Review Form 1.6

Journal Name:	**International Journal of Environment and Climate Change**
Manuscript Number:	**Ms_IJECC_89961**
Title of the Manuscript:	**Climate driven responses in Cocoa for Tamil Nadu**
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	• Discuss little bit about the world status and scenario of cocoa first and then provide data in Indian context about its productivity and yield • Provide a clear map agroclimatic zone wise • What about the validation of APEX model? • Keep the figure and table titles bold in whole manuscript • Regression equation can also be work out by taking yield and weather variables of 30 years to find out the increasing or decreasing trend of the yield in these areas. • Statistical yield forecasting can also be worked out from long term historical and crop productivity data. It will help in understanding how the productivity is going to be affected in upcoming years. • Follow the same reference format throught the text • Provide the proper details of the treatments and parameters/observations studied during the experiment. • Cross check the references in the text and write according to journal format and follow the same format throughout the manuscript. • Kindly follow all the comments given in the manuscript. • Add all the comments in your manuscript.	• Thank you for your valuable comments. • Global scenario has been added in the introduction • APEX model validation is added in the materials and methods • Figure and Table titles were made bold • Cocoa life cycle is about 30 years. Flowering starts from third year and yield will increase up to 15-18 years. Once it reaches the peak yield capability, the yield will start decline. Hence, Cocoa is the perennial crop, regression cannot be performed to see the increasing or decreasing pattern in the yield. • The yield of cocoa is associated with the age of the crop in addition to the weather influence. The cocoa life cycle is around 30 years. The age of the tree also creates year-to-year variations in the yield throughout the crop period. So statistical yield forecasting for the immediate upcoming year using the long-term weather and crop yield data wouldn't be accurate. A dynamic model like APEX model with future climate data and accounting growth of the plant every year could predict the yield with good accuracy. • Reference formats have been changed according the instruction and journal format • In order to simulate yield data, crop management information was obtained through survey and it is now mentioned in the manuscript. • Study region details have been updated in the description section.
Minor REVISION comments	• Improve your language. • Check spellings. • It is suggested that use comma's, space etc. properly in the whole document.	• Spellings and grammar corrections were made according to the instructions. • Punctuation correction were also made throughout the manuscript
Optional/General comments	• Title is written very well, impressive and informative. • Abstract is also qualitative and directly shows the research importance. • Introduction is comprehensively written. • Whole manuscript is very knowledgeable. • Conclusion is easy to interpret and brief.	• Thanks for the comments

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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)*	No