

**Review Form 1.7**

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|--------------------------|---|
| Journal Name:            | <b>Journal of Advances in Biology &amp; Biotechnology</b> |
| Manuscript Number:       | <b>Ms_JABB_119938</b>                                     |
| Title of the Manuscript: | <b>NANOPARTICLES- NANO ZINC APPLICATION IN BARLEY</b>     |
| Type of the Article      | <b>Review</b>   |

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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><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></b></p> | <p><b>Yes</b></p> <p><b>yes</b></p> <p><b>no. address the following;</b></p> <p><b>yes</b></p> <p><b>yes</b></p> <p><b>yes, needs to add more</b></p> <p>Abstract –address the punctuations e.g. caps, comas and Full stops where necessary</p> <p>Add a background on the existing challenge that has necessitated the need for nanoparticle delivery materials</p> <p>barley remains crucial in industrial applications, especially in brewing and malting industries, leading to its emergence as a commercial crop with initiatives like contract farming in regions such as Punjab, Haryana, and Rajasthan. ....Nanoparticle-based delivery systems represent advanced methods for enhancing zinc efficiency in barley plants.</p> <p>Indicate how the data was collected and analysed. How long was the study, where, experimental design highly summarised version.</p> <p><b>references especially for functionalisation of zinc</b></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>yes</p>   |   |
| <p><b>Optional/General</b> comments</p>   | <p><b>Introduction</b></p> <p>This being a review paper on use of zinc nanoparticles as delivery materials in barley production. I expect a thorough discussion on effectiveness of nanomaterials in fertilizer delivery, I expect discussion on how functionalisation materials such as chitosan, humic acid etc. Read articles such as “Effect of Biological Control Antagonists Adsorbed on Chitosan Immobilized Silica Nanocomposite on <i>Ralstonia solanacearum</i> and Growth of Tomato Seedlings” for proper understanding of the subject.</p> <p>Cite; areas where this technology has been used. What are the challenges with nanomaterials and how are the problems being addressed?</p> <p>What are the recommendations of this study?</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>Dennis Maina</b>               |
| Department, University & Country | <b>Karatina University, Kenya</b> |