

**Review Form 3**

Journal Name:	<a href="#">Journal of Scientific Research and Reports</a>
Manuscript Number:	Ms_JSRR_125403
Title of the Manuscript:	Impact of Climate Change on Flowering Patterns and Productivity in Floriculture- A review
Type of the Article	Review Article

### Review Form 3

#### PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	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)
<p><b>Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.</b></p>	<p>This manuscript is significantly important for the scientific community as it offers a comprehensive review and investigate the factors influencing flowering patterns and productivity of floricultural crops. It examines into the complex interplay of genetic, environmental, and physiological triggers, making it a valuable resource for researchers studying plant biology, especially in relation to climate change and agricultural productivity. I particularly appreciate the manuscript's attention to the impacts of climate variability on flowering patterns and its focus on adaptive strategies, including breeding climate-resilient varieties. However, for the common growers how doesn't understand technical language, may make it less accessible to a broader audience outside of the specialized fields of floriculture and plant physiology.</p>	
<p><b>Is the title of the article suitable? (If not please suggest an alternative title)</b></p>	<p>The title is clear and descriptive, only one word may be added before review as "<i>The Impact of Climate Change on Flowering Patterns and Productivity in Floriculture: A Comprehensive Review</i>". Its only suggestive If author and editors thinks of not including this suggestion then it's also ok.</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>The abstract provides a comprehensive overview of the study and is well-structured. The abstract covers key aspects of the study. But a few adjustments could enhance its clarity and impact more. Suggestions are:            1. Add one-two lines about the economic impact of the floriculture industry, highlighting how climate change affects the financial aspects of the industry, it may strengthen the study's relevance.            2. As author mentioned about adaptive strategies like breeding and optimized agronomic practices Alongside author may also briefly elaborating on how these have been implemented or their current success could add depth in one or two lines.</p>	
<p><b>Are subsections and structure of the manuscript appropriate?</b></p>	<p>Yes, the subsections and structure of the manuscript are well-organized and maintain a symmetry throughout. The systematic flow of the sections and subsections enhance its clarity and ensure research quality.</p>	
<p><b>Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.</b></p>	<p>The manuscript titled "The Impact of Climate Change on Flowering Patterns and Productivity in Floriculture: A Review" demonstrates scientific robustness and technical soundness due to its well-structured examination of key factors affecting flowering patterns, grounded in peer-reviewed literature. The analysis integrates diverse environmental triggers such as temperature, photoperiod, and CO<sub>2</sub> levels, alongside physiological mechanisms, presenting a balanced view of how climate change impacts floriculture. Additionally, the manuscript applies contemporary research techniques like digital phenotyping and genetic markers, enhancing its scientific credibility. Its comprehensive discussion on adaptation strategies underscores a forward-looking approach, addressing both immediate and long-term challenges in floricultural practices. Some suggestions for the manuscript are:            1. In the sections discussing genetic markers and molecular assays for flowering control, you could expand on cutting-edge techniques like CRISPR-Cas9 for precise genetic modifications. This would add depth to the discussion on breeding climate-resilient varieties.            2. Add a section discussing how predictive climate models can be integrated into decision-making for floricultural production. Explain how tools like crop simulation models (e.g., DSSAT, APSIM) can be adapted for floriculture to optimize planting schedules and climate resilience.            3. If possible, discuss the use of AI and machine learning in predicting and managing climate-related risks for floriculture in one paragraph.            4. Consider adding a sustainability section, elaborating on the role of sustainable floriculture in mitigating the effects of climate change.            5. Highlight Policy Implications.</p>	
<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 are sufficient and reflecting the current state of research on the "<i>The Impact of Climate Change on Flowering Patterns and Productivity in Floriculture: A Review</i>". The cited literature effectively supports the arguments presented.</p>	

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Minor REVISION comments <b>Is the language/English quality of the article suitable for scholarly communications?</b>	The language and overall quality of English in the article are appropriate for scholarly communication. The manuscript is clearly written with well-structured sentences that convey central theme of the manuscript effectively. The use of academic terminology is consistent and accurate, enhancing the manuscript's professionalism and fine sense of researcher about academics. Overall, the writing meets the standards expected in academic publishing.	
<b>Optional/General</b> comments	I would like to suggest that one section can also be included for limitation of present to enhance the manuscript's relevance. Along with this, objectives/ purpose of the study can be outlined under a separate subheading to clearly highlight the research focus. Similarly, including a section for hypotheses and testing these hypotheses in discussion part; may add more depth to the study, making it more relevant by providing a basis for verifying the results. This approach may strengthen the structure and ensure a more scientifically robust analysis.	

### **PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> (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)
<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:**

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