ISSN: 2320-5407

International Journal of Advanced Research

Publisher' s Name: Jana Publication and Research LLP

www.journalijar.com

ISSN NO. 2320-5407

REVIEWER□S REPORT

Manuscript No.: IJAR-56275

Title: Biodiesel Production from Microalgae

Recommendation:
Accept as it is □□□□..
Accept after minor revision□□✓□□
Accept after major revision □□□□□
Do not accept (*Reasons below*) □□□

Rating	Excel.	Good	Fair	Poor
Originality		✓		
Techn. Quality		✓		
Clarity			✓	
Significance		✓		

Reviewer Name: Sakshi Jaju

Reviewer□s Comment for Publication.

The study focuses on isolating microalgae from natural habitats and evaluating their potential for biodiesel production. Three isolates were identified, and oil extraction was performed using a hexane–ether method. The most efficient strain produced the highest biodiesel yield via alkali-catalyzed transesterification. Fuel properties such as cetane number (54) and FTIR analysis supported its suitability as a diesel alternative

Strength:

1. Relevant and sustainable energy topic.
2. Comparative evaluation of three microalgal strains.
3. Includes physicochemical characterization of biodiesel.
4. Practical and eco-friendly implications.

Weakness:

1. Language and grammar need editing.
2. Some repetition in discussion and conclusion sections.
3. Minor formatting inconsistencies.

Overall assessment:

The study addresses an important topic in renewable energy and shows promising results for biodiesel production from microalgae. However, minor improvements are needed in language quality, data consistency, formatting, and methodological clarity.

Recommendation: Manuscript accepted for publication after minor revision.