

Rice Mill

(Parboiled Rice) –

Market Survey cum Detailed Techno Economic Feasibility Project Report

Introduction

Parboiled rice, popularly known as ushna rice in boiled form. India contributes about one-third of the world acreage under rice. Rice is available in over 5000 varieties, of which Izong rice of Assam occupies a important position on account of its superfine grains, pleasant, fine cooking quality, sweet taste, soft texture.



This article reviews the quality and traits of Ilong rice, particularly the varieties grown in different parts of Assam and North Eastern Region. Parboiling is preliminary to hulling in which the rough paddy is first soaked, then steamed and dried before removing the hulls. There are many advantages of parboiling the paddy. It reduces grain breakage during milling, greatly improves the vitamins content and other nutrients in the polished rice grain, increases the oil content in the bran, and changes the cooking and eating quality of the rice and infestation during storage.

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.

- 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

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	55.00	55.00	Capital	0.00	322.69	322.69
Buildings	0.00	256.80	256.80	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	677.70	677.70	Other Type Share Capital	0.00	0.00	0.00
Motor Vehicles	0.00	15.00	15.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	113.50	113.50	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	25.00	25.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	968.07	968.07
Preliminary& Pre-operative Exp	0.00	5.00	5.00	Debentures / Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	65.00	65.00	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	77.76	77.76				
TOTAL	0.00	1290.76	1290.76	TOTAL	0.00	1290.76	1290.76

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	Per Share				No.of Times	
	Rs	Rs	Rs	Rs	Rs	%	Rs	%	Rs		%
1-2	4.98	9.71	14.98	24.00	0.00	100.00	4.98	0.00	4.98	1.00	0.00
2-3	7.53	11.62	22.51	18.00	0.00	100.00	7.53	0.00	7.53	1.00	0.00
3-4	10.11	13.65	32.62	12.00	0.00	100.00	10.11	0.00	10.11	1.00	0.00
4-5	12.65	15.72	45.27	6.00	0.00	100.00	12.65	0.00	12.65	1.00	0.00
5-6	15.14	17.80	60.40	0.00	0.00	100.00	15.14	0.00	15.14	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 Contribut ion	P/V Ratio		
	(Number of times)			(Number of times)		%	%	%	%	%		%		
Initial				3.00	3.00									
1-2	1.40	1.40		1.60	1.60	2.53		10.68%	5.81%	4.42%	918.16	25.25%	2.16	1.01
2-3	1.65	1.52		0.80	0.80	1.51		12.33%	8.45%	5.73%	1063.18	25.06%	2.35	1.26
3-4	1.97	1.66	1.98	0.37	0.37	0.93		13.45%	10.35%	6.73%	1214.87	25.06%	2.41	1.55
4-5	2.36	1.81		0.13	0.13	0.59		14.23%	11.73%	7.48%	1366.56	25.06%	2.37	1.87
5-6	2.83	1.98		0.00	0.00	0.38		14.77%	12.74%	8.06%	1518.26	25.05%	2.27	2.79

PROJECT AT A GLANCE

BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	43.41%
Total BEP (% of Installed Capacity)	49.07%

IRR, PAYBACK and FACR

Internal Rate of Return .. (In %age)	26.33%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	9.208

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

7.1. Is 12792 (1989): Agricultural Produce Milling Machinery - Mini Rice Mill [Fad 20: Agriculture And Food Processing Equipments]

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 (%)
- 9.7.14. Working Capital & Turnover Ratios

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**
- 14. Process Flow Diagram**
- 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 workings1
- Plant Economics.....2
- Production Schedule.....3
- Land & Building.....4
 - Factory Land & Building
 - Site Development Expenses

- Plant & Machinery.....5
 - Indigenous Machineries
 - Other Machineries (Miscellaneous, Laboratory etc.)
- Other Fixed Assets.....6
 - Furniture & Fixtures
 - Pre-operative and Preliminary Expenses
 - Technical Knowhow
 - Provision of Contingencies
- Working Capital Requirement Per Month.....7
 - 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 Wages9
- Turnover Per Annum10
- Share Capital.....11
 - Equity Capital
 - Preference Share Capital

- **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**

- **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**

Niir Project Consultancy Services (NPCS)
can provide Detailed Project Report on
Rice Mill (Parboiled Rice)

See more

<http://goo.gl/kX2thG>

Visit us at

www.entrepreneurindia.co



**Take a look at
NIIR PROJECT CONSULTANCY SERVICES
on #Street View**

<https://goo.gl/VstWkd>

Locate us on Google Maps

<https://goo.gl/maps/BKkUtg9gevT2>

Niir PROJECT CONSULTANCY SERVICES

An ISO 9001:2008 Company



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*



What do we offer?

- *Project Identification*
- *Detailed Project Reports/Pre-feasibility Reports*
- *Market Research Reports*
- *Technology Books and Directory*
- *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

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*



Sectors We Cover Cont...

- *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*

Sectors We Cover Cont...

- *Copper & Copper Based Projects*
- *Dairy/Milk Processing*
- *Disinfectants, Pesticides, Insecticides, Mosquito Repellents,*
- *Electrical, Electronic And Computer based Projects*
- *Essential Oils, Oils & Fats And Allied*
- *Engineering Goods*
- *Fibre Glass & Float Glass*
- *Fast Moving Consumer Goods*
- *Food, Bakery, Agro Processing*

Sectors We Cover Cont...

- *Fruits & Vegetables Processing*
- *Ferro Alloys Based Projects*
- *Fertilizers & Biofertilizers*
- *Ginger & Ginger Based Projects*
- *Herbs And Medicinal Cultivation And Jatropha (Biofuel)*
- *Hotel & Hospitality 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...

- *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.*

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*

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*



Niir Project Consultancy Services

106-E, Kamla Nagar, New Delhi-110007, India.

Email: npcs.ei@gmail.com , info@entrepreneurindia.co

Tel: +91-11-23843955, 23845654, 23845886

Mobile: +91-9811043595

Fax: +91-11-23841561

Website : www.entrepreneurindia.co

Take a look at NIIR PROJECT CONSULTANCY SERVICES on #StreetView

<https://goo.gl/VstWkd>



Follow us



➤ <https://www.linkedin.com/company/niir-project-consultancy-services>



➤ <https://www.facebook.com/NIIR.ORG>



➤ <https://www.youtube.com/user/NIIRproject>



➤ <https://plus.google.com/+EntrepreneurIndiaNewDelhi>



➤ https://twitter.com/npcs_in



➤ <https://www.pinterest.com/npcsindia/>





For more information, visit us at:

www.entrepreneurindia.co