

Review Form 1.7

Journal Name:	Journal of Engineering Research and Reports
Manuscript Number:	Ms_JERR_114972
Title of the Manuscript:	STUDY OF CLEAN WATER PROVISION EFFORTS IN CONSTRUCTION WORKERS' RESIDENCES IN THE NATIONAL CAPITAL DEVELOPMENT AREA (IKN) INDONESIA
Type of the 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>Compulsory 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>The manuscript has provided some necessary information about clean water needs and rainfall in IKN, INDONESIA. But it needs to provide more data on expert discussions on qualitative research methods to increase the level of science.</p> <p>“SOME SOLUTIONS TO IMPROVE CLEAN WATER SUPPLY IN CONSTRUCTION WORKERS' HOUSING IN INDONESIA NATIONAL CAPITAL (IKN) DEVELOPMENT AREA”</p> <p>The objective of the study is to identify feasible solutions to increase the supply of clean water in the housing construction worker (HPK) apartment construction area in the National Capital Region (IKN) North Penajam Paser Regency, East Kalimantan Province, Indonesia.</p> <p>Regarding the structure of the article, it should be rearranged so that it is easy to follow and has continuity and logic, helping to prove the stated goal. The sections and subsections of the manuscript need to be renumbered to be more appropriate and scientific. For example, section 2. Methodology, followed by subsection 2.1; 2.2; 2.3 and 2.4. Or other sections do the same.</p> <p>This draft needs to specify further discussions with regional planners and geologists to consider whether the proposed solutions are suitable for local conditions. Discussion on geological aspects, ecological considerations, and allowable construction area for the workers' residential zone.</p> <p>References need to be fully supplemented, e.g.: (1) Source for collecting data on apartments, number of workers, and rainfall over the years? (2) Additional source: Which agency provided this forecast data? It is now March 2024 and how accurate are the above forecasts? (3) In 5.2. Is Rainwater Drinkable. Citation sources need to be added. Which scientist or authoritative organization speaks about this issue? (4) In table section 5.3 (Rainwater potential in IKN), citation sources must be added.</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>The language quality of the article should be edited to make it easier to understand and more scientific.</p>	
<p>Optional/General comments</p>	<p>First, pay attention to the qualitative research method, because it is very important: who are the discussion experts and what is the discussion process like?</p> <p>Second, Rainwater harvesting is nothing new to the Indonesian government and other countries (<i>Infiltration Well, Rainwater Collection Pond, Bio pore Absorption Holes, Rain Garden, Storage Tank, etc</i>). Therefore, the article needs to analyse and point out which solution is the most important and suitable for the natural conditions in the National Capital Region (IKN) North Penajam Paser Regency housing area, East Kalimantan Province, Indonesia.</p> <p>Third note, There must be a clear concept of clean water for human use according to the standards of international health organizations.</p> <p>Reviewer's comment The author should reorganize the article to make it easier to follow and more scientific</p>	

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	<p>1/ Clearly define the research objectives in the abstract. The study aims is not to find out alternative steps that will be taken to increase the fulfillment of clean water (because rainwater storage solutions are already in place in many places in Indonesia). The aim of this research is to find and apply appropriate solutions in this HPK IKN.</p> <p>2/ Supplementing the concept of clean water for human use according to the standards of international health organizations.</p> <p>3/ Qualitative research methods pay great attention to expert discussion. Added expert discussion methods in the research methods section (discussion process and who to discuss with?)</p> <p>4/ In section 5.1 and 5.2 of the articles, when discussing rainwater treatment to meet clean water standards to serve human needs, the author needs to add full citations because this is science.</p> <p>5/ All data collected are from responsible organizations. We should consolidate them into an assessment section for analysis and evaluation. This is the most important part because from this assessment, solutions for rainwater harvesting can be derived (the article has scattered the topic across multiple places, so the current status hasn't been highlighted)</p> <p>6/ Some of the proposed solutions such as infiltration wells, rainwater harvesting tanks, rain gardens, storage tanks, etc. must be supplemented with conclusions from expert discussions that are suitable for the conditions in this housing area.</p> <p>7/ The conclusion confirms that some of these solutions are most suitable for geology and biology and do not have much impact on construction costs and the living conditions of workers.</p> <p>8/ Structure of qualitative research article</p> <p>With sincere personal input, I would like to offer suggestions on how the structure of the article should be arranged as follows:</p> <p>1/ Introduction. (talk about the context of the research to lead to the need and the aim of the research)</p> <p>2/ Related concepts. (Clean water and how to treat clean water through rainwater; Rainwater harvesting methods such as Infiltration Well, Rainwater Collection Pond, Bio pore Absorption Holes, Rain Garden, Storage Tank, etc)</p> <p>3/ Research methods. Mainly using qualitative methods (1. Expert discussion including discussion process, list of experts. 2. Data collection method. 3. Analysis method)</p> <p>4/ Analysis results. (through the collection of secondary data)</p> <p>4.1/ Describe the current situation</p> <p>4.2/ Analyze the current situation</p> <p>4.3/ Discuss the results of the current situation (1. Strengths and shortcomings; 2. Draw conclusions about which aspects are suitable for geological and biological conditions and the area of the housing area for workers)</p> <p>5/ Appropriate rainwater harvesting solutions.</p> <p>5.1/ Rainwater harvesting solutions suitable to the conditions of the place where housing for workers is built</p> <p>5.2/ How to treat clean water for each harvesting method</p> <p>6/ Conclusion.</p>	
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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?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

Name:	Vu Truc Phuc
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