



SYNOPSIS

SOYA EDIBLE OIL PROCESSING PLANT

PRESPECTIVE:

Soybean has now become the largest source of vegetable oil and protein in the world, and its large-scale cultivation is concentrated in a few countries such as Argentina, Brazil, Canada, China, India, Paraguay, and USA, which together produce about 96% of the world's 200 million MT annual soybean production. The world's average soybean yield has also increased from less than 1 MT / Ha to 2.5 MT / Ha.

Of the total production of soybean in India, 10-12% of it is directly consumed and the rest is crushed to derive soy meal and soy oil. Indian soy meal is considered to be one of the premium soy meals and European and Asian countries prefer to use it other than any soy meal. India export approximately 65% of the total soy meal produced and has turned out to be one of the largest exporter of soy meal usually to the Asian countries. The Indian soy meal is exported to the following countries: -

- South Korea
- Thailand
- Philippines
- Japan

PRICES:

The prices of soybean in the Indian market are highly volatile because they depend on the prices of the international market. As reference markets, the markets at Indore and Mumbai are looked upon. Prices during peak season are in the range of Rs. 16,000 / MT – Rs. 18,000 / MT. The current international price of soy oil is reflected to be US \$1100 / MT-US \$ 1,400/ MT while that of meal is reflected about US \$350 / MT.

**PROCESS:**

The entire extraction process can be divided into the following stages.

1. Preparation of raw material.
2. Process of extraction.
3. De-solventisation of extracted material.
4. Distillation of miscella.
5. Solvent recovery by absorption.
6. Meal finishing and bagging.
7. Oil Refining and Packaging.

PLANT CAPACITY:

Product	Capacity Mt/day	Total days of operation	Total Annual Production (MT)
Soyabean	300	300	90,000
Soy oil	60	300	18,000
Soy meal	240	300	72,000

Note: Process loss's have not been reflected above.

IMPLEMENTATION SCHEDULE:

The implementation schedule is worked out for 12 months specifying the major activities are carried out smoothly and associated formalities are completed in a reasonably short time.

**PROJECT FINANCIAL:**

Total Project cost is estimated to be Rs. 27 – Rs. 30 crores. of this Plant and Machinery cost is expected to be Rs. 18 - Rs. 20 crores. Payable period it of 3 years.

	Figures
Operating Profit – PBIDT (Rs. In Lacs) 3rd Year	1876.02
Profit After Tax (Rs. In Lacs) 7th Year	997.88
Break Even Point (%) 3rd Year	42.31 %
Return on Capital Employed (%) (Average)	37.68 %
Return on Investment (%) (Average)	38.76 %
Payback Period	3 Year

IT SHOULD BE NOTED THAT THE ATTACHED SYNOPSIS ONLY GIVES A PERSPECTIVE ON THE PROJECT AND SHOULD NOT BE USED AS A BASIS FOR PROJECT EXECUTION. TECHNO-ECONOMIC FEASIBILITY STUDY IS RECOMMENDED BEFORE UNDERTAKING PROJECT IMPLEMENTATION.

FOR FURTHER DETAILS PLEASE CONTACT.

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