

**Review Form 3**

Journal Name:	<b>Asian Research Journal of Agriculture</b>
Manuscript Number:	<b>Ms_ARJA_122363</b>
Title of the Manuscript:	<b>Time series modeling and forecasting of finger millet cultivation area, production and productivity in Chhattisgarh, India: The Box Jenkins methodology</b>
Type of the Article	<b>Original Research Article</b>

### Review Form 3

#### **PART 1: Review Comments**

<b>Compulsory</b> REVISION comments	<b>Reviewer's comment</b>	<b>Author's Feedback</b> (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<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>	The manuscript's innovative application of ARIMA models to forecast finger millet cultivation in Chhattisgarh offers a predictive tool of high relevance to agricultural planning. Its distinctive use of historical data to project future trends provides actionable insights for farmers and policymakers. I commend the manuscript for its methodological rigor and its potential to contribute to sustainable agricultural development.	
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>	Depending on the emphasis the authors wish to convey, there might be room for an alternative title that could potentially highlight specific aspects of the study. Here are a few suggestions:  1. "Forecasting Finger Millet Trends in Chhattisgarh: An ARIMA Approach." 2. "Chhattisgarh's Finger Millet: Time Series Predictions for Cultivation and Yield." 3. "Modeling and Predicting Finger Millet Dynamics in Chhattisgarh Using ARIMA."	
<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>	yes	
<b>Are subsections and structure of the manuscript appropriate?</b>	yes	
<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>	The manuscript demonstrates scientific correctness through its systematic approach to time series analysis using the well-established Box-Jenkins methodology. The robustness of the study lies in its meticulous collection of historical data from 2001 to 2023 and the application of appropriate statistical tools such as AIC, BIC, MAPE, RMSE, and MAE to select the best-fitting ARIMA models. The technical soundness is further evidenced by the comprehensive diagnostic checking performed to ensure the models' adequacy and the absence of autocorrelation in residuals, indicating well-fitted models. The manuscript's scientific thoroughness and methodical execution contribute to its robustness and technical soundness in forecasting agricultural trends.	
<b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b>	yes	
<b>Minor</b> REVISION comments		
<b>Is the language/English quality of the article suitable for scholarly communications?</b>	yes	
<b>Optional/General</b> comments		

**Review Form 3**

**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:**

Name:	<b>Yixu Wang</b>
Department, University & Country	<b>School of Computer Science, Peking University, China</b>