CENTRAL FOOD TECHNOLOGICAL RESEARCH INSTITUTE, MYSORE

COMPOUNDED ASAFOETIDA

(Process code CPS-1530)

NATURE OF PRODUCT AND ITS APPLICATION

Hing (Ferula alliacea) and Hingra (Ferul foetida) are the two varieties of asafoetida known and recognized in India. With hing, a further distinction is made according to the country of origin, Irani hing from Iran and Pathani Hing from afghanistan. In Irani hing, several varieties are recognised by trade as Irani Ras, Irani Khada, etc. while Pathani Hing include brands like Charas, charasadda, Galmin, Hadda, Kabuli, Kharal, Shabandi etc. These varieties are also classified mostly on the basis of the odoriferous principles.

Compounded asafoetida powder/tablets find use in Indian culinary preparations for flavouring purposes. Since pure asafoetida is not preferred for use in view of the high concentration, it is sold in compounded form. Many indigenous firms are manufacturing the compounded asafoetida in mass/lump forms and marketing the same in our country. However, the product available in the market requires improvement with respect to appearance, storage and uniform quality. Product characteristic are

i) Easy operation in processing techniques and also long storage life.
ii) The product is uniform in quality with respect to moisture, volatile oil content, etc.
iii) It confirms to PFA specifications.
iv) It is convenient to use.
v) Product provide retention of flavour characteristics, ease and convenience with longer shelf-life

There is a good demand for quality compounded asafoetida in the domestic market and as well as in export market. The precise estimate of domestic market for compounded asafoetida is not available. India has been exporting asafoetida to UK, Yemen, Belgium, Kenya, Malaysia, Oman, Switzerland, United Arab Emirates and other countries. The price for the good quality asafoetida in the domestic market varies anywhere between Rs.100 to 500/- per kg. It is estimated that about 3500 tonnes of asafoetida is processed and marketed.

RAW MATERIAL

The basic raw material is important mainly from Iran and Afghanistan countries and processed into powder and tablet form for domestic and export market. Under the present industrial policies there will not be any problem for procurement of raw material by the units set up for production of compounded asafoetida.

PLANT AND MACHINERY

Principal equipments: Mixer, Milling unit and Tableting machine

PROJECT COST – FIXED COST – WORKING CAPITAL (in Rs. '000)
(Estimate for a model project)

a)	Land (600 m^2)	60.00
b)	Building and civil works (150 m^2)	375.00
c)	Plant and machinery	500.00
d)	Miscellaneous fixed assets	150.00
e)	Pre-operative expenses	100.00
	Total fixed capital	1185.00
	Working capital margin	275.00
	Total Project cost	1460.00
	Total working capital required at 15% of turnover	1100.00

Means of Finance

- Promoters contribution	560.00
- Term loan	900.00

PRODUCTION CAPACITY- (estimate)

Suggested economic capacity	: 200 kg/day
Working	: 1 shift/day, 300 working days/year
Capacity	: 60 tonnes/annum
Optimum capacity utilization	: 70%

TECHNOLOGY/MANUFACTURING PROCESS – AVAILABILITY

The technology for processing of raw asafoetida into powder/tablet form has been developed at CFTRI, Mysore, using appropriate equipment for optimal product recovery of right quality. The Institute has the necessary expertise to provide technical assistance and guidance for setting up the project and can offer further technical assistance for implementation, under technical consultancy arrangements.