

Review Form 3

Journal Name:	Journal of Energy Research and Reviews
Manuscript Number:	Ms_JENRR_128613
Title of the Manuscript:	"Green Gold: Sustainable Biodiesel Production and Bioactive Compound Extraction from Microalgae"
Type of the Article	

General guidelines for the Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guidelines for the Peer Review process, reviewers are requested to visit this link:

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PART 1: Comments

	Reviewer's comment	Author's Feedback (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.	<p>Research Focus-The manuscript "Green Gold: Sustainable Biodiesel Production and Bioactive Compound Extraction from Microalgae" investigates microalgae as a high-lipid feedstock for biodiesel, addressing the need for sustainable energy sources.</p> <p>Strain Isolation- A total of 67 microalgal strains were isolated from various freshwater and marine environments in India, with four strains—Chlorococcum aquaticum, Scenedesmus obliquus, Nannochloropsis oculata, and Chlorella pyrenoidosa—identified as suitable for biodiesel production due to their high lipid content.</p> <p>Advantages of Microalgae-Microalgae offer significant benefits over traditional biofuel crops, including higher lipid yields, lower land and water requirements, and the ability to grow in non-arable land, making them a more sustainable option.</p> <p>Implications for Biodiesel Production- This research highlights the potential of utilizing India's diverse algal resources for biofuel production, contributing to environmental sustainability and reducing reliance on fossil fuels.</p>	
Is the title of the article suitable? (If not please suggest an alternative title)	Yes	
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	<p>The abstract of the article is comprehensive but could be improved. Here are some short suggestions.</p> <p>Remove Redundancy-The sentence about using the Nile Red method for screening high-lipid strains is repeated and should be stated only once.</p> <p>Add Key Results- Include specific lipid content or biomass data for the four selected strains to provide clearer insights into their potential.</p> <p>Broaden Implications-A brief mention of the environmental benefits or economic viability of microalgae as biodiesel feedstock would enhance relevance.</p> <p>These changes would make the abstract clearer and more informative.</p>	
Is the manuscript scientifically, correct? Please write here.	<p>The manuscript appears to be scientifically correct.</p> <p>Overall, the manuscript demonstrates a thorough approach to studying microalgae for biodiesel production, adhering to scientific principles and methodologies.</p>	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	No, please mention some latest references. Need more references in this manuscript.	
Is the language/English quality of the article suitable for scholarly communications?	yes	
Optional/General comments		

PART 2:

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Are there ethical issues in this manuscript?	(If yes, Kindly please write down the ethical issues here in details)	

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