|  |  |
| --- | --- |
|  | |
| Book Name: | [**Current Research on Geography, Earth Science and Environment**](https://bookstore.bookpi.org/product/current-research-on-geography-earth-science-and-environment-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_6156** |
| Title of the Manuscript: | **Tree Growth Analysis as a Panacea for Sustainable Forest Management in Northeast Nigeria: Study of Lannea Kerstingii (Anacardiaceae)** |
| Type of the Article | **Book Chapter** |

|  |  |  |
| --- | --- | --- |
| PART 1: Comments | | |
|  | Reviewer’s comment **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | 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.** | This manuscript provides valuable baseline data on the growth characteristics of *Lannea kerstingii*, an ecologically and economically important savanna species in Northeast Nigeria. Such studies are critical for developing species-specific allometric models, which are essential for forest resource management, biomass estimation, and carbon accounting. By linking DBH with multiple tree growth parameters, the study contributes to sustainable forest management practices and can serve as a reference for similar work in other West African savanna ecosystems. Furthermore, the results have implications for biodiversity conservation, climate change mitigation, and policy formulation in the forestry sector. |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | The current title is informative but could be made more concise. A suggested alternative is: *“Growth Analysis of Lannea kerstingii (Anacardiaceae) for Sustainable Forest Management in Northeast Nigeria”* |  |
| 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 comprehensive but could be made more concise. It would be better to summarize key findings (e.g., “strong positive correlations with basal area and volume, weaker associations with crown ratio and crown area”) rather than presenting all coefficients. Additionally, the conclusion in the abstract could place more emphasis on the practical applications for forest policy and management. |  |
| **Is the manuscript scientifically, correct? Please write here.** | The manuscript is scientifically sound in terms of methodology, data collection, and analysis. The use of DBH as a predictor variable is justified, and the statistical methods applied (correlation, regression analysis) are appropriate. However, in Section 2.5, the basal area formula should be double-checked for accuracy, as the conventional formula is BA = π(DBH/2)². Clarifying this would improve precision. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | The references are fairly comprehensive and include a mix of classical and recent works. However, the manuscript could benefit from including more recent references (post-2018), particularly in areas of biomass estimation, carbon sequestration, and sustainable savanna forestry. |  |
| Is the language/English quality of the article suitable for scholarly communications? | The manuscript is written in clear and understandable English. Minor grammatical and stylistic improvements could enhance readability, particularly in the abstract and conclusion. For instance, replacing “panacea” in the title and abstract with more precise terms would improve scholarly tone. |  |
| Optional/General comments | Overall, this is a useful and well-prepared manuscript that makes a meaningful contribution to the forestry and ecological research community. With some adjustments to the abstract, title, and references, as well as minor language polishing, the manuscript would be suitable for publication. |  |

|  |  |  |
| --- | --- | --- |
| **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:**

**Manish Kumar Vijay, India**