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| Journal Name: | [**Archives of Current Research International**](https://journalacri.com/index.php/ACRI) |
| Manuscript Number: | **Ms\_ACRI\_138692** |
| Title of the Manuscript: | **Optimizing Crop Monitoring Efficiency and Precision with Drone Technology** |
| Type of the Article | **Review Article** |

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| **PART 1: Comments** | | |
|  | **Reviewer’s comment**  **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **Author’s Feedback** *(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 a significant contribution to the scientific community, offering a comprehensive review of drone technology's role in advancing crop monitoring and precision agriculture. It synthesizes current knowledge on drone applications, highlighting their potential to enhance crop yields, optimize resource use, and reduce environmental impacts, which is critical for addressing global food security challenges. By detailing the benefits, challenges, and future research directions, the article provides valuable insights for researchers, farmers, and policymakers aiming to integrate cutting-edge technology into sustainable farming practices. Its emphasis on data-driven decision-making and practical applications makes it a pivotal resource for advancing agricultural innovation. |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | The title, "Optimizing Crop Monitoring Efficiency and Precision with Drone Technology," is suitable for the article. It clearly conveys the core focus of the manuscript, which is the application of drone technology to enhance the efficiency and precision of crop monitoring in agriculture. The title is concise, specific, and aligns well with the content, which explores drone-based systems, their benefits, applications, and challenges in precision agriculture. It effectively captures the scientific community's interest by highlighting the innovative use of drones in optimizing agricultural practices, making it both relevant and engaging for the target audience. |  |
| **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 is comprehensive, covering drone applications, benefits, and challenges in crop monitoring. I suggest adding a specific example (e.g., "nutrient management") and briefly mentioning advanced sensors (e.g., "multispectral cameras") for clarity. Refine "revolutionizing" to "transforming" for precision. No deletions are needed. |  |
| **Is the manuscript scientifically, correct? Please write here.** | The manuscript "Optimizing Crop Monitoring Efficiency and Precision with Drone Technology" is scientifically correct, accurately describing drone types, sensors, and applications in precision agriculture, supported by 93 peer-reviewed references. Claims about benefits, such as 10-20% yield increases, and challenges, like high costs and regulatory constraints, align with current literature. Minor clarification of context-specific metrics in Table 1 would enhance precision, but no significant errors were identified. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | The manuscript’s 93 references are sufficient, covering drone technology, sensors, and precision agriculture applications, with ~70% from 2010–2018, ensuring relevance. Recent citations (e.g., Ferentinos, 2018) address modern advancements, though adding 2–3 studies from 2019–2023 on AI integration and updated regulations would enhance currency. Suggested additions: Tsouros et al. (2019) for UAV applications and Kerkech et al. (2020) for deep learning in crop monitoring. |  |

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| **Is the language/English quality of the article suitable for scholarly communications?** | The English quality of the manuscript is suitable for scholarly communication, with clear, precise, and formal language that effectively conveys technical concepts like drone-based crop monitoring. Terminology is consistent, and the tone aligns with academic standards. Minor improvements could include refining repetitive phrases (e.g., "data-driven" appears frequently) and ensuring absolute consistency in acronym usage (e.g., UAV vs. drone) for enhanced polish. |  |
| **Optional/General** comments | 1. Comprehensive Content: Thoroughly covers drone types, sensors, applications, benefits, and challenges in crop monitoring, supported by 93 references. 2. Scientific Accuracy: Claims are evidence-based, with accurate technical details and relevant citations. 3. Language: Clear, formal English suitable for scholarly communication, with logical structure. 4. Improvements: Add 2–3 recent (2019–2023) references on AI/regulations; temper terms like   “revolutionizing.”   1. Clarity: Address context-specific variability; streamline repetitive phrases like “data-driven.” |  |

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| **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:**

**Pankaj Kumar Ojha, Banda University of Agriculture & Technology, India**