

Review Form 1.7

Journal Name:	Current Journal of Applied Science and Technology
Manuscript Number:	Ms_CJAST_110777
Title of the Manuscript:	Vertical Farming: The future of controlled-environment agriculture and food-production system
Type of the Article	Review Article

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PART 1: Review Comments

	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>
<p>Compulsory REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p>	<p>Yes, the manuscript has the potential to be very important for the scientific community. Here's why:</p> <p>1. Timely and relevant topic: Vertical farming and controlled-environment agriculture (CEA) are rapidly growing fields with immense potential to address crucial challenges like food security, resource scarcity, and climate change. Research in this area is highly sought after and can have significant impact.</p> <p>2. Broad appeal: The title encompasses two key aspects: vertical farming, a specific technology, and CEA, a broader system. This attracts interest from researchers across various disciplines – engineering, plant science, environmental science, food science, etc.</p> <p>3. Open-ended question: The title poses a bold question ("The future of...") which invites investigation and critical analysis. This can lead to groundbreaking research with far-reaching implications.</p> <p>Yes, the title is highly suitable. Overall, the title is excellent and well-suited to attract interest and accurately represent the research. As long as the content and writing style also deliver on the promise set by the title, this paper has the potential to be well-received and impactful within the scientific community.</p> <p>The abstract focuses narrowly on the manuscript's significance, neglecting to highlight key subsections of the manuscript. The current abstract prioritizes promoting the manuscript, while a balanced summary requires representation of diverse sections found in your manuscript such as; technologies of vertical farming, crop choice, fertigation in vertical farming & plant-growing media in a vertical farm, scenario of vertical farming in India and around world, challenges associated with vertical farming, opportunity associated with vertical farming, the future potential of vertical farming and conclusion. Include a brief summary of each section in your abstract.</p> <p>The manuscript's structure and subsections flow seamlessly, demonstrating the author's strong ability to organize complex information. Their critical thinking and evaluation skills shine throughout, as they expertly utilize academic sources to arrive at well-reasoned judgments and conclusions on intricate issues. The thorough review of relevant literature and engagement with key theories further highlights their deep understanding of the research domain.</p> <p>One minor suggestion for improvement concerns the subsections and order of arrangement. Check below for full information.</p> <p>This manuscript stands out for its scientific rigor. The research methodology is meticulous, ensuring accuracy and reliability. The chosen data sources are not only relevant but also of top-notch quality, further strengthening the study's validity. Its conclusions are backed by clear, compelling evidence, leaving little room for doubt. The author demonstrates a deep grasp of the existing literature on vertical farming, controlled-environment agriculture and food-production system, seamlessly weaving it into the research fabric. They don't shy away from limitations, engaging in a thoughtful discussion of the findings and highlighting potential avenues for future exploration and conclusion. This level of intellectual honesty and transparency solidifies the manuscript's scientific merit.</p>	

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<p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>While the reference list for this 5,047-word manuscript largely caters to its scope, some entries raise concerns about their age. References like #14 from 1992 by Jarvis on managing greenhouse diseases, fall outside the standard range for current scholarship. Updating these older references with more recent contributions in the field would strengthen the manuscript's grounding in contemporary knowledge .It is listed as follows;</p> <p>14. Jarvis, W R. Managing disease in greenhouse crops. St Paul, Minn, USA: American Phytopathological Society, 1992; ISBN: 9780890541227</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>The language and English quality of the manuscript are good for a review article. With some minor revisions to improve clarity, conciseness, and flow, the text would be suitable for publication in a scholarly journal. See the few highlighted cases for your review.</p>	
<p>Optional/General comments</p>	<p>1. What is the major difference between these two sections? Technologies of Vertical farming and Miscellaneous Issues (Hydroponics, Aquaponics, & Aeroponics). The material found in Miscellaneous Issues (Hydroponics, Aquaponics, & Aeroponics) is the same as the other sub-section. Furthermore the Aquaponics theme is poorly represented under the Miscellaneous Issues (Hydroponics, Aquaponics, & Aeroponics) subheading. Transfer the material under Miscellaneous Issues (Hydroponics, Aquaponics, & Aeroponics) to the main section called Technologies of Vertical farming.</p> <p>2. Table 1(Vertical Farming systems around the world) is placed in the wrong section. Transfer it to "Technologies of Vertical farming" section.</p> <p>3. Give some background introduction for this section (Fertigation in Vertical farming & Plant-Growing Media in a Vertical Farm). Define what is Fertigation and the basic concept before going to the scientific elements discussed.</p> <p>4. This section should be transferred to come immediately after the introduction section- (Scenario of vertical farming in India and around world).</p> <p>5. Rephrase the section – (crop choice) to this (Optimizing Crop Selection and Fertigation Strategies for Yield Enhancement)</p>	

PART 2:

	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>Are there ethical issues in this manuscript?</p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

Reviewer Details:

<p>Name:</p>	<p>Lawrence Kabuthi Kabinga</p>
<p>Department, University & Country</p>	<p>The Kenya Institute of Management, Kenya</p>