

BEVERAGES FROM BANANA PSEUDO STEM

INTRODUCTION

Banana is one of the major fruit crops grown in India and with respect to area and production it stands only second to mango. The banana stem called the pseudo stem, is a juicy material rich in fiber. It is one of the various other common foods in some regions of India. It has great medicinal value too. It is available in India as any other vegetable in the markets. Juice from banana stem is a well-known remedy for urinary disorders. It improves the functional efficiency of kidney and liver thereby alleviating the discomforts and diseased condition in them.

The product could be consumed or its medicinal value. Due to its high content of phenolics and tannins its consumption is limited. Its astringent taste could be masked by blending it with suitable fruit juices or spices to render the product palatable.

PROCESS

In this process, banana pseudo stem juice is extracted overcoming the problem of browning. The juice is made palatable by blending it with other fruit juices, fruit juice concentrates. The product has a good shelf life and higher export potential due to the availability of the raw material in large quantities.

MARKET

With the increasing demand for newer and healthier products, the above product has good market potential as it contains banana pseudo stem beverage which has been vouched for many kidney related especially in condition of urolithiasis.

RAW MATERIAL

Banana pseudo stem, sugar, citric acid, ascorbic acid, fruit juices

PLANT & MACHINERY

S.S. Crusher, Steam Jacketed Kettles, Bottle Filling Machine, Bottle Washing Machine, SS Fruit Preparation Tables, Boilers, Weighing Balance, Crown Corking Machine, Saucepans and Trolleys.

PROJECT COST – FIXED COST – WORKING CAPITAL (in Rs. '000)

(Estimate for a model project)

a)	Land & Land development (1000 Sq. m)	400.00
b)	Building and civil works (200 Sq. m)	1000.00
c)	Plant and machinery	1143.00
d)	Other fixed assets	50.00
e)	Pre-operative expenses	314.00
	Total fixed capital	2907.00
	Working capital margin	305.00
	Total Project cost	3212.00

Means of finance

- Promoters contribution	803.00
- Term loan	2409.00

PRODUCTION CAPACITY- (estimate)

Suggested economic capacity:	500 Kg juice/ beverage/ day
Working	: 1 shift/day, 200 working days/ annum
Capacity	: 100 MT /annum

TECHNOLOGY/MANUFACTURING PROCESS – Availability

The technology for the manufacture of Banana Pseudo Stem Juice has been developed at CFTRI, Mysore, using appropriate equipment for optimal product recovery of right quality. The CFTRI has the necessary expertise to provide technical assistance and guidance for setting up the project. The CFTRI can offer further technical assistance for project implementation under technical consultancy arrangements.