

Review Form 1.6

Journal Name:	International Journal of Plant & Soil Science
Manuscript Number:	Ms_IJPSS_87754
Title of the Manuscript:	USE OF DIFFERENT ARTIFICIAL LIGHTING SPECTRA WITH LEDS IN INDOOR PRODUCTION OF ARUGULA MICROGREENS (<i>Eruca sativa</i>)
Type of the Article	Research

General guideline for 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 guideline for Peer Review process, reviewers are requested to visit this link:

(<https://www.journalijpss.com/index.php/IJPSS/editorial-policy>)

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)
Compulsory REVISION comments	<p>This may be a helpful study and provide some practical results for planting microgreens in vertical farming. However, the paper has some shortcomings regarding some data and text, and this content has not been utilized to its full extent.</p> <ol style="list-style-type: none"> 1. The description of the fertilizer applications is not clear, which is marked in YELLOW. Is it using the mentioned amount to dissolve in water? 2. Table 3 is a raw statistical result, and it is hard to provide useful information to readers. A table including the average biomass, the growth rate, or the other useful information between the six treatments is highly suggested. 3. Some format mistakes or inconsistencies are marked in RED in the manuscript, and '<i>Eruca sativa</i>' should be the more commonly used spelling for arugula. 	
Minor REVISION comments	<ol style="list-style-type: none"> 1. Only using fresh weight and dry weight as the indicators for production is insufficient. The germination date or the performance of microgreens could be provided to give more information about the benefits of the LEDs supplement in vertical farming. 2. The distance of the LED panels to plants or the intensities of light should be provided. 3. The experiment design includes six treatments and five replications (trays) per treatment. Finding the block for the experimental designs is confusing through the materials and methods. 	
Optional/General comments	There are few references for introduction and discussion about the effects of different LEDs on crop growing. More searches in the scholar database with "LED" and "vertical farming" are suggested.	

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

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