

# **Orange Juice Manufacturing.**

**Business Ideas in Beverages**

**Industry.**

**Orange Juice Plant with Cold**

**Storage Facility and**

**Captive Power Plant**



# Introduction

**Orange juice is made from the juice of the orange fruit. It is squeezed from the fruit either through commercial mechanical methods, or less complicated methods in the home, such as twisting a half an orange with friction over a juicer to force the juice out of the pulp. Orange juice can be made from concentrate, which involves rehydrating the juice after being dried, which extends the shelf life. It can also be made by concentrating the juice and then adding water. Orange juice is known for its high vitamin C content, which is essential for human health.**



**Fruit juice business is a great opportunity for entrepreneurs trying to start a new business. Changing lifestyle and demand for hygienic and clean fruit juices is creating a growing demand for fresh fruit juices in India. The fresh fruit juice industry in India is largely unorganized and an untapped industry.**

**Fruit Juice business in India is a fast-growing business, because packaged juice is easily available everywhere, and uses the property to be used. Currently, Juice's Per Capita Consumption in India is much less than other countries.**



**Revenue in the Orange Juice segment amounts to US\$10m in 2019. The market is expected to grow annually by 5.7% (CAGR 2019-2021).**

**In global comparison, most revenue is generated in the United States (US\$3,859m in 2019). In relation to total population figures, per person revenues of US\$0.007 are generated in 2019. The average per capita consumption stands at 0.008L in 2019.**



**Within the beverages market, the packaged fruit juice is one of the fastest growing products. It has grown at a CAGR of over 30% over the past decade. At present, the Indian packaged juices market is valued at Rs 1100 crore and is projected to grow at a CAGR of 15% over the next three years. The rising number of health-conscious urban consumers is giving a boost to fruit juices. Juices are healthy only when prepared hygienically. So the hygiene conscious people are only buying packaged fruit juices for the companies that have trusted brand value in the market.**

**Growing affordability and rising disposable income are also responsible for the growing demand of fruit juices in the Indian market.**

**The juice market is growing at a healthy clip across various developing and developed countries. The mounting focus of consumers toward a healthier consumption of fruits and vegetables and recent changes in their dietary habits are the key factors driving the evolution of the juice market. A burgeoning convenience foods segment in emerging regions and increasing awareness about the nutritional benefits of juices have provided a robust fillip to the consumption of packaged fruits juices.**

**The growth of the juice market is governed by a variety of region-specific factors, such as geographical distribution of fruits and vegetables. For instance, the consumer preference toward the consumption of fresh fruits may hamper the demand for fruit juices in some regions.**



**Fruit juices have today become an essential part of human diet and are preferred by all the age groups as they are a good source of instant energy and vital nutrients. Fruit juices can be easily obtained by extracting the pulp of fruits and are generally consumed as a beverage or may be used for flavoring in foods. The global market for fruit juice and nectars was worth 44 Billion Litres in 2015 and is further expected to reach a volume of 50 Billion Litres by 2021.**



**Fruit juice market represents one of the fastest growing sectors and is currently evolving at a fast pace. The global fruit juice market is gaining impetus due to a number of factors. Rising dietary and health concerns among consumers is one the key factors giving a push to the global fruit juice market. Owing to the high nutritional content and refreshing attributes of fruit juices, there has been a major shift in consumer preferences from carbonated drinks to the non-carbonates and natural beverages like fruit juices. Several other factors like population growth, rising disposable incomes, product innovations, premiumization and growing demand from emerging markets are also inducing the growth of the global market for fruit juices.**



**The global fruit juice market is surrounded by some of the top players, namely, Coca Cola, PepsiCo, Tingyi, Huiyuan, Wild, Jugos and Eckles. Coca Cola and PepsiCo represented the biggest global producers of the fruit juices.**



## Cold Storage

**Cold storages are essential for extending the shelf life, period of marketing, avoiding glut, reducing transport bottlenecks during peak period of production and maintenance of quality of produce. The development of cold storage industry has therefore an important role to play in reducing the wastages of the perishable commodities and thus providing remunerative prices to the growers.**

**Indian cold storage market is expected to grow at a CAGR of 16.09% by 2020 driven by the growth in the organized retail, Indian fast food market, food processing industry and e-commerce sectors.**



**The cold storage market in India is highly fragmented with more than 3500 players in the unorganized sector and around 30 players in the organized sector. The cold storage market in India is highly fragmented with more than 3500 players in the unorganized sector and around 30 players in the organized sector.**

**Refrigerated storage market in India which constitutes a minor market share in overall cold storage market in India is expected to grow at a CAGR rate of 15% in the next 5 years.**



**The global cold storage market is anticipated to reach USD 212.54 billion by 2025, growing at a CAGR of 12.4%, according to a new report by Grand View Research, Inc. The retail sector in emerging economies, such as India and China are increasingly getting organized. This trend among others is expected to augment the cold storage market demand over the forecast period. Government policies to de-regulate the entry of foreign player has increased the Foreign Direct Investment (FDI) in the organized retail sector.**



**In organized retailing, the licensed retailers sell products of various categories. Compared to the traditional stores the organized retail stores use better refrigeration and improved storage technology. Consumers are increasingly purchasing frozen foods from the organized retail stores. With the increased demand for the chilled and frozen foods and growth of the organized retail sector the demand for the cold storage market is expected to grow over the projected period. The organized retail supports different outlet formats depending on the proximity from residential and consumption cluster and spending power. The offline mode of the organized retailing is categorized into convenience stores, supermarket, and hypermarket based on the product range and surface coverage.**

## Captive Power Plant

**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 minimizing losses associated with the transmission of electricity from centralized power plants.**

**A captive power plant is a facility dedicated to provide energy for a single user. The user can be an industrial facility or large offices. For example, a steel plant needs power to operate its equipment's, the power to the plant is produced by the captive power plant dedicated to it. The CPP's may operate in grid parallel mode i.e. it can send the surplus power to grid.**

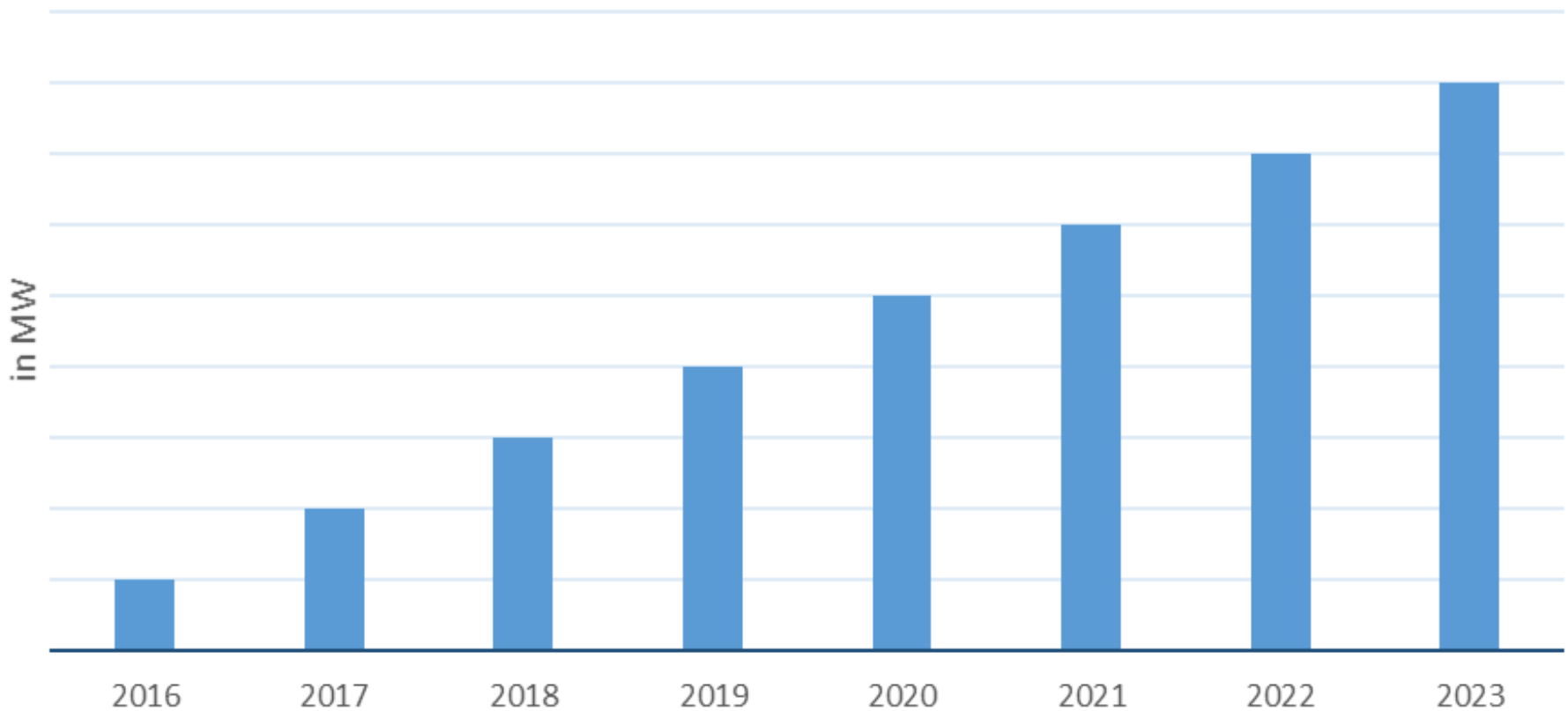


## ***Benefits of captive power plants:***

- **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 plant market is likely to witness steady growth over the course of the forecast period, on account of growing energy demand from small- and medium-scale industries. The specific benefits that captive power plants offer to small industries are likely to boost investments. Self-generation security, combined with high fuel efficiency are likely to provide an impetus to the growth of the captive power plant during the assessment period.**

# Captive Power Plant Market: Installed Capacity and Forecast in MV, Global, 2016-2023



**The major drivers of captive power plants are the needs for reliable power supply at reasonable cost. Generally factories are established near to the sourcing point of raw materials or mines. It is not always that there is a power plant in the vicinity. If the distance is more then, the cost of transmission has to be borne by the user along with added expenses due to technical loss during transmission.**



# Machinery Photographs



**Bag Filter**



**Bulk Aseptic Tanks**





**Cold Storage Machines**



**Solar Module Tester**

# 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	2175.00	2175.00	Capital	0.00	10677.76	10677.76
Buildings	0.00	7362.00	7362.00	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	22920.00	22920.00	Other Type Share Capital	0.00	0.00	0.00
Motor Vehicles	0.00	200.00	200.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	9280.00	9280.00	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	150.00	150.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	42711.06	42711.06
Preliminary & Pre-operative Exp	0.00	5.00	5.00	Debentures / Bonds Unsecured	0.00	0.00	0.00
Provision for Contingencies	0.00	2292.00	2292.00	Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	1004.82	1004.82				
<b>TOTAL</b>	<b>0.00</b>	<b>45388.82</b>	<b>45388.82</b>	<b>TOTAL</b>	<b>0.00</b>	<b>53388.82</b>	<b>53388.82</b>



# 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	s	%
1-2	7.88	12.98	17.88	32.00	0.00	100.00	7.88	0.00	7.88	1.00	0.00
2-3	11.10	15.52	28.90	24.00	0.00	100.00	11.10	0.00	11.10	1.00	0.00
3-4	14.32	18.15	43.30	16.00	0.00	100.00	14.32	0.00	14.32	1.00	0.00
4-5	17.51	20.83	60.82	8.00	0.00	100.00	17.51	0.00	17.51	1.00	0.00
5-6	20.65	23.53	81.47	0.00	0.00	100.00	20.65	0.00	20.65	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				4.00	4.00									
1-2	1.40	1.40		1.79	1.79	2.01		31.97%	22.06%	15.64%	31376.58.34	30	0.94	0.83
2-3	1.65	1.52		0.83	0.83	0.99		35.50%	28.49%	18.89%	36589.58.31	46	1.02	1.43
3-4	1.96	1.66	1.97	0.37	0.37	0.49		37.89%	33.07%	21.33%	41816.58.31	14	1.04	2.18
4-5	2.34	1.81		0.13	0.13	0.23		39.53%	36.41%	23.18%	47042.58.31	82	1.01	3.06
5-6	2.81	1.97		0.00	0.00	0.08		40.64%	38.88%	24.60%	52269.58.31	50	0.96	9.07

# Project at a Glance

## BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	27.43%
Total BEP (% of Installed Capacity)	33.32%
IRR, PAYBACK and FACR	
Internal Rate of Return .. ( In %age )	28.66%
Payback Period of the Project is ( In Years )	2.814 Years
Fixed Assets Coverage Ratio ( No. of times )	2.719

# Major Queries/Questions Answered in the Report?

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

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

**9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Orange Juice Manufacturing plant ?**

**10. What are the requirements of raw material for setting up Orange Juice Manufacturing plant ?**

**11. Who are the Suppliers and Manufacturers of Raw materials for setting up Orange Juice Manufacturing Business?**

**12. What is the Manufacturing Process of Orange Juice?**



**13. What is the total size of land required for setting up Orange Juice Manufacturing plant ?**

**14. What will be the income and expenditures for Orange Juice Manufacturing Business?**

**15. What are the Projected Balance Sheets of Orange Juice 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 Orange Juice Plant.” provides an insight into Orange Juice Plant market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Orange Juice Plant project. The report assesses the market sizing and growth of the Indian Orange Juice Plant 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 Orange Juice Plant sector in India along with its business prospects. Through this report we have identified Orange Juice Plant project as a lucrative investment avenue.**

# Tags

#Orange\_Juice\_Plant, #Orange\_Juice\_Production, How Orange Juice is Made, Processing of Orange Juice, Production Process of Orange Juice, How to Make Orange Juice, Orange Juice Processing,  
#Fruit\_Juice\_Production\_Process\_Pdf, Fruit Juice Processing Flow Chart, Orange Juice Manufacturing Business, Fruit Juice Processing, Production for Orange Juice, Orange Juice, #Starting\_a\_Fruit\_Juice\_Business,  
#How\_to\_Start\_a\_Fruit\_Juice\_Business, Fruit Juice Business, Juicing to Profit: How to Start a Juicing Business, Fruit Juice Business Opportunity, Fruit Juice Manufacture, Beverages & Fruit Juice Processing Plant, Fruit Juice Production Process Pdf, Orange Juice Manufacture, Orange Juice Processing Business, How to Start a Cold Storage Business, Cold Storage Business Plan, Project Report on Orange Juice Manufacturing Industry,  
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**Niir Project Consultancy Services (NPCS)**  
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**Orange Juice Plant with Cold Storage**  
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### ▪ Detailed Project Reports

**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.**

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## **NIIR PROJECT CONSULTANCY SERVICES**

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# **NIIR PROJECT CONSULTANCY SERVICES**

**An ISO 9001:2015 Company**



[www.entrepreneurindia.co](http://www.entrepreneurindia.co)

# 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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