short term loan towards WC	1001.00

Means of Finance

- Promoter's contribution
- Term loan

Production Capacity - (estimate)

Suggested economic capacity	:	20 T/ 2 shifts /day
Working days	:	300 days/ annum

Technology / Manufacturing Process -Availability

The technology for processing of food diabetics has been developed at CFTRI, Mysore using appropriate equipment optimal product recovery of right quality. The institute has the necessary expertise to provide technical assistance and guidance for setting up the project and implementation, under technical consultancy arrangements.