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| Journal Name: | [**Asian Journal of Environment & Ecology**](https://journalajee.com/index.php/AJEE) |
| Manuscript Number: | **Ms\_AJEE\_139605** |
| Title of the Manuscript: | **Effect of rising CO2 concentration on growth and carbon sequestration potential of Mangifera indica under varying nitrogen addition levels** |
| Type of the Article | **Original Research Article** |

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| PART 1: Comments | | |
|  | Reviewer’s comment **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **Author’s Feedback** (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.** | **This manuscript is highly important for scientific communities to determine the factors affecting carbon sequestration potential of plants specifically the correlation between CO2, N and other elements and environmental factors.**  **Since the Mangifera indica is agroforestry plant its very important to give clues for farmers and local communities on how to develop the tree from plantation to harvesting and the techniques to utilize it.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | The title of the article is very suitable and aligned with the results even if it needs some detail and separation with discussions |  |
| 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. | The abstract is written in very concise way, but needs some modification on summarizing methods, the place where the study taken place, the time from when the study starts and finalized, means specific start up the 98 days the study taken place |  |
| Is the manuscript scientifically, correct? Please write here. | The manuscript is scientifically correct and addressed the methodologies and results, but needs specifically written in separate and concise way of methods and discussion. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | The references were up to dated band very recent, its very suitable and sloughed with the study. |  |
| Is the language/English quality of the article suitable for scholarly communications? | The language of the manuscript is very well and communicable, |  |
| Optional/General comments | **The manuscript addresses an important and under-researched topic—the ecological and social**  **dimensions of factors of rising CO2 in Magnifera indica growth and carbon sequestration potential. It combines empirical**  **fieldwork, laboratory works with a literature review to inform forest biodiversity management. The structure is largely in place, but methodologies, discussion and results,**  **formatting, scientific depth, and considerations of other environmental factors like altitude, topography, Elevation , temperature and humidity, referencing consistency and writing styles need significant refinement for**  **publicatio in a high-impact journal.**  **This manuscript that means needs minor corrections on methodologies and separation of result and discussion. The time frame of the study and needs further addition on literature reviews. The methodologies written looks like literature it needs some modifications and summarizing.** |  |

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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:**

**Lalisa Mekonnen Jaldu, National Palace Museum and Heritage Administration Center, Federal Democratic Republic of Ethiopia**