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| Journal Name: | [**International Journal of Plant & Soil Science**](https://journalijpss.com/index.php/IJPSS) |
| Manuscript Number: | **Ms\_IJPSS\_132714** |
| Title of the Manuscript: | **IMPACT OF ROOT SYSTEMS ON SOIL STRUCTURE AND HYDRAULIC PROPERTIES: A REVIEW OF MECHANISMS AND EFFECTS** |
| Type of the Article |  |

**PART 1: Comments**

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|  | **Reviewer’s comment**  **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **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)* |
| **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.** | The scientific community will benefit from this manuscript since it offers a thorough examination of how root  systems influence soil structure and hydraulic characteristics. It provides important insights for enhancing soil management techniques by highlighting the intricate relationships that exist between roots, soil, and microbial communities. In light of climate change and resource conservation, the review is extremely pertinent because it tackles important issues including soil deterioration, water retention, and sustainable agriculture. This research helps to develop new methods for improving soil health and ecosystem resilience by using recent findings | Thank you for mentioning the significance of the manuscript to the scientific community. |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | Yes, the title of the article is suitable. | Okay, thank you |
| **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.** | The abstract is well-structured and provides a comprehensive overview of the study. | Thank you for the assurance. |
| **Is the manuscript scientifically, correct? Please write**  **here.** | The manuscript appears to be scientifically valid, with a clear methodology and well-presented results. | Okay thank you |
| **Are the references sufficient and recent? If you have**  **suggestions of additional references, please mention them in the review form.** | It is important to add some recent work (2024 - 2025) to the literature review and references. | Noted and recent references added. |
| **Is the language/English quality of the article suitable**  **for scholarly communications?** | The language quality of the article is generally suitable for academic publishing. | Thank you |
| **Optional/General** comments | - The beginning should include a paragraph outlining the topic's significance before entering into technical details.  - The paragraphs should be divided into numbered subheadings to enhance clarity and readability.  - The figure above the heading (IMPACT ON HYDRAULIC PROPERTIES) lacks a caption and clear details. Additionally, the text within the image is unclear, and its source is not specified.  - Please update the references and incorporate them into the study to strengthen the findings.  There are no ethical issues in this manuscript  There are no competing interest issues in this manuscript  No plagiarism is suspected. | The areas of improvement have been noted and modifications have been made. |

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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)* |  |