Review of: "Unravelling The Contributions Of The Nigerian Livestock And Other More Prominent Sectors In Mitigation Of Global Green House Gas (GHG)"

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Potential competing interests: The author(s) declared that no potential competing interests exist.

Dear Editor,

I have read this manuscript titled '*Unravelling The Contributions Of The Nigerian Livestock And Other More Prominent Sectors In Mitigation Of Global Green House Gas (GHG)*'.

The subject in focus is an essential contribution to knowledge. However, the presentation of the current manuscript version limits its intended purposes.

May I now present a few suggestions for improvement:

1. The **structure of the paper** makes its comprehension difficult. For example, will this be an empirical paper, book chapter, a project for a degree, or an application for a grant? These would require unique structures. Similarly, it is unclear if this study is completed or in progress. The author makes a report in some parts of the paper, while other parts contain proposed activities. Some background information will help.
2. **The study's justification is unclear:** The author indicates the following about Nigeria – "Consequently, its GHG emission is equally infinitesimal with respect to the global GHG emission. The small population size of Nigerian cattle, sheep, goat and swine represents 0.93%, 1.9%, 3.2% and 2% GHG emission of the world cattle, sheep, goat and swine." Also, the author makes other statements showing that Nigerian emission is low, which raises the question 'why this study?'.
3. The author did not **support claims** in the manuscript with extant literature.
4. Overall, the author did not clearly **state the purpose** of the study. The first sentence in the abstract instead presents a nebulous aim for the study. Hence, it becomes difficult to evaluate the contents and methods reported.
5. Extensive **language editing** is required

I kindly request the author to indicate a clear purpose of the study. This will be the benchmark for evaluating the research, its methods and results. I will be happy to read the revised edition.

Thank you.

NB.

The following recent publications could enrich the background of this study and help clarify the purpose and intended

contribution of this paper.

Bellarby, J., Tirado, R., Leip, A., Weiss, F., Lesschen, J. P., & Smith, P. (2013). Livestock greenhouse gas emissions and mitigation potential in Europe. *Global change biology*, *19*(1), 3-18. https://doi.org/10.1111/j.1365-2486.2012.02786.x

Feliciano, D., Recha, J., Ambaw, G., MacSween, K., Solomon, D., & Wollenberg, E. (2022). Assessment of agricultural emissions, climate change mitigation and adaptation practices in Ethiopia. *Climate policy*, *22*(4), 427-444. https://doi.org/10.1080/14693062.2022.2028597

Giro, A., & Kumar, N. (2022). Climate Smart Livestock System; Review. *Journal of Agricultural Research Pesticides and Biofertilizers*, *3*(1). https://aditum.org/images/currentissue/1641467901Modified_ARPB_Galley_Proof.pdf

Hawkins, J., Komarek, A., Kihoro, E. M., Nicholson, C. F., Omore, A., Schoneveld, G. C., ... & Rufino, M. (2022). Improved animal genetics deliver low emissions development in East Africa's dairy sector.https://doi.org/10.21203/rs.3.rs-1536934/v1

Khusro, A., Aarti, C., Elghandour, M. M., Adegbeye, M. J., Mellado, M., Barbabosa-Pliego, A., ... & Salem, A. Z. M. (2022). Dietary Manipulation to Mitigate Greenhouse Gas Emission from Livestock. In *Handbook of Climate Change Mitigation and Adaptation* (pp. 2537-2575). Cham: Springer International Publishing. https://doi.org/10.1007/978-3-030-72579-2_131

Prasad, R. R., Dean, M. R. U., & Alungo, B. (2022). Climate Change Impacts on Livestock Production and Possible Adaptation and Mitigation Strategies in Developing Countries: A Review. *Journal of Agricultural Science*, *14*(3). https://doi.org/10.5539/jas.v14n3p240

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Wassie, S. E., Wilkes, A., Tadesse, M., Assefa, B., Abu, M., & Solomon, D. (2022). Enteric methane emission estimates for cattle in Ethiopia from 1994 to 2018. *South African Journal of Animal Science*, *52*(3). https://www.researchgate.net/profile/Shimels-Wassie/publication/361316002_Enteric_methane_emission_estimates_for_cattle_in_Ethiopia_from_1994_to_2018/links/62b06f2223f3283e3af85d4d/Enteric-methane-emission-estimates-for-cattle-in-Ethiopia-from-1994-to-2018.pdf