

Production of Ethanol from Molasses

Sugar Cane Molasses based Ethanol Industry, Ethanol from Molasses Industry, Spent Wash Treatment

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, Plant Layout, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis

Government working on New Ethanol Policy to Boost Production

In its bid to increase use of ethanol and other alternate fuel for transportation, government will come out with a new ethanol policy focusing on producing more ethanol within a month. Against the present annual demand of about 460 crore litres annually for different purposes, only 250 crore litres is available in the country. Government sources said that in order to meet the 10% blending of ethanol in petrol, at least 260 crore litre is required every year. Another 80 crore litre is required for using them in making chemicals and about 120 crore is needed for distilleries. "But the annual availability is only 250.

Introduction

Ethanol, also known as ethyl alcohol, drinking alcohol or grain alcohol, is a flammable, colorless, mildly toxic chemical compound, and is best known as the alcohol found in alcoholic beverages. Natural energy resources such as petroleum and coal have been consumed at high rates over the last decades. The heavy reliance of the modern economy on these fuels is bound to end, due to their environmental impact (and the corresponding pressure of society) and to the fact that they might eventually run out. Therefore, alternative resources such as ethanol are becoming more important.

In common usage, it is often referred to simply as alcohol. Its molecular formula is variously represented as EtOH, CH₃CH₂OH and C₂H₅OH or as its empirical formula C₂H₆O (which it shares with dimethyl ether). Ethanol can be prepared by the fermentation of molasses. Molasses is the mother liquor left after the crystallization of sugarcane juice. It is a dark coloured viscous liquid.

On industrial scale, ethanol can be prepared by the fermentation of molasses. Molasses is the mother liquor left after the crystallization of sugarcane juice. It is a dark coloured viscous liquid. Molasses contains about 60% fermentable sugar.

Ethanol is a volatile, flammable, clear, colourless liquid. Ethanol is a good solvent. It is also used as a germicide, beverage, antifreeze, fuel, depressant and chemical intermediate. It can be made by the fermentation process of material that contains sugar or from the compound which can be converted to sugar.

The present average alcohol production from molasses in the country is around 2500 million liters per annum. However, wide variation in ethanol production is observed over the last few years, due to the fluctuation in sugarcane production. In India alcohol is largely produced in the form of either i) Rectified Spirit (RS) (95 to 96 % v/v ethanol) which is mainly used for industrial applications in the form of Ordinary Denatured Spirit (ODS) or Special Denatured Spirit (SDS), ii) Extra Neutral Alcohol (ENA) (96 % v/v ethanol) mainly used for manufacture of potable liquors and iii) Fuel Ethanol or Absolute Alcohol (AA) (99.8 % v/v) mainly used for blending with petrol.

Present consumption of ethanol in the potable, Chemical and other sectors (excluding for petrol blending) is about 1800 million liters per annum. Therefore, the net availability of ethanol for Fuel blending is about 700 million liters per annum. However, at the current levels of petroleum consumption, Ethanol requirement for 5% blending is about 1100 million liters per annum and for 10% blending it is 2200 million liters per annum. It is learnt that Oil companies are able to provide about 440 million liters of ethanol as against the 1100 million liters target for the 5% mix.

Growth Drivers

The growth drivers for Fuel Ethanol for blending it with Petrol and diesel are as under:

- Growth of Vehicle population in the country, especially in urban areas.**
- Price of petroleum crude in the international market and its effect on refinery end product prices in domestic market, particularly on prices of Petrol and Diesel to end consumers Vs Ethanol (Power Alcohol) prices in domestic market.**

- **Pressure on state and central governments for making strict laws regarding vehicular emissions.**
- **Governments' policy and commitment to give a cleaner environment to coming generation and reduce CO2 emission level in urban areas to overcome greenhouse effect in these areas.**
- **Demand of Ethanol by other consuming industries including as potable alcohol. The availability of alternate raw materials at cheaper rate for alcohol based chemical industries**

With growing population, rising demand for automobiles, increasing disposable income, environment friendly nature, lower cost compared to the traditional fuel and several benefits offered by ethanol, the demand for global ethanol market is expected to show significant growth during the forecast period and especially in automobile industry.

Few Indian Major Players are as under

Amines & Plasticizers Ltd.

Ammana Bio Pharma Ltd.

Athani Farmers' Sugar Factory Ltd.

Baramati Agro Ltd.

Bhuvan Tripura Inds. Ltd.

Dhampur Sugar Mills Ltd.

Dwarikesh Sugar Inds. Ltd.

Empee Sugars & Chemicals Ltd.

Gangamai Industries & Constructions Ltd.

Godavari Biorefineries Ltd.

H P C L Biofuels Ltd.

Hico Products Ltd.

Jeypore Sugar Co. Ltd.

K M Sugar Mills Ltd.

Natural Sugar & Allied Inds. Ltd.

Parrys Sugar Industries Ltd.

Purti Power & Sugar Ltd.

Radico Khaitan Ltd.

Shree Renuka Sugars Ltd.

Sri Sarvaraya Sugars Ltd.

X L Energy Ltd.

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	200.00	200.00	Capital	0.00	742.93	742.93
Buildings	0.00	759.00	759.00	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	1068.00	1068.00	Other Type Share Capital	0.00	0.00	0.00
Motor Vehicles	0.00	20.00	20.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	611.00	611.00	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	2228.78	2228.78
Preliminary & Pre-operative Exp	0.00	5.00	5.00	Debentures / Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	107.00	107.00	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	101.71	101.71				
TOTAL	0.00	2971.71	2971.71	TOTAL	0.00	2971.71	2971.71



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	4.90	9.26	14.90	24.00	0.00	100.00	4.90	0.00	4.90	1.00	0.00
2-3	7.51	11.33	22.41	18.00	0.00	100.00	7.51	0.00	7.51	1.00	0.00
3-4	10.10	13.45	32.51	12.00	0.00	100.00	10.10	0.00	10.10	1.00	0.00
4-5	12.63	15.57	45.14	6.00	0.00	100.00	12.63	0.00	12.63	1.00	0.00
5-6	15.08	17.67	60.22	0.00	0.00	100.00	15.08	0.00	15.08	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
	Individu al	Cumulati ve	Overall					GPM	PBT	PAT	Net Contrib ution	P/V Ratio		
	(Number of times)			(Number of times)		%	%	%	%	%	%			
Initial				3.00	3.00									
1-2	1.35	1.35		1.61	1.61	1.99		21.05%	12.16%	8.69%	2051.51	49.02%	1.30	0.88
2-3	1.62	1.48		0.80	0.80	1.09		24.09%	17.26%	11.43%	2379.88	48.74%	1.43	1.32
3-4	1.94	1.62	1.94	0.37	0.37	0.60		26.15%	20.88%	13.45%	2719.54	48.74%	1.48	1.85
4-5	2.33	1.78		0.13	0.13	0.32		27.56%	23.49%	14.94%	3059.20	48.73%	1.44	2.47
5-6	2.81	1.94		0.00	0.00	0.15		28.51%	25.38%	16.06%	3398.86	48.73%	1.37	5.24



Project at a Glance

BEP	
BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	42.18%
Total BEP (% of Installed Capacity)	47.84%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	25.10%
Payback Period of the Project is (In Years)	2 Years 4 Months
Fixed Assets Coverage Ratio (No. of times)	4.243

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Ethanol from Molasses
(with Spent Wash Treatment)

See more

<https://goo.gl/3eQ6PX>

<https://goo.gl/tm9ZK1>

<https://goo.gl/1N47Rn>



Major Queries/Questions Answered in the Report?

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

5. What is the structure of the Ethanol from Molasses Business and who are the key/major players ?

6. What is the total project cost for setting up Ethanol from Molasses plant ?

7. What are the operating costs for setting up a Ethanol from Molasses plant ?

8. What are the machinery and equipment requirements for setting up a Ethanol from Molasses plant ?

- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up a Ethanol from Molasses plant ?**
- 10. What are the requirements of raw material for setting up a Ethanol from Molasses plant ?**
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up a Ethanol from Molasses 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 Ethanol from Molasses (with Spent Wash Treatment)” provides an insight into the Ethanol market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Ethanol from Molasses project. The report assesses the market sizing and growth of the Indian Ethanol from Molasses 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 NPCCS, 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 Ethanol from Molasses sector in India along with its business prospects. Through this report we have identified Ethanol from Molasses project as a lucrative investment avenue.

Niir Project Consultancy Services (NPCS)
can provide Detailed Project Report on
Ethanol from Molasses
(with Spent Wash Treatment)

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- *We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad*



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- *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

Who do we serve?

- *Public-sector Companies*
- *Corporates*
- *Government Undertakings*
- *Individual Entrepreneurs*
- *NRI's*
- *Foreign Investors*
- *Non-profit Organizations, NBFC's*
- *Educational Institutions*
- *Embassies & Consulates*
- *Consultancies*
- *Industry / trade associations*

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,*
- *Bio-fertilizers And Biotechnology*
- *Breakfast Snacks And Cereal Food*
- *Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling*



- *Bamboo And Cane Based Projects*
- *Building Materials And Construction Projects*
- *Biodegradable & 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*

- *Copper & Copper Based Projects*
- *Dairy/Milk Processing*
- *Disinfectants, Pesticides, Insecticides, Mosquito Repellents,*
- *Electrical, Electronic And Computer based Projects*
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- *Engineering Goods*
- *Fibre Glass & Float Glass*
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- *Hospital Based Projects*
- *Herbal Based Projects*
- *Inks, Stationery And Export Industries*

- *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.*

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

- *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*

Sectors We Cover Cont...

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

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