

Review Form 3

Journal Name:	Asian Research Journal of Agriculture
Manuscript Number:	Ms_ARJA_123874
Title of the Manuscript:	Water resources planning for Alanda micro watershed using geospatial techniques
Type of the Article	Research Paper

General guidelines for the 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 guidelines for the Peer Review process, reviewers are requested to visit this link:

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PART 1: Review Comments

Compulsory REVISION 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>
<p>Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.</p>	<p>The vital role that modern geospatial tools play in sustainable water resource management. By utilizing technologies such as Geographic Information Systems (GIS) and remote sensing, this study provides a comprehensive approach to assessing water availability, soil moisture levels, land use patterns, and runoff potential within the Alanda micro-watershed. The analysis enables the identification of critical areas for conservation, irrigation planning, and groundwater recharge. Such studies are crucial for enhancing water security, especially in regions facing erratic rainfall and increased agricultural demands, offering insights that can be applied to similar micro-watershed management efforts worldwide.</p>	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>Sustainable Water Resource Planning for Alanda Micro-Watershed Using Geospatial Techniques</p>	
<p>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.</p>	<p>A concise summary of the objectives, methods, key findings, and conclusions. Describe the concept of water resource planning and the role of geospatial techniques.</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Introduction: <ul style="list-style-type: none"> • Context and significance of water resource planning. • Importance of the Alanda micro-watershed. • Relevance of geospatial techniques in water resource management. • Research objectives and questions. <input type="checkbox"/> Literature Review: <ul style="list-style-type: none"> • Overview of previous research in watershed management. • Studies on the use of GIS and remote sensing in water resource planning. • Gaps in existing knowledge. <input type="checkbox"/> Study Area: <ul style="list-style-type: none"> • Detailed description of the Alanda micro-watershed. • Geographical, hydrological, and climatic features of the region. <input type="checkbox"/> Methodology: <ul style="list-style-type: none"> • Data collection techniques (satellite data, GIS layers, etc.). • Analytical methods (spatial analysis, hydrological modeling, etc.). • Steps followed for water resource assessment using geospatial tools. <input type="checkbox"/> Results: <ul style="list-style-type: none"> • Presentation of findings such as land use maps, water availability data, and runoff patterns. • Analysis of critical areas for water conservation and planning. <input type="checkbox"/> Discussion: <ul style="list-style-type: none"> • Interpretation of the results in the context of water resource sustainability. • Comparison with other studies and regions. • Implications of findings for future water management. <input type="checkbox"/> Conclusion: <ul style="list-style-type: none"> • Summary of the major findings. • Recommendations for water resource planning in the watershed. • Potential for replication in other regions. 	
<p>Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.</p>	<ul style="list-style-type: none"> • This manuscript is scientifically robust and technically sound due to its systematic use of geospatial techniques, which are widely recognized for their accuracy in spatial data analysis and resource management. • The application of Geographic Information Systems (GIS) and remote sensing ensures that the study is based on reliable and precise data, enhancing the validity of the findings. • The methodology for assessing water resources in the Alanda micro-watershed follows 	

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	<p>established hydrological modeling frameworks, ensuring consistency with current scientific standards.</p> <ul style="list-style-type: none"> The integration of these advanced techniques demonstrates the manuscript's technical rigor and its capacity to contribute meaningful insights to water resource planning. 	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p>	<p>Increase the number of references to approximately 50 to 60 sources.</p>	
<p><u>Minor</u> REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>To determine whether the language quality of your article is suitable for scholarly communications, the following aspects should be considered:</p> <ol style="list-style-type: none"> The text should be clear and concise, avoiding unnecessary jargon or overly complex sentence structures. Scholarly articles require precise language to convey complex ideas effectively. Proper grammar, punctuation, and sentence structure are crucial. Errors in these areas can hinder understanding and reduce the professional quality of the manuscript. The appropriate use of technical terms related to water resource planning and geospatial techniques is essential. Ensure that specialized terms are correctly applied and defined where necessary. The tone should be formal and objective, avoiding informal language or personal opinions. The writing should be focused on presenting research findings and analyses. 	
<p><u>Optional/General</u> comments</p>		

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)
<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>	

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