

Review Form 1.7

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_111754
Title of the Manuscript:	Performance of post-emergence herbicide combinations on weed management and crop yield in direct seeded rice (Oryza sativa L.)
Type of the Article	

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PART 1: Review Comments

	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)
<p><u>Compulsory</u> REVISION comments</p> <ol style="list-style-type: none"> Is the manuscript important for scientific community? (Please write few sentences on this manuscript) Is the title of the article suitable? (If not please suggest an alternative title) Is the abstract of the article comprehensive? Are subsections and structure of the manuscript appropriate? Do you think the manuscript is scientifically correct? Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<ol style="list-style-type: none"> Does the use of herbicides have no impact on the environment in the future? It is best to explain the advantages of this method so that it can be implemented by farmers, especially for social and economic purposes that support health. What is the economic and environmental value of this method? Use of literature should be at least 5 years if it is in the form of research results. 	<p>Yes herbicides do effect the environment, but we cannot overlooked the fact that direct seeded rice is being promoted as an emerging technology to combat climate change as it is easy to practice and it required less water also it can be harvested 10-15 days earlier than convetional transplanting rice, thus faciliating timely establishment of wheat crop in indo gangetic plains of India. DSR acreage is increasing at a rapid rate in India.</p> <p>Weeds are the most serious problem of DSR. Although many ecological methods are available its practice is not much popular. Moreover hand weeding is a costly affair, and when weeds like echinochloa crussgali are present which are difficult to distinguish, manual weeding is not succesful. Herbicides serves as an effective tool against all these shortcomings.</p> <p>As we know herbicides are an important tool for weed control in direct-seeded rice, it's crucial to use them judiciously, considering both short-term and long-term environmental implications. Integrated approaches and responsible use, coupled with ongoing research and innovation, are key components of sustainable weed management practices. For integrated approach we do need research about new herbicdes combinations efficacy and standarisation of its dose. So research pertaining to herbicide use is do needed for succesful cultivation of DSR. Moreover herbicides are less costly and in particular the herbicides used in this experiment belong to ALS and ACCase inhibitor group, and their speciality is that they are required in very less amount (in the range of 5-150 g ha⁻¹) sot hey do not effect the environment as much compared to other herbicides group.</p> <p>As there is one famous quote</p> <p>“Everything is a poison, nothing is a poison. It is the dose that makes the poison”</p> <p>— Paracelsus</p> <p>So if we use the right dose in right way it will not be a problem.</p> <p>This work is part of a MSc thesis. In future we will keep the reviewer comment in view while designing new experiment.</p>
<p><u>Minor</u> REVISION comments</p> <ol style="list-style-type: none"> Is language/English quality of the article suitable for scholarly communications? 		
<p><u>Optional/General</u> comments</p>		<p>We are very much thankful for thorough reviewing of the manuscript by the reviewer and the editorial board.</p>

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PART 2:

	Reviewer's comment	Author's comment <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>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	No issue