



Opportunities in Beet Sugar Manufacturing Industry Extraction of

Sugar

from Sugar Beet

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Introduction

Sugar is a generic term for sweet-tasting, soluble carbohydrates, which are commonly utilized in food. Sucrose, commonly known as table sugar, granulated sugar, or normal sugar, is a disaccharide consisting of glucose and fructose that has been dubbed the "white death" due to its adverse health effects in its refined form. Sugar cane and sugar beet are the two main crops used to make sugar.



These crops are grown in various parts of the world, depending on the climate, which determines which crop is planted. Sugar beet is a white, parsnip-like taproot that produces sugar in its leaves and stores it in its root through photosynthesis. It contains approximately 16 percent sugar and undergoes an extraction procedure that extracts the sugar from the plant.



Sugar beet can grow in temperate areas, unlike sugar cane, and is hence a more popular alternative to cane in Europe and North

America.







Beet Sugar Processing

1. Harvesting: Sugar cane and sugar beets are usually harvested mechanically from their farms. Before being placed onto trucks and transported to the factory for processing, the gathered plant materials are typically sieved to remove dirt and pebbles. 2. Washing and Initial Preparation: The sugar cane or sugar beets are thoroughly cleansed as soon as they arrive at the factory. Washing might take place on water-sprayed belts or in water-filled flues.





- **3.** Juice Extraction: Sugar cossettes are injected into the tanks' bottoms, which range in height from ten to twenty metres. As the sugar is extracted, a revolving shaft in the centre carries the sugar beet strips upwards against the downward flow of water.
- 4. Purification of Juice: To cleanse and brighten the colour of the cane juice, tall towers of 10 to 20 metres are used. At the top of the tower, the juice is introduced, and at the bottom, sulphur dioxide vapour is delivered. www.entrepreneurindia.co

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- 5. Crystallization: A single-stage vacuum pan is used in the next step of the manufacturing process to evaporate the syrup until it is saturated with sugar crystals, which are generated by a process known as seeding. The seed, which is a milky solution of pure sucrose dissolved in alcohol and glycerin, is slowly added to the syrup.
- **6.***Centrifugation:* The massecuite is placed in a highspeed centrifuge to separate it into sugar crystals and molasses.



- The molasses goes through the lined centrifuge basket and is dragged to the exterior of the centrifuge, where it is extracted and delivered to storage tanks during centrifugation.
- 7. Drying and Packaging: Wet sugar crystals are dried in big hot air dryers to a moisture content of less than 0.02 percent. In a granulator, the sugar is gently tossed through warm air. Vibrating screens are used to separate the dry crystals into different sizes, which are then stored in storage containers.





Market Outlook

The global beet sugar market was valued at US\$ 4.31 billion in 2021, and is expected to reach US\$ 6.34 billion by the end of 2026, growing at a compound annual rate of 5.7 percent between 2021 and 2026. The world market for sugar beet juice extract will rise in response to rising sugar consumption. In the coming years, the Asia-Pacific beet sugar market will grow in importance, particularly in India and Southeast Asia, which are rapidly expanding in China.





From 2020 to 2025, the Asia-Pacific area is expected to grow at the quickest average annual pace of 6.3 percent. In India, China, and other developing countries, the region is expected to give major growth potential for new sectors like as food and spirits. There are various constraints that could stifle the global beet sugar market's expansion. Contamination has a negative impact on sugar beet crop yield, which is one of the key inhibitors.



Sugar extraction from these ill crops might damage the final product's quality, limiting market expansion. The impact of contamination induced by sugar beet crop production may limit the sugar beet market's growth during the forecasted period.



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- 1. Renuka beet sugar
- 2. Michigan Sugar Company
- 3. Syngenta
- 4. Spreckals Sugar Company
- **5. Sidney Sugars Incorporated**
- 6. Amalgamated Sugar Company
- 7. American Crystal Sugar
- 8. The Western Sugar Cooperative
- Southern Minnesota Beet Sugar Cooperative





Machinery Photographs



Evaporation Plant







Pulp Press Machine







Sugar Beet Washer Machine





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COST C	OF PROJECT	Γ	MEANS OF FINANCE					
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total	
Land & Site Development Exp.	0.00	100.00	100.00	Capital	0.00	2366.30	2366.30	
Buildings	0.00	2212.00	2212.00	Share Premium	0.00	0.00	0.00	
Plant & Machineries	0.00	5040.00	5040.00	Other Type Share Capital	0.00	0.00	0.00	
Motor Vehicles	0.00	50.00	50.00	Reserves & Surplus	0.00	0.00	0.00	
Office Automation Equipments	0.00	786.00	786.00	Cash Subsidy	0.00	0.00	0.00	
Technical Knowhow Fees & Exp.	0.00	70.00	70.00	Internal Cash Accruals	0.00	0.00	0.00	
Franchise & Other Deposits	0.00	0.00		Long/Medium Term Borrowings	0.00	7098.90	7098.90	
Preliminary& Pre-operative Exp	0.00	20.00	20.00	Debentures / Bonds	0.00	0.00	0.00	
Provision for Contingencies	0.00	450.00	450.00	Unsecured Loans/Deposits	0.00	0.00	0.00	
Margin Money - Working Capital	0.00	737.20	737.20					
TOTAL	0.00	9465.20	9465.20	TOTAL	0.00	9465.20	9465.20	

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(npcs)

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Year	Annualised		Book Value	Debt	Dividend	Retained Earnings				Payout	Probable Market Price	P/E Ratio	Yield Price/ Book Value
	EPS CEPS		S Per Share		Per Share	are Per Share				No.of Times			
		0210		onare									
	USD	USD	USD	USD	USD	%	USD	%	USD		%		
1-2	555.90	1036.41	565 90	2400.00	0.00	100.00	555.90	0.00	555.90	1.00	0.00		
	000.00	1000.41	000.00	2100.00	0.00	100.00	000.00	0.00	000.00	1.00	0.00		
2-3	871.08	1286.14	1436.99	1800.00	0.00	100.00	871.08	0.00	871.08	1.00	0.00		
3-4	1177.32	1536.20	2614.31	1200.00	0.00	100.00	1177.32	0.00	1177.32	1.00	0.00		
4-5	1467.74	1778.35	4082.05	600.00	0.00	100.00	1467.74	0.00	1467.74	1.00	0.00		
5-6	1738.88	2007.99	5820.93	0.00	0.00	100.00	1738.88	0.00	1738.88	1.00	0.00		
	1700.00	2007.00	0020.00	0.00	0.00	100.00	1700.00	0.00	1100.00	1.00	0.00		



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Year	I	D. S. C.	R.	Debt / - Deposits Debt	Equity as- Equity	Total Net Worth	Return on Net Worth	Profitability Ratio			Assets Turnove Ratio	Current Ratio		
		Cumul ative	Overall					GPM	PBT	PAT	Net Contribu tion	P/V Ratio		
	(Nun	nber of	times)	(Number o	of times)	%	%	%	% % %					
Initial				3.00	3.00									
1-2	1.50	1.5	0	1.54	1.54	2.41		10.21%	6.50%	4.83%	10201.47	37.48%	6 2.18	1.08
2-3	1.84	1.6	6	0.74	0.74	1.38		12.60%	9.67%	6.49%	11884.65	37.43%	6 2.33	1.39
3-4	2.24	1.8	4 2.23	0.33	0.33	0.82		14.17%	11.86%	7.68%	13582.05	37.43%	6 2.34	1.75
4-5	2.69	2.0	3	0.12	0.12	0.51		15.18%	13.35%	8.51%	15279.45	37.43%	6 2.26	2.15
5-6	3.21	2.2	3	0.00	0.00	0.32		15.79%	14.34%	9.07%	16976.85	37.43%	6 2.13	3.27
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BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	57.93%
Total BEP (% of Installed Capacity)	61.68%
Total BEP (% of Installed Capacity)	01.08%

IRR, PAYBACK and FACR

Internal Rate of Return (In %age)	29.56%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	9.718
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Major Queries/Questions Answered in the Report?

- 1. What is Sugar from Sugar Beet Manufacturing industry ?
- 2. How has the Sugar from Sugar Beet Manufacturing industry performed so far and how will it perform in the coming years ?
- 3. What is the Project Feasibility of Sugar from Sugar Beet Manufacturing Plant ?

4. What are the requirements of Working Capital for setting up Sugar from Sugar Beet Manufacturing plant ?



5. What is the structure of the Sugar from Sugar Beet Manufacturing Business and who are the key/major players ?

6. What is the total project cost for setting up Sugar from Sugar Beet Manufacturing Business?

7. What are the operating costs for setting up Sugar from Sugar Beet Manufacturing plant ?

8. What are the machinery and equipment requirements for setting up Sugar from Sugar Beet Manufacturing plant ?



- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Sugar from Sugar Beet Manufacturing plant ?
- 10. What are the requirements of raw material for setting up Sugar from Sugar Beet Manufacturing plant ?
- **11. Who are the Suppliers and Manufacturers of Raw** materials for setting up Sugar from Sugar Beet Manufacturing Business?
- **12. What is the Manufacturing Process of Sugar from Sugar Beet?**





13. What is the total size of land required for setting up Sugar from Sugar Beet Manufacturing plant ?

14. What will be the income and expenditures for Sugar from Sugar Beet Manufacturing Business?

15. What are the Projected Balance Sheets of Sugar from Sugar Beet Manufacturing plant ?

16. What are the requirement of utilities and overheads for setting up Sugar from Sugar Beet Manufacturing plant?

17. What is the Built up Area Requirement and cost for setting up Sugar from Sugar Beet Manufacturing Business?

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18. What are the Personnel (Manpower) Requirements for setting up Sugar from Sugar Beet Manufacturing Business?

- 19. What are Statistics of Import & Export for Sugar from Sugar Beet?
- 20. What is the time required to break-even of Sugar from Sugar Beet Manufacturing Business?
- 21. What is the Break-Even Analysis of Sugar from Sugar Beet Manufacturing plant?
- 22. What are the Project financials of Sugar from Sugar Beet Manufacturing Business?





23. What are the Profitability Ratios of Sugar from Sugar Beet Manufacturing Project?

24. What is the Sensitivity Analysis-Price/Volume of Sugar from Sugar Beet Manufacturing plant?

25. What are the Projected Pay-Back Period and IRR of Sugar from Sugar Beet Manufacturing plant?

26. What is the Process Flow Sheet Diagram Of Sugar from Sugar Beet Manufacturing project?





27. What are the Market Opportunities for setting up Sugar from Sugar Beet Manufacturing plant?

28. What is the Market Study and Assessment for setting up Sugar from Sugar Beet Manufacturing Business?

29. What is the Plant Layout for setting up Sugar from Sugar Beet Manufacturing Business?





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- DISTRICT PROFILE & GEOTECHNICAL SITE CHARACTERIZATION
 - General
 - Federal Capital Territory (FCT)
 - Map
 - Vegetation
 - Administration
 - Climate
 - Economy and Infrastructure
 - Transportation

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2. INTRODUCTION

3.USES

- **4. NUTRITIONAL VALUE**
- **5. SUGAR BEET AND ITS PHYSICAL CHARACTERISTICS**
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 - SUGAR CONSUMPTION
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Equity Capital Preference Share Capital





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- ✓ 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 anticipate the industry performance and make sound business decisions





- 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

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Scope of the Report

The report titled "Market Survey cum Detailed Techno Economic Feasibility Report on Sugar from Sugar Beet." provides an insight into Sugar from Sugar Beet market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Sugar from Sugar Beet project. The report assesses the market sizing and growth of the Indian Sugar from Sugar Beet 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 Sugar from Sugar Beet sector in India along with its business prospects. Through this report we have identified Sugar from Sugar Beet project as a lucrative investment avenue.





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#SugarManufacturing



NIR PROJECT CONSULTANCY SERVICES (NPCS) can provide Detailed Project Report on Production Of Sugar From Sugar Beet



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- 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

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Sectors We Cover

- * Ayurvedic And Herbal Medicines, Herbal Cosmetics
- Alcoholic And Non Alcoholic Beverages, Drinks
- Adhesives, Industrial Adhesive, Sealants, Glues, Gum
 & Resin
- Activated Carbon & Activated Charcoal
- Aluminium And Aluminium Extrusion Profiles & Sections
- Sio-fertilizers And Biotechnology
- Breakfast Snacks And Cereal Food
- Bicycle Tyres & Tubes, Bicycle Parts, Bicycle
 Assembling





Sectors We Cover Cont...

- ***** Bamboo And Cane Based Projects
- Suilding Materials And Construction Projects
- Siodegradable & Bioplastic Based Projects
- Chemicals (Organic And Inorganic)
- Confectionery, Bakery/Baking And Other Food
- Cereal Processing
- Coconut And Coconut Based Products
- Cold Storage For Fruits & Vegetables
- Coal & Coal Byproduct



Sectors We Cover Cont...

- Copper & Copper Based Projects
- Dairy/Milk Processing
- Disinfectants, Pesticides, Insecticides, Mosquito Repellents,
- Sectorical, Electronic And Computer based Projects
- Sessential Oils, Oils & Fats And Allied
- Service States State
- Fibre Glass & Float Glass
- Fast Moving Consumer Goods
- Food, Bakery, Agro Processing





- Fruits & Vegetables Processing
- * Ferro Alloys Based Projects
- Fertilizers & Biofertilizers
- Singer & Ginger Based Projects
- Herbs And Medicinal Cultivation And Jatropha (Biofuel)
- * Hotel & Hospitability Projects
- * Hospital Based Projects
- * Herbal Based Projects
- Inks, Stationery And Export Industries





Sectors We Cover cont...

- ✤ Infrastructure Projects
- Jute & Jute Based Products
- Leather And Leather Based Projects
- Leisure & Entertainment Based Projects
- Livestock Farming Of Birds & Animals
- Minerals And Minerals
- Maize Processing(Wet Milling) & Maize Based
 Projects
- Medical Plastics, Disposables Plastic Syringe,
 Blood Bags
- Organic Farming, Neem Products Etc.



Sectors We Cover Cont...

Sectors We Cover Cont...

- Paints, Pigments, Varnish & Lacquer
- Paper And Paper Board, Paper Recycling Projects
- Printing Inks
- Packaging Based Projects
- Perfumes, Cosmetics And Flavours
- Power Generation Based Projects & Renewable
 Energy Based Projects

Energy Based Projects

- Pharmaceuticals And Drugs
- Plantations, Farming And Cultivations
- Plastic Film, Plastic Waste And Plastic Compounds
- ✤ Plastic, PVC, PET, HDPE, LDPE Etc.





Sectors We Cover cont...

Sectors We Cover cont...

- Potato And Potato Based Projects
- Printing And Packaging
- * Real Estate, Leisure And Hospitality
- Rubber And Rubber Products
- Soaps And Detergents
- Stationary Products
- Spices And Snacks Food
- Steel & Steel Products
- Textile Auxiliary And Chemicals





- * Township & Residential Complex
- Textiles And Readymade Garments
- Waste Management & Recycling
- Wood & Wood Products
- Water Industry(Packaged Drinking Water & Mineral Water)
- Wire & Cable



Research

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- To provide forecasts of key parameters which helps to anticipate the industry performance
- To help chart growth trajectory of a business by detailing the factors that affect the industry growth
- To help an entrepreneur/manager in keeping abreast with the changes in the industry
- To evaluate the competitive landscape of the industry by detailing:
 - □ Key players with their market shares
 - □ Financial comparison of present players





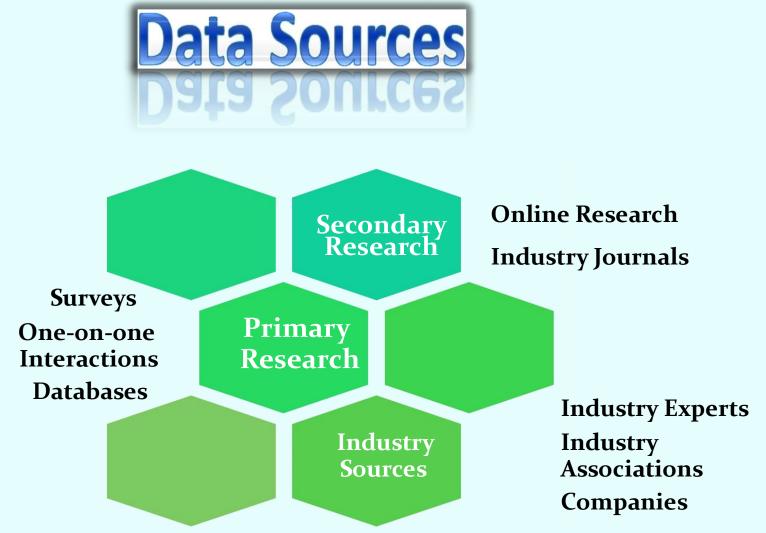


- Venturist/Capitalists
- Entrepreneur/Companies
- Industry Researchers
- Investment Funds
- Foreign Investors, NRI's
- Project Consultants/Chartered Accountants
- Banks
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