Review Form 3

Journal Name:	**Asian Journal of Applied Chemistry Research**
Manuscript Number:	**Ms_AJACR_120838**
Title of the Manuscript:	**Elimination of Chromium (VI) by the Horsetail (Equisetum hyemale) Biomass in Aqueous Solution**
Type of the Article	**Original Research Article**

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty'**, provided the manuscript is scientifically robust and technically sound.
To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

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PART 1: Review Comments

Compulsory REVISION comments	**Reviewer's comment**	**Author's Feedback** *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)*
Please write few sentences regarding the importance this manuscript for scientific community. Why do you like (or dislike) this manuscript? Minimum 3-4 sentences may be required for this part.	Chromium (VI), is a very toxic and dangerous metal for human health, because at the industrial level, it is used in the tanning of skins, the production of pigments, preservatives of the textile and wood industry, alloys, antifouling paints, catalysts, anticorrosive agents, drilling muds, high temperature batteries, fungicides, metallic and electrogalvanized coatings, which are an important source of contamination by this metal, so currently, alternatives have been sought to try to eliminate it from the environment, and the objective of this work was analyze the Chromium (VI) removal capacity in aqueous solution by the Horsetail (Equisetum hyemale) biomass, These results suggest their potential applicability for the remediation of Cr (VI) from polluted soils in the fields.	
Is the title of the article suitable? **(If not please suggest an alternative title)**	**YES**	
Is the abstract of the article comprehensive? Do you suggest addition (or deletion) of some points in this section? Please write your suggestions here.	**YES**	
Are subsections and structure of the manuscript appropriate?	**YES**	
Please write few sentences regarding the scientific correctness of this manuscript. Why do think that this manuscript is scientifically robust and technically sound? Minimum 3-4 sentences may be required for this part.	In bioremediation tests, it was found that biomass efficiently removes metal from contaminated earth and wastewaters with chromium (VI), therefore, their application is viable for its treatment, in addition, the biomass analyzed very efficient, of easy obtained, handling, and low cost.	
Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. **-**	**YES**	

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Minor REVISION comments **Is language/English quality of the article suitable for scholarly communications?**		
Optional/General comments	1. I recommend acceptance of this paper to your journal after following revisions 2. Please have English speaking colleague and native language correction sentence structure and grammatical structure. 3. Title is not clear such as some grasses can be weed species, both weed and grass can be flowering plant, thus should be distinct title. 4. How did introduction relating to this research? Please rewrite a real and clear problem for the introduction and line with the objectives. 5. The article contains a good science but need to be rewritten. • So many typos • Misalignment 6. Author should recast the introduction using his literary style and should try to bring out some of the previous reports on the study plants and relate these to the present study. 7. The authors have not displayed the results of the moisture content and pH of the adsorbent anywhere in the text. 8. Also, the authors must carry out characterization experiments of the adsorbent like SEM, TEM, FTIR and XRD studies. This helps to understand the surface texture, morphology, chemical composition and functional groups present on the adsorbent surface. Since adsorption is a surface phenomenon, Characterization of adsorbent surface helps to elucidate the mechanism of adsorption phenomenon, and the nature of interaction between the adsorbate-adsorbent. This also helps while designing for large scale industrial use as the authors have intended in the concluding text. 9. Percentage removal is not the best way of representation of the efficiency of the adsorption phenomenon as the authors have used in the present study. The best way for representation is the quantity of adsorbate adsorbed by the adsorbent per unit gram of adsorbent (mg/g). The authors must consider revision. 10. The authors have not carried out experiments to study the effect of particle size of adsorbent. For this, the authors need to carry out further studies like pilot scale column studies, testing the adsorbent in real waste water solutions etc. Major work is expected from the authors on this aspect. 11. **3.5 Bioremediation of Chromium (VI) from earth and water contaminated ?** **Incomplete Heading.** •	

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PART 2:

	Reviewer's comment	**Author's comment** *(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)*
Are there ethical issues in this manuscript?	*(If yes, Kindly please write down the ethical issues here in details)*	

Reviewer Details:

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