|  |  |
| --- | --- |
|  | |
| Journal Name: | [**Journal of Experimental Agriculture International**](https://journaljeai.com/index.php/JEAI) |
| Manuscript Number: | **Ms\_JEAI\_141336** |
| Title of the Manuscript: | **Effect of deep tillage on wheat yield and cost economics of different tillage methods in rice-wheat cropping system** |
| Type of the Article | **Original Research Article** |

|  |  |  |
| --- | --- | --- |
| PART 1: Comments | | |
|  | Reviewer’s comment **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **Author’s Feedback** (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.** | **This manuscript addresses topic concerning the impact of different tillage practices on wheat yield and economic returns in rice-wheat cropping systems. The study provides another aspect of agronomic management practices, especially in regions dominated by intensive rice-wheat rotations not directly mentioned by author and which has been done by lot of authors. The gap of Three years in between writing articles may be an aspect not to be ignored. However, the manuscript requires substantial revision to enhance clarity, rigor, and depth of analysis before it can be considered for publication.** | Despite the fact that similar research already exist, this publication makes a particular contribution by integrating economic, mechanization, and agronomic characteristics in the field in the understudied northwest Indo-Gangetic Plains. The study analyzes tillage techniques and discusses current issues with soil compaction using field data from the 2022–2023 season. For the purpose of enhancing analytical depth, elucidating its uniqueness, and clearly emphasizing the findings' applicability to intensive rice-wheat systems, the manuscript will undergo a comprehensive revision. My PhD coursework is the reason I'm writing this after three years. |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **Alternative title with mentioning location may give emphasis? as location specific studies are important e.g. In Haryana or the Punjab etc.** | The title should be changed according to the location of the study. The new title is “Effect of Deep Tillage on Wheat Yield and Cost Economics under Rice-Wheat Cropping System in Haryana”. |
| 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 comprehensive but overly numerical and looks like abstract of Thesis rather than research article. Summarize key findings in brief. Provide aim, focus, methods and results with proper conclusions in concise way.** | We admit that the previous abstract lacked a succinct summary appropriate for a research article and included too many numerical data. As a result, we have updated the abstract to minimize number overload while maintaining crucial scientific information by clearly presenting the goal, methodology, main findings, and conclusions in a more succinct and readable manner. |
| Is the manuscript scientifically, correct? Please write here. | **scientifically sound and generally correct** | The manuscript is changed accordingly. |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | References are old and gap of three years is there? Recent studies must be added into this? Let author do the finding rather than me suggesting? As gap of three years is huge | The gap and the existence of comparatively older references in the manuscript are acknowledged. In order to reinforce the scientific basis and take into account the most recent developments in tillage and crop management research, we will carefully examine and update the reference list by adding pertinent and recent studies from the last two to three years. By doing this, the document will be kept current and in line with new advancements in the field. |
| Is the language/English quality of the article suitable for scholarly communications? | Appropriate, improve grammar and clarity of expression, correct typographical errors (lots of their) | We admit the existence of typographical errors, grammatical flaws, and places where the writing is unclear. To make the document more readable, guarantee grammatical correctness, and increase its general clarity and professionalism, a comprehensive linguistic and editorial review will be conducted. |
| Optional/General comments | **Abstract:** comprehensive but abstract in terms of numbers. Facts shall be clearly stated and be concise  **Introduction:** The study's background and significance should be explained at the start, and the argument should be clearly justified by summarizing the knowledge gaps and show uniqueness of research.  **Materials and Methods:**Clarity required, organised way of approach should be provided for methods; meticulous organization. Subheadings and subsections shall be created (economic analysis, measurements, experimental design, and site description) should be numbered accordingly. Units shall be used in similar format for same units across manuscript.  **Results and Discussion:**  too lengthy and numerically complex to be understood. Explain the differences that are statistically significant. Make the titles, units, and captions of figures and tables clearer and continuous use of same words *like implement or machines*. Use either implement or machines? confusing the reader? all results shall be justified with economic parameters. Provide the effect of labour and fuel costs on economic viability using sensitivity analysis.  **Conclusions:** The usefulness of each tillage technique should be covered in the conclusions. An explanation of the optimal use of each tillage technique. To make the article better, review and add post 2022 research related articles | 1. Abstract changed accordingly 2. Changed accordingly. 3. Done 4. Done 5. Done |

|  |  |  |
| --- | --- | --- |
| **PART 2:** | | |
|  | **Reviewer’s comment** | **Author’s Feedback** (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)* | No ethical issue |