



ISSN NO. 2320-5407

ISSN(O): 2320-5407 | ISSN(P): 3107-4928

International Journal of Advanced Research

Publisher's Name: Jana Publication and Research LLP

www.journalijar.com

REVIEWER'S REPORT

Manuscript No.: IJAR-57919

Title: Assessment of the Quality and Potability of Groundwater from Boreholes in the Peripheral Areas of Niamey.

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- 171

Detailed Reviewer's Report

This study assesses physico-chemical quality of borehole water in peri-urban Niamey. The topic is relevant, but the manuscript has significant flaws. First, the sample size (n=8) is too small to represent the diversity of groundwater sources in Niamey's peripheral areas; no justification for sample selection is provided. Second, the methodology lacks details on borehole depth, construction type, and distance from potential pollution sources. Third, statistical analysis is absent no standard deviations, confidence intervals, or comparison of means across sites. Fourth, the discussion of health risks (e.g., fluorosis) is superficial and does not quantify exposure or probability. Fifth, several figures are poorly labelled (e.g., Figure 3 shows "pH Diagram" but axes are unclear). Sixth, the conclusion states that "80% of boreholes comply" but does not identify which parameters failed for Saga Eole and Dubai. Seventh, references to "WHO guidelines" are not consistently dated. The authors must expand the sample, provide detailed site characterisation, add basic statistics, and clarify exceedances. A major revision is required.