

### Review Form 3

Journal Name:	<b>Journal of Experimental Agriculture International</b>
Manuscript Number:	<b>Ms_JEAI_123576</b>
Title of the Manuscript:	<b>Precision Agriculture: Transforming Farming Efficiency with Cutting-Edge Smart Technologies- A Comprehensive review</b>
Type of the Article	<b>Review Article</b>

#### **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: Review Comments**

<b>Compulsory</b> REVISION comments	<b>Reviewer's comment</b>	<b>Author's Feedback</b> <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<b>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.</b>		
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>		
<b>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.</b>		
<b>Are subsections and structure of the manuscript appropriate?</b>		
<b>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.</b>		
<b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b>		

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<p>Minor REVISION comments</p> <p><b>Is the language/English quality of the article suitable for scholarly communications?</b></p>		
<p><b>Optional/General</b> comments</p>	<p><b>Abstract:</b>            Line 8: “The current study provides specifics on the development and application of Internet of Things (IoT) and artificial intelligence (AI) in precision farming” - sentence meaning is not proper.</p> <p><b>Introduction:</b>            Line 2: “Careful control of all inputs is necessary for the sustainability of a system this complicated” – sentence is not proper            Line 10:” The best time to irrigate the crops may also be determined by forecasting and understanding whether or not it will rain” – “whether” or “weather”            Line 12: “Weather has an impact on crop growth as well as transportation and harvesting logistics”            “For the weight of the harvesting machinery to be supported, the soil needs to be adequately dry”.- sequence of meaning has to be followed- the first line and the next are not having any connection.            Line 20: “. If business owners are aware of the locations and routes that may be affected by rain, they can make better-informed judgments regarding the fastest ways to deliver their meals” – the sentence is irrelevant for farming topic.            Line 30: “PA is dependent on specific hardware, software, and information technology services.” – justify with some reference.            Line 33:” . Precision Predictive Analytics 4 The data is utilized by the Farming in Modern Agriculture 63 program to offer farmers guidance and suggestions for crop rotation, soil management, ideal planting periods, and harvesting schedules.” – meaningless and wrongly type statement .            Line 41 : “The farmer will be able to avoid wasting water and producing runoff, and it will also save expenses and lessen the farm's environmental effect” – sentence formation is not proper.            Line 77:” <u>PAF</u> uses IoT to process the effective communication of several wireless sensors, increasing farmer output” – expansion of abbreviation has to be provided while using for the first time.            Line 82: “In order to create a more effective autonomous smart irrigation system model, the author talked about combining deep learning and machine learning models, such as Support Vector Machine (SVM), with the Internet of Things.” – framing of sentence is not proper, many terms have been used. Clarify.            Page 4, Line14 &amp; Line 21: seem to explain the same concept, why to repeat? “They went into depth on how unmanned aerial vehicles and augmented reality are used in contemporary PA.”&amp; “They went into great depth about how remote sensing photos and plant-specific photographs may be used to automate crop monitoring”.            Line 98:” <u>The authors</u> described in detail the yield mapping” – This way of representation is not proper.            Line99: “AI and machine vision-based leaf stomata features, and the machine learning-based vegetation index for the PA that is driven by satellites” – meaningless sentence.            Line 93: “ A thorough discussion is held on the use of <u>blockchain and information and communication technologies</u> in the development of PA (Hu <i>et al.</i> 2021). – continuous usage of and.            Page 12, Line 17:” Proximate sensors can measure” incomplete.</p> <p>Page 15, Line10 : “<u>Cropin</u> is in the forefront of utilizing these technologies to make agriculture smarter. Through APIs, <u>Cropin's</u> intelligent agricultural cloud may be coupled with software and sensors that are already deployed.”- what is <u>Cropin</u>?</p>	

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#### **PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <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>
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

#### **Reviewer Details:**

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