



SDI Review Form 1.6

Journal Name:	Asian Plant Research Journal
Manuscript Number:	Ms_APRJ_51249
Title of the Manuscript:	Lemna sp. AS A CHROMIUM HEAVY METAL FITOREMEDIATOR ON TANNERY ASTEWATER AND ITS POTENTIAL USE AS FISH FEED
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:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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PART 1: Review Comments

	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)
<p>Compulsory REVISION comments</p>	<p>The paper has too many mistake. Even the title. “Fitoremediator” ->Melayu word, not English</p> <p>Abstract need to be kept short, simple and straight to the point. Remove unnecessary details which can easily obtain in the main text. Remove place and duration from abstract. Rewrite and combine study design and methodology into a few sentences. The results and conclusion in the abstract also need to be rewrite so that they are more concise.</p> <p>There are not that many different species in Lemna genus. They are all quite distinct in appearance, therefore it shouldn't be difficult to identify the species name. Please find out, otherwise include a high resolution image of the plant. https://en.wikipedia.org/wiki/Lemna</p> <p>The method used in this section is more specifically phytoextraction. It will be ideal to use this term rather than the broad term phytoremediation.</p> <p>Introduction is a bit shallow and lazy. To summary, the introduction just briefly touch on the general background about pollution, <i>Lemna</i>, chromium and a definition of phytoremediation. Authors should use this section to describe more about the attractive features of phytoextraction and it is different from other remediation method.</p> <p>Rather than just citing Lemna with ref 14-19 seem a little lazy. Authors should take main finding of these published studies and briefly describe how successful they are, and the potential of this study. Other similar studies should also used in the introduction, and what other pollutions they can remediate. Please see the suggested papers for idea. Cite if you use the resource, http://www.vinanie.com/jebr/articles/v5n1p10.html https://europepmc.org/abstract/med/28862490 https://link.springer.com/article/10.1007/s13201-019-0960-6 The full papers can be found in Researchgate.</p> <p>Aims and objectives should be clearly stated at the end of the introduction (not just in abstract).</p> <p>Please recheck the whole manuscript for simple spelling errors: Section 2. →chromuim</p> <p>Please italicised all scientific name of biological sample. A few “Lemna” were not italicised.</p> <p>Abbreviation of Atomic absorption spectrophotometry is wrong. It should be AAS, not SSA.</p> <p>Table 1 is not useful. The average of the data is already described in the text. Therefore there is not need for repetition of information in form of table.</p> <p>Cr6+The chemical formula are not properly superscripted.</p>	<p>All the corrections have been done</p>



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	<p>Experimental design. (This is important, please clarify these questions).</p> <ul style="list-style-type: none"> • Why 1.75% bio-slurry? Is that the optimised rate? Is that from household sewerage or farm animal source? • Have authors included a control? Remediation of Cr without the slurry • How exactly was the phytoextraction experiment carried out? • Place under a shade or inside lab? Under Artificial lighting or under the sun? Duration of light exposure per day. Any exposure to rain? • How was the appearance of <i>Lemna</i> after 5 days? Are they yellow or did they become more green? • What is the pH of the wastewater after mix with bioslurry? What is the pH after the remediation. • Why was the tannery wastewater not characterised? <p>To label the potential <i>Lemna</i> is safe as fishfood after remediation is a little dangerous, because authors did not carry out any toxicity test. It is also to remind that Pb, Cd, Al, Ni, Co Ag as well as organic pollutants can be present in tannery wastes. Moreover, there is another thing known as bioaccumulation that increases along the food chain.</p> <p>What is Cr-pic mentioned in the conclusion?</p>	
<p>Minor REVISION comments</p>		
<p>Optional/General comments</p>		

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)
<p>Are there ethical issues in this manuscript?</p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	