

Review Form 3

Journal Name:	International Journal of Plant & Soil Science
Manuscript Number:	Ms_IJPSS_129336
Title of the Manuscript:	Effect of Vermicompost on Soil Properties, Plant Growth and Environmental Sustainability: A Review
Type of the Article	Review Article

PART 1: 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 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 vital for advancing sustainable agriculture by highlighting vermicompost's role in improving soil health, plant growth, and environmental sustainability. It provides practical insights and identifies key research gaps to guide eco-friendly agricultural practices.	
Is the title of the article suitable? (If not please suggest an alternative title)	yes	

Review Form 3

<p>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.</p>	<p>Lack of Specificity:</p> <ul style="list-style-type: none"> Phrases like "different doses of vermicompost" and "moderate doses" are vague and not quantified. Specific ranges or examples would make it more precise. <p>Overgeneralization:</p> <ul style="list-style-type: none"> Statements such as "enhanced soil fertility and plant performance" are broad and lack evidence or context for when and where these effects are observed. <p>Repetition:</p> <ul style="list-style-type: none"> The phrase "environmental sustainability" is repeated without adding new context, making it redundant. <p>Unclear Scope:</p> <ul style="list-style-type: none"> While the abstract claims to review "different doses," it does not clarify whether this includes specific crops, soil types, or environmental conditions. <p>Research Gaps Mentioned Without Detail:</p> <ul style="list-style-type: none"> "Key research gaps" and "future studies" are mentioned but not specified. For instance, what microbial interactions or soil processes are lacking detailed investigation? <p>Grammatical and Stylistic Issues:</p> <ul style="list-style-type: none"> The phrase "improved waste management" is somewhat ambiguous in this context. Does it refer to the reduction of organic waste or its transformation efficiency? <p>Imbalance of Focus:</p> <ul style="list-style-type: none"> While soil and plant impacts are discussed, environmental sustainability is underexplored in detail, despite being a major theme in the abstract. <p>Use of "Ultimately":</p> <ul style="list-style-type: none"> The use of "ultimately" in the concluding sentence is stylistically informal for scientific writing and can be replaced with more formal phrasing. <p>Absence of Hypothesis or Objective:</p> <ul style="list-style-type: none"> The abstract mentions findings and reviews but does not clearly state the main objective or hypothesis of the review paper. 	
<p>Is the manuscript scientifically, correct? Please write here.</p>	<p>Add:</p> <p>Future aspects Limitations Discussion</p> <p>Demonstrate all points in detail (you may show the info in smart-art form) Clear Structure and Organization</p> <ul style="list-style-type: none"> Divide the content into distinct sections or subsections with descriptive headings (e.g., "Vermicompost Properties," "Effects on Soil," "Effects on Plants," etc.). Use bullet points or tables for summarizing key details like nutrient composition, physicochemical properties, and microbial activity. <p>Quantitative Details</p> <ul style="list-style-type: none"> Include quantitative data (e.g., nutrient concentrations, pH values, percentages of water retention) wherever available. Provide ranges or specific figures for optimal doses, nutrient availability, or crop yield improvements. <p>Visual Aids</p> <ul style="list-style-type: none"> Include charts, graphs, or tables to present comparisons (e.g., nutrient levels in vermicompost vs. synthetic fertilizers, effects of different dosages on soil properties). Use diagrams to illustrate mechanisms like microbial interactions or carbon sequestration. <p>Scientific Terminology</p> <ul style="list-style-type: none"> Use precise, consistent terminology for technical aspects (e.g., "cation exchange capacity (CEC)" instead of just "nutrient retention"). Avoid casual language and ensure all terms are defined. <p>Critical Analysis</p> <ul style="list-style-type: none"> Highlight trends, patterns, or correlations observed in the cited studies. Discuss limitations of the data or methodologies, such as variability in vermicompost quality or inconsistent study designs. <p>Comparative Analysis</p>	

Review Form 3

	<ul style="list-style-type: none">Compare vermicompost with other soil amendments or fertilizers in terms of effectiveness, sustainability, and economic impact. Standardized Metrics <ul style="list-style-type: none">Use standardized units and metrics (e.g., $\mu\text{S/cm}$ for EC, mg/kg for nutrient content) for consistency and ease of comparison across studies.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	Yes	
Is the language/English quality of the article suitable for scholarly communications?	Yes	
<u>Optional/General</u> comments		

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

Reviewer Details:

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