

Edible Oil Refinery from Crude Palm Oil.

Palm Oil Processing Business.

Crude Palm Oil Refining Plant



Introduction

Palm oil is a fatty edible vegetable oil, yellowish in color, derived from the flesh and the kernel of the fruit of the oil palm tree. The oil palm tree is a tropical, single stemmed tree having feather like leaves that gains a height of around 20 meters. The fruits of this tree, that are also the sources of the palm oil grow in bunches, are reddish in color, bigger than plums in size and have a single seeded kernel inside.



Crude Palm Oil (CPO) is one of the most important edible oil in India. Palm oil is one of the few vegetable oils known to be rather high in saturated fats, and it comes close to soybean oil as one of the most widely-produced vegetable oils in the world.

Crude Palm Oil (palm fruit oil) is the more dominant of the two. It comes from the orange flesh (mesocarp) that surrounds the palm seed of the fruit, and is comprised of approximately 37 percent monounsaturated fat, 50 percent saturated fat, and 9 percent polyunsaturated fat. It is semi-solid at room temperature and reddish in color in its unrefined (crude) state due to the presence of carotenoids and tocotrienols, which the human body converts to vitamin A and vitamin E respectively.

CPO is processed and used widely across food (cooking oil, confectionary, margarines, ice creams and more), pharmaceuticals (anti-ageing and skin healing products), oleochemicals (cleaning and industrial products and lubricants), and energy (as feedstock for biomass production).

Palm oil is edible oil which is extracted from the pulp of fruit of oil palms. The color of pulp is red. That's why crude palm oil is naturally similar to pulp color because of high inactive vitamin A content. It is different from kernel oil or coconut oil. Commonly it is combined or mixed with coconut oil to make highly saturated vegetable fat, which is also used for cooking purposes.



Palm Oil Uses:

Palm oil can be used both as a crude oil as well as in the refined form. Only one quarter of the palm oil and palm kernel oil worldwide is used as a crude oil. In Southeast Asia, Africa and parts of Brazil, crude palm oil is widely used for domestic cooking.



Main usage of CPO is for cooking purposes and is largely used in South-East Asia, West Africa and some parts of Brazil. Commercial kitchens use it due to its low cost. It's not healthy as its counterparts due to high content of saturated fats. Largest producer of CPO is Indonesia, Malaysia, Nigeria and Columbia. They are major exporters of palm oil. India is net importer of Crude Palm Oil and Mumbai being one of the major trading centers. It is also used for making bio diesel and one of its by product is Glycerin.



Crude Palm Oil Refining Process

Crude palm oil refining process is through take off impurity, degumming, decoloring, deodorization, removeing wax, fractionation etc., to achieve different standards edible oil. Crude palm oil refining process is suitable for refining various crude vegetable oil, such as sunflower seed oil, tea seed oil, groundnut oil, cottonseed oil, palm oil, rice bran oil, soybean oil, corn oil and palm oil, etc.

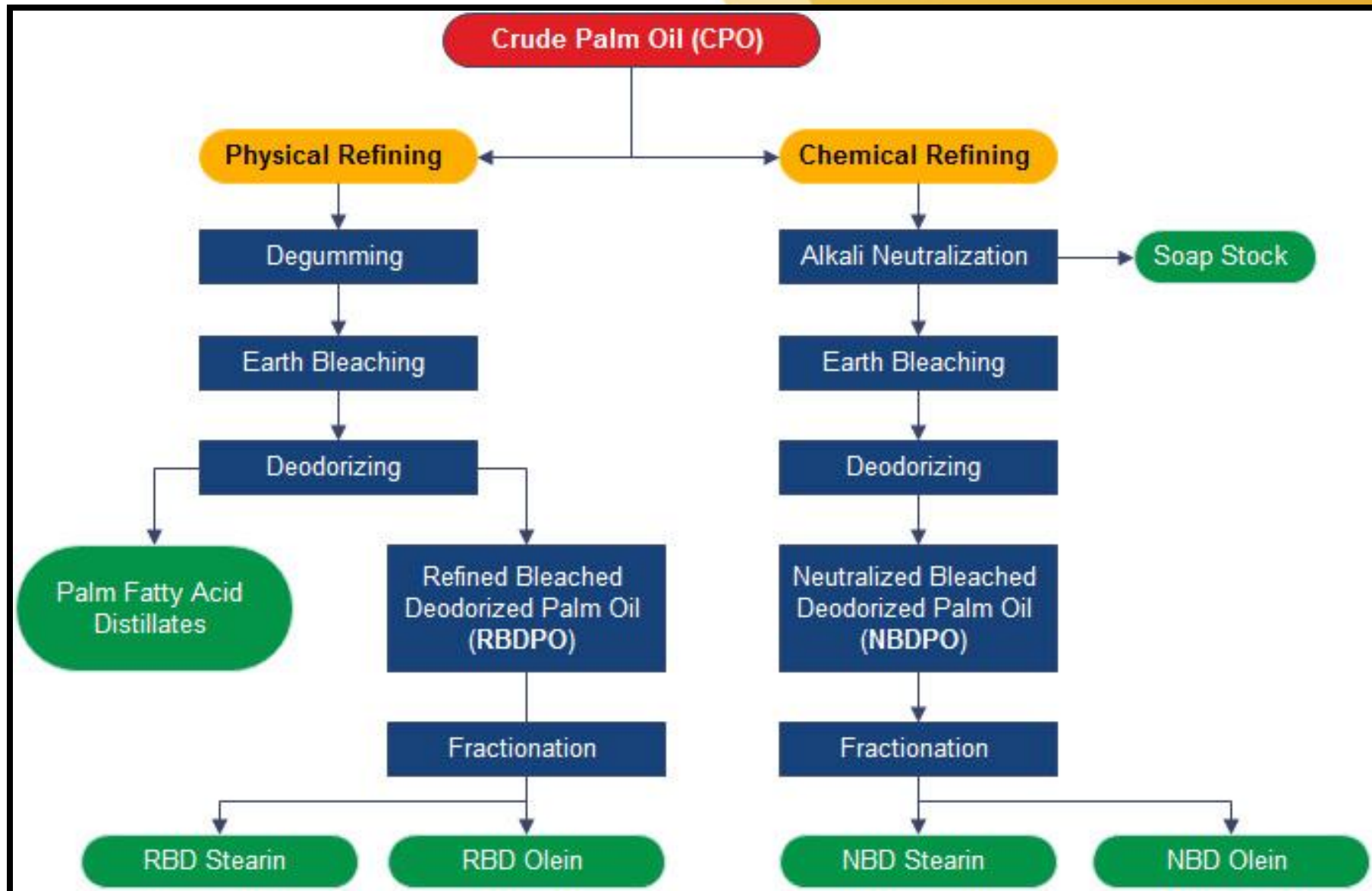
Palm oil refining industries are most important manufacturing sectors in the world and Palm oil has become an increasingly important vegetable oil in the world market and today is the largest traded vegetable oil in the world. Malaysia is the largest producer and exporting company of Crude Palm oil.

Crude Palm oil is obtained from mesocarp part of palm oil. Extracted Crude Palm oil contains some undesirable impurities and these some of the impurities need to be removed partially or completely through the refining process in order to produce good edible oil that have better stability and keepability.

Now a day's Palm oil is popular cooking oil in some tropical countries like South East Asia, Africa, and some parts of Brazil. It is broadly used in other countries because of lower cost and good oxidative stability. Palm oil is used widely for cooking due to its heat resistant property as compared to any other vegetable oil.



Flow Chart: Palm Oil Chemical and Physical Refining Plant



Palm oil physical refining process

Oil physical refining process, also called as oil steam refining. During the degumming section in the palm oil milling plant, the gum will be removed from palm oil by utilizing phosphoric acid or citric acid. Next to bleaching section, the coloring matter and other metal ions will be absorbed or removed. Then, in the deacidification and deodorization section, the crude palm oil will be processed within low pressure and high temperature. Through live steam, the FFA will be stripped off and the odors and colors will be removed or absorbed.



Palm oil chemical refining process

During the palm oil chemical refining process, the FFA will be removed and the neutralized crude palm oil and soap stock will be produced. And the soap stock will be separated from palm oil by using of high-speed separator. And the color pigments and the metal ions will be removed from the neutralized oil. If the crude palm oil contains high carotene, high FFA (more than 5%) and relative low phosphatides, it will be great to have the chemical refining process to reduce the refining losses and the operation costs.



Indian Scenario

India is the largest importer of Crude Palm Oil with an annual average imports of approximately 50 lac MT. India imports bulk of its palm oil requirement from Indonesia. Palm oil being the cheapest among the edible oil segment is widely consumed among the Indian household. Kandla, JNPT, Chennai, Kakinada, Haldia are the major port for imports in India.

India palm oil market size is anticipated to reach USD 13.1 billion by 2025 refined derivatives are widely being utilized in food owing to their lower price in comparison to other conventional edible oils derived from groundnut, soybean and sunflower.

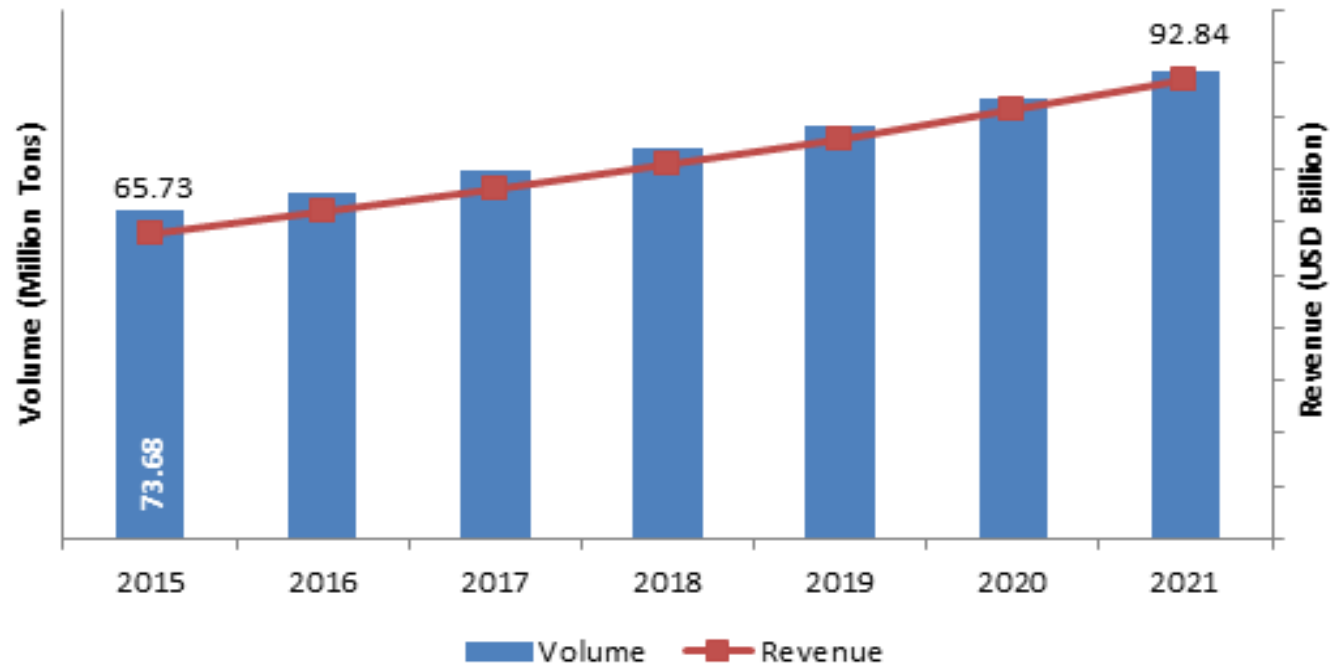
Rapid urbanization, and changing lifestyles backed by increasing disposable income in India have influenced consumption trends of consumers. Increasing consumption in food & beverages and cosmetics industry is a key factor likely to boost overall growth. A positive factor in the Indian production scenario is a significant growth in the acreage, which registered a CAGR of approximately 20% over the past five years.

Crude palm oil was the largest palm oil derivative and accounted for over 75% of total market volume in 2014. Crude palm oil is widely used for cooking purposes. Low price of crude palm oil compared to its counterparts make it the most favorable cooking oil particularly in West Africa and South East Asia. Crude palm oil is also expected to witness the highest growth of 7.5% from 2015 to 2022.

Palm oil derivative segment includes crude palm oil, palm kernel oil, palm kernel cake, and others. The crude oil segment was a leading segment among the other palm oil derivative in the global palm oil market in 2015 owing to growing applications such as edible oil, surfactants, cosmetics, biofuel, and lubricants. On the basis of application, palm oil market is divided into edible oil, cosmetics, biodiesel, lubricants, surfactants and other applications. Edible oil segment is expected to witness strong growth in upcoming years owing health concerns regarding trans-fat consumption.



Global Palm Oil Market, 2015-2021 (Million Tons) (USD Billion)



The global palm oil market is expected to grow with rising global population, increasing biofuels production, increasing fresh fruits bunches yields, accelerating economic growth and growing application in various markets. Key trends of this market includes rising demand for red palm oil, increasing sustainable palm oil production and growing shift towards palm crop transplanting.

One of the key factors resulting in the growth of the global palm oil market is the low prices of palm oil, making it affordable to consumers in emerging economies. Therefore, palm oil is popular and consumed in high volumes in Asian and African countries. The low production cost results in decreased prices for palm oil.

Growing population, economic growth and rising disposable income will drive India's vegetable oil consumption growth, which is expected to grow by three per cent annually to exceed 34 million tonnes by 2030. Increasing income, urbanization, changing food habits and deeper penetration of processed foods will be key drivers of future consumption growth of edible oil in the country.

The global edible oil market is anticipated to witness a substantial growth owing to increasing popularity of unrefined, unprocessed, healthy, and organic oil. In the coming years, vegetable oils with low cholesterol, fat, and calories are likely to gain high response due to growing health awareness among people across the world. In addition, major improvement in retail network, increasing crop yields, oil production, and growing economies are some of the prominent factors supporting the growth of the global edible oil market.

Furthermore, growing popularity of canola oil, trans-fat free soybean oil, and emerging preference for olive oil will drive the global market for edible oil.

The retail segment is expected to drive the sales of edible oils on account of strong supply chain of chain of edible oil products and established chain of retail outlets. Vegetable oil consumption has increased in developing countries due to increasing demand from growing population, surging retail sector, and rise in overall household income. Additionally, manufacturers of edible oils are adopting advanced processing technique to offer healthier and affordable oil. However, they lack in the production of edible oil in comparison with incoming demand.

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Machinery Photographs



Continuous Deodorizing Section



Dry Fractionation



Water Cooling and Pumping



Automatic Edible Oil Packing Machine

Project at a Glance

PROJECT AT A GLANCE				(USD in Thousands)			
COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	2800.00	2800.00	Capital	0.00	1959.50	1959.50
Buildings	0.00	2350.00	2350.00	Share Premium	0.00	0.00	0.00
				Other Type Share			
Plant & Machineries	0.00	1599.05	1599.05	Capital	0.00	0.00	0.00
Motor Vehicles	0.00	150.00	150.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	190.00	190.00	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	100.00	100.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	5878.49	5878.49
Preliminary & Pre-operative Exp	0.00	20.00	20.00	Debentures / Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	150.00	150.00	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	478.93	478.93				
TOTAL	0.00	7837.98	7837.98	TOTAL	0.00	7837.98	7837.98

Project at a Glance

Year	Annualised		Book Value	Debt	Dividend	Retained Earnings		Payout	Probable Market Price	P/E Ratio	Yield Price/Book Value
	EPS	CEPS	Per Share		Per Share	Per Share				No. of Times	
	USD	USD	USD	USD	USD	%	USD	%	USD	s	%
1-2	630.18	907.00	640.18	2400.00	0.00	100.00	630.18	0.00	630.18	1.00	0.00
2-3	907.74	1149.91	1547.92	1800.00	0.00	100.00	907.74	0.00	907.74	1.00	0.00
3-4	1183.10	1395.28	2731.01	1200.00	0.00	100.00	1183.10	0.00	1183.10	1.00	0.00
4-5	1451.70	1637.90	4182.72	600.00	0.00	100.00	1451.70	0.00	1451.70	1.00	0.00
5-6	1712.09	1875.74	5894.81	0.00	0.00	100.00	1712.09	0.00	1712.09	1.00	0.00

Project at a Glance

Year	D. S. C. R.			Debt / - Deposits Debt	Equity as- Equity	Total Net Worth	Return on Net Worth	Profitability Ratio					Assets Turnover Ratio	Current Ratio
	Individual	Cumulative	Overall					GPM	PBT	PAT	Net Contribution	P/V Ratio		
	(Number of times)			(Number of times)		%	%	%	%	%		%		
Initial				3.00	3.00									
1-2	1.33	1.33		1.47	1.47	2.35		13.34%	8.03%	5.36%	6280.24	27.26%	2.17	0.98
2-3	1.64	1.48		0.71	0.71	1.36		14.56%	10.24%	6.62%	7287.31	27.11%	2.30	1.22
3-4	2.01	1.64	2.01	0.32	0.32	0.83		15.39%	11.82%	7.55%	8327.41	27.11%	2.31	1.52
4-5	2.45	1.82		0.12	0.12	0.53		15.96%	12.97%	8.23%	9367.51	27.11%	2.24	1.86
5-6	2.98	2.01		0.00	0.00	0.34		16.34%	13.81%	8.74%	10407.61	27.10%	2.13	2.79

Project at a Glance

BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	45.90%
Total BEP (% of Installed Capacity)	48.98%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	26.48%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	7.183

Major Queries/Questions Answered in the Report?

- 1. What is Edible Oil Refinery industry ?**
- 2. How has the Edible Oil Refinery industry performed so far and how will it perform in the coming years ?**
- 3. What is the Project Feasibility of Edible Oil Refinery Plant ?**
- 4. What are the requirements of Working Capital for setting up Edible Oil Refinery plant ?**

- 5. What is the structure of the Edible Oil Refinery Business and who are the key/major players ?**
- 6. What is the total project cost for setting up Edible Oil Refinery Business?**
- 7. What are the operating costs for setting up Edible Oil Refinery plant ?**
- 8. What are the machinery and equipment requirements for setting up Edible Oil Refinery plant ?**

9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Edible Oil Refinery plant ?

10. What are the requirements of raw material for setting up Edible Oil Refinery plant ?

11. Who are the Suppliers and Manufacturers of Raw materials for setting up Edible Oil Refinery Business?

12. What is the Manufacturing Process of Palm Oil ?

- 13. What is the total size of land required for setting up Edible Oil Refinery plant ?**
- 14. What will be the income and expenditures for Edible Oil Refinery Business?**
- 15. What are the Projected Balance Sheets of Edible Oil Refinery plant ?**
- 16. What are the requirement of utilities and overheads for setting up Edible Oil Refinery plant?**
- 17. What is the Built up Area Requirement and cost for setting up Edible Oil Refinery Business?**

18. What are the Personnel (Manpower) Requirements for setting up Edible Oil Refinery Business?

19. What are Statistics of Import & Export for Palm Oil?

20. What is the time required to break-even of Edible Oil Refinery Business?

21. What is the Break-Even Analysis of Edible Oil Refinery plant?

22. What are the Project financials of Edible Oil Refinery Business?

- 23. What are the Profitability Ratios of Edible Oil Refinery Project?**
- 24. What is the Sensitivity Analysis-Price/Volume of Edible Oil Refinery plant?**
- 25. What are the Projected Pay-Back Period and IRR of Edible Oil Refinery plant?**
- 26. What is the Process Flow Sheet Diagram of Edible Oil Refinery project?**

- 27. What are the Market Opportunities for setting up Edible Oil Refinery plant?**
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Reasons for Buying our Report:

- **This report helps you to identify a profitable project for investing or diversifying into by throwing light to crucial areas like industry size, market potential of the product and reasons for investing in the product**
- **This report provides vital information on the product like it's characteristics and segmentation**
- **This report helps you market and place the product correctly by identifying the target customer group of the product**

- **This report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials**
- **The report provides a glimpse of government regulations applicable on the industry**
- **The report provides forecasts of key parameters which helps to anticipate the industry performance and make sound business decisions**

Our Approach:

- **Our research reports broadly cover Indian markets, present analysis, outlook and forecast for a period of five years.**
- **The market forecasts are developed on the basis of secondary research and are cross-validated through interactions with the industry players**
- **We use reliable sources of information and databases. And information from such sources is processed by us and included in the report**

Scope of the Report

The report titled “Market Survey cum Detailed Techno Economic Feasibility Report on Edible Oil Refinery from Crude Palm Oil.” provides an insight into Edible Oil market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Edible Oil project. The report assesses the market sizing and growth of the Indian Edible Oil Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line. And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:

- **Good Present/Future Demand**
- **Export-Import Market Potential**
- **Raw Material & Manpower Availability**
- **Project Costs and Payback Period**

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in the Edible Oil sector in India along with its business prospects. Through this report we have identified Edible Oil project as a lucrative investment avenue.

Tags

Edible Oil Refinery, Processing and Refining of Edible Oils, Edible Oil Refinery Plant, Edible Oil Refining Process, Vegetable Oil Refining Plant, Edible Oil Plant, Edible Oil Processing, Edible Oil Refinery Process Flow Diagram, Edible Oil Refinery Project Cost, Edible Oil Refining Process PPT, Refining of Edible Oil, Edible Oil Refinery Process Pdf, Edible Oil Processing Plant, Cost of Setting Up a Small and Medium Scale Edible Oil Refinery Plant, Small Scale Oil Refinery, Edible Oil Refinery Project, Project Report on Edible Oil Manufacturing, Investment Opportunity in Edible Oil Manufacturing Unit, Crude Palm Oil Refinery, Palm Oil Refinery Plant, Crude Palm Oil Refining Unit, Palm Oil Refining, Crude Palm Oil Refining Plant, Vegetable Oil Refinery, Palm Oil Refinery in India, Palm Oil Refinery Plant Cost, Palm Oil Processing Plant Cost in India, How to Start a Palm Oil Processing Business? Palm Oil Processing Business, Extraction and Refining of Crude Palm Oil, Crude Palm Oil to Refined Oil, Starting a Palm Oil Processing Unit, Palm Oil Industry, Project Report on Palm Oil Processing Industry, Detailed Project Report on Crude Palm Oil Refining Unit, Project Report on Edible Oil Refinery, Pre-Investment Feasibility Study on Crude Palm Oil Refining Unit, Techno-Economic feasibility study on Crude Palm Oil Refining Unit, Feasibility report on Edible Oil Refinery, Free Project Profile on Crude Palm Oil Refining Unit, Project profile on Edible Oil Refinery, Download free project profile on Edible Oil Refinery

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Our Market Survey cum Detailed Techno Economic Feasibility Report provides an insight of market in India. The report assesses the market sizing and growth of the Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line.



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- **Raw Material & Manpower Availability**
- **Project Costs and Payback Period**

The detailed project report covers all aspect of business, from analyzing the market, confirming availability of various necessities such as Manufacturing Plant, Detailed Project Report, Profile, Business Plan, Industry Trends, Market Research, Survey, Manufacturing Process, Machinery, Raw Materials, Feasibility Study, Investment Opportunities, Cost and Revenue, Plant Economics, Production Schedule,

Working Capital Requirement, uses and applications, Plant Layout, Project Financials, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis. The DPR (Detailed Project Report) is formulated by highly accomplished and experienced consultants and the market research and analysis are supported by a panel of experts and digitalized data bank.

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in India along with its business prospects.....[Read more](http://www.entrepreneurindia.co)



Contact us

NIIR PROJECT CONSULTANCY SERVICES

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Who are we?

- *One of the leading reliable names in industrial world for providing the most comprehensive technical consulting services*
- *We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad*

We at NPCS want to grow with you by providing solutions scale to suit your new operations and help you reduce risk and give a high return on application investments. We have successfully achieved top-notch quality standards with a high level of customer appreciation resulting in long lasting relation and large amount of referral work through technological breakthrough and innovative concepts. A large number of our Indian, Overseas and NRI Clients have appreciated our expertise for excellence which speaks volumes about our commitment and dedication to every client's success.



We bring deep, functional expertise, but are known for our holistic perspective: we capture value across boundaries and between the silos of any organization. We have proven a multiplier effect from optimizing the sum of the parts, not just the individual pieces. We actively encourage a culture of innovation, which facilitates the development of new technologies and ensures a high quality product.



What do we offer?

- *Project Identification*
- *Detailed Project Reports/Pre-feasibility Reports*
- *Market Research Reports*
- *Business Plan*
- *Technology Books and Directory*
- *Industry Trend*
- *Databases on CD-ROM*
- *Laboratory Testing Services*
- *Turnkey Project Consultancy/Solutions*
- *Entrepreneur India (An Industrial Monthly Journal)*

How are we different ?

- *We have two decades long experience in project consultancy and market research field*
- *We empower our customers with the prerequisite know-how to take sound business decisions*
- *We help catalyze business growth by providing distinctive and profound market analysis*
- *We serve a wide array of customers , from individual entrepreneurs to Corporations and Foreign Investors*
- *We use authentic & reliable sources to ensure business precision*

Our Approach

Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation

Contact us

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