

### Review Form 3

Journal Name:	<a href="#">Journal of Advances in Biology &amp; Biotechnology</a>
Manuscript Number:	Ms_JABB_129623
Title of the Manuscript:	Effect of new molecules of herbicide on weed infestation, growth and yield of kharif Rice
Type of the Article	Original Research 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 significantly contributes to the scientific community by providing insights into the efficacy of new herbicidal molecules for managing weed infestation in kharif rice, a staple crop critical to global food security. The study offers practical recommendations for achieving higher yields and effective weed control, highlighting alternatives like UPH-814 and bensulfuron methyl + pretilachlor, which can reduce labor dependency and improve productivity. By addressing the challenges of weed competition and herbicide resistance, the research paves the way for sustainable and economically viable weed management practices in rice cultivation. The findings also serve as a valuable resource for researchers and agricultural practitioners aiming to enhance crop productivity under diverse agroecological conditions.	
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>	The title of the article, " <i>Effect of New Molecules of Herbicide on Weed Infestation, Growth, and Yield of Kharif Rice</i> ," is clear and descriptive, capturing the study's focus on herbicide evaluation and its impacts on rice cultivation.	

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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 abstract of the article is comprehensive, as it provides a concise overview of the study's objectives, methodology, key findings, and conclusions. However, there are opportunities to enhance its clarity and effectiveness. Here are some suggestions:</p> <p><b>Additions:</b></p> <ol style="list-style-type: none"> <li><b>1. Include Specific Weed Control Efficiency Values:</b> Mentioning the exact weed control efficiency (e.g., 74.79% for T6) would strengthen the impact of the findings.</li> <li><b>2. Highlight Economic Implications:</b> Briefly discuss the cost-effectiveness or economic benefits of using the herbicides evaluated.</li> <li><b>3. Environmental Considerations:</b> If applicable, indicate whether the herbicides had any environmental or sustainability benefits.</li> </ol> <p><b>Deletions:</b></p> <ol style="list-style-type: none"> <li><b>1. Repetition of Terms:</b> Phrases like "without phytotoxic effects on rice" could be condensed since this is covered in the results summary.</li> <li><b>2. Overly Broad Statements:</b> Avoid generic statements such as "contributing to higher yield outcomes" without providing quantitative evidence or comparison.</li> </ol>	
<p><b>Is the manuscript scientifically, correct? Please write here.</b></p>	<p>The manuscript appears to be scientifically sound, as it follows established research methodologies and presents its findings with appropriate statistical analyses. Here are the key points supporting its scientific validity:</p> <ol style="list-style-type: none"> <li><b>1. Study Design:</b> The experiment was conducted using a Randomized Block Design (RBD), which is suitable for agricultural field trials, ensuring reliable and replicable results.</li> <li><b>2. Detailed Methodology:</b> The manuscript clearly describes the experimental setup, including treatment details, application rates, and data collection protocols. This transparency allows for replication and validation of the study.</li> <li><b>3. Statistical Analysis:</b> Data were analyzed using methods described by Gomez and Gomez (1984), a standard reference in agricultural research. This lends credibility to the interpretation of results.</li> <li><b>4. Comprehensive Results:</b> The manuscript provides in-depth analysis, including weed population, dry weight, weed control efficiency, and yield parameters, which collectively support the conclusions.</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 references cited in the manuscript are relevant and cover essential aspects of weed management, herbicide efficacy, and rice productivity.</p>	
<p><b>Is the language/English quality of the article suitable for scholarly communications?</b></p>	<p>The language quality of the manuscript is generally suitable for scholarly communication, as it is formal and follows the conventions of academic writing.</p>	
<p><b><u>Optional/General</u> comments</b></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>Tribhuvan University, Institute of Agriculture and Animal Sciences, Nepal</b>