

Review Form 3

Journal Name:	Asian Journal of Research in Agriculture and Forestry
Manuscript Number:	Ms_AJRAF_131090
Title of the Manuscript:	Fluxes of methane gases (CH4) in the mangrove sediment of Negeri Passo, Inner Ambon Bay
Type of the Article	

PART 1: Comments

	Reviewer’s comment Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.	Author’s Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
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.	This manuscript is very impactful. Mangroves not only protect adjacent localities from natural disasters such as floods, cyclones, and erosion but also play a crucial role in carbon sequestration. It provides valuable insights for future researchers to assess the extent and significance of mangrove contributions to global carbon reduction efforts.	
Is the title of the article suitable? (If not please suggest an alternative title)	The current title is informative but could be more impactful by incorporating "Climate Change" to emphasize the broader relevance of the study. Here’s a revised suggestion: "Methane (CH ₄) Fluxes in Mangrove Sediments of Negeri Passo, Inner Ambon Bay: Implications for Climate Change" This revision highlights both the specific study focus and its connection to climate change.	
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.	According to my opinion the abstract is comprehensive.	
Is the manuscript scientifically, correct? Please write here.	Yes	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	While the references are recent and sufficient, consider reviewing the article 'Climate-Resilient Social Afforestation in Sandwip: A Community-Driven Initiative to Mitigate Coastal Disaster Vulnerability.' It may provide an additional perspective on how mangroves protect coastlines—not only in terms of carbon sequestration but also as a natural barrier against disasters.	
Is the language/English quality of the article suitable for scholarly communications?	Yes	
<u>Optional/General</u> comments	This manuscript effectively highlights the dual role of mangrove ecosystems in both carbon sequestration and methane (CH ₄) emissions. It provides a clear research objective, methodology, and key findings, making it well-structured and informative. The study’s approach, including gas chromatography analysis and flux calculation, adds credibility to the results. However, while the abstract discusses CH ₄ flux variations among stations, it could benefit from a brief mention of possible influencing factors such as environmental conditions, sediment characteristics, or microbial activity. Additionally, integrating a stronger comparison with global or regional CH ₄ flux data would further emphasize the study’s significance in the broader context of climate change.	

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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)	

Reviewer Details:

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