|  |  |
| --- | --- |
| Journal Name: | [**Asian Research Journal of Agriculture**](https://journalarja.com/index.php/ARJA) |
| Manuscript Number: | **Ms\_ARJA\_133317** |
| Title of the Manuscript: | **Field performance of selected varieties of paddy against brown plant hopper (N. lugens) at Raisen District of Madhya Pradesh** |
| Type of the Article |  |

|  |  |  |
| --- | --- | --- |
| **PART 1: Comments** | | |
|  | **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 manuscript provides field screening data on the resistance levels of 18 paddy varieties against brown planthopper (*Nilaparvata lugens*) in Madhya Pradesh, identifying MTU 1060, PTB-33, and Poornima as varieties with the highest resistance. However, the study largely confirms previously known resistant varieties rather than presenting novel resistant genotypes, lacks molecular or biochemical investigation into resistance mechanisms, and does not explore the implications for sustainable pest management strategies beyond varietal selection. While  the data is regionally relevant for farmers in Madhya Pradesh, the limited scope and absence of new methodological approaches diminish its broader scientific impact. |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | The title or article adequately describes the study. |  |
| **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 needs improvement. I suggest to:   1. Adding a brief opening sentence about the economic importance of brown planthopper 2. Including the range of pest population values across all varieties 3. Mentioning if any correlation analysis was performed between pest population and yield 4. Adding a concluding sentence about how these findings could be utilized in breeding programs or integrated pest management |  |
| **Is the manuscript scientifically, correct? Please write here.** | The manuscript is scientifically correct in terms of its methodology and data presentation, but has some limitations:   * The manuscript lacks detail on the specific environmental conditions during the study period, which could influence pest population dynamics * There's no discussion of potential biotypes of brown planthopper, which is important since resistance can be biotype-specific * The manuscript doesn't explore mechanisms of resistance (antixenosis, antibiosis, tolerance) * There's no validation of field observations with controlled greenhouse studies * The statistical data presentation could be enhanced with additional analysis (correlation between pest   population and yield data) |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | No, the references are not sufficient and recent. The manuscript has several weaknesses in its citation approach. Many claims in the introduction and discussion lack proper citation. The discussion section primarily compares  results with previous studies but doesn't incorporate recent literature. There's no citation of literature explaining the physiological or biochemical basis of resistance in the varieties identified as resistant. |  |
| **Is the language/English quality of the article suitable for scholarly communications?** | The work might be appropriate for a regional agricultural journal or as a research note, but would need substantial revision to meet the standards of higher-impact scientific journals. |  |
| **Optional/General** comments | The study provides confirmatory data that could be valuable for regional agricultural bulletins or as a research note in a specialized journal. However, to make a meaningful contribution to the scientific literature, the work would need substantial enhancement in analytical depth, mechanistic investigation, and connection to contemporary research on brown planthopper resistance in rice. |  |

|  |  |  |
| --- | --- | --- |
| **PART 2:** | | |
|  | **Reviewer’s comment** | **Author’s comment** *(if agreed with the 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 detail)* |  |

**Reviewer Details:**

**Nurindah Supoyo, National Research and Innovation Agency, Indonesia**