

### Review Form 3

Journal Name:	<a href="#">Journal of Experimental Agriculture International</a>
Manuscript Number:	Ms_JEAI_129299
Title of the Manuscript:	Performance of rice genotypes on imazethapyr herbicide tolerance in direct seeded system
Type of the 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>
<b>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.</b>	This manuscript is significant for the scientific community as it addresses the critical challenge of weed management in direct-seeded rice systems by evaluating the tolerance of various rice genotypes to the herbicide imazethapyr. By identifying genotypes with high tolerance, such as G14, the study contributes valuable insights into developing herbicide-tolerant rice varieties through breeding programs. These findings are vital for improving crop productivity, reducing reliance on manual weeding, and ensuring sustainable rice cultivation under changing environmental and labor constraints. Additionally, the research highlights the potential of herbicide tolerance in mitigating yield losses caused by weeds, thereby supporting food security efforts globally.	
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>	The current title, " <b>Performance of rice genotypes on imazethapyr herbicide tolerance in direct seeded system,</b> " effectively conveys the primary focus of the study. However, it can be slightly refined for clarity and broader appeal.  <b>Suggested Alternative Title:</b>  " <b>Evaluation of Rice Genotypes for Tolerance to Imazethapyr Herbicide in Direct-Seeded Rice Systems</b> "	

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<p><b>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.</b></p>	<p>The article's abstract is generally well-structured, effectively outlining the purpose, methodology, findings, and conclusions. It can be improved, though, by adding a few more points to increase impact and clarity:</p> <p>Implications for Enhancement: To put the study's relevance in perspective, briefly discuss the importance of herbicide tolerance in rice farming and the difficulties in controlling weeds in direct-seeded systems.</p> <p>Make Methodology Clear: Give readers an explanation of the criteria or scoring system used to evaluate phytotoxicity so they can better understand how tolerance was assessed.</p> <p>Emphasis Greater Consequences: Give examples of how the results improve resource efficiency, lower labor costs, or lessen environmental effects in order to support sustainable agriculture.</p> <p>Avoid Repetition: The information regarding the preparation and application of herbicides should be simplified as it may be more pertinent to the methods section.</p>	
<p><b>Is the manuscript scientifically, correct? Please write here.</b></p>	<p>The manuscript appears to be scientifically correct based on the provided content. It employs a logical experimental design and follows appropriate methodologies to assess the phytotoxicity tolerance of rice genotypes to imazethapyr herbicide. The study includes critical elements such as a clear aim, detailed methodology, and data analysis, leading to valid conclusions. However, a few aspects could be further examined to ensure rigor:</p> <p><b>Positive Observations:</b></p> <ol style="list-style-type: none"> <li><b>Experimental Design:</b> The pot culture experiment with three replications is a standard approach for controlled studies.</li> <li><b>Detailed Methodology:</b> The preparation and application of the herbicide, scoring of phytotoxicity, and data collection are well-documented.</li> <li><b>Results Interpretation:</b> The distinction between tolerant, moderately tolerant, and susceptible genotypes is clearly explained, with implications for breeding programs highlighted.</li> </ol> <p><b>Points to Verify:</b></p> <ol style="list-style-type: none"> <li><b>Statistical Analysis:</b> The manuscript does not explicitly mention the statistical methods used to analyze the results. Including details on ANOVA or other tests to validate significant differences between genotypes would strengthen the scientific rigor.</li> <li><b>Environmental Factors:</b> While the study was conducted under controlled conditions, variability in environmental factors such as humidity or temperature should be addressed, as they can influence herbicide effectiveness.</li> <li><b>Broader Implications:</b> The discussion could benefit from deeper analysis of how these findings translate to field conditions, considering the variability in soil types, water availability, and weed species.</li> </ol>	
<p><b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b></p>	<p>The manuscript includes a good number of references, many of which are relevant and recent, such as studies published in the 2010s and early 2020s. However, there are areas where the references could be expanded to provide a more comprehensive foundation and context for the study. Below is an assessment:</p>	
<p><b>Is the language/English quality of the article suitable for scholarly communications?</b></p>		
<p><b>Optional/General</b> comments</p>		

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**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <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>
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

**Reviewer Details:**

Name:	<b>Aashish Gyawali</b>
Department, University & Country	<b>Institute of Agriculture and Animal Sciences, Tribhuvan University, Nepal</b>