



**SDI Review Form 1.6**

Journal Name:	<a href="#">Asian Journal of Environment &amp; Ecology</a>
Manuscript Number:	Ms_AJEE_48055
Title of the Manuscript:	Investigation of Carbon Dioxide Variations over Some Selected Points in Nigeria Using Neural Network Model
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:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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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)
<b>Compulsory</b> REVISION comments	<ol style="list-style-type: none"> <li>1. Where is the Figure 3? Please fix the Figure numbers.</li> <li>2. Please expand the discussion on Figure 4, I see several points, such as 10, 17 and 19 also yield low standard deviation. Do the results from these points provide results that are statistically significantly different compared to 13?</li> <li>3. In the conclusion, the authors discussed the possible correlation between CO2 emission and rainfall. Please provide the reference or the data for the rainfall in the relevant regions.</li> <li>4. Also, please provide the references for the mechanism how rainfall can wash away CO2; or alternatively, as my personal hypothesis, it also might be possible that the rainfall promotes flora growth in the region which increase the consumption of the CO2.</li> </ol>	<ul style="list-style-type: none"> <li>-Figure 3 has been fixed.</li> <li>-Figure 4 has been expanded accordingly.</li> <li>-Reference between <b>CO2 emission and rainfall</b> has been provided</li> <li>-correction on Nigeria geographical information has been corrected</li> <li>- The close agreement between the estimated and observed CO<sub>2</sub> data within the years of study (2010-2014) shows that the model has the ability and potential of predicting 2015 and onwards.</li> </ul>
<b>Minor</b> REVISION comments	The Nigeria geographical information in the experimental section should be moved to introduction. The authors should also provide why the geographical information is relevant to this research.	
<b>Optional/General</b> comments	<p>How does this model match with CO2 emission on later years, e.g. 2015 and onwards?</p> <p>This manuscript used neuron network to establish a model that fits to the 36 observations in Nigeria. The research overall provided a potential method to better describe the CO2 emissions in Nigeria using limited data.</p>	

**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)	