

Review Form 3

Journal Name:	International Journal of Plant & Soil Science
Manuscript Number:	Ms_IJPSS_120256
Title of the Manuscript:	GEO-SPATIAL SOIL FERTILITY MAPPING FOR KHAPRADIH FARM AT DKS COLLEGE OF AGRICULTURE, BHATAPARA CHHATTISGARH
Type of the Article	Original Research Article

General guideline for Peer Review process:

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PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	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 few sentences regarding the importance this manuscript for scientific community. Why do you like (or dislike) this manuscript? Minimum 3-4 sentences may be required for this part.	Major revision required	
Is the title of the article suitable? (If not please suggest an alternative title)	Major revision required	
Is the abstract of the article comprehensive? Do you suggest addition (or deletion) of some points in this section? Please write your suggestions here.	Major revision required	
Are subsections and structure of the manuscript appropriate?	Major revision required	
Please write few sentences regarding the scientific correctness of this manuscript. Why do think that this manuscript is scientifically robust and technically sound? Minimum 3-4 sentences may be required for this part.	Major revision required	
Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. =		

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<p>Minor REVISION comments</p> <p>Is language/English quality of the article suitable for scholarly communications?</p>		
<p><u>Optional/General</u> comments</p>	<ul style="list-style-type: none"> ➤ Abstract Clarity: The abstract contains repeated phrases and grammatical errors. It needs revision for clarity and conciseness. ➤ Redundancy: The phrase "101 geo-referenced soil surface samples" is repeated. This redundancy should be eliminated for better readability. ➤ pH Range: The pH range should be consistently presented. There is a discrepancy where it is first mentioned as 5.7 to 7.6 and later as 5.74 to 7.644. ➤ Use of Symbols: Ensure consistent use of symbols for measurements, such as "dS/m" for electrical conductivity, and proper spacing before units. ➤ Nutrient Categories: The classification of available nutrients as low, medium, or high should be clearly defined and consistent throughout the paper. ➤ Standard References: When referring to methods (e.g., Jackson, Walkley and Black), ensure the full reference is provided once in the methods section and cited correctly thereafter. ➤ Fertility Rating Calculation: The formula for Nutrient Index Value (NIV) is explained but should be followed by a brief example calculation for better understanding. ➤ Visual Aids: The paper would benefit from including more visual aids, such as tables and figures, especially for nutrient distributions and thematic maps. ➤ Data Presentation: The tables (e.g., Tables 1-12) should be formatted uniformly with clear headers, consistent decimal places, and aligned text for better readability. ➤ Thematic Maps: The discussion should elaborate more on the interpretation of thematic maps created using ArcGIS, highlighting specific areas of concern or interest. ➤ Conclusion Strength: The conclusion should provide more specific recommendations based on the findings, such as particular fertilizers or amendments needed for different areas. ➤ Grammar and Syntax: The manuscript contains numerous grammatical errors and awkward phrasings that need correction for professional presentation. ➤ Consistency in Terms: Ensure consistent use of terms, such as "sulfur" vs. "sulphur," and standardize them throughout the document. ➤ Nutrient Interaction: Discussion on the interaction between various nutrients and their combined effects on soil fertility would add depth to the analysis. ➤ References: Ensure all references are up-to-date and correctly formatted according to the journal's guidelines. Some references appear incomplete or outdated. ➤ Precision in Methodology: The methodology should provide precise details on the grid sampling approach, including any potential limitations or assumptions made. ➤ Technological Insights: More insights on the advantages and limitations of using GPS and GIS technologies in soil fertility mapping could be discussed. ➤ Environmental Impact: Consider discussing the potential environmental impacts of the current nutrient levels and how the recommendations might mitigate negative effects. ➤ Long-Term Monitoring: The importance of long-term soil fertility monitoring and how the findings can be integrated into a broader agricultural management strategy should be emphasized. 	

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PART 2:

	Reviewer's comment	Author's comment <i>(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)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

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