

Review Form 1.6

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_93923
Title of the Manuscript:	Forecasting potential evapotranspiration using seasonal ARIMA model for Northern Telangana Zone
Type of the Article	

General guideline for 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 guideline for Peer Review process, reviewers are requested to visit this link:

(<https://www.journalijecc.com/index.php/IJECC/editorial-policy>)

PART 1: Review Comments

	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)
Compulsory REVISION comments	The study present the results regarding the statistical estimation of the potential evapotranspiration, which is a major component in crop water consumption management plans. Their study focused on forecasting of the potential evapotranspiration for effective water resources management plans in a semi-arid environment of India. The authors performed the estimation of daily evapotranspiration using the Thornthwaite method. They also performed the forecasting of the potential evapotranspiration using Seasonal Auto Regressive Integrated Moving Average (SARIMA). The authors presented time series analysis of evapotranspiration data which showed a seasonality behaviour and Seasonal ARIMA model with the least Akaike Information Criteria (AIC) and Bayesian Information Criteria (BIC). <u>The study deserves to be published after compulsory minor corrections of English language.</u>	
Minor REVISION comments	The article is well organized with structured sections which conform to an acceptable format. The paper includes the following standard sections: Introduction, Methodology, Results, Discussion, Conclusion, References. The numeration of the sections is correct and consecutive. The data results report Seasonal Arima models selected for the districts Adilabad, Jagtial, Karimnagar, KumuramBheem, Nirmal, Peddapalli and Nizamabad, India. <u>Occasional English grammar errors that should be corrected before the publication.</u> <u>I have attached a file with my corrections in the Track Change mode:</u> <u>CORRECTED Ms_IJECC_93923_11112022.docx</u>	
Optional/General comments	The authors evaluated statistical properties to compare the observed and forecasted data, and shown that that there is no significant difference between the mean values of the observed and predicted data at a 5% significance level. Hence, they developed corrected model to forecast the evapotranspiration over the study area in India and to sustain the forecasting accuracy.	

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?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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