

Review Form 3

Journal Name:	Journal of Scientific Research and Reports
Manuscript Number:	Ms_JSRR_130320
Title of the Manuscript:	Innovative Approaches to Bengal gram Yield Mapping: Integration of Sentinel-1 SAR and Crop Simulation Models for Precision Agriculture
Type of the Article	Original Research Article

PART 1: Comments

	Reviewer’s comment	Author’s Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
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 provides a significant contribution to the scientific community by demonstrating the integration of Sentinel-1 SAR remote sensing and the DSSAT crop simulation model for accurate yield prediction, particularly for Bengal gram in a semi-arid region. It highlights the potential of SAR data to overcome weather-related limitations in agricultural monitoring, offering a reliable solution for large-scale yield forecasting. The validation of spatial yield predictions with high accuracy further reinforces the applicability of this approach in precision agriculture.	Thank you for comments
Is the title of the article suitable? (If not please suggest an alternative title)	The title is suitable as it clearly conveys the key focus areas of the manuscript: innovative methods, Bengal gram yield mapping, integration of Sentinel-1 SAR data, and crop simulation models in the context of precision agriculture.	Thank You
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 and effectively highlights the key aspects of the study, including the integration of Sentinel-1 SAR data with the DSSAT model, the focus on Bengal gram yield prediction, the accuracy of the methodology, and the potential for future advancements.	Thank You
Is the manuscript scientifically, correct? Please write here.	The manuscript is scientifically correct.	Thank You
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	<p>The references are sufficient but some of the references are old and outdated, authors should incorporate more and recent references additionally.</p> <p><b>Suggested Additional References:</b></p> <ol style="list-style-type: none"><li><b>Hoque, A., &amp; Padhiary, M. (2024).</b> <i>Automation and AI in Precision Agriculture: Innovations for Enhanced Crop Management and Sustainability</i>. Asian Journal of Research in Computer Science, 17(10), 95–109. <a href="https://doi.org/10.9734/ajrcos/2024/v17i10512">https://doi.org/10.9734/ajrcos/2024/v17i10512</a></li><li><b>Padhiary, M., &amp; Kumar, R. (2024).</b> <i>Enhancing Agriculture Through AI Vision and Machine Learning: The Evolution of Smart Farming</i>. In D. Thangam (Ed.), <i>Advances in Computational Intelligence and Robotics</i> (pp. 295–324). IGI Global. <a href="https://doi.org/10.4018/979-8-3693-5380-6.ch012">https://doi.org/10.4018/979-8-3693-5380-6.ch012</a></li></ol>	As per reviewer suggestion the reference added

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Is the language/English quality of the article suitable for scholarly communications?	English quality is good, minor corrections and grammars may be corrected.	The correction all are carried out
Optional/General comments	Few more recent references may be added One or two numeric results may be reflected in the conclusion	Reference added

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)	No ethical issue