

## Review Form 1.7

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| Journal Name:            | <b>International Journal of Plant &amp; Soil Science</b>   |
| Manuscript Number:       | <b>Ms_IJPSS_105424</b>   |
| Title of the Manuscript: | <b>Effect of Molybdenum on leaf chlorophyll and biomass yield of Cowpea (<i>Vigna unguiculata</i>)</b> |
| Type of the Article      |  |

### **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> )

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**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) |
|--|---|---|
| <p><b>Compulsory</b> REVISION comments</p> <p>1. <b>Is the manuscript important for scientific community?</b><br/>(Please write few sentences on this manuscript)</p> <p>2. <b>Is the title of the article suitable?</b><br/>(If not please suggest an alternative title)</p> <p>3. <b>Is the abstract of the article comprehensive?</b></p> <p>4. <b>Are subsections and structure of the manuscript appropriate?</b></p> <p>5. <b>Do you think the manuscript is scientifically correct?</b></p> <p>6. <b>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></p> <p><b>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</b></p> | <p><b>Yes</b></p> <p><b>It is</b></p> <p>It may be revised for better readability</p> <p>Yes. The structure is alright. However, the contents may be improved by adding relevant references.<br/>yes</p> <p>The Ms requires more references, especially in the introduction, results and discussion sections.</p>   |   |
| <p><b>Minor</b> REVISION comments</p> <p>1. <b>Is language/English quality of the article suitable for scholarly communications?</b></p>   | <p>The English in the MS requires major revision with the aid of a native English speaker. Another viable option may be to use software such as Grammarly to correct grammatical errors. Further proper use of capitalization should also adhere consistently in both the abstract and Ms.</p>  |   |
| <p><b>Optional/General</b> comments</p>  | <p><b>Abstract:</b> This section requires corrections about the construction of the sentences. The abstract could be more concise and specific.</p> <p><b>Introduction:</b> While the introduction mentions the importance of molybdenum and cowpea, it needs to clearly outline the research gap or the specific contribution of this study to the existing knowledge in the field.</p> <p><b>Materials and methods:</b></p> <ol style="list-style-type: none"> <li>1. The section needs more thorough details about the experimental setup. Important factors like pot size, type of growth media, and environmental conditions (e.g., temperature, light, humidity) are missing.</li> <li>2. Provide a brief rationale for choosing the specific experimental design (factorial randomized block design) and explain how it effectively helps answer the research questions.</li> <li>3. The section may also be broken up into sub-sections to aid in readability</li> </ol> <p>Results and discussion:</p> <ol style="list-style-type: none"> <li>1. the "Results and Discussion" section could benefit a clearer organization. Further, the discussion would benefit from more explicit comparisons of the current study's findings with the existing literature</li> <li>2. The discussion doesn't explain observed trends or unexpected outcomes. Offering plausible explanations supported by existing scientific knowledge would strengthen the discussion.</li> <li>3. When discussing findings related to molybdenum's role in plant growth, chlorophyll</li> </ol> |   |

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|  | <p>synthesis, and nodule formation, provide citations that explain the underlying biochemical and physiological mechanisms.</p> <p>Conclusion: The conclusion doesn't explicitly reference specific results from the study. Relating the conclusions to the data presented earlier in the manuscript would strengthen the conclusion's credibility. The conclusion is relatively brief and needs more depth. It needs to thoroughly discuss the implications of the study's findings for agricultural practices, economic considerations, or potential benefits to farmers.<br/>Tables caption may also be provided</p> <p>References: Adding the latest references can also significantly improve the manuscript.</p> <p>Language and Clarity:<br/>The manuscript is generally well-written, but some sentences are quite lengthy and complex. It would be beneficial to break down these sentences into smaller, clearer segments to improve readability. Additionally, ensure consistent use of terminology and formatting throughout the manuscript.</p> <p>Overall comments: Some claims and statements need proper citations to support them. Citations are crucial to demonstrate the scientific basis of the claims and to acknowledge previous research in the field. The MS provides valuable insights. With some revisions and clarifications, the manuscript has the potential to significantly contribute to soil science. Incorporation of the above statement will significantly aid the article in gaining more readership.</p> |  |
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**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:**

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|----------------------------------|-----------------------------------|
| Name:                            | <b>Watitemjen</b>                 |
| Department, University & Country | <b>Nagaland University, India</b> |