

The burning process of Bio-diesel is clean that results in a significant reduction of various types of pollutants, which can contribute to smog and global warming. In addition, Bio-diesel emits up to 85 % lesser health hazardous agents in comparison on burning. An alcohol like chemical known as methanol is used for producing Bio-diesel. The chemical process separates glycerin and methyl esters (biodiesel) from fats or vegetable oils.

Many agencies have rigorously and independently tested the performance of Bio-diesel virtually in every kind of diesel engine inside the laboratory and on the roads as well. In various areas from power to efficiency, hauling and climbing, performance is rated comparably to HSD. Bio-diesel can also be used in its pure form or blended with petroleum fuel. Following is the concentration of Bio-diesel oil:

- The most common mix is 20/80, referred to as "B20" containing 20% biodiesel by volume, and 80% petroleum

### **Royal's Contribution:**

Our sister concern "Royal Energy Limited" has established the largest Bio-diesel plant of the country having high production capacity of 500 tons per day. This plant is situated at Patalganga near Mumbai that is very close to Nhava Sheva port, which facilitates an economic and convenient importing of feedstock and exporting finished product. Designed especially for converting many industrial products like PFAD, any acid oil, Jatropha and rice bran fatty acid into Bio-diesel, our plant meets all the requirements of the process.

REL is planning to sell its range in local areas through its retail outlets to local bulk consumers of diesel and exporting European and ASTM standard products as well. To meet this goal, we have outfitted our plant with state-of-the-art machinery & equipment that result in optimized production capacities in terms of quantity and quality. Further, we are also looking forward to produce our own raw material by growing Algae and Jatropha at our fields. It will reduce our dependency on vendors for procuring raw material and also result in economical solutions.

### **Features of Bio-diesel "Mileage":**

- "Mileage" is a product that passes specifications of Indian BIS Standards and International ASTM and EN Standards
- "Mileage" is made by using standard oils being recommended for safe formulation and utilization of product in automotive, stationary and burner

applications

- “Mileage” replaces HSD quite smoothly and its blends can be from 5% - 100%. (B5- B100)
- “Mileage” is free from the problem of cold start or early morning start
- “Mileage” is a technically superior product in terms of price, quality, and performance

#### **Advantages of “Mileage” biodiesel:**

- Since the product has passed all the specifications of international quality standards, it is ideal for all kinds of engines
- “Mileage” being manufactured by using natural oil and fatty acids of premium quality
- It helps increase vehicle part lives and emissions
- “Mileage” is an indigenous product, availability and price will have lesser variations
- “Mileage” is a product produced by using high-grade oils that ensure better cetane number of smooth burning and quick start of the engine
- “Mileage” is very economic, optimal in performance and much better in different aspects of other diesels