

## Introduction

Diesel fueled vehicles have been used in various countries to support the industrial and transportation sectors. Continuous use of diesel fuel without alternatives or savings causes an energy crisis. Bio - additive to nut grass root essential oil can save diesel fuel usage and improve combustion in the engine. This innovation can be a solution in overcoming the world diesel fuel energy crisis.



## What is it ASRI?

Bio diesel fuel additive made from nut grass weed. Made using 100% rarely used nut grass Essential oil



## Excellence

- ▶ Renewable energy
- ▶ Utilization of weeds
- ▶ Economical

## Making



## Criteria Analysis of ASRI as Bioadditive for Diesel Fuel Based on the Letter of the Director General of Oil and Gas 28.K / 10 / DJM.T / 2016

| Parameter   | Unit    | (-)-alpha gurjune | Nut grass essential oil | DIRJEN MIGAS Criteria |     |
|-------------|---------|-------------------|-------------------------|-----------------------|-----|
|             |         |                   |                         | Min                   | Max |
| Flash Point | Celcius | 110               |                         | 52                    | —   |
| Appearance  |         |                   | Bright yellow           | Bright and clear      |     |

