

## EXECUTIVE SUMMARY OF MRP REPORT

**Title:** Isolation of natural algal species from ecological niches of Pune and exploring their use for Biodiesel production

Petroleum and diesel combustion is a major source of greenhouse gases which have various hazardous effects on the environment and cause air pollution. The petroleum and its products are non-renewable and thus once over cannot be replaced. The demand of petroleum is very high and the oil reserves are depleting fast. The price of petroleum is rising higher everyday making it difficult for common man. It is therefore necessary to find alternative fuel which is less polluting and cheap. Biodiesel is non-toxic and bio-degradable alternative fuel that is obtained from non-renewable sources. The recent research has proved that oil production from micro-algae is far superior to terrestrial plant and has much faster growth rates. The natural algal species from various ecological niches were isolated and explored their use for bio diesel production.



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