

Review Form 1.7

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_109287
Title of the Manuscript:	Inverted umbrella type rainwater harvesting system for terrace gardening at Raichur campus
Type of the Article	Original Research Article

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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><u>Compulsory</u> REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>Yes, the manuscript is adding values to the scientific community.</p> <p>Yes, the title is suitable.</p> <p>No, the abstract is not comprehensive enough. The focus of the abstract was on the benefit of the system.</p> <p>The abstract is not well structured, it should include:</p> <ul style="list-style-type: none"> • Introduction • The aim/objectives of the project • Methods/material - Summary of RWHS (umbrella structure, inlets, collection system, filtration/treatment, and storage system) mentioned in materials and method section should be presented in the abstract. • Results • Conclusion <p>Yes, the subsections are appropriate. However, you need to comply with the Journal's subsection format.</p> <p>Yes, the manuscript is scientifically correct.</p> <p>Yes, the references are recent (2001 – 2017). However, they are limited. Only eight resources were referenced for this paper.</p>	
<p><u>Minor</u> REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>Yes, the language of the article is suitable for scholarly communications.</p>	
<p><u>Optional/General</u> comments</p>	<p>The following comments should be addressed please:</p> <ul style="list-style-type: none"> • Citations should be presented numerically (e.g., using [1]). Check citation format for this Journal. • WHO 2010; UNICEF 2010; Hamed et al., 2017. This should however be represented numerically as stated above. All citations should be revised accordingly. • Equation (1) was not generated by Harshitha et al 2020. It has been in existence for ages, check the original author for equation (1) and cite as appropriate. • How did you arrive at rainfall intensity I of 0.05188? • Runoff coefficient cannot be 100%, the system cannot be 100% efficient. How? • How did you arrive at average annual rainfall of 0.675? This is not adding up, considering your annual rainfall intensity was 636.53 (Table 1). 	

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	<ul style="list-style-type: none"> • How do we determine the number of units required per household? • For example, a household of 4 with a roof area of 236 m². How many units of inverted umbrella system do we need? • What is the cost per unit? • What is the financial/economic implication of the investment? It will be worth carrying out a cost benefit analysis on the system. • Which data did you use the inverted umbrella RWH system to collect? • What is the quantity of rainfall that can be collected per minute/hour using this system? All the information above were not stated in your methods/results. • Are the rainfall data in Table 1 collected by the inverted umbrella RWH system? • Are they the historic annual rainfall of the study area? • How long was this research carried out (i.e., what is the time frame)? Is it a year or 10 years? I assume it is a year. • How did you collect 10 years rainfall data in a year? This should be presented as historic rainfall data from meteorological station at Raichur. <p>The following should be addressed in the conclusion section:</p> <ul style="list-style-type: none"> • The design determines the storage capacity. How? This was not specified in the project. • The storage capacity was not determined/assessed in this project. • How does the system incorporate overflow mechanisms? • How does the system facilitate maintenance and accessibility? <p>Resources were limited, as evidenced with just eight references for the paper!</p>	
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PART 2:

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

Reviewer Details:

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