Review Form 1.7

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	**Ms_ IJECC_113078**
Title of the Manuscript:	**Evaluation of Soil Particle Distribution and Primary Nutrients Status Across the Rice Productive Regions of Mahabubnagar, Telangana**
Type of the Article	**Original Research Article**

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PART 1: Review Comments

	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)*
Compulsory REVISION comments **1. Is the manuscript important for scientific community?** (Please write few sentences on this manuscript) **2. Is the title of the article suitable?** (If not please suggest an alternative title) **3. Is the abstract of the article comprehensive?** **4. Are subsections and structure of the manuscript appropriate?** **5. Do you think the manuscript is scientifically correct?** **6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.** **(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)**	**1- Yes see my comments** **2- No** **3- Many deficiencies**	
Minor REVISION comments **1. Is language/English quality of the article suitable for scholarly communications?**	Yes	
Optional/General comments	Title: Comprehensive Evaluation of the Article "Evaluation of Soil Particle Distribution and Primary Nutrients Status Across the Rice Productive Regions of Mahabubnagar, Telangana" The article titled "Evaluation of Soil Particle Distribution and Primary Nutrients Status Across the Rice Productive Regions of Mahabubnagar, Telangana" is subject to a comprehensive evaluation, and it is clear that there are several issues that need to be addressed before it can be considered for publication. The following points highlight the key shortcomings of the article and provide recommendations for improvement: Lack of Rationale and Criteria for Sampling: The article fails to adequately state the rationale behind the choice of sampling sites and the criteria used for sampling. It is essential to provide a clear justification for why specific locations were chosen for soil sampling. Additionally, the coordinates (latitude and longitude) of the sample locations should be provided to allow for precise replication and future research. Recommendation: The authors should provide a detailed explanation of the criteria used for selecting sampling sites, along with their coordinates, in order to enhance the replicability and credibility of the study. Inadequate Explanation of Fertility Levels: The article mentions the division of the study area into low, medium, and high fertility regions but does not provide sufficient information regarding the basis for this categorization. It is crucial to outline the specific parameters or data used to classify these regions. Recommendation: The authors should explain in detail the criteria or data sources that were used	

	to classify the regions into low, medium, and high fertility levels. Lack of Data Analysis Methodology: The article mentions conducting summary statistics, including n, max, min, and mean, but does not describe the specific data analysis methodology used. There is a need to clarify how the data was analyzed, including statistical tests and analytical techniques employed. Recommendation: The authors should provide a clear description of the data analysis methods used, including any statistical tests performed, to ensure the rigor of the study. Absence of Spatial Analysis: The article does not incorporate any spatial analysis or geospatial data. Given the importance of understanding spatial variability in soil properties, especially in agricultural studies, this is a significant omission. Recommendation: The authors should consider incorporating spatial statistics or geospatial analysis to assess the spatial variability of soil properties in the study area. Shallow Background Information: The background information provided in the article is insufficient, and it lacks recent references. A comprehensive literature review would provide readers with a better context for the study and demonstrate the authors' awareness of current research in the field. Recommendation: The authors should expand the background section by including more recent references and providing a comprehensive overview of relevant literature. Suitability Assessment Methodology: The article suggests evaluating the soils for rice production suitability but does not outline the methodology or criteria used for this assessment. A clear explanation of the suitability evaluation process is essential. Recommendation: The authors should provide a detailed methodology for assessing soil suitability for rice production, including references to established methods and criteria. In conclusion, the article titled "Evaluation of Soil Particle Distribution and Primary Nutrients Status Across the Rice Productive Regions of Mahabubnagar, Telangana" has several critical deficiencies that need to be addressed. It lacks clarity in rationale, sampling criteria, data analysis methods, spatial analysis, and background information. Furthermore, it does not adequately describe the methodology for evaluating soil suitability for rice production. Therefore, the article is not suitable for publication in its current form and should be re-submitted after addressing these issues. These articles can guide the authors to re-work the MS and re-submit Ogunkunle, A. O. (1993). Soil in land suitability evaluation: an example with oil palm in Nigeria. Soil use and management, 9(1), 35-39. Nkheloane, T., Olaleye, A. O., & Mating, R. (2012). Spatial heterogeneity of soil physico-chemical properties in contrasting wetland soils in two agro-ecological zones of Lesotho. Soil Research, 50(7), 579-587. Obi, J. C., Ogban, P. I., & Utuk, I. I. (2011). Spatial variability of particle sizes of coastal plain sands soils of southeastern Nigeria. Agro-Science, 10(2), 16-28. Mats’ ela, K., Olaleye, A. O., Rathebe, K., Rasekoele, M., Ntlele, M., Pheko, T., & Odunuga, B. O. (2015). Morphological properties and soil nutrient changes in selected properties in two contrasting wetlands in Lesotho. Communications in Soil Science and Plant Analysis, 46(18), 2274-2294.	

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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:

Name:	**Olaleye**
Department, University & Country	**Canada**