

Review Form 3

Journal Name:	Journal of Engineering Research and Reports
Manuscript Number:	Ms_JERR_129142
Title of the Manuscript:	Water management from source to plot at the level of the Aneker hydro-agricultural development in dysfunction and proposed solutions
Type of the Article	

PART 1: Comments

	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.		
Is the title of the article suitable? (If not please suggest an alternative title)		
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.		
Is the manuscript scientifically, correct? Please write here.		
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.		

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<p>Is the language/English quality of the article suitable for scholarly communications?</p>		
<p><u>Optional/General</u> comments</p>	<p>The manuscript addresses water management issues in the Aneker hydro-agricultural development in Niger. It highlights the region's water scarcity and deteriorating irrigation infrastructure, which significantly impacts agricultural productivity. The study identifies challenges, including poor canal conditions, inadequate irrigation scheduling, and insufficient water supply, particularly during dry seasons. Recommendations include rehabilitating hydraulic structures, separating production and maintenance responsibilities, and implementing effective irrigation schedules. The research underscores the urgent need for infrastructural improvements to ensure sustainable and efficient water management.</p> <p>Grammatical and English Improvements:</p> <p>Abstract:</p> <ul style="list-style-type: none"> "It is a country characterized by the most unfavorable climatic conditions" → "Niger is characterized by unfavorable climatic conditions." "The study shows that 68% of plots do not receive sufficient water for irrigation." → "The study reveals that 68% of the plots lack sufficient irrigation water." <p>Introduction:</p> <ul style="list-style-type: none"> "To fight against the famines that populations frequently face" → "To combat frequent famines faced by the population." "This political will was manifested through the development of several types of irrigation systems" → "This policy was implemented through the development of diverse irrigation systems." <p>Methods:</p> <ul style="list-style-type: none"> "This stage concerns the design of tools allowing us to meet the objectives of the study." → "This stage involves designing tools to meet the study's objectives." "During this phase also we had to make contact with the producers" → "During this phase, we also contacted producers." <p>Discussion:</p> <ul style="list-style-type: none"> "This situation has led to poor distribution and even dissatisfaction of irrigators with regard to water." → "This situation has resulted in poor water distribution and dissatisfaction among irrigators." <p>References:</p> <ul style="list-style-type: none"> Ensure all references cited in the text by the last name of the first author and then year as per the journal guidelines Verify that references such as "PMI-BF., IIMI., 1997" directly support the manuscript's claims. If not, consider removing them. <p>Technical Questions:</p> <ul style="list-style-type: none"> How were the degraded states of the canals quantified (e.g., 37%)? Were there specific metrics or visual inspections? What hydrological parameters were considered in the proposed solutions, such as market gardening wells? 	

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	<ul style="list-style-type: none"> • Are there examples from other regions where similar rehabilitation strategies have successfully improved irrigation performance? • What is the basis for suggesting the relocation of water intake to the south side of the dam? • How does the proposed increase in hydraulic fees account for socio-economic challenges faced by local farmers? • Figure 1: Is the allocation of irrigation water statistically analyzed? If so, provide details on the methodology. • Prepare tables summarizing the qualitative and quantitative results from interviews with irrigators and technicians. • Can the impact of the suggested solutions on water availability and plot irrigation be visually modeled or tabulated? <p>Recommendations for Improvement: Add specific numerical or graphical data to substantiate claims in the results and discussion sections. Include a table summarizing the current state of the irrigation network and the projected outcomes after proposed improvements. Clarify how the study's findings align or diverge from referenced works, particularly concerning water resource management and irrigation practices.</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>	

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