

Review Form 1.6

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_93271
Title of the Manuscript:	Trend analysis of rainfall in Telangana state using advanced statistical approaches
Type of the Article	Original Research 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 is well done, and the article is well organized with structured sections. The structure conforms to an acceptable format and has the following standard sections: Introduction, Methodology, Results, Discussion, Conclusion, References. Some sections are divided into the minor subsections and paragraphs for a better structure. The numeration of the sections is correct and consecutive. However, there are many English grammar and typesetting errors that should be corrected before the publication. I have attached a file with my corrections in the Track Change mode: Ms_IJECC_93271	
Minor REVISION comments	The focus of the presented paper is to perform the analysis of the trend in the long- term annual and seasonal rainfall pattern in Telangana state, India. The authors used monthly rainfall data of Telangana state from January 1982 to December 2021 and performed several approaches of the statistical analysis. The authors applied linear regression trend line, the non-parametric tests, like (Mann-Kendall test, Modified-Mann Kendall test and Innovative trend analysis tests), to reveal the trend present in the rainfall data of Telangana. The authors well describe and interpreted the results. Thus, they reported that both increasing and decreasing trends were seen in the linear regression trend method for Telangana rainfall data. They detected the significant result in the month of May which showed an increasing trend, whereas remaining months showed the non-significant trend in the Modified Mann Kendall test, as well as in the Innovative trend analysis. The Discussion interpreted the major outcomes of this study. The advantages of the obtained results are described and compared with other studies. The Discussion described the issues of methodology and results. The Conclusion summarized the study with interpretation of facts. Thus, the authors revealed that there was a significant increasing trend of rainfall in the month of May and remaining months showed a non-significant trend and there was no significant trend in the monsoon periods. The authors performed accurate identification of rainfall patterns over the area may, which enables to create the appropriate policy measures in advance to plan the future climate uncertainties.	
Optional/General comments	The topic of climate patterns (rainfall in monsoon and other periods) in selected region of India was evaluated through statistical data analysis with aim to determine the changes in rainfall in Telangana state. The study is well done. The results are well presented and described, and clearly report the undertaken research.	

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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