

## REVIEWER'S REPORT

Manuscript No.: IJAR-55640

**Title:** Impact de l'Utilisation et l'Occupation des Sols sur la Gestion de l'Eau dans un Contexte de Changement Climatique : cas de la Zone de M'Béwani (Office du Niger, Mali)

### Recommendation:

Accept as it is .....  
**Accept after minor revision.....**  
 Accept after major revision .....  
 Do not accept (*Reasons below*) .....

Rating	Excel.	Good	Fair	Poor
Originality		x		
Techn. Quality			x	
Clarity			x	
Significance		x		

Reviewer Name: Dr. Hari Prashad Joshi

### Detailed Reviewer's Report

This study presents a valuable and methodologically sound analysis of land use/land cover dynamics and their impact on water resources in the M'Bewani region of Mali under climate change. The research is well-structured, with clear objectives, appropriate use of satellite imagery (validated by high Kappa coefficients), and integration of long-term climatic data. The findings on agricultural expansion at the expense of aquatic zones, coupled with declining rainfall and increasing drought frequency, are significant and convincingly presented. For minor revision, several points should be addressed: 1) Ensure consistency in terminology (e.g., "M'Béwani" vs. "M'Bewani," "ISP" vs. "SPI") and correct minor formatting issues in the references. 2) Clarify the apparent contradiction in vegetation trends between the abstract (increase around irrigation) and results section (overall decrease). 3) Improve the clarity of some figure captions (e.g., Figures 3, 5, and 7) and ensure all are correctly referenced in the text. 4) Briefly discuss the limitations of the survey sample size and methodology in the discussion section. These refinements will enhance the manuscript's clarity and rigor before publication.