

**Review Form 1.7**

Journal Name:	<b>Asian Journal of Environment &amp; Ecology</b>
Manuscript Number:	<b>Ms_AJEE_119569</b>
Title of the Manuscript:	<b>Analysis of water exchange processes between groundwater and surface water in the Usangu Plains, Tanzania.</b>
Type of the Article	<b>Original Research Article</b>

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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)
<p><b>Compulsory REVISION comments</b></p> <ol style="list-style-type: none"> <li>1. <b>Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</li> <li>2. <b>Is the title of the article suitable?</b> (If not please suggest an alternative title)</li> <li>3. <b>Is the abstract of the article comprehensive?</b></li> <li>4. <b>Are subsections and structure of the manuscript appropriate?</b></li> <li>5. <b>Do you think the manuscript is scientifically correct?</b></li> <li>6. <b>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></li> </ol> <p><b><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></b></p>	<p><b>The manuscript is scientifically well written. There are some minor corrections as mentioned below under comment section that need to be addressed. Also, proof read the manuscript for grammatical correction.</b></p> <p><b>Yes.</b></p> <p><b>Yes</b></p> <p><b>Yes</b></p> <p><b>Yes</b></p> <p><b>Yes</b></p> <p><b>Yes</b></p> <p><b>To some extent</b></p> <p>Comments:</p> <ol style="list-style-type: none"> <li>1. Globally, groundwater withdrawal has increased from a base level of 100-150 km<sup>3</sup> in 1950 to 950-1000 km<sup>3</sup> in 2000 (Shah <i>et al.</i>, 2013). Provide the latest data.</li> <li>2. Mention the mean annual temperature and humidity of the study area.</li> <li>3. It would enhance the quality of your manuscript, if you mention the Geology and hydrogeology of the study area.</li> <li>4. At line no 102: [<a href="https://crudata.uea.ac.uk">https://crudata.uea.ac.uk</a>, site visited 13/04/2021]...make it grammatically correct. Site visited on.....</li> <li>5. Check the unit of Total river flow. Whether it is (mm/month) or (mm<sup>3</sup>/month) (The river velocity unit is mm/month. But when it comes to flow, always multiply area with velocity and calculate the flow).</li> <li>6. Just check whether the unit is mm/month or mm<sup>3</sup>/month in the following paragraph that you have mentioned in the manuscript  "The river discharges, baseflow and surface runoff values were converted from m<sup>3</sup>/s to mm/month for better comparison. The conversion was made by multiplying the mean monthly cumecs (m<sup>3</sup>/s) with 24h, 3600seconds, the number of days of a month and 1000mm"</li> <li>7. Provide the reason that why the baseflow contribute substantially to the sustainable river</li> </ol>	

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	<p>flows under result and discussion section.</p> <p>8. Explain in brief about the three baseflow separation techniques viz., a) sliding interval method, b) fixed interval method and c) local minimum method and why you have chosen them for this study ?</p> <p>9. GRR at Msembe showed no flows during a number of days and this aligned with the literature where human activities such as irrigated agriculture, domestic water-requiring events, livestock, and many more were pointed to be the driving forces of the observed declines of river discharges. Provide the percentage contribution of each of these activities for decline of river discharges.</p>	
<p><b>Minor</b> REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	To some extent	
<p><b>Optional/General</b> comments</p>	Few minor grammatical errors are observed that should be addressed in the revised manuscript	

**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> (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)
<p>Are there ethical issues in this manuscript?</p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

**Reviewer Details:**

Name:	<b>Bishnu Prasad Sahoo</b>
Department, University & Country	<b>India</b>