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## REVIEWER'S REPORT

Manuscript No.: IJAR-55827

**Title:** Potentiel de Sequestration de Carbone dans le Systeme Sol-Plante : Evaluation dans les Sols du Systeme Oasien du Manga (Sud-Est Nigerien)

**Recommendation:**

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

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

Reviewer Name: Dr. Sumathi

### *Detailed Reviewer's Report*

- 1. Carbon Storage** - the total amount of carbon in a forest or a part of the forest (trees, soil). **Carbon Sequestration** - The process by which trees, grasses, and other plants take up atmospheric carbon dioxide through photosynthesis and store it as carbon in biomass (trunks, branches, foliage, and roots) and soils.
- 2. A soil-plant system** is the dynamic, interconnected environment where soil and plants constantly interact, exchanging water, nutrients, gases, and energy, forming a complex living ecosystem crucial for plant health, growth, and overall environmental functions like carbon cycling and water filtration.
- 3. Healthy systems** involve a soil food web, where plants provide sugars to microbes, and microbes break down organic matter into plant-available nutrients, creating a mutually beneficial cycle.
- 4. Woody biomass** is organic material from trees and woody plants, including trunks, branches, leaves, roots, and residues, used as a renewable energy source for heat, power, and fuels, often sourced from forest thinning, logging waste, or dedicated energy crops. It's a sustainable alternative to fossil fuels, helping with forest health and

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wildfire mitigation by utilizing non-merchantable wood parts that might otherwise be wasted.

5. Manga refers to Japanese comics or graphic novels, characterized by a distinct art style (often black-and-white with expressive characters and dynamic panels) and a unique reading direction (traditionally right-to-left), covering diverse genres for all ages, with many popular series adapted into anime (Japanese animation).
6. Significant points are given.
7. Summary points must be included.
8. References should be in alphabetical order.
9. Tables are good but can be given graphs for tables.
10. After a small changes good to publish in your journal.