

Review Form 3

| | |
|--------------------------|--|
| Journal Name: | Journal of Advances in Biology & Biotechnology |
| Manuscript Number: | Ms_JABB_125830 |
| Title of the Manuscript: | Influence of seed priming treatments on plant growth parameters of Barley (<i>Hordeum vulgare</i> L.) |
| Type of the Article | RESEARCH ARTICLE |

Review Form 3

PART 1: Review Comments

| Compulsory REVISION comments | Reviewer's comment | Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i> |
|---|--|---|
| <p>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.</p> | <ul style="list-style-type: none"> • The production of barley globally, was estimated at around 142.22 million metric tons. • Nevertheless, it has been earlier recorded that, Barley is a vigorous grain that has numerous advantages. • It is an excellent source of minerals, vitamins, and dietary fiber besides its rich antioxidant properties, that may aid in diminution of cholesterol and promote heart health. • Moreover, the data has revealed that both varieties of Barley when treated with various seed priming treatments showed substantial effects on plant growth parameters. Variety K-1055 outperformed the other varieties evaluated, signifying that it may have usage at the farmer level. | |
| <p>Is the title of the article suitable? (If not please suggest an alternative title)</p> | <p>Yes, the title of the manuscript is appropriate enough.</p> | |
| <p>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.</p> | <ul style="list-style-type: none"> ○ Yes, the abstract written is comprehensive. | |
| <p>Are subsections and structure of the manuscript appropriate?</p> | <ul style="list-style-type: none"> • Yes, they are appropriate enough illustrating the general sub-sections viz., Abstract, Introduction, Materials and Methods, Results and Discussion and Conclusion as well. • In addition, the statistical analysis has been well exemplified and depicted as Tabular forms eloquently. • Individual data from the various plant growth parameters studied in the experiment were statistically analyzed. • The standard error of the mean, a critical difference (C.D.) at 5% level of probability and coefficient of variance were calculated by adopting standard procedures. | |
| <p>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.</p> | <ul style="list-style-type: none"> • The study has elucidated that the approaches for enhancing the growth and development of crop species have been investigated for many years. • Furthermore, seed priming is a pre-sowing technique that creates a physiological condition that is more promising for successful seed germination. • Additionally, prior to the radical protrudes, seed priming regulates hydration, which initiates the regular metabolic process during the early stages of germination | |

Review Form 3

| | | |
|---|---|--|
| <p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p> | <ul style="list-style-type: none"> ○ The references cited are adequate and recent enough. | |
| <p><u>Minor</u> REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p> | <ul style="list-style-type: none"> • Increase the font size of the Title of the manuscript. • Write as a single word for "Keywords". • The usage of the English language is appropriate and aptly suitable for scholarly communications. | |
| <p><u>Optional/General</u> comments</p> | <ul style="list-style-type: none"> • Overall, the manuscript has been succinctly authored, and well-presented(elegant) with related statistical data that has been documented in the form of fine Tabular forms. | |

PART 2:

| | | |
|--|---|--|
| | <p>Reviewer's comment</p> | <p>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> |
| <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>Asma Jabeen</p> |
| <p>Department, University & Country</p> | <p>Indian Institute of Rice Research and Osmania University, India</p> |