|  |  |
| --- | --- |
| Journal Name: | [**Asian Journal of Advances in Research**](https://www.jasianresearch.com/) |
| Manuscript Number: | **Ms\_AJOAIR\_4676** |
| Title of the Manuscript: | **Quality deterioration of Musa acuminata, Musa acuminate canvendish and Musa balbisiana in four different condition at Visakhapatnam, Andhra Pradesh, India** |
| Type of the Article |  |

|  |  |  |
| --- | --- | --- |
| **PART 1: Comments** | | |
|  | **Reviewer’s comment**  **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **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 investigates the microbial deterioration of three banana varieties (*Musa acuminata*, *Musa acuminata Cavendish*, and *Musa balbisiana*) under different storage conditions. The study provides valuable insights into fungal spoilage patterns and their implications for postharvest management. The findings contribute to understanding food preservation strategies,  particularly in tropical regions where bananas are a staple fruit. |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | The title is mostly appropriate, but "acuminate" should be corrected to "acuminata." A more refined title could be: **"Microbial Quality Deterioration of *Musa acuminata*, *Musa acuminata Cavendish*, and *Musa balbisiana* under Different Storage Conditions in Visakhapatnam, Andhra Pradesh, India."** |  |

|  |  |  |
| --- | --- | --- |
| **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 effectively summarizes the study but lacks some clarity. It should clearly state the key fungal species identified, their prevalence in different storage conditions, and the conclusion regarding optimal storage methods. Additionally, the sentence structure should be refined for better readability |  |
| **Is the manuscript scientifically, correct? Please write here.** | The study follows a systematic methodology, including sample collection, fungal isolation, and microscopic examination. However, some aspects require clarification:   * The methodology lacks details on how fungal species were identified beyond morphological characterization. Was molecular identification performed? * The discussion mentions bacterial spoilage but contradicts the abstract, which states that no bacterial growth was observed. This should be clarified. * The statistical significance of the weight loss data should be included if available. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them**  **in the review form.** | The references are generally adequate, but more recent studies (post-2020) on banana spoilage and fungal species identification should be incorporated. |  |

|  |  |  |
| --- | --- | --- |
| **Is the language/English quality of the article suitable for scholarly communications?** | The manuscript has grammatical and typographical errors, including inconsistent terminology (e.g., "Musa acuminate canvendish" instead of "Musa acuminata Cavendish"). The manuscript should undergo thorough proofreading to improve clarity and readability. |  |
| **Optional/General** comments | * The inclusion of graphs and figures enhances the study but should be accompanied by statistical analyses where applicable. * More discussion on practical storage recommendations and preventive measures would add value to the study. * The manuscript presents a relevant study on banana spoilage under different storage conditions. However, revisions are needed to enhance clarity, methodological transparency, and grammatical accuracy. Addressing these issues will strengthen the scientific impact of the study. |  |

|  |  |  |
| --- | --- | --- |
| **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:**

**Mawra Nadeem, Chulalongkorn University, Pakistan**