

### Review Form 3

Journal Name:	<a href="#">Journal of Materials Science Research and Reviews</a>
Manuscript Number:	Ms_JMSRR_129807
Title of the Manuscript:	Development of Affordable Ceramic Microfiltration Membrane Using Rice Husk as a Pore Former for Brewery Water Treatment.
Type of the Article	Original Research Article

#### **General guidelines for the 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 guidelines for the Peer Review process, reviewers are requested to visit this link:

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#### **Important Policies Regarding Peer Review**

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#### **PART 1: Comments**

	<b>Reviewer's comment</b>	<b>Author's Feedback</b> <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<b>Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.</b>	The subject is current given the use of natural waste for the manufacture of a filtration membrane used for the manufacture of beer.	Ok
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>	<b>The title is suitable</b>	Ok
<b>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</b>	<b>no</b>	Ok
<b>Is the manuscript scientifically, correct? Please write here.</b>	The manuscript is scientifically correct	Ok
<b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b>	Some reference must be added the reference is not so recent 2006-2020	Done. All the reference suggested have been added to the manuscript.

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<p><b>Is the language/English quality of the article suitable for scholarly communications?</b></p>	<p>suitable</p>	<p>Ok</p>
<p><b>Optional/General</b> comments</p>	<p>The subject is current given the use of natural waste for the manufacture of a filtration membrane used for the manufacture of beer.</p> <p>Some remarks must be taken into account by the authors of this work who are:</p> <ul style="list-style-type: none"> <li>✓ Adding PCM as an agent for water purification you add the following references in your introduction as well as in the equations</li> </ul> <p>K. Hidouri, H. Togun, F. L Rashi, a. M. Abed, A.K. Hussein, B. Ali, S. Rout, M. B. B. Hamida, U. Biswal. Environmental studies for various simple and hybrid solar still configurations : a comprehensive review. <i>Journal of Thermal Engineering (2024)</i> 10(6):1698-1714 DOI <a href="https://doi.org/10.14744/thermal.0000877">10.14744/thermal.0000877</a></p> <p>H. Ajari, F. Khaled, H. Akrouf, <b>H. Khaoula</b>, B. Chaouachi, Q. Alsahy. Novel composite membrane based on Recycled low-density polyethylene-alumina used for vacuum membrane distillation. <i>Bulletin of the National Research Centre (2023) indexing services including PubMed Central and Web of Science (Clarivate Analytics) ISSN: 2522-8307.</i></p> <p>H. Ajari, <b>K. Hidouri</b>, H. Akrouf, F. Khaled, B. H. Ali, B. Chaouachi, Q. Alsahy. Improvement of a novel polymeric membrane performance by adding alumina powder for seawater desalination. <i>Desalination and water treatment doi: 10.5004/dwt.2023.30191 (2023)</i></p> <p>A. Hamzaoui, <b>K. Hidouri</b>, B. Chaouachi. Comparative study of the performance of a locally manufactured membrane and the commercial one in vacuum distillation (VMD) of brackish water. (2022). <i>Desalination and water treatment doi: 10.5004/dwt.2022.28029 (2022)</i></p> <p>H. Khaled, <b>K. Hidouri</b>, B. Chaouachi. Hybrid desalination combining microbial cells and reverse osmosis. <i>JP Journal of Heat and Mass Transfer. http://dx.doi.org/10.17654/0973576322019.26 (2022) 179-196</i></p> <ul style="list-style-type: none"> <li>✓ For sections 2.2 and 2.3 add real and schematic photos to fully understand the experimental part</li> <li>✓ For all equations added in references the question where all the equations come from</li> <li>✓ Why did you use the pressure 0.08mPa?</li> <li>✓ Figures 1, 2, 3 to be redone are not clear</li> </ul>	<p>Ok</p> <p>Done. All the references have been added accordingly.</p> <p>Done. Schematic have been added for better understanding.</p> <p>There are all included.</p> <p>It is actually 0.0017MPa which is now corrected. This is within the range of pressure for dead-end microfiltration operations, laboratory standard(0-0.12bar). This is the pressure generated by the pump used.</p> <p>The publisher may need to enlarge a bit for clarity. They are clear from this end.</p>

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**PART 2:**

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