

# **Rice Bran Oil**

## *(Solvent Extraction Unit)*

**Study on Rice Bran Oil Extraction and Production,  
Rice Bran Oil-An Important Future Source for  
Edible Oils, Indian Rice Bran Oil Industry**

**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**

# Introduction

Rice is an important food crop. Rice bran is a by-product resulting from the processing of rice. It is the main source of rice oil. The majority of available bran continues to be used for animal feeds without being extracted for the oil. Rice oil, also called rice bran oil, has been used extensively in Asian countries. Rice bran oil is extremely light, versatile and delicious.





Used to fry, sauté, salad dressings, baking, dipping oils and where ever you use cooking oil. It is amazing cooking oil- light, healthy and also best in taste. The crude bran oil can also be used for manufacture of soap, emulsifiers, fatty acid, plasticisers, cosmetics and tocoferol (vitamin E) etc.



India produces about 80 million tonnes of paddy annually. This can yield about 5 million tonnes of rice bran and to the extent of 8 lakhs tonnes of rice bran oil. Production of rice bran oil is currently estimated at about 2 lakhs tonnes and hardly 10–15 per cent of it is of edible grade, although the potential availability is reckoned at about 8 lakhs tonnes. The wide gap between the actual production and the potential availability of rice bran oil is primarily due to the fact that at present around 70 per cent of the paddy produced in the country is processed through huller mills while only 30 percent is processed by modern Sheller mills.



India's rice bran oil extraction units, dominated by SMEs, have reason to smile. Increase in domestic demand and the government decision's, taken last year, to remove the quantitative ceiling of 20,000 tonnes on export of branded consumer packs of up to five kg of edible bran oil, have combined to boost the industry's prospects. Rice bran oil is exported to the United States, Australia, Sri Lanka and China, among other countries.

India rice bran oil market size was valued over USD 600 million in 2014 and is likely to be worth more than USD 600 million by 2016. India has 1.4 million tons of RBO production potential of which only around 900 kilo tons is only produced.

SEA is working on plants to help existing mills to upgrade their production process. Only 300 kilo ton is used for direct consumption and rest is blended with different edibles and is sold in the market. SEA is expected to increase its direct consumption levels in the domestic market by promoting associated health benefits among consumers.

Increasing consumer health consciousness from edible oils to reduce cholesterol levels is likely to support rice bran oil market growth up to 2023. It is globally promoted as premium product with anti-oxidant properties and is available at competitive prices in comparison to olive oil.

It is also considered to have an optimal balance of MUFA and PUFA which is expected to increase shelf life than that of sunflower refined products.

Rice bran oil is gaining popularity not only in food and nutritional supplements, but also as a specialty ingredient in cosmetics and personal care products. Various studies have shown that rice bran oil has beneficial properties for skin and hair. For instance, rice bran oil can be beneficial to treat itching of skin and used as an anti-dandruff agent in the production of cosmetics. Similarly, vitamin E present in it reduces the tissue oxidation of skin resulting in slow ageing of the skin and making it look more healthy and beautiful.



# Few Indian Major Players are as under

- A G Fats Ltd.
- Agrawal Oil Extractions Ltd.
- Agro Tech India Ltd.
- Balaji Agro Oils Ltd.
- Bharani Oils Ltd.
- Boppana Oils Ltd.
- Cethar Foodoil Ltd.
- Chaitanya Oils Ltd.
- Globus Industries & Services Ltd.
- Goa Agro Oil Ltd.
- Godavari Edible Bran Oil Ltd.
- J R Foods Ltd.
- J S P Oils & Fats Ltd.
- K G N Agro Internationals Ltd.
- Kanakadurga Agro Oil Products Ltd.
- Kedia Overseas Ltd.

- Lakshmi Energy & Foods Ltd.
- Malwala Oils Ltd.
- Midland Industries Ltd.
- Modi Naturals Ltd.
- Morinda Overseas Inds. Ltd.
- Neha Oils Ltd.
- Patliputra Industries Ltd.
- Prakash Solvent Extractions Ltd.
- Raghunath Cotton & Oil Products Ltd.
- Ravindra Solvent Oils Ltd.
- Rice Oil & Foods Ltd.
- S K M Animal Feeds & Foods (India) Ltd.
- Sambandam Solvent Extraction Ltd.
- Satyakala Agro Oil Products Ltd.
- Sethia Oil Inds. Ltd.
- Sethia Oils Ltd.

- Shanti Kunj Solvent Ltd.
- Shree Madhav Edible Products Ltd.
- Shree Shakthi Agro Oils Ltd.
- Siddaganga Oil Extractions Pvt. Ltd.
- Siris Agro Ltd.
- Sona Oil & Chemical Inds. Ltd.
- Sonitpur Solvex Ltd.
- Sree Tulasi Solvent Extractions Ltd.
- Sri Murugarajendra Oil Industry Ltd.
- Srihitha Refineries Ltd.
- Sudha Agro Oil & Chemical Inds. Ltd.
- Tara Health Foods Ltd.
- Thapar Agro Mills Ltd.
- Unique Organics Ltd.
- Vegepro Foods & Feeds Ltd.
- Vijay Agro Products Pvt. 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     | 165.00   | 165.00  | Capital                     | 0.00     | 439.88   | 439.88  |
| Buildings                       | 0.00     | 550.80   | 550.80  | Share Premium               | 0.00     | 0.00     | 0.00    |
| Plant & Machineries             | 0.00     | 615.20   | 615.20  | 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     | 109.00   | 109.00  | Cash Subsidy                | 0.00     | 0.00     | 0.00    |
| Technical Knowhow Fees & Exp.   | 0.00     | 50.00    | 50.00   | Internal Cash Accruals      | 0.00     | 0.00     | 0.00    |
| Franchise & Other Deposits      | 0.00     | 0.00     | 0.00    | Long/Medium Term Borrowings | 0.00     | 1319.65  | 1319.65 |
| Preliminary & Pre-operative Exp | 0.00     | 30.00    | 30.00   | Debentures / Bonds          | 0.00     | 0.00     | 0.00    |
| Provision for Contingencies     | 0.00     | 20.00    | 20.00   | Unsecured Loans/Deposits    | 0.00     | 0.00     | 0.00    |
| Margin Money - Working Capital  | 0.00     | 204.54   | 204.54  |                             |          |          |         |
| TOTAL                           | 0.00     | 1759.54  | 1759.54 | TOTAL                       | 0.00     | 1759.54  | 1759.54 |





# 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  | 6.39       | 10.29 | 16.39      | 24.00 | 0.00      | 100.00            | 6.39  | 0.00   | 6.39                  | 1.00        | 0.00                    |
| 2-3  | 9.08       | 12.49 | 25.48      | 18.00 | 0.00      | 100.00            | 9.08  | 0.00   | 9.08                  | 1.00        | 0.00                    |
| 3-4  | 11.82      | 14.80 | 37.29      | 12.00 | 0.00      | 100.00            | 11.82 | 0.00   | 11.82                 | 1.00        | 0.00                    |
| 4-5  | 14.51      | 17.12 | 51.80      | 6.00  | 0.00      | 100.00            | 14.51 | 0.00   | 14.51                 | 1.00        | 0.00                    |
| 5-6  | 17.14      | 19.43 | 68.95      | 0.00  | 0.00      | 100.00            | 17.14 | 0.00   | 17.14                 | 1.00        | 0.00                    |

# Project at a Glance

| Year    | D. S. C. R.       |                |         | Debt / -<br>Deposit<br>s Debt | Equity<br>as-<br>Equity | Total<br>Net<br>Worth | Retur<br>n on<br>Net<br>Worth | Profitability Ratio |       |       |                         |              | Assets<br>Turnove<br>r Ratio | Curren<br>t Ratio |
|---------|-------------------|----------------|---------|-------------------------------|-------------------------|-----------------------|-------------------------------|---------------------|-------|-------|-------------------------|--------------|------------------------------|-------------------|
|         | Individ<br>ual    | Cumulati<br>ve | Overall |                               |                         |                       |                               | GPM                 | PBT   | PAT   | Net<br>Contri<br>bution | P/V<br>Ratio |                              |                   |
|         | (Number of times) |                |         | (Number of<br>times)          |                         | %                     | %                             | %                   | %     | %     |                         | %            |                              |                   |
| Initial |                   |                |         | 3.00                          | 3.00                    |                       |                               |                     |       |       |                         |              |                              |                   |
| 1-2     | 1.46              | 1.46           |         | 1.46                          | 1.46                    | 3.49                  |                               | 6.66%               | 3.76% | 2.60% | 1355.50                 | 12.53%       | 3.39                         | 1.08              |
| 2-3     | 1.75              | 1.60           |         | 0.71                          | 0.71                    | 2.21                  |                               | 7.29%               | 4.83% | 3.17% | 1579.52                 | 12.52%       | 3.55                         | 1.21              |
| 3-4     | 2.11              | 1.76           | 2.12    | 0.32                          | 0.32                    | 1.49                  |                               | 7.72%               | 5.62% | 3.61% | 1805.12                 | 12.52%       | 3.56                         | 1.37              |
| 4-5     | 2.55              | 1.93           |         | 0.12                          | 0.12                    | 1.06                  |                               | 8.01%               | 6.19% | 3.94% | 2030.72                 | 12.52%       | 3.47                         | 1.53              |
| 5-6     | 3.08              | 2.12           |         | 0.00                          | 0.00                    | 0.79                  |                               | 8.22%               | 6.61% | 4.18% | 2256.32                 | 12.52%       | 3.33                         | 1.89              |

# Project at a Glance

|                                               |             |
|-----------------------------------------------|-------------|
| <b>BEP</b>                                    |             |
| BEP - Maximum Utilisation Year                | 5           |
| Cash BEP (% of Installed Capacity)            | 42.69%      |
| Total BEP (% of Installed Capacity)           | 47.16%      |
| <b>IRR, PAYBACK and FACR</b>                  |             |
| Internal Rate of Return .. ( In %age )        | 30.02%      |
| Payback Period of the Project is ( In Years ) | 2.814 Years |
| Fixed Assets Coverage Ratio ( No. of times )  | 19.803      |

# Major Queries/Questions Answered in the Report?

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

- 5. What is the structure of the Rice Bran Oil Business and who are the key/major players ?**
- 6. What is the total project cost for setting up Rice Bran Oil plant ?**
- 7. What are the operating costs for setting up a Rice Bran Oil plant ?**
- 8. What are the machinery and equipment requirements for setting up a Rice Bran Oil plant ?**



- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up a Rice Bran Oil plant ?**
- 10. What are the requirements of raw material for setting up a Rice Bran Oil plant ?**
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up a Rice Bran Oil plant ?**
- 12. What is the Manufacturing Process and Formulations of a Rice Bran Oil plant ?**

**13. What is the total size of land required for setting up a Rice Bran Oil plant ?**

**14. What will be the income and expenditures for a Rice Bran Oil plant ?**

**15. What are the Projected Balance Sheets of a Rice Bran Oil plant ?**

**16. What are the requirement of utilities and overheads for setting up a Rice Bran Oil plant?**

**17. What is the Built up Area Requirement and cost for setting up a Rice Bran Oil Business?**

**18. What are the Personnel (Manpower) Requirements for setting up a Rice Bran Oil Business?**

**19. What are Statistics of Import & Export for Rice Bran Oil ?**

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**22. What are the Project financials of a Rice Bran Oil plant?**

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**Niir Project Consultancy Services (NPCS)**  
**can provide Detailed Project Report on**  
**Rice Bran Oil**  
*(Solvent Extraction Unit)*

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# ***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*

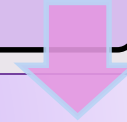


# Our Approach

**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*

- *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*
- *Essential Oils, Oils & Fats And Allied*
- *Engineering Goods*
- *Fibre Glass & Float Glass*
- *Fast Moving Consumer Goods*
- *Food, Bakery, Agro Processing*

- *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*

- *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*

- *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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