

Review Form 1.7

Journal Name:	International Journal of Plant & Soil Science
Manuscript Number:	Ms_IJPSS_101666
Title of the Manuscript:	Assessment of Variation Among Physico-chemical Properties of Soil of Maize as Influenced by Levels of NPK and Vermicompost at Eastern Uttar Pradesh
Type of the Article	Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

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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)
<p>Compulsory REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<ul style="list-style-type: none"> ✚ The earlier literature opines that fertilizers serve as the tycoon for the transformation of Indian agriculture from subsistence to surplus. ✚ The world's third most important cereal crop Maize (<i>Zea mays L</i>), cultivated with diverse crop sequence under many agroclimatic regions of the country is well-thought-out as a latent driver of crop diversification under different situations. ✚ In the former four decades, global maize production has momentarily improved mainly due to the application of nitrogen (FOA, 2018). ✚ Nitrogen directs the utilization of potassium, phosphorus and other elements in maize crops. ✚ Yes, the title of the manuscript is appropriate enough. ✚ Yes, the abstract written is comprehensive. • Yes, they are appropriate enough conveying various significant aspects and illustrating the general sub-sections viz., Abstract, Introduction, Materials and Methods, Results and Discussion and Conclusion as well. ✚ In addition, the observations are recorded and the statistical analysis has been performed and the data has been finely documented in the Tabular forms. ✚ It has been authored that Phosphorus is crucial for the transformation of energy, metabolism and in respiration of plants and the early maturity of maize. ✚ Whereas, Potassium plays an imperative role in the formation of protein and chlorophyll and it provides much of the osmotic pull that draw water into plant roots. ✚ The research study has revealed that the integration of organic manures with inorganic fertilizer sources was found most operative in improving physico-chemical properties of soil as it decreases bulk density, and pH in T₉(@100%NPK +@100%Vermicompost). ✚ Moreover, to withstand soil fertility and productivity on a prolonged basis, the integration of organic and inorganic is distinctly advocated. ✚ The references are adequate and recent enough but need to provide recent references 	
<p>Minor REVISION comments</p>	<ul style="list-style-type: none"> • Pg. no.2, 1st line: and the success-change the capitalization. 	

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<p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<ul style="list-style-type: none"> Pg. no.2, 7th line: different situations. The application- add a full stop after the completion of a sentence. Pg. no.4, 1st line: presented in tables 1 and 2- fix the agreement mistake and remove the full stop. Pg. no. 5, Available Nitrogen (kg ha⁻¹), 5th line: An experiment- correct article usage. In Conclusion, the first 3 lines: have a significant effect on the physio-chemical properties of the soil of maize crops. The integration of organic manures with inorganic fertilizer sources was found most effective- Change the verb forms and add the required articles. <p>✚ The usage of the English language is appropriate and well suitable for scholarly communications.</p>	
<p><u>Optional/General</u> comments</p>	<p>✚ The observations are recorded and finely documented in the tabular forms viz., Effect of different levels of NPK and Vermicompost on Bulk density (Mg m⁻³), Particle density (Mg m⁻³), Pore space (%) and Water holding capacity (%) of post- harvest soil; Effect of different levels of NPK and Vermicompost on pH, Electrical conductivity(dSm⁻¹) and, Organic carbon (%), of post- harvest soil; Effect of different levels of NPK and Vermicompost on Available Nitrogen (kg ha⁻¹), Available phosphorus (kg ha⁻¹), and Available potassium (kg ha⁻¹) of post- harvest soil.</p> <ul style="list-style-type: none"> Overall, the manuscript has been succinctly chronicled, notable, and well-presented with elegancy. The related statistical observations have been concisely documented in the Tabular forms. 	

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

Reviewer Details:

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