CENTRAL FOOD TECHNOLOGICAL RESEARCH INSTITUTE, MYSORE - 570 020

MOULDING MACHINE FOR BESAN, SOJI/ RAVA AND SIMILAR LADDUS

1. Introduction:

This invention is useful for moulding of any food material, which ahs the property of binding particles together. The moulding machine can mould the food material in any geometrical shape such as sphere, square, rectangle, etc. The moulded food materials obtained by using this device of the present invention are of uniform dimension and geometry and are obtained in a continuous manner. The food material can be used, such as laddu granules, blended soji with sugar and fat, roasted besan with sugar and fat are few combinations to mention. The device of the present invention is therefore useful as a moulding machine for laddu, besan laddu, soji laddu etc.

2. Features of the machine:

On comparison with conventional process of preparation of laddus, the one obtained from Continuous moulding machine for foods are more uniform in dimension. Due to the flexibility of operating parameters a wide range of raw materials can be handled.

3. Raw Material:

AC drive, Stainless steel sheets, main frame, electric motor, geared motor, electrical accessories, moulding die sets and conveyor screw

4. Technical specifications:

Capacity of the machine	:	2000 Nos./ hour
Electrical heat lad	:	1 Kwatts
Material of moulding die	:	Stainless steel
No. of moulding die sets	:	4 Nos.
Weight of the machine	:	90 Kgs (Approx.)
Floor space needed	:	1.5 * 1.5 Sq. M
Height of the machine	:	1.5 M

Suggested capacity of the fabrication unit: 10 machines per annum

5. Project Economics- Fixed Cost – Working Capital (in Rs.'000)
(Estimate for a model project)

(a)	Land (300Sq. M)	75.00
(b)	Building (200 Sq. M)	800.00
(c)	Principal plant & equipment	1053.00
(d)	Auxiliary equipment	65.00
(e)	Other fixed assets	50.00
	Preliminary/ preoperative expenses	200.00
	Total Fixed Capital	**2243.00**
	Working capital (Margin)	200.00
	Total project cost	**2443.00**

Means of Finance

- Promoters contribution 610.75
- Term loan 1832.25

6. Technology/Manufacturing Process – Availability:

The design drawing for **Moulding machine for besan, soji/ rava and similar laddus** has been developed at CFTRI, Mysore, after taking up sufficient trails on the proto type machine. The CFTRI has the necessary expertise to provide technical assistance and guidance for setting up of fabrication unit of this machine (the facilities can also be used for fabrication of other food processing equipments also). The CFTRI can offer further technical assistance for development and problem solving under technical consultancy arrangements.