



Production of Rice Bran Oil with Rice Mill and Captive Power Plant



(Integrated Unit).



Business Opportunities in Rice Processing Industry

[NPCS/4395/23119]

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Introduction

Rice, edible starchy cereal grain and the plant by which it is produced. Roughly one-half of the world population, including virtually all of East and Southeast Asia, is wholly dependent upon rice as a staple food; 95 percent of the world's rice crop is eaten by humans.

Rice is the most important cereal food crop of India, occupying one-fourth of the gross cropped area of the country. As the basic food crop, rice is cultivated comfortably in hot and humid climate. In the country, the crop is mainly grown as a Kharif crop in rain fed areas that receive heavy annual rainfall.



Rice is the most important staple food crop in India. It provides food for 65% of the population in India. The crop occupies about 37 % of the total cropped area and 44% of the total production of food grains in India. West Bengal is the leading producer of paddy in the country. It accounts for 16.39% of the total production, and the other leading states are Uttar Pradesh (13.38%), Andhra Pradesh (12.24%), Punjab (9.47%), Orissa (7.68%) and Tamil Nadu (7.38%); the remaining states account for 33.45% of the production.



The rice industry in India plays a vital role in the country's agricultural sector — making significant contributions to India's economic growth, foreign exchange earnings and employment rates. Thanks to the country's large growing area and the preferential soil and climate conditions, India is now one of the world's largest rice and basmati rice producers and exporters, representing over 20% of the world's total supply. After suffering two years of financial stress caused by excess paddy supply and weak international demand, India's rice industry, especially basmati rice, is expecting a rebound in 2018 from growing demand and low inventory prices.



India is a major rice producer, consumer, and exporter and continues to be the world's largest rice exporter for the fourth consecutive year. Rice is the most important agricultural crop in India, contributing to more than 40% of the country's total food grain production.

India also has a significant competitive advantage over rice exports in the global market. The country has high-yield, high-quality paddy, low production costs and is known to efficiently execute its contracted businesses from the east coast and west coast ports of India. The rice industry in India has seen a transformation in the last decade, with the growth of branded businesses in the domestic market and a strong impetus to export.

In India, the area where rice grown is called western coastal strip, the eastern coastal strip, covering all the primary deltas, Assam plains and surrounding low hills, foothills and Terai region- along the Himalayas and states. The major rice-growing states in India are West Bengal, Uttar Pradesh, Andhra Pradesh, Punjab, Tamil Nadu, Orissa, Bihar, and Chhattisgarh, which contribute about 72% of the total rice area and 75% of total rice production in the country.

As the dominate food in India, rice is the staple food of the people of the eastern and southern parts of the country. India is one of the largest producer of white and brown rice all over the world, which takes about 10% of the globe rice production. Rice in India is not only the most popular food but a key part for India's national economy. Indian rice industry has developed a strong position in exports, reaching 25% of market share of global trade.

In India, rice processing is the largest agricultural product in the agricultural processing industry. At present its turnover exceeds 3.65 billion rupee per year. India deals with about 85 million tons of paddy fields each year and provides the food and other valuable products needed for the population. With the increasing production of rice, the demand for high quality for rice processing equipment is growing. More than 50% of the recent rice production is processed by modern rice mill plant, 40% from the traditional mill, and the remaining 10% is stamping by hand. Indians are getting more knowledge on modern rice processing steps day by day.



Rice Bran

Rice bran is used for treating diabetes, high blood pressure, high cholesterol, alcoholism, obesity, and AIDS; for preventing stomach and colon cancer; for preventing heart and blood vessel (cardiovascular) disease; for strengthening the immune system; for increasing energy and improving athletic performance; for improving liver function; and as an antioxidant.



One hundred kilogram (100 kg) of paddy rice will generate approximately 5–10 kg of bran. Rice bran is a mixture of substances, including protein, fat, ash, and crude fiber. In many cases, bran contains tiny fractions of rice hull, which increases the ash content of bran. Bran composition is largely dependent on the milling process.

In modern rice mills, several different kinds of bran are produced: coarse bran (from the first whitening step), fine bran (from second whitening step) and polish (from the polishing step). Polish consists of part of the endosperm and is often referred to as meal.



The conventional use of rice bran is as ingredient for animal feeds, in particular ruminants and poultry. In recent years however, advances in stabilization techniques have been made which has led to new uses for bran and its derivatives, most notably bran oil for cooking and waxes for cosmetic products. In the developing countries, rice bran is underutilized due to a lack of suitable stabilization techniques.

India rice bran oil market size was valued over USD 600 million in 2014 and is likely to be worth more than USD 600 million by 2016. India has 1.4 million tons of RBO production potential of which only around 900 kilo tons is only produced. SEA is working on plants to help existing mills to upgrade their production process. Only 300 kilo ton is used for direct consumption and rest is blended with different edibles and is sold in the market. SEA is expected to increase its direct consumption levels in the domestic market by promoting associated health benefits among consumers.

The global rice bran oil market is segmented on the basis of end-user, application, and region. Based on end-user, global rice bran oil market is segmented as industry and direct consumer. Among which industry segment is estimated to account for relatively high-value share, however, consumer segment is expected to expand at a relatively high CAGR in global rice bran oil market, owing to increasing health conscious people across the globe. On the basis of application, the global rice bran oil market is segmented as food and beverages, cosmetics, pharmaceuticals, and others, wherein food and beverages segment has significant revenue share, whereas, pharmaceuticals segment is expected to register significant CAGR, over the forecast period.

The growth of the global rice bran oil market is driven by increasing health consciousness among consumers and growing demand for high nutrition and less fat containing food and beverages. The advantages of rice bran oil including antioxidant, low cholesterol, and hot flashes relief in menopause, is fueling the global rice bran oil market. Macroeconomic factors fueling the global rice bran oil market include growing economy, changing lifestyle, the rapid rate of urbanization, and increasing domestic income. However, less popularity of among rice bran oil people compared to other healthy edible oil is expected to restrain the demand for global rice bran oil market. Some of the factors trending the global rice bran oil market include mergers & acquisitions between rice bran oil market players and its suppliers and high investment in the food industry. Companies operate in the rice bran oil market can increase its share through collaboration with rice bran suppliers, backward integration, and offering organic and gluten-free products in the market.

India Rice Milling Market:

Rice Mill Plant Rice is an essential food for the population of India. India is a large market with a widening middle-income group and an increasing number of double-income households. It holds great potential for the packaged rice segment.

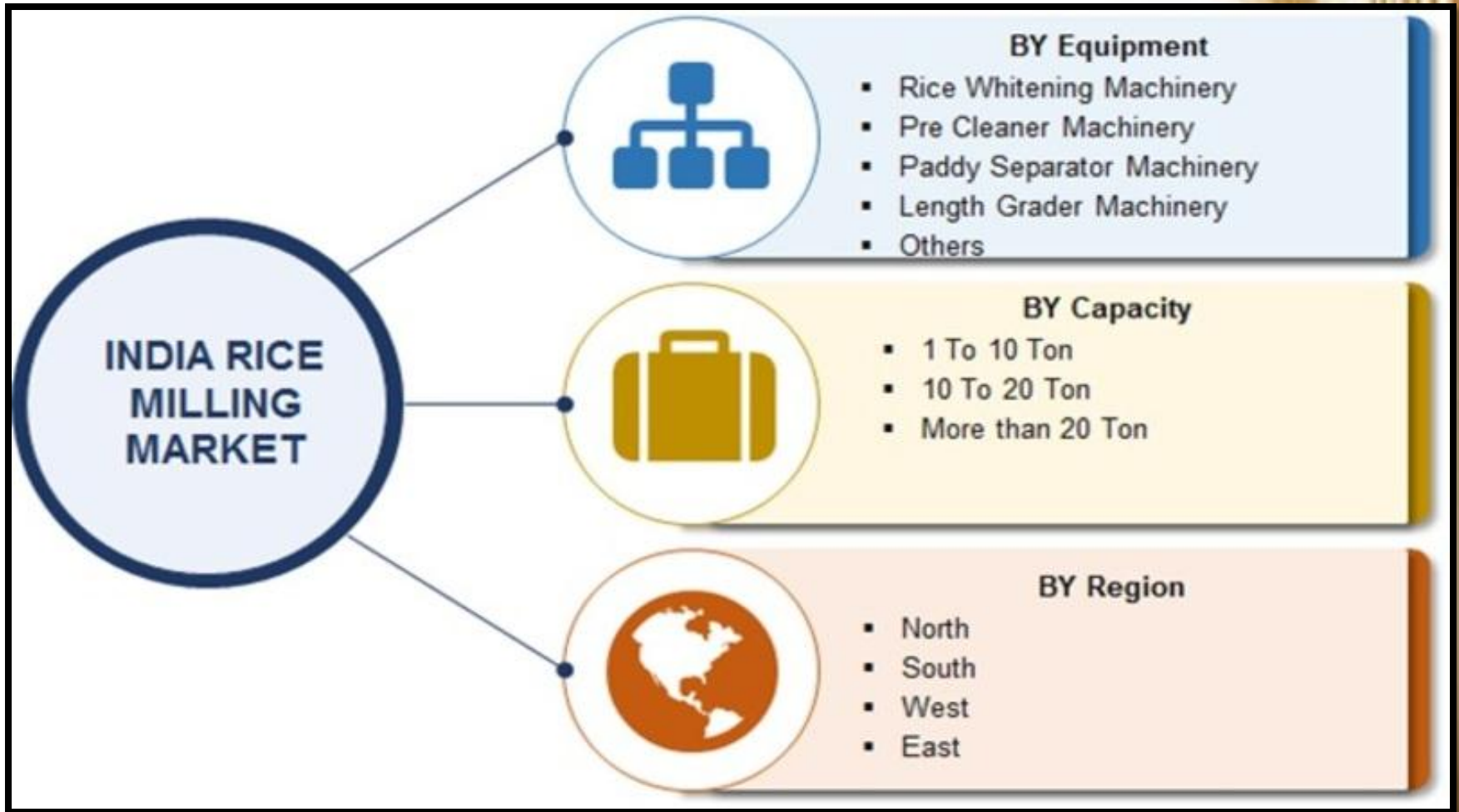
With the growing rice milling market in India, there is seen an increase in the demand of the rice milling machineries across the country. In last few years there has been an increase in the number of foreign players in the rice milling market in the country. The reason lies in the supportive policies and regulations, which promote new rice mills and the government offers various facilities to the new entrants in the market. This has offered flourishing market for the rice milling machinery manufacturers, both the national and international ones.

Furthermore the demographics of the country is such that rice is one of the most sort after food grain in the Indian agriculture. The monsoon and the terrain across the regions of North India, East India and South India supports the rice cultivation of various grades and qualities. However there are few factors such as lack of proper storage and warehousing facilities along with crop failure restraint the market growth.

The India Rice Milling market is expected to reach market size of USD 392.6 million by 2022. It is expected to grow at 3.51% CAGR during the forecast period.



India Rice Milling Market: Segmentation



Captive Power

Captive Power refers to generation from a unit set up by industry for its exclusive consumption. The estimates on captive power capacity in the country vary with the Central Electricity Authority putting the figure at about 11600 MW while industry experts feel that it is much higher, close to 20000 MW.

Captive power plants are a form of distributed generation, generating power close to the source of use. Distributed generation facilitates the high fuel efficiency along with minimising losses associated with the transmission of electricity from centralised power plants.



Industrial sector is one of the largest consumers of electrical energy in India. However, a number of industries are now increasingly relying on their own generation (captive and cogeneration) rather than on grid supply, primarily for the following reasons:

- **Non-availability of adequate grid supply**
- **Poor quality and reliability of grid supply**
- **High tariff as a result of heavy cross- subsidization**



Benefits of captive power plants

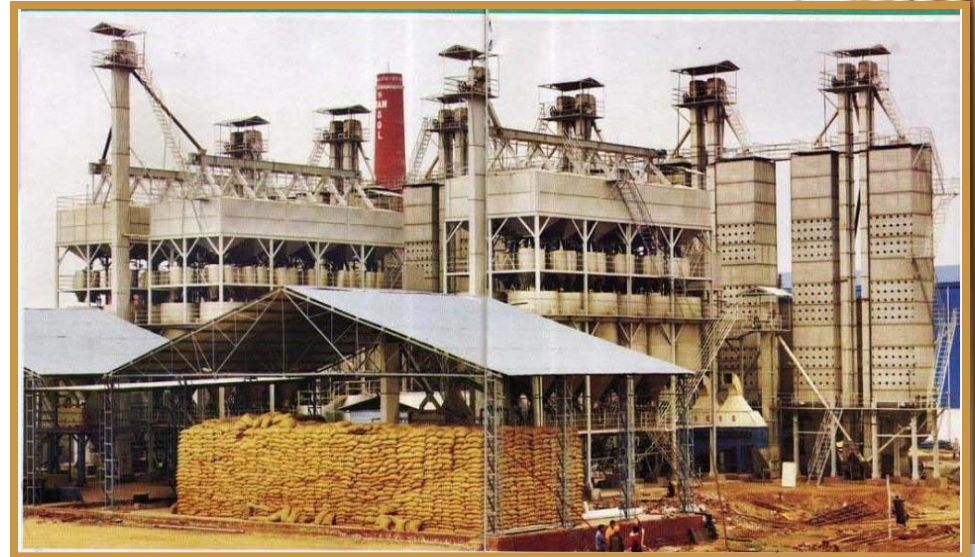
- **Security of power supply through self-generation**
- **Reduced costs through high fuel efficiency, particularly when in CHP configuration**
- **Improved environmental performance resulting from fuel efficiency**

Captive Power refers to generation from a unit set up by industry majorly for its own consumption. It is a power plant set up by any person to generate electricity primarily for his own use and includes a power plant set up by any cooperative society or association of persons for generating electricity primarily for use of members of such cooperative society or association.

Captive Power Generations have been growing at a fairly aggressive pace in India. Industrial sector is one of the largest consumers of electrical energy in India. It consumes about 45.9 percent of total electricity consumption in the country. The demand for electricity in India has been continuously growing with time. Thus, to sustain and excel in the dynamic global environment, it has become imperative for the industries to ensure uninterrupted power supply for performance optimization which has subsequently led to the growth in Captive Power Generations in India.

Captive Power Generation market in India to grow at a CAGR of 4.5 percent over the period 2013-2018.

Machinery Photographs





Project at a Glance

PROJECT AT A GLANCE				(Rs. in lacs)			
COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	792.00	792.00	Capital	0.00	2067.32	2067.32
Buildings	0.00	1369.25	1369.25	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	2390.84	2390.84	Other Type Share Capital	0.00	0.00	0.00
Motor Vehicles	0.00	75.00	75.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	446.00	446.00	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	6201.97	6201.97
Preliminary & Pre-operative Exp	0.00	25.00	25.00	Debentures / Bonds Unsecured	0.00	0.00	0.00
Provision for Contingencies	0.00	240.00	240.00	Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	2831.21	2831.21				
TOTAL	0.00	8269.30	8269.30	TOTAL	0.00	8269.30	8269.30

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				
	Rs	Rs	Rs	Rs	Rs	%	Rs	%	Rs	No.of Times	%
1-2	7.22	10.09	17.22	24.00	0.00	100.00	7.22	0.00	7.22	1.00	0.00
2-3	9.69	12.18	26.91	18.00	0.00	100.00	9.69	0.00	9.69	1.00	0.00
3-4	12.17	14.33	39.08	12.00	0.00	100.00	12.17	0.00	12.17	1.00	0.00
4-5	14.64	16.52	53.72	6.00	0.00	100.00	14.64	0.00	14.64	1.00	0.00
5-6	17.08	18.71	70.79	0.00	0.00	100.00	17.08	0.00	17.08	1.00	0.00



Project at a Glance

Year	D. S. C. R.			Debt / Equity - 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	1.44	1.44		1.39	1.39	3.32		20.18%	11.37%	7.67%	12517.76	64.37%	1.27	1.30
2-3	1.72	1.57		0.67	0.67	2.10		21.20%	13.56%	8.83%	7418.08	32.70%	1.32	1.40
3-4	2.06	1.72	2.06	0.31	0.31	1.43		21.89%	15.16%	9.71%	8306.72	32.04%	1.32	1.53
4-5	2.47	1.88		0.11	0.11	1.03		22.36%	16.34%	10.38%	9195.35	31.52%	1.29	1.66
5-6	2.97	2.06		0.00	0.00	0.78		22.69%	17.22%	10.89%	10083.98	31.11%	1.25	2.01

Project at a Glance

BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	29.43%
Total BEP (% of Installed Capacity)	32.79%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	31.69%
Payback Period of the Project is (In Years)	2 Years 5 Months
Fixed Assets Coverage Ratio (No. of times)	9.910

Major Queries/Questions Answered in the Report?

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

- 5. What is the structure of the Rice Bran Oil Manufacturing Business and who are the key/major players ?**
- 6. What is the total project cost for setting up Captive Power Plant?**
- 7. What are the operating costs for setting up Captive Power Plant ?**
- 8. What are the machinery and equipment requirements for setting up Rice Mill ?**

9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Rice Mill?

10. What are the requirements of raw material for setting up Rice Bran Oil Manufacturing plant ?

11. Who are the Suppliers and Manufacturers of Raw materials for setting up Rice Bran Oil Manufacturing Business?

12. What is the Manufacturing Process of Rice Bran Oil?



- 13. What is the total size of land required for setting up Captive Power Plant?**
- 14. What will be the income and expenditures for Rice Mill?**
- 15. What are the Projected Balance Sheets of Rice Bran Oil Manufacturing plant ?**
- 16. What are the requirement of utilities and overheads for setting up Rice Bran Oil Manufacturing plant?**
- 17. What is the Built up Area Requirement and cost for setting up Captive Power Plant?**

18. What are the Personnel (Manpower) Requirements for setting up Captive Power Plant?

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

20. What is the time required to break-even of Rice Bran Oil Manufacturing Business?

21. What is the Break-Even Analysis of Rice Mill?

22. What are the Project financials of Rice Mill?

- 23. What are the Profitability Ratios of Rice Bran Oil Manufacturing Project?**
- 24. What is the Sensitivity Analysis-Price/Volume of Rice Bran Oil Manufacturing 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 Rice Mill, Rice Bran Oil with Captive Power Plant (Integrated Unit).” provides an insight into Rice Bran Oil market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Rice Bran Oil project. The report assesses the market sizing and growth of the Indian Rice Bran 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 Rice Bran Oil sector in India along with its business prospects. Through this report we have identified Rice Mill, Rice Bran Oil with Captive Power Plant project as a lucrative investment avenue.

Tags

Rice Processing Plant, Rice Mill, Rice Processing, Milling and Processing, Rice Processing Plant Cost, Rice Processing Plant Project Report, Rice Mill Plant, Rice Factory, Paddy Processing, Rice Cultivation, Rice Farming, Rice Production in India, Rice Farming Process, Rice Farming in India, Commercial Rice Farming, Start Rice Farming & Production in India, Rice Bran Oil, Start Your Own Rice Bran Oil Mill Project, Manufacturing Rice Bran Oil, How is Rice Bran Oil Made? I Want to Start a Small Scale Rice Bran Oil Refinery in India, Production of Rice Bran Oil, Rice Bran Oil Extraction Process Pdf, Rice Bran Oil Manufacturing Plant Cost, Rice Bran Oil Extraction Process, Rice Bran Oil Extraction and Production, Rice Bran Oil Production, Rice Bran Oil Manufacturing Plant, Edible Rice Bran Oil, Process for Producing Rice Bran Oil, Rice Bran to Rice Bran Oil, Rice Bran Oil Extraction Plant, Start Your Own Rice Bran Oil Business, Rice Bran Oil Processing Plant, Rice Bran Oil Processing, Rice Mill, Rice Bran Oil with Captive Power Plant, Captive Power Plant for Rice Mill, Project Report on Rice Mill with Power Plant, Project Report on Rice Processing Industry, Detailed Project Report on Rice Bran Oil Extraction, Project Report on Rice Bran Oil Manufacturing, Pre-Investment Feasibility Study on Rice Cultivation, Techno-Economic feasibility study on Rice Bran Oil Extraction, Feasibility report on Rice Bran Oil Manufacturing, Free Project Profile on Rice Bran Oil Manufacturing, Project profile on Rice Cultivation, Download free project profile on Rice Bran Oil Extraction

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NPCS is manned by engineers, planners, specialists, financial experts, economic analysts and design specialists with extensive experience in the related industries.

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.



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**

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](#)



Contact us

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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*
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- *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



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