

Review Form 1.6

Journal Name:	Journal of Agriculture and Ecology Research International
Manuscript Number:	Ms_JAERI_84009
Title of the Manuscript:	Impact of rainfall trend on irrigated agriculture of Narayanapura Command
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.journaljaeri.com/index.php/JAERI/editorial-policy>)

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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	<p>The study is about the rainfall trend analysis using statistical method (MK and ITA) coupled with spatial analysis process and compared with irrigation water rates in long time in a part of India country:</p> <p>The study is an interesting research which fits to the scope of the journal. However. So the manuscript contains some elements which should be improved before publishing.</p> <p>The review observations here may be all minor but I advise the author to take them compulsory and the quality of the paper will be taken higher.</p> <ol style="list-style-type: none"> On the Abstract section <ul style="list-style-type: none"> The summary should be shorter. The part “if reliably predicted.....for command area management” should be direct. E.g. “This study aims” The second paragraph is too detailed and takes up too much space. Remove its last idea “<i>The spatial and temporal fluctuations are evaluated, and pattern behavior is studied. Further, the impact of the such changes is analyzed on irrigation water requirements</i>” since the text on the results takes it into account On the Introduction section <ul style="list-style-type: none"> The introduction should be more illustrated with references especially the first paragraph. The rates of water use for irrigation in india and elsewhere will be interested. In the paragraph 2, the bibliographical review style should be oriented towards the presentation of results obtained from the chosen tests from most recently studies as possible in India and elsewhere The authors may identify one principal objective for the study from the introduction to conclusion 	<p>The Authors express sincere gratefulness for the review of manuscript and valuable comments.</p> <p>The manuscript is revised accordingly. Request to kindly refer the following comments along with the revised manuscript.</p> <p>The summary is revised</p> <p>The Second paragraph is suitably altered</p> <p>The water use for irrigation is addressed with recent references</p> <p>The bibliographical review is oriented as per the flow of the analysis stages. i.e., To carryout MK trend test, ITA trend test, compare and forecast the trends. Compute the impact of changing rainfall pattern on irrigation water demand.</p> <p>The main emphasis of research sentence is added before specific objectives.</p>
Minor REVISION comments	<ol style="list-style-type: none"> On the Study area and data section <ul style="list-style-type: none"> The author should improve the quality of the fig.1 and make writing more readable. The author should let appear in the table 1, information about the daily data. Eg. The gap and general statistics. The data accuracy; since the scale of rainfall collected is daily. The evapotranspiration and crop parameters collected from the IMD should also be presented. Eg. Table 5 On the methodology and analysis section <ul style="list-style-type: none"> The authors should write the formula and equation with Microsoft equation editor Please write some information about the significant of the other values given in table 2. On the Analysis section <ul style="list-style-type: none"> Since the table 3 present the slope for ITA method for visual interpretation, the figure 9 may not be necessary. 	<ul style="list-style-type: none"> The Fig.1 is revised the hydrometeorological agency provides daily data. However, the analysis is carried out for monthly rainfall data which is suitable for crop water requirement analysis in further stages. Accordingly, two sentences have been added. Table 5 is relocated with reference to table 5 in manuscript. <p>“The daily data is transformed to monthly rainfall data since the analysis is carried out on monthly basis. The monsoon and annual rainfall provide an insight to the rainfall characteristics of the semi-arid study region”</p> <ul style="list-style-type: none"> The formula and equations are re-written using equation editor. The numerical from Table 2 is briefed in following paragraph of manuscript. <p>In ITA method the graphical representation (figure 9) is a beneficial component of the analysis which provides quick visual interpretation of rainfall trend. Further, Slope calculations (table 3) provides the quantification of the trend. Hence, the authors hereby appeal to review the revised figure 9 for kind consideration.</p>

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Optional/General comments	<p>In the paper the study is about the rainfall trend analysis using statistical method (MK and ITA) coupled with spatial analysis process and compared with irrigation water rates in long time in a part of India country:</p> <p>The paper presents interesting research which fits to the scope of the journal. However, the manuscript contains some elements which should be improved before publishing.</p> <ul style="list-style-type: none">- The authors should explain in the full name (one each abbreviation is used for the first time in the text)- Some references to figures in the text are incorrect. The authors have to revise it in the whole manuscript.- Improve the overall style of writing throughout the text.- Rreorganized the analyzes and results and discussion parts into one section since the analyzes seem to be the results already.-	<p>The abbreviations are updated with full forms at the first-time usage</p> <p>References to figures are re-checked and corrected</p> <p>The writing is revised at major sections</p> <p>Analysis and Results is renamed in one section and Discussions in one section</p>
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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)	