

### Review Form 3

Journal Name:	<a href="#">International Journal of Plant &amp; Soil Science</a>
Manuscript Number:	Ms_IJPSS_130245
Title of the Manuscript:	<b>“Weed management indices and its relevance in weed science research”</b>
Type of the Article	<b>Review Article</b>

#### **General guidelines for the Peer Review process:**

This journal’s peer review policy states that **NO** manuscript should be rejected only on the basis of ‘**lack of Novelty**’, provided the manuscript is scientifically robust and technically sound.

To know the complete guidelines for the Peer Review process, reviewers are requested to visit this link:

<https://r1.reviewerhub.org/general-editorial-policy/>

#### **Important Policies Regarding Peer Review**

Peer review Comments Approval Policy: <https://r1.reviewerhub.org/peer-review-comments-approval-policy/>

Benefits for Reviewers: <https://r1.reviewerhub.org/benefits-for-reviewers>

#### **PART 1: Comments**

	<b>Reviewer’s comment</b>	<b>Author’s Feedback</b> <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 holds significant importance for the scientific community as it provides a comprehensive evaluation of weed management strategies and their performance, which is crucial for enhancing crop productivity. By focusing on weed indices, it offers valuable insights into the tools and metrics used to assess the impact and efficacy of various management methods. This understanding aids in optimizing resource allocation, improving decision-making processes, and advancing research in sustainable agriculture. Furthermore, the manuscript contributes to bridging knowledge gaps, fostering innovation in weed management, and supporting global efforts to ensure food security.	

### Review Form 3

<p><b>Is the title of the article suitable? (If not please suggest an alternative title)</b></p>	<p>yes</p>	
<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>Suggestions for Improvement:</p> <ul style="list-style-type: none"> <li>• Enhance clarity and precision: The abstract uses broad statements like "Weeds are one of the most important biotic factors," but it would be helpful to specify why they are important (e.g., prevalence, types of crops affected, economic impact).</li> <li>• Include a more defined problem statement: Briefly highlight the challenges associated with weed management, such as limitations of existing methods or gaps in research.</li> <li>• Specify the role of weed indices: The mention of "weed indices" is important but underexplained. It would help to briefly state what these indices are and how they contribute to evaluating weed management strategies.</li> <li>• State the scope of the article: Specify if the article focuses on comparing methods, analyzing indices, or suggesting improvements to weed management strategies.</li> </ul>	
<p><b>Is the manuscript scientifically, correct? Please write here.</b></p>	<ul style="list-style-type: none"> <li>• Replace "Weed compete with crops for light, water, space and nutrients, that's by reduce crop yield and quality" with "Weeds compete with crops for light, water, space, and nutrients, thereby reducing crop yield and quality."</li> <li>• "Because of their ability to persist and spread through the many reproduction and dispersal of dormant seeds/vegetative propagules" is grammatically awkward. Simplify to: "Weeds persist and spread through the reproduction and dispersal of dormant seeds and vegetative propagules."</li> <li>• The manuscript jumps between different ideas (e.g., yield losses, indices, herbicidal methods) without clear transitions. Reorganize sections to follow a logical progression:             <ol style="list-style-type: none"> <li>1. Define the problem (weed competition and impact).</li> <li>2. Discuss management challenges (e.g., persistence, impact of modern farming practices).</li> <li>3. Introduce weed management strategies.</li> </ol> </li> </ul>	

### Review Form 3

	<p>4. Explain weed indices as tools for assessment.</p> <ul style="list-style-type: none"> <li>• The manuscript could better explain what weed indices measure (e.g., weed competition, herbicide effectiveness, crop resistance). For instance, it could state: "Weed indices, such as Weed Competition Index (WCI) and Weed Control Efficiency (WCE), quantify the competitive ability of weeds and the efficacy of control measures."</li> <li>• The phrase "under changing climatic senario" is vague. Specify which climatic factors (e.g., rising temperatures, altered precipitation patterns) exacerbate weed problems.</li> <li>• The manuscript repeats the idea that weeds increase production costs and degrade yield. Consolidate these points for brevity.</li> </ul>	
<b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b>	Add few recent reference	
<b>Is the language/English quality of the article suitable for scholarly communications?</b>	Ok	
<b><u>Optional/General</u> comments</b>		

### **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>Karthikkumar A</b>
Department, University & Country	<b>TNAU, India</b>