Parboiled Rice Milling Plant.
Rice Mill.
Rice Processing
Introduction

Parboiled rice is rice that has been boiled in the husk. Parboiling makes rice easier to process by hand, improves its nutritional profile, and changes its texture. Parboiling rice drives nutrients, especially thiamine, from the bran into the grain, so that parboiled white rice is nutritionally similar to brown rice. Because of this, parboiling was adopted by North American rice growers in the early 20th century. The process of parboiling itself, however, is more than two thousand years old and believed to have originated in the Persian Gulf.
The starches in parboiled rice become gelatinized, making it harder and glassier than other rice. Parboiled rice takes less time to cook, and the cooked rice is firmer and less sticky. In India, parboiled rice is very popular in the southern states. It is preferred for making idlis and dosas, as well as kanji for babies and elders, as it is easier to digest and better in terms of nutrition than raw rice.
The term parboiling (also known as boiling or overheating hydrothermal rice treatment) covers the operation to which the paddy is subjected before milling. Water and heat are the two main elements in the process after steeping followed by heating, which involves the action of steam. The rice must be dried before milling and storage. Rice is one of the most important food crops of India in term of both area, production and consumer preference.
India is the second largest producer and consumer of rice in the world. Modernization of rice mill yield more rice from it, and came with more competition between the rice mill entrepreneurs.

It involve of high capital, and huge investment to start a new rice mill. Even though more rice mills were emerged in southern region of India. Many of the rice processing units are of the semi automatic type. Modern rice mills are having high capacity and are capital intensive.
Few Indian Major Players are as under

- A V I Export (India) Ltd.
- Agrawal Oil Extractions Ltd.
- Ankit India Ltd.
- Arvind Kumar Nand Kumar Ltd.
- B C L Industries & Infrastructures Ltd.
- Daawat Foods Ltd.
- I T C Ltd.
- Infarm Kuthary Co. Ltd.
• Kerala State Civil Supplies Corpn. Ltd.
• Kohinoor Foods Ltd.
• Modern Flour Mills Pvt. Ltd.
• Nagreeka Exports Ltd.
• Navjivan Roller Flour & Pulse Mills Pvt. Ltd.
• North Eastern Regional Agri. Mktg. Corp. Ltd.
• Rei Agro Ltd.
• Sachdeva & Sons Rice Mills Ltd.
• Shakti Bhog Foods Ltd.
• Shakti Bhog Snacks Ltd.

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• Sirohia & Sons Ltd.
• Soubhik Exports Ltd.
• Sri Ramalinga Choodambikai Mills Ltd.
• State Trading Corpn. Of India Ltd.
• Sun Agro Foods & Exports Ltd.
• Sunstar Overseas Ltd.
• Ushodaya Enterprises Pvt. Ltd.
• Victor Foods India Ltd.
## Project at a Glance

### Cost of Project

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Existing</th>
<th>Proposed</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Land &amp; Site Development Exp.</td>
<td>0.00</td>
<td>55.00</td>
<td>55.00</td>
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<tr>
<td>Buildings</td>
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<td>256.80</td>
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<tr>
<td>Plant &amp; Machineries</td>
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<td>677.70</td>
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<tr>
<td>Motor Vehicles</td>
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<td>Office Automation Equipments</td>
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<td>113.50</td>
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<tr>
<td>Technical Knowhow Fees &amp; Exp.</td>
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<td>25.00</td>
<td>25.00</td>
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<tr>
<td>Franchise &amp; Other Deposits</td>
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<td>0.00</td>
<td>0.00</td>
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<tr>
<td>Preliminary &amp; Pre-operative Exp</td>
<td>0.00</td>
<td>5.00</td>
<td>5.00</td>
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<tr>
<td>Provision for Contingencies</td>
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<td>65.00</td>
<td>65.00</td>
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<tr>
<td>Margin Money - Working Capital</td>
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<td>77.76</td>
<td>77.76</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>0.00</strong></td>
<td><strong>1290.76</strong></td>
<td><strong>1290.76</strong></td>
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### Means of Finance

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<tr>
<td>Share Premium</td>
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<tr>
<td>Reserves &amp; Surplus</td>
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<td>Cash Subsidy</td>
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<td>Internal Cash Accruals</td>
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<td>0.00</td>
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<td>Long/Medium Term Borrowings</td>
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<td>968.07</td>
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<tr>
<td>Debentures / Bonds</td>
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<td>0.00</td>
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<tr>
<td>Unsecured Loans/Deposits</td>
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<td>0.00</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>0.00</strong></td>
<td><strong>1290.76</strong></td>
<td><strong>1290.76</strong></td>
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<tr>
<td>Year</td>
<td>Annualised</td>
<td>Book Value</td>
<td>Debt</td>
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<td>------------</td>
<td>------------</td>
<td>------</td>
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<td>Per Share</td>
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<tr>
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<td>Rs</td>
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<td>9.71</td>
<td>14.98</td>
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<tr>
<td>2-3</td>
<td>7.53</td>
<td>11.62</td>
<td>22.51</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>3-4</td>
<td>10.11</td>
<td>13.65</td>
<td>32.62</td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>4-5</td>
<td>12.65</td>
<td>15.72</td>
<td>45.27</td>
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<tr>
<td>5-6</td>
<td>15.14</td>
<td>17.80</td>
<td>60.40</td>
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## PROJECT AT A GLANCE

<table>
<thead>
<tr>
<th>Year</th>
<th>D. S. C. R.</th>
<th>Debt / - Deposits Debt</th>
<th>Equity as - Equity</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>Individual</td>
<td>Cumulative</td>
<td>Overall</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(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>
<td>3.00</td>
<td>3.00</td>
<td>1.40</td>
<td>3.00</td>
<td>1.40</td>
<td>1.60</td>
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<td>0.80</td>
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<tr>
<td>1-2</td>
<td>1.40</td>
<td>1.40</td>
<td>1.60</td>
<td>1.60</td>
<td>2.53</td>
<td>10.68%</td>
<td>5.81%</td>
<td>4.42%</td>
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<tr>
<td>2-3</td>
<td>1.65</td>
<td>1.52</td>
<td>0.80</td>
<td>0.80</td>
<td>1.51</td>
<td>12.33%</td>
<td>8.45%</td>
<td>5.73%</td>
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<tr>
<td>3-4</td>
<td>1.97</td>
<td>1.66</td>
<td>0.37</td>
<td>0.37</td>
<td>0.93</td>
<td>13.45%</td>
<td>10.35%</td>
<td>6.73%</td>
</tr>
<tr>
<td>4-5</td>
<td>2.36</td>
<td>1.81</td>
<td>0.13</td>
<td>0.13</td>
<td>0.59</td>
<td>14.23%</td>
<td>11.73%</td>
<td>7.48%</td>
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<tr>
<td>5-6</td>
<td>2.83</td>
<td>1.98</td>
<td>0.00</td>
<td>0.00</td>
<td>0.38</td>
<td>14.77%</td>
<td>12.74%</td>
<td>8.06%</td>
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</tbody>
</table>

P.V Ratio

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# PROJECT AT A GLANCE

## BEP

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>BEP - Maximum Utilisation Year</td>
<td>5</td>
</tr>
<tr>
<td>Cash BEP (% of Installed Capacity)</td>
<td>43.41%</td>
</tr>
<tr>
<td>Total BEP (% of Installed Capacity)</td>
<td>49.07%</td>
</tr>
</tbody>
</table>

## IRR, PAYBACK and FACR

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Internal Rate of Return .. ( In %age )</td>
<td>26.33%</td>
</tr>
<tr>
<td>Payback Period of the Project is ( In Years )</td>
<td>2 Years 3 Months</td>
</tr>
<tr>
<td>Fixed Assets Coverage Ratio ( No. of times )</td>
<td>9.208</td>
</tr>
</tbody>
</table>
Table of Contents of the Project Report
1. District Profile & Geotechnical Site Characterization

1.1. Geography
1.2. Climate
1.3. Map
1.4. Economy
1.5. Culture
1.6. Administration
1.7. Transportation

2. Introduction
3. History
3.1. Varieties, Grading And Quality Of Rice

4. Properties

5. Uses And Applications

6. Type Of Rice Mill

7. B.I.S Specification
8. Market Survey
8.1. India’s Rice Production And Area Under Cultivation
8.2. Global Production
8.3. India’s Major Export Destinations For Basmati As Well As Non-basmati Rice
8.4. State Wise Basmati Rice Production

9. Financials & Comparison Of Major Indian Players/Companies
9.1. About Financial Statements Of Cmie Database
9.2. Profits & Appropriations
9.3. Total Liabilities
9.4. Total Assets
9.5. Net Cash Flow From Operating Activities
9.6. Section – I
   9.6.1. Name Of Company With Contact Details
   9.6.2. Name Of Director(s)
   9.6.3. Plant Capacity
   9.6.4. Location Of Plant
   9.6.5. Name Of Raw Material(s) Consumed With Quantity & Cost

9.7. Section – II
   9.7.1. Assets
   9.7.2. Cash Flow
   9.7.3. Cost as % Ge of Sales
   9.7.4. Forex Transaction
9.7.5. Growth in Assets & Liabilities
9.7.6. Growth in Income & Expenditure
9.7.7. Income & Expenditure
9.7.8. Liabilities
9.7.9. Liquidity Ratios
9.7.10. Profitability Ratio
9.7.11. Profits
9.7.12. Return Ratios
9.7.13. Structure of Assets & Liabilities (%)

10. Export & Import Statistics Data Of India
10.1. Export Statistics Data For Parboiled Rice
10.2. Import Statistics Data For Parboiled Rice
11. Present Manufacturers

12. Rice Milling Process

13. Modern Parboiling Processes


15. Characteristics Of A Good Machine
16. Treatment Of Rice Mill Effluents For Pollution Control

16.1. Material And Methods

17. Suppliers Of Plant & Machinery

18. Suppliers Of Raw Material

19. Product, Machinery & Raw Material Photographs
20. Plant Layout

21. Quotation Of Plant, Machinery And Equipments From Supplier
Project Financials

• Project at a Glance

Annexure

• Assumptions for Profitability workings ............................................. 1
• Plant Economics.................................................................................. 2
• Production Schedule........................................................................ 3
• Land & Building.................................................................................. 4

Factory Land & Building
Site Development Expenses

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- **Plant & Machinery**
  - Indigenous Machineries
  - Other Machineries (Miscellaneous, Laboratory etc.)

- **Other Fixed Assets**
  - Furniture & Fixtures
  - Pre-operative and Preliminary Expenses
  - Technical Knowhow
  - Provision of Contingencies

- **Working Capital Requirement Per Month**
  - Raw Material
  - Packing Material
  - Lab & ETP Chemical Cost
  - Consumable Store
• Overheads Required Per Month and Per Annum.................................8
  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 1 :: Cost of Project and Means of Finance

• 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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• Annexure 3 :: Assessment of Working Capital requirements
  ▪ Current Assets
  ▪ Gross Working Capital
  ▪ Current Liabilities
  ▪ Net Working Capital
  ▪ Working Note for Calculation of Work-in-process

• Annexure 4 :: Sources and Disposition of Funds
• Annexure 5 :: Projected Balance Sheets
  - ROI (Average of Fixed Assets)
  - RONW (Average of Share Capital)
  - ROI (Average of Total Assets)

• Annexure 6 :: Profitability Ratios
  - D.S.C.R
  - Earnings Per Share (EPS)
  - Debt Equity Ratio
• Annexure 7 :: Break-Even Analysis

- Variable Cost & Expenses
- Semi-Variable/Semi-Fixed Expenses
- Profit Volume Ratio (PVR)
- Fixed Expenses / Cost
- B.E.P
• Annexure 8 to 11 :: Sensitivity Analysis-Price/Volume

- Resultant N.P.B.T
- Resultant D.S.C.R
- Resultant PV Ratio
- Resultant DER
- Resultant ROI
- Resultant BEP
• **Annexure 14** :: Product wise Domestic Sales Realisation

• **Annexure 15** :: Total Raw Material Cost

• **Annexure 16** :: Raw Material Cost per unit

• **Annexure 17** :: Total Lab & ETP Chemical Cost

• **Annexure 18** :: Consumables, Store etc.

• **Annexure 19** :: Packing Material Cost

• **Annexure 20** :: Packing Material Cost Per Unit
• Annexure 21 :: Employees Expenses
• Annexure 22 :: Fuel Expenses
• Annexure 23 :: Power/Electricity Expenses
• Annexure 24 :: Royalty & Other Charges
• Annexure 25 :: Repairs & Maintenance Expenses
• Annexure 26 :: Other Manufacturing Expenses
• Annexure 27 :: Administration Expenses
• Annexure 28 :: Selling Expenses
- Annexure 29 :: Depreciation Charges – as per Books (Total)
- Annexure 30 :: Depreciation Charges – as per Books (P & M)
- Annexure 31 :: Depreciation Charges - as per IT Act WDV (Total)
- Annexure 32 :: Depreciation Charges - as per IT Act WDV (P & M)
- Annexure 33 :: Interest and Repayment - Term Loans
- Annexure 34 :: Tax on Profits
- Annexure 35 :: Projected Pay-Back Period and IRR
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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.

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- 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.
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2. Thorough analysis of the project
3. Economic feasibility study of the Project
4. Market potential survey/research
5. Report Compilation
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