

## Review Form 1.6

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_94486
Title of the Manuscript:	Change detection of groundwater level and quality in coastal aquifers of Malabar region in Kerala
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)
<b>Compulsory</b> REVISION comments	<ul style="list-style-type: none"> <li>- In the abstract of the article, the research method and the results of the relationship between changes in the underground water level and water quality should be specified.</li> <li>- In the introduction, the 15-year review period from 2015 to 2020 is considered, but the explanations of the text of the article and the analytical charts are different. In Figure 1, the years of rainfall are not clear and its compliance with the period has not been investigated. Also, in Figure 2, changes in rainfall for a period from 1997 to 2022 are included. ! For a better understanding of the issue, it should be presented in a table of the changes in the underground water level during the research period by year, and the effect of the change in the sea level should also be explained. - In the hydro chemical analysis section, a table of changes in water quality parameters for different years should be prepared and presented. And in the final analysis, these changes will be compared to the condition of the underground water level and a quantitative and qualitative evaluation model will be presented.</li> <li>- The issue of chemical parameters of water in beaches has been discussed in various articles, and considering that this journal is international and the research results should be generalizable to other regions and provide a new method in research work, there is a need for more innovation and accurate relationships. There is a difference between the quantitative and dynamic changes of the aquifer and chemical parameters, especially salinity.</li> <li>- In the conclusion section, the findings of the research should be written based on the obtained models and new analyzes. The authors should pay more attention to the strength of this issue.</li> </ul>	
<b>Minor</b> REVISION comments	<ul style="list-style-type: none"> <li>- The quality of a number of figures such as 3.5.6 and... is low.</li> </ul>	
<b>Optional/General</b> comments	<ul style="list-style-type: none"> <li>- It is recommended that the authors look into the relationship between the type of lithology of the aquifer and the stationary substances dissolved in water and what effect the process of reducing the aquifer has on increasing the quality parameters. - In the conclusion section, the findings of the research should be written based on the obtained models and new analyzes. The authors should pay more attention to the strength of this issue.</li> </ul>	

### 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)	

### Reviewer Details:

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