

Review Form 1.7

Journal Name:	Journal of Advances in Biology & Biotechnology
Manuscript Number:	Ms_JABB_117231
Title of the Manuscript:	Comparative analysis of nickel adsorption by natural sisal fiber and treated with citric acid
Type of the Article	Original Research Article

Review Form 1.7

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>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</p>	<p>Yes, the manuscript is about the removal of heavy metals from the industrial waste waters. However, there are many techniques already practicing, this manuscript suggests the use of sisal fibres which is eco-friendly and cheaper way.</p> <p>Partially it suits, the manuscript is more about the analysis than the comparative study. I suggest the author to change as the "Analysis of Nickel absorption by natural sisal fibre and treated with citric acid".</p> <p>Yes.</p> <p>Yes, but It should include a discussion section.</p> <p>The data provided in the manuscript are scientifically acceptable.</p> <p>References provided are enough for the manuscript.</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>English quality should be more scientific.</p>	
<p>Optional/General comments</p>	<p>1. Why the citric acid is used to insert -OH group on sisal fibre? Any specific reason. Is there any other chemical used for the same?</p> <p>2. How did the author prepare the metal solution? Is there any evidence to confirm the presence of impurities?</p> <p>3. Why the XRD of treated sisal fibre show greater intensity peak at 22° composed to untreated fibre?</p> <p>4. While explaining the SEM images, the author mentioned that chemical treatment have removed impurities and undesirable dirt. A) Please state, which are the impurities eliminated by the chemical treatment? B) Which treatment is responsible for the removal of impurities. Either NaOH or the Citric acid? C) The images represented are completely different from on another. It cannot be comparable. Please replace either Figure 2:A or Figure 2B.</p> <p>5. In FTIR Analysis, the author has not discussed any thing related to the study. The presence of various groups was mentioned. Kindly discuss how these evidences are important for the study. Please include the information regarding the presence of lignocellulosic fibre observed through FTIR analysis. Also, explain the change in the lignocellulosic composition due to chemical treatment. Please mention the wavelength on X axis in figure 03.</p> <p>6. While explaining the influence of mass on absorption tests, the author mentioned about absorption sites and active sites. What are these? Can the presence of active sites on the sisal fibre through any characterising techniques such as SEM, XRD, FTIR?</p> <p>7. In figure 05, what is R%?</p> <p>8. While observing the influence of pH, why the scale is 2-7? Why not beyond 7?</p> <p>9. Kindly discuss, how pH is influencing the Ni absorption?</p> <p>10. How do you conclude the presence of -OH group has improves the Ni absorption?</p>	

Review Form 1.7

	11. According to this manuscript, which fibre is better for the Ni absorption along with mass and pH. 12. Please include a discussion part to compare the results of treated and untreated fibre.	
--	--	--

PART 2:

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

Reviewer Details:

Name:	Chethan G
Department, University & Country	Mangalore University, India