

WET MASS PRODUCTION OF ALGAL BIO-DIESEL

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ABSTRACT

Due to the change in the climatic conditions and the hike in the price of the petroleum products per liter the fossil fuel lot is under the stress and we have carried out this project to bridge the gap between the oil sector, automotive and the society as to reduce the harmful effects of fossil fuels and also to bring the harmony in the society. Thus we choose algae as our source as it is abundant and easily manipulable. So we used microalgae as our source and project includes growing of the algae in the lab scale with controlled conditions and then with the help of the chemical extraction procedure extracted the oil and also blended it in different ratios to match the needs of existing engine and finally we also checked the engine performance and come up with the following results and the scope includes to blend it with the ethanol to make it Alganol in the near future for further analysis.

KEYWORDS: Price of the Petroleum Products, Chemical Extraction Procedure and Engine Performance