

REVIEWER'S REPORT

Manuscript No.: IJAR-58807

Title: VALUATION DES RISQUES HYDROLOGIQUES ET HYDROGEOLOGIQUES PAR ANALYSE MULTICRITERE SIG : CAS DU PROJET DE CENTRALE SOLAIRE PHOTOVOLTAÏQUE DE 30 MWc DE NIGOUNI (NORD DE LA COTE D'IVOIRE).

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's ID: JPR- JPR-171.

Detailed Reviewer's Report

This manuscript presents a technically sound hydrological and hydrogeological assessment for a solar power plant project in northern Côte d'Ivoire, addressing an important applied research topic with direct implications for renewable energy infrastructure planning. The methodological approach combining GIS-based multi-criteria analysis, rational method flood estimation, and field hydrogeological investigations is appropriate and well-executed. However, significant revisions are required. The introduction is overly long and includes irrelevant background on energy policy that should be condensed. The results section is excessively detailed and repetitive, with figures referenced incorrectly ("Figure Error! Reference source not found") throughout. The discussion adequately engages with literature but would benefit from more critical synthesis and acknowledgment of methodological limitations. Several figures and tables are poorly formatted and lack clear captions. The conclusion is disproportionately long and includes recommendations that belong in a dedicated section. References contain formatting inconsistencies and missing DOIs. The authors must streamline the introduction and results, correct all figure references, improve table presentation, strengthen discussion with critical analysis, and thoroughly revise language quality. With these revisions, this work will provide valuable guidance for solar project development in West Africa.