



SDI Review Form 1.6

Journal Name:	Asian Journal of Environment & Ecology
Manuscript Number:	Ms_AJEE_44216
Title of the Manuscript:	IMPACT OF CLIMATE CHANGE AND GANGES DISACHARGE ON THE SALINITY OF THE PASSUR RIVER, SOUTHWESTERN BANGLADESH
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>)

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 style="text-align: center;">Review</p> <p>Paper Title – <i>Impact of Climate Change and Ganges Discharge on the Salinity of the Passur River, Southwestern Bangladesh</i></p> <p>The authors have done a great job to analyze the major issue related to climate change and river ecology with many negative and positive parts. Apart from that the manuscript is well documented the issues in the Passur River, Bangladesh. Rather than the critical comments I have suggested few suggestions to improve the manuscript.</p> <ol style="list-style-type: none"> 1. Please reconsider the keywords – “south-western region of Bangladesh” and “climate change impacts”. 2. Please include a paragraph of literature review in the introduction section. 3. It is suggested to insert a section of study area before the section of material and methods, as geographical settings of study area with proper location map. 4. It is utmost necessary to present the land use – land cover of study area through the satellite images. 5. You can prepare a drainage map where it is found that the River Passur is connected with the Ganges drainage system. 6. In the section of material and method, it is necessary to include details of data collection and quantitative techniques. Please insert a flow chat of methodology. 7. Please give specific source in figure 2.1 and figure 2.2 8. Please provide location of Mongla in a map (figure 3.1) 9. The scatter of figure 3.1 reflects a non-linear regression rather linear regression. Please reconsider this issue. 10. The figure of 3.2.2 suggests that the increase of tide height in between May and October is inversely related to level of salinity (decrease in those months). It is inevitable due to high monsoon discharge of river, but what is the problem behind that. You must justify it with proper statements. 11. Figure 3.3 reflects also non-linear regression. 12. It is utmost necessary to include a rainfall distribution map of study area to relate 	<ol style="list-style-type: none"> 1. I've changed “south-western region of Bangladesh” to “Bangladesh” and “climate change impacts” to “climate change”, hopefully it is okay now. 2. I've included a short paragraph of literature review in the introduction section. 3. I am quite confused. I read many samples where the study area is within the material and methods section. I have added some point about its geographical settings with a new location map. 4. Done. 5. Done. 6. I've tried to include data collection sources and quantitative techniques in detail and a flow chart of methodology. 7. Done 8. This figure is collected from IWM, it is a JPG file and they don't have the raw data now. So, it is not possible to do anything in this map. I've added another salinity map for the particular location area. 9. Done. 10. I am quite confused about what you've intended to sort out. The problem is, when freshwater flow will low, this high tide can make situation worse, isn't it? I've added this point in that part. I've tried to keep every point clear and concise.



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	<p>the figure 3.1.2</p> <p>13. Figure 3.6.1 is a vital diagram in the research. It is suggested to explain it in details with correlation factor.</p> <p>14. You can add a section related to Sea Level Rise and Increase of Salinity.</p> <p>15. Is there any relation between frequency of cyclones and depression with increase of salinity? If so then let explain it in text.</p> <p>16. You do not include the effects of salinity increase on the livelihood and socio-economic life of inhabitants. Please insert it with data.</p> <p>17. You can add a little section related to increase of salinity and its effects on river ecology (mainly fish production and extinction of species).</p> <p>18. It is worldwide statements that – ‘think globally and act locally’. So, you have to suggest the management plan to cope with this problem.</p> <p>19. Please justify your prediction through regression with proper statistical tests. Otherwise it will not accept in the forum (table 3.7).</p> <p>20. After analyzing the paper it is understood that the study is lack of sample field study. You do not work any field sites to understand the actual condition and people perception about this issue. You must include field photographs of study area here.</p>	<p>11. Done.</p> <p>12. I've included a rainfall distribution map related to the figure-3.1.2.</p> <p>13. In the entire paper, there are many lines related to the importance of Ganges discharge on salinity. That's why I've added just a few lines under this figure.</p> <p>14. I have added some sentences below the sea level graph.</p> <p>15. Yes, but it is not a valuable point of my study. That's why I have included some sentences in the first part of conclusion.</p> <p>16. It is in conclusion section.</p> <p>17. It is in conclusion section.</p> <p>18. It is in conclusion section.</p> <p>19. I've used ANOVA test for regression and correlation. I hope it is okay now.</p> <p>20. The study was done based on the secondary database. The source and the data are authentic which reflect the actual condition. I know it would be better if I could arrange a field trip but this has not been possible because of financial constrains, also I have no one to accompany me and this is a problem as safety is a serious issue here for women.</p>
Minor REVISION comments	Again I say that you must include field photographs of study area here.	<p>Thanks for your review comment. I've got a chance to improve my manuscript and gain knowledge. I was no good at statistical analysis that's why I made mistakes. However, I am a beginner and I've tried my best.</p> <p>N.B., I've highlighted the corrected parts where possible.</p>
Optional/General comments		

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?	<u>(If yes, Kindly please write down the ethical issues here in details)</u>	