Sugar Manufacturing Industry.

Mini Sugar Plant.

Sugarcane Mill.

How Cane Sugar is Processed?

Manufacturing Project of Sugar Mill.
Introduction

Sugar can be produced from sugarcane, sugar-beet or any other crop having sugar content. But in India, sugarcane is the main source of sugar. At present, this is the second largest agro-based industry of India after cotton textile industry. This industry involves a total capital investment of Rs. 1,250 crore and provides employment to 2.86 lakh workers. In addition, 2.50 crore sugarcane growers also get benefit from this industry. India has a long tradition of manufacturing sugar.
Sugar industry is an important agro-based industry that impacts rural livelihood of about 50 million sugarcane farmers and around 5 lakh workers directly employed in sugar mills. India is the second largest producer of sugar in the world after Brazil and is also the largest consumer. Indian sugar industry is a critical industry, as on one hand it services the domestic market, the largest in the world and on the other hand, it supports 50 million farmers and their families. It is the second largest agro based industry in India.
Sugar industry in India occupies a distinctive position in the economic and social fabric of the economy. It is playing a pivotal role especially in the upliftment of the rural economy.

Future Growth of India sugar market is expected to be led by increasing sugarcane yield, rising demand of sugar by the consumers and increasing sugar recovery rate. The sugar industry in India has witnessed a growth in recent years on account of rising number of sugar factories in the country as well as the increasing sugarcane yield in the country.
The surge in growth of the industry is majorly originated from the rising sugar demand by the consumers as well as the institutional sector and also forms the increasing expenditure on food and beverages.

The sugar market in terms of revenues has grown at a CAGR of 5% from FY’2010-FY’2015. The sugar industry is expected to grow at a rate of ~%, doubling its worth to INR ~ lakh Crore by 2018. The sugar market in India will grow at a respectable rate due to the increasing sugarcane yield and dropping sugar prices. The Indian sugar industry that has already started talking of a record sugar production of almost 29-30 million tonnes in the 2018-19 crop marketing year that will start from October next year.
Today Indian sugar industry’s annual output is worth approximately Rs.80, 000 crores. There are 732 installed sugar factories in the country as on 31.07.2017, with sufficient crushing capacity to produce around 339 lakh MT of sugar. The capacity is roughly distributed equally between private sector units and cooperative sector units.

1. Uttar Pradesh
2. Maharashtra
3. Karnataka
4. Tamil Nadu
5. Bihar
6. Gujarat
7. Andhra Pradesh + Telangana
8. Haryana
9. Punjab
10. Uttarakhand
### Sugar (Centrifugal) Producers

<table>
<thead>
<tr>
<th>Rank</th>
<th>Country</th>
<th>Quantity</th>
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<tr>
<td>1</td>
<td>Brazil</td>
<td>37,800</td>
</tr>
<tr>
<td>2</td>
<td>India</td>
<td>26,605</td>
</tr>
<tr>
<td>3</td>
<td>European Union</td>
<td>16,010</td>
</tr>
<tr>
<td>4</td>
<td>China</td>
<td>14,263</td>
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<td>5</td>
<td>Thailand</td>
<td>11,333</td>
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<td>6</td>
<td>United States</td>
<td>7,672</td>
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<tr>
<td>7</td>
<td>Mexico</td>
<td>6,383</td>
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<td>8</td>
<td>Pakistan</td>
<td>5,215</td>
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<tr>
<td>9</td>
<td>Australia</td>
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<tr>
<td>10</td>
<td>Russia</td>
<td>4,400</td>
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## Country-wise Export of Sugar from India

### Selected Country-wise Export of Sugar From India

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<thead>
<tr>
<th></th>
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<tr>
<td>Australia</td>
<td>4006</td>
<td>3970</td>
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<tr>
<td>Belarus</td>
<td>350</td>
<td>315</td>
<td>365</td>
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<tr>
<td>Brazil</td>
<td>23275</td>
<td>26750</td>
<td>25500</td>
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<tr>
<td>Colombia</td>
<td>774</td>
<td>730</td>
<td>605</td>
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<tr>
<td>Cuba</td>
<td>930</td>
<td>1220</td>
<td>1415</td>
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<tr>
<td>Guatemala</td>
<td>2381</td>
<td>2147</td>
<td>2124</td>
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<tr>
<td>India</td>
<td>2377</td>
<td>2700</td>
<td>1500</td>
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<tr>
<td>Mauritius</td>
<td>399</td>
<td>409</td>
<td>415</td>
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<td>Mexico</td>
<td>1585</td>
<td>1565</td>
<td>1660</td>
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<td>Pakistan</td>
<td>711</td>
<td>405</td>
<td>410</td>
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<td>South Africa</td>
<td>387</td>
<td>75</td>
<td>150</td>
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<tr>
<td>Swaziland</td>
<td>660</td>
<td>594</td>
<td>722</td>
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<tr>
<td>Thailand</td>
<td>7792</td>
<td>7950</td>
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<tr>
<td>United Arab Emirat</td>
<td>1551</td>
<td>1730</td>
<td>1945</td>
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## Sugar

### Demand: Past & Future

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<th>mn MT</th>
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<td>1991-92</td>
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<td>2014-15</td>
<td>31.70</td>
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<td>2019-20</td>
<td>37.65</td>
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Machinery Photographs

Sugarcane Crusher
Cane Shredder

Sugarcane Juice clarifier

Micro filtration for Juice
## Project at a Glance

### Project at a Glance

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Existing</th>
<th>Proposed</th>
<th>Total (Rs. in lacs)</th>
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<td><strong>COST OF PROJECT</strong></td>
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<td>Land &amp; Site Development Exp.</td>
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<td>Buildings</td>
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<td>Plant &amp; Machineries</td>
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<td>Motor Vehicles</td>
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<td>Technical Knowhow Fees &amp; Exp.</td>
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<td>Franchise &amp; Other Deposits</td>
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<td>Preliminary &amp; Pre-operative Exp</td>
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<td>Provision for Contingencies</td>
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<td>Margin Money - Working Capital</td>
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<td>60.76</td>
<td>60.76</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td>0.00</td>
<td>2346.76</td>
<td>2346.76</td>
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</table>

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Existing</th>
<th>Proposed</th>
<th>Total (Rs. in lacs)</th>
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<td>Long/Medium Term Borrowings</td>
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<td>Unsecured Loans/Deposits</td>
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<td>Debentures / Bonds</td>
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<td>Loans/Deposits</td>
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<td>0.00</td>
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<td><strong>TOTAL</strong></td>
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## Project at a Glance

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<th>Annualised EPS</th>
<th>CEPS</th>
<th>Book Value Per Share</th>
<th>Debt Per Share</th>
<th>Dividend Per Share</th>
<th>Retained Earnings Per Share</th>
<th>Payout %</th>
<th>Probable Market Price</th>
<th>P/E Ratio</th>
<th>Yield Price/Book Value No. of Times</th>
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# Project at a Glance

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<th>D. S. C. R.</th>
<th>Debt / Deposits Debt</th>
<th>Equity as-Deposits Debt</th>
<th>Total Net Worth</th>
<th>Return on Net Worth</th>
<th>Profitability Ratio</th>
<th>Assets Turnover Ratio</th>
<th>Current Ratio</th>
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<tr>
<td></td>
<td>Individ Cumulative Overall (Number of times)</td>
<td>(Number of times)</td>
<td>%</td>
<td>%</td>
<td>%</td>
<td>%</td>
<td>%</td>
<td>%</td>
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<tr>
<td>Initial</td>
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<td>1-2</td>
<td>1.41 1.41</td>
<td>1.65 1.65</td>
<td>1.94</td>
<td>20.65 %</td>
<td>11.60%</td>
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<td>1.63 1.52</td>
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<td>15.00%</td>
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<td>30.96%</td>
<td>28.64%</td>
<td>18.12%</td>
<td>2351.47</td>
<td>51.58 %</td>
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# Project at a Glance

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<td>BEP - Maximum Utilisation Year</td>
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<tr>
<td>Cash BEP (% of Installed Capacity)</td>
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<tr>
<td>Total BEP (% of Installed Capacity)</td>
<td>44.49%</td>
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<td>IRR, PAYBACK and FACR</td>
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<td>Internal Rate of Return (%)</td>
<td>24.97%</td>
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<tr>
<td>Payback Period of the Project is (In Years)</td>
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<td>Fixed Assets Coverage Ratio (No. of times)</td>
<td>3.835</td>
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</table>
1. What is Sugar Manufacturing industry?

2. How has the Sugar Manufacturing industry performed so far and how will it perform in the coming years?

3. What is the Project Feasibility of Sugar Manufacturing Plant?

4. What are the requirements of Working Capital for setting up Sugar Manufacturing plant?
5. What is the structure of the Sugar Manufacturing Business and who are the key/major players?

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

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

8. What are the machinery and equipment requirements for setting up Sugar Manufacturing plant?
9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Sugar Manufacturing plant?

10. What are the requirements of raw material for setting up Sugar Manufacturing plant?

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

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

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

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

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

17. What is the Built up Area Requirement and cost for setting up Sugar Manufacturing Business?
18. What are the Personnel (Manpower) Requirements for setting up Sugar Manufacturing Business?

19. What are Statistics of Import & Export for Sugar?

20. What is the time required to break-even of Sugar Manufacturing Business?

21. What is the Break-Even Analysis Sugar Manufacturing plant?

22. What are the Project financials of Sugar Manufacturing Business?
23. What are the Profitability Ratios of Sugar Manufacturing Project?

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

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

26. What is the Process Flow Sheet Diagram of Sugar Manufacturing project?
27. What are the Market Opportunities for setting up Sugar Manufacturing plant?

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

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1.1.5. Economy

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3. USES & APPLICATIONS

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3.2. Product Uses & Applications

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4.1. Raw Sugar
4.2. Properties of Sugars
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5.1. Sugar
5.2. Market Structure

6. FINANCIALS & COMPARISON OF MAJOR INDIAN PLAYERS/COMPANIES

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6.2. Profits & Appropriations
6.3. Total Liabilities
6.4. Total Assets
6.5. Net Cash Flow from Operating Activities
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   6.6.2. Name of Director(S)
   6.6.3. Plant Capacity
   6.6.4. Location of Plant
   6.6.5. Name of Raw Material(S) Consumed with Quantity & Cost
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   6.7.1. Assets
   6.7.2. Cash Flow
6.7.3. Cost as % Ge of Sales
6.7.4. Forex Transaction
6.7.5. Growth in Assets & Liabilities
6.7.6. Growth in Income & Expenditure
6.7.7. Income & Expenditure
6.7.8. Liabilities
6.7.9. Liquidity Ratios
6.7.10. Profitability Ratio
6.7.11. Profits
6.7.12. Return Ratios
6.7.13. Structure of Assets & Liabilities (%)
6.7.14. Working Capital & Turnover Ratios

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9.2. Bagasse as Raw Material for Paper and Board

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11. PROCESS OF MANUFACTURE
11.1. Process Flow Diagram

12. CHANCES OF LOSSES IN DIFFERENT SECTION

13. BY-PRODUCTS OF SUGAR INDUSTRY

14. SUPPLIERS OF PLANT & MACHINERY

15. SUPPLIERS OF RAW MATERIAL

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- Production Schedule
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• Working Capital Requirement Per Month ............................ 7
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  Packing Material
  Lab & ETP Chemical Cost
  Consumable Store

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  Utilities & Overheads (Power, Water and Fuel Expenses etc.)
  Royalty and Other Charges
  Selling and Distribution Expenses

- Salary and Wages .......................................................................................... 9

- Turnover Per Annum ...................................................................................... 10

- Share Capital ................................................................................................... 11

  Equity Capital
  Preference Share Capital

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• Annexure 2 :: Profitability and Net Cash Accruals

- Revenue/Income/Realisation
- Expenses/Cost of Products/Services/Items
- Gross Profit
- Financial Charges
- Total Cost of Sales
- Net Profit After Taxes
- Net Cash Accruals
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• This report provides vital information on the product like its characteristics and segmentation.

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

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