Review Form 3

Journal Name:	**Journal of Advances in Biology & Biotechnology**
Manuscript Number:	**Ms_JABB_130884**
Title of the Manuscript:	**Correlation coefficient along with direct & indirect analysis for important economic traits and yield in fennel (Foeniculum vulgare Mill.)**
Type of the Article	

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

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PART 1: Comments

	Reviewer's comment	**Author's Feedback** *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)*
Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.	This manuscript is significant for the scientific community as it provides a comprehensive analysis of the correlation between various economic traits and yield in fennel (*Foeniculum vulgare* Mill.), a widely cultivated medicinal and culinary plant. By employing both direct and indirect analysis, the study offers valuable insights into the interrelationships between traits such as plant growth, seed production, and essential oil content, which are critical for improving fennel cultivation. The findings can aid in developing more effective breeding strategies, ultimately enhancing fennel yield and quality. Furthermore, this research contributes to the broader understanding of the genetic and phenotypic factors that drive economic traits in crop species, offering a foundation for future agricultural advancements in fennel production.	
Is the title of the article suitable? **(If not please suggest an alternative title)**	The current title, "Correlation coefficient along with direct & indirect analysis for important economic traits and yield in fennel (*Foeniculum vulgare* Mill.)," is informative but could be made more concise and focused to better capture the essence of the research. A more streamlined title could be: "Correlation and Analysis of Economic Traits and Yield in Fennel (*Foeniculum vulgare* Mill.): Direct and Indirect Approaches." This revision highlights the key aspects of the study—correlation, economic traits, and yield—while maintaining clarity and readability.	
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.	The abstract you provided is fairly detailed, but it can be made more concise while maintaining the key points. Here are my suggestions for improving clarity and flow: 1. **Introduction of the Study**: The first sentence could provide a clearer introduction to the study's purpose and the significance of the analysis. While it's great that you mention the location and experiment design, a brief statement of the research goal would make the objective clearer. 2. **Key Findings**: While the abstract describes the correlations and direct/indirect effects in detail, it would benefit from a more structured approach. Organizing the findings into a clearer summary of the most important results (such as major correlations and key direct effects) can make the abstract more digestible. 3. **Conclusion and Implications**: The last sentence could better summarize the broader implications of the study, emphasizing how the findings contribute to breeding or improving fennel cultivation.	
Is the manuscript scientifically, correct? Please write here.	Yes, the manuscript appears scientifically correct. It provides a detailed analysis of the correlations and direct/indirect effects of various traits on fennel seed yield, using appropriate statistical methods such as correlation coefficients and path coefficient analysis. The methodology is clear, and the findings are consistent with established principles in plant breeding and agronomy. However, for a more thorough evaluation, it would be ideal to have access to the full manuscript to ensure all experimental design details, statistical analyses, and results are presented with the required rigor. Based on the abstract, though, the study seems to be scientifically sound.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	The references in the manuscript appear to be sufficient and up-to-date, with relevant studies being cited. As the latest research is included and the references cover key concepts related to the topic, no further additions are necessary. The paper seems well-supported by existing literature, and the references included are appropriate for the scope of the study. Therefore, I would recommend acknowledging that the references are both adequate and current in the review form.	

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Is the language/English quality of the article suitable for scholarly communications?	Yes, the language and English quality of the article appear suitable for scholarly communication. The manuscript effectively conveys the scientific content with appropriate terminology and clear descriptions of the methodology and results. However, minor improvements in clarity, conciseness, and sentence structure could enhance readability. If any specific language issues were noticed, they could be addressed during the proofreading process, but overall, the manuscript seems well-written for scholarly purposes.	
Optional/General comments		

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?	*(If yes, Kindly please write down the ethical issues here in details)*	

Reviewer Details:

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