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| Book Name: | [**Current Research Progress in Agricultural Sciences**](https://www.bookpi.org/bookstore/product/current-research-progress-in-agricultural-sciences-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4372** |
| Title of the Manuscript: | **Assessing Economic Efficiency and Constraints of Drone Technology in Indian Agriculture Paddy Cultivation** |
| Type of the Article | **Book Chapter** |

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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 holds significant importance for the scientific community by addressing critical gaps in understanding the economic efficiency and challenges of drone technology in Indian agriculture, particularly in paddy cultivation. The study highlights how drones optimize resource use, reduce costs, and enhance farmer incomes, making it highly relevant for improving agricultural sustainability in developing countries. Furthermore, it provides valuable insights into barriers to adoption, such as cost and technical expertise, offering policymakers actionable strategies to promote technology integration. By emphasizing the role of UAVs in transforming traditional farming practices, this research contributes to advancing precision agriculture and promoting food security. |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | "Economic Impact and Adoption Barriers of Drone Technology in Indian Paddy Cultivation" |  |
| 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. | This study explores the economic efficiency and adoption challenges of drone technology in Indian agriculture, focusing on paddy cultivation in Tamil Nadu. By employing Data Envelopment Analysis (DEA), the research reveals that drones enhance economic efficiency by nearly 90%, reduce cultivation costs by 30%, and increase farmer income by 41%. Drones optimize resource use through precision interventions, improving yields and profitability while addressing labor shortages. However, challenges such as high initial costs, lack of technical expertise, and limited availability hinder widespread adoption. The findings highlight the potential of UAVs to transform agriculture and offer actionable insights for policymakers to promote their integration through subsidies and farmer training programs. |  |
| **Is the manuscript scientifically, correct? Please write here.** | Yes, the manuscript appears to be scientifically correct, with data-driven analyses and appropriate methodologies supporting its conclusions. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | Yes, the manuscript appears to be scientifically correct, with data-driven analyses and appropriate methodologies supporting its conclusions. |  |
| Is the language/English quality of the article suitable for scholarly communications? | The language of the article is generally suitable for scholarly communication, but it could benefit from minor refinements for clarity, conciseness, and grammatical accuracy to enhance readability and impact. |  |
| Optional/General comments | The manuscript addresses a relevant and timely topic with valuable insights into drone technology in agriculture. Minor improvements in language and structure could further enhance its clarity and scholarly appeal.  The manuscript provides a comprehensive analysis of the economic efficiency and challenges of drone technology in Indian paddy cultivation. It is well-structured and impactful but could benefit from minor language refinements and concise data presentation. |  |

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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)* |  |

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| **Reviewer Details:** | |
| Name: | **Sumana Balo** |
| Department, University & Country | **GIET University, India** |