

Central Food Technological Research Institute, Mysore

Production of Barley-Seaweed based Anti-obese supplement “SeaSlim”

Introduction

The product is an instant beverage mix with an Indian brown seaweed *Padina tetrastromatica*, which is a rich source of antioxidant bioactives like carotenoids (fucoxanthin), dietary fibers and hydrocolloids. The beverage is prepared by adding the instant mix to boiling water in the ratio of 1:10, stirred well and can be consumed as a health drink. Barley is known for low glycemic index food material aids in managing body weight by reducing the food intake, plasma glucose and adipose lipid level. The product lowers the fat absorption in the small intestine as prepared food formulation contains soluble dietary fiber conferred from *P. tetrastromatica* and barley. Hence, the product can help lowers the risk of obesity and diabetes. The characteristic features of the product is given below:

- The mix can provide an adequate amount of energy, fat, carbohydrate, and protein.
- SeaSlim with a low glycemic index (Low GI-48) can be recommended as a potential food supplement to manage obesity.
- The product can be stored in polypropylene pouches (MET-PET) at room temperature for 5 months.

Raw Materials

The important raw materials required for the preparation of ‘Seaslim’ are: Pearl Barley, Brown seaweed *P. tetrastromatica*, Cumin and Salt.

Plants and Machinery

Principal equipments: Grain Roaster, Hot air drier/tray drier, Hammer Mill, Ribbon Mixer, Colloidal mill, Planetary Mixer, Drum drier, Boiler, Sealing equipment. Unit packaging machine.

Project Cost –FIXED COST – WORKING CAPITAL (in Rs ‘000) (estimate for a model Project)

A) Land and Land Development- (750 m ²)-	187500.00
B) Building and civil construction (250 m ²)-	1875000
C) Plant and Machinery-	4897750
D) Auxiliary Equipment-	610000
E) Other fixed assets-	150000
F) Pre-operative expenses-	987218
G) Working capital margin-	1282885

- H) Total project cost- 9990353
I) Means of finance- (term loan) On 75% of the security available @ 14% per annum. On short term WC Loan @ 14% per annum
J) Promoters Contribution- 7059

Production Capacity- (estimate)

The installed capacity 100kg finished product per shift/day and working for 300 days in a year.
Optimum capacity utilization: 80%

Technology/Manufacturing Process- Availability

CFTRI has standardized the technology and general methods of processing of 'SeaSlim' mix. Apart from this procedure for quality control, Packaging material specification, equipment details are also provided by the institute.

The Manufacturers have to take a license under PFA (Government of India)

For Technology And Technical Assistance Please Contact

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