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REVIEWER'S REPORT

Manuscript No.: IJAR-56214

Title: HEAVY METALS AND CADMIUM TOXICITY IN SOIL AND PLANT

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 review article provides a comprehensive overview of cadmium toxicity in soil-plant systems, effectively synthesizing current knowledge on contamination sources, uptake mechanisms, physiological impacts on plants, and human health risks. The inclusion of a detailed table documenting effects across multiple plant species strengthens the empirical foundation, and the conceptual figures enhance understanding of toxicity pathways. The paper addresses an important environmental health concern with clear relevance to agriculture and food safety.

However, several revisions are recommended before publication. The manuscript would benefit from restructuring to improve logical flow, as the current organization jumps between topics without clear transitions. The references contain inconsistencies in formatting (e.g., incomplete journal names, missing volume numbers) that require systematic correction. Additionally, Figure 1 appears twice with different captions, creating confusion that must be resolved. The conclusion section introduces new recommendations (biochar, mycorrhizal inoculants) not discussed in the main text; these should either be integrated earlier or removed for coherence. A brief discussion of remediation strategies mentioned in the abstract would strengthen the review's practical value. With these organizational and formatting improvements, this paper will serve as a useful resource for researchers and practitioners working on heavy metal contamination issues.