RICE BRAN OIL (SOLVENT EXTRACTION)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>388 MT/Day</td>
</tr>
<tr>
<td>Plant and machinery cost</td>
<td>615.00 Lakh</td>
</tr>
<tr>
<td>Working Capital</td>
<td>0.00 Lakh</td>
</tr>
<tr>
<td>Rate of return (ROR)</td>
<td>30.02 %</td>
</tr>
<tr>
<td>Break Even Point (BEP)</td>
<td>47.16 %</td>
</tr>
<tr>
<td>TCI</td>
<td>1760.00 Lakh</td>
</tr>
<tr>
<td>Cost of Project</td>
<td>1760.00 Lakh</td>
</tr>
</tbody>
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Rice is an important food crop. It is consumed by more than half of the world's population living in the developing countries. The demand of rice is increasing every day with the rise in population. It is therefore imperative to have continuous and concerted efforts to increase rice production to keep pace with the demand. Among the several approaches, varietal improvement through development of varieties with inherent high yielding potential, resistance to major biotic and abiotic stresses and adaptable to various rice growing environment is of paramount importance. Rice bran is a by-product resulting from the processing of rice. Even though the process, which consists in removing certain outer layers of the caryopsis, is basically the same in all cases, it can be carried out in a number of ways, some of which have a vital bearing on the characteristics of the end product. The bran thus produced may have quite different properties; therefore their particular identity should be differentiated and maintained. Rice bran 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 oil is a minor constituent of rough rice when compared with the carbohydrate and protein content.

Two major classes of lipids are present: those internal within the endosperm and those associated with the bran. The internal lipids contribute to the nutritional, functional, and sensory qualities of rice. Rice bran oil is truly The World's Healthiest edible oil, containing vitamins, antioxidants, nutrients and Trans fat free. It is not just delicate and flavorful; it can help lower cholesterol, fight diseases, enhance the immune system, and fight free radicals and more. 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. Rice bran oil is vastly superior to traditional cooking oils and can be considered nutraceutical (food as medicine) oil that is perfect for all your healthy cooking needs. Rice bran oil is quickly becoming a favorite in commercial frying to replace hydrogenated oils that contain trans fat. This is due to rice bran oils health, flavor and performance benefits. Rice bran is a by-product of the rice milling process. Rice bran is the most important source of edible oil among the unconventional sources. Rice bran is the brown coating around the white starchy rice kernel, which is obtained by de-husking paddy and polishing the rice. While white rice holds little nutritional value, the bran that is removed contains 65 percent of the rice kernel's nutrients and boasts a bounty of healthful benefits. The thin brown layer that is milled off in the processing of white rice, rice bran is just as effective as the other bran in fighting high cholesterol and providing high-grade fiber.

USES & APPLICATION
The crude bran oil thus obtained can be used for manufacture of soap, emulsifiers, fatty acid, plasticisers, cosmetics and tocoferol (vitamin E) etc. Crude rice bran oil is an edible grade vegetable oil intended for additional processing before human consumption. Crude rice bran oil is also source of high value added by-products. Thus, if the by-products are derived from the crude rice bran oil and the resultant oil is used as a feedstock for biodiesel, the resulting biodiesel could be quite economical and affordable. Crude rice bran oil is a rich source of high value-added byproduct. Therefore, use of rice bran oil as raw material for the production of biodiesel not only makes the process economical but also generates value added bio-active compounds. Crude rice bran oil helps reduce dust in feed, making it more palatable to animals. Moreover it acts as a lubricant in animal feed pelletization stage. Crude Rice bran oil is used as a raw material in manufacturing refined Rice bran oil. Rice bran with low levels of available carbohydrate (25 per cent) and high level of fat (20 per cent) can be considered as a good source of energy when used as a supplementary food for diabetics. Rice bran with 15 to 20 per cent oil can serve as a good source of energy and Essential Fatty Acids (EFA). It is also a commercial source of edible oil. Rice bran wax can be used in the preparation of candles, polishes, cosmetics, emulsifiers and other industrial preparations. It is the cuticle existing between the rice and the husk of the paddy, which comprises the germ the perricorp, and
The bran is obtained as a by-product in rice milling during polishing of rice obtained after dehusking of paddy etc. MARKET SURVEY 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. During 1983-84, the country processed only 13 lakhs tonnes of rice bran, though the installed processing capacity is around 32 lakhs tonnes. 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. It has been estimated that huller mills number about 80,000 while there are only 28,000 modern Sheller mills.

PRESENT MANUFACTURERS


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