

### Review Form 3

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|--------------------------|---|
| Journal Name:            | <a href="#">International Journal of Environment and Climate Change</a> |
| Manuscript Number:       | Ms_IJECC_125828   |
| Title of the Manuscript: | Hydroponics in Spices and Aromatics: A Review                           |
| Type of the Article      | Review Article  |

#### **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**

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**PART 1: Review Comments**

| <b>Compulsory</b> REVISION comments  | <b>Reviewer's comment</b>  | <b>Author's Feedback</b> (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here) |
|--|--|---|
| <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>                        | This manuscript provides a thorough review of the current state of hydroponics as applied to spices and aromatic plants. Given the global shift toward urbanization and the increasing challenges posed by climate change and declining arable land, the manuscript is timely. It addresses the growing need for sustainable agricultural practices and highlights how hydroponics can offer significant advantages in both yield and quality enhancement, especially for spices with medicinal and culinary uses. The review is beneficial for researchers and practitioners looking to explore hydroponics for these crop types, particularly in urban settings where traditional farming may not be feasible. |   |
| <b>Is the title of the article suitable? (If not please suggest an alternative title)</b>  | Yes, the title is suitable as it clearly conveys the scope of the manuscript. However, a more specific title could be considered, such as <i>Hydroponic Cultivation of Spices and Aromatics: Techniques, Benefits, and Challenges</i> , to emphasize the technological focus of the review.  |   |
| <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>   | The abstract covers the key points effectively but could benefit from more clarity in highlighting the specific challenges of hydroponics for these crops. I suggest adding a sentence about the challenges in implementing hydroponics on a larger scale for spices and aromatics and how the review addresses these challenges.  |   |
| <b>Are subsections and structure of the manuscript appropriate?</b>  | The structure is well-organized with clear sections discussing the classification of hydroponic systems, nutrient solutions, and growing media. However, the discussion on challenges could be expanded to include more specifics about the technical limitations and economic constraints of adopting hydroponics in different regions.   |   |
| <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> | The manuscript is scientifically sound and technically robust, as it draws on a wide range of sources to provide an in-depth review of hydroponic practices. The discussion on nutrient solutions and the benefits of different hydroponic systems for spices and aromatics is particularly strong. However, some areas, like the long-term sustainability and scalability of hydroponic systems in different climates, could be explored further.   |   |
| <b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b>   | The references are sufficient and fairly recent, covering a broad spectrum of hydroponic research. However, the inclusion of more recent studies, particularly post-2022 research, would strengthen the review.  |   |
| <b>Minor</b> REVISION comments   |  |   |
| <b>Is the language/English quality of the article suitable for scholarly communications?</b>   | The language is mostly suitable for scholarly communication, but there are areas where clarity could be improved. For instance, some sentences are overly complex and may benefit from being split into shorter, more concise statements. Technical terms should be clearly defined when first introduced to ensure accessibility for a broader audience.  |   |
| <b>Optional/General</b> comments   |  |   |

**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> |  |

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**Reviewer Details:**

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|----------------------------------|------------------------------------|
| Name:                            | <b>Lokendra Khatri</b>             |
| Department, University & Country | <b>Tribhuvan University, Nepal</b> |