

HAND OPERATED LEMON CUTTING MACHINE

1. Introduction:

Manual cutting is laborious and there is absence of device to help in alleviating drudgery without affecting livelihood of labourers. CFTRI has developed technology for instant pickle from lemon, which too looks for a device to cut lemon into eight traditional pieces.

2. Features of the machine:

- The machine can be used to cut lemon into 8 traditional pieces in single stroke by two plain cutting.
- The provision for easy discharge of cut pieces.
- The operation is very easy and needs very less effort.

3. Technical specifications:

Capacity of the machine:	750 lemons/ hour
Diameter range:	25-40 mm

Suggested capacity of the fabrication unit: 80 machines per annum

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

(a)	Land (100M ²)	25.00
(b)	Building (50M ²)	250.00
(c)	Principal plant & equipment	520.00
(d)	Auxiliary equipment	55.00
(e)	Other fixed assets	40.00
	Preliminary/ preoperative expenses	125.00
	Total Fixed Capital	1015.00
	Working capital (Margin)	46.00
	Total project cost	1061.00

Means of Finance

- Promoters contribution	299.75
- Term loan	761.25

4. Technology/Manufacturing Process – Availability:

The design drawing for **hand operated lemon cutting machine** 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.