

Review Form 3

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| Journal Name: | International Journal of Plant & Soil Science |
| Manuscript Number: | Ms_IJPSS_122392 |
| Title of the Manuscript: | STUDY OF EFFECTS OF MICRO PLASTICS ON THE GROWTH OF PLANTS IN AGRICULTURAL SOIL |
| Type of the Article | Original Research Article |

General guidelines for the 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 guidelines for the Peer Review process, reviewers are requested to visit this link:

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PART 1: Review Comments

| Compulsory REVISION comments | Reviewer's comment | 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) |
|---|---|---|
| <p>Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.</p> | <p>The manuscript titled "STUDY OF EFFECTS OF MICRO PLASTICS ON THE GROWTH OF PLANTS IN AGRICULTURAL SOIL" explores a crucial aspect of microplastic pollution. While the idea is commendable for addressing this overlooked issue, substantial revisions are needed to align the paper with the publication standards of this journal. I recommend that the authors carefully consider the following comments and suggestions.</p> | |
| <p>Is the title of the article suitable? (If not please suggest an alternative title)</p> | <p>"Investigating the Impacts of Microplastics on the Plants Growth in Agriculture soil"</p> | |
| <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>The abstract should be comprehensive and concise, encapsulating the entire paper. I recommend revising the sentences to eliminate unnecessary text. "Plastics are a highly versatile material which are extensively used in majority of the industrial sectors in the world. Improper disposal of plastics have lead to accumulation in the environment and are broken down by natural degradation actions into finer minute particles known as micro plastics". You can write these details in introduction. Many abbreviations are used. The authors are suggested either to properly introduced them on their first appearance or use the full name.</p> | |
| <p>Are subsections and structure of the manuscript appropriate?</p> | <p>The subsections and structure of the manuscript need to be substantially revised.</p> | |
| <p>Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.</p> | <p>The research strength lies in its exploration of the practical and globally relevant topic concerning the impact of microplastic on plant growth in agricultural soil. This study not only delves into an applied field but also promises valuable insights that can benefit academia worldwide. The idea is novel and will provide a base for further studies in this area.</p> | |
| <p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p> <p>=</p> | <p>1. In the introduction part "These micro plastics exist because they cannot be deteriorated by the action of microbes [17]. There are many studies shows that MPs can be degraded through microbes. Revise this sentence https://doi.org/10.1002/adsu.202400172.</p> <p>2. Some of the references are very old such as, https://doi.org/10.1016/j.envpol.2005.04.013 consider replacing them with more recent options https://doi.org/10.1002/adsu.202400172 https://dx.doi.org/10.1016/j.scitotenv.2022.160322 https://dx.doi.org/10.1016/j.seppur.2022.122453 http://dx.doi.org/10.20517/wecn.2023.39 or you may consult the search databases to find more recent literature</p> | |

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| <p>Minor REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p> | <p>The language of the paper is ok.</p> | |
| <p><u>Optional/General</u> comments</p> | <ol style="list-style-type: none"> 1. Avoid using abbreviations in the keywords for better clarity and understanding. 2. The graphical abstract, aim to convey your study's essence through visual elements rather than extensive text. Consider replacing text with images for better representation. 3. Ensure that all acronyms are introduced upon their first appearance, followed by the use of the short form throughout the manuscript. The term Microplastics, MPs and micro plastics are used inconsistently in the entire manuscript. 4. Please correct the typos in the sentence: "Plants have the ability to alter the distribution depth of MPs in the soil profile atthe root level. 5. Check the sentence for correction "They can ultimatelyaccumulate in body, disrupt cellular signalling and metabolic activities, induce oxidative stress in cells and are also neuro toxic in nature spacing issue". 6. Expand the last paragraph in the introduction as the rational of this study. 7. Introduce EC as Electrical Conductivity 8. Write down the formula properly with subscript and superscript. 9. $Ca = 13.95A665 - 6.88A649$ $Cb = 24.96A649 - 7.32A665$ write this more clearly for reader's understanding. 10. Why only two replicates "Two replications were maintained for each treatment (3 seed types and 5 concentrations)". Any logic for this? 11. Incorporate standard deviation values in the figure and refer to these values in the study to provide insights into the data variability and precision. 12. In order to strengthen your results, draw comparisons with other such studies conducted on the subject. 13. Improve the results and discussion part by supplementing it with additional content and explanation for better elucidating your findings and their implications. <p>Revise the conclusion. Write down your main findings from this research, the identified gaps, challenges and way forward.</p> | |

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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> |
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| 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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| Name: | Muhammad Tariq Khan |
| Department, University & Country | The Education University of Hong Kong, Pakistan |