

**Review Form 1.7**

Journal Name:	<b>Asian Journal of Biology</b>
Manuscript Number:	<b>Ms_AJOB_118157</b>
Title of the Manuscript:	<b>Copperized Karanj Seed (Pongamia pinnata) Oil as an Alternative to Chemical Preservative in Plywood Manufacturing</b>
Type of the Article	<b>Original Research Article</b>

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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><b>Compulsory</b> REVISION comments</p> <ol style="list-style-type: none"> <li>1. <b>Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</li> <li>2. <b>Is the title of the article suitable?</b> (If not please suggest an alternative title)</li> <li>3. <b>Is the abstract of the article comprehensive?</b></li> <li>4. <b>Are subsections and structure of the manuscript appropriate?</b></li> <li>5. <b>Do you think the manuscript is scientifically correct?</b></li> <li>6. <b>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></li> </ol> <p><b><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></b></p>	<ol style="list-style-type: none"> <li>1. Yes, it is highly relevant. The authors have developed an effective method for preserving wood using copperized Karanj seed oil, which is an alternative to toxic chemical preservative currently used in plywood manufacture. The study provides much needed information regarding the effectiveness of this green preservative against wood borers and termites, and its effect on the mechanical properties of plywood. This manuscript addresses the growing environmental concerns related to the use of toxic chemicals in wood preservation and provides a practical solution to the industry to adopt sustainable practices. Thus, the present study contributes importantly to the growing interest in the use of natural products as alternatives to toxic chemicals in wood preservation.</li> <li>2. Yes, the title of the article, "Copperized Karanj Seed (Pongamia pinnata) Oil as an Alternative to Chemical Preservative in Plywood Manufacturing," is suitable and effectively conveys the main focus and objective of the research. It clearly indicates the use of copperized Karanj seed oil as a substitute for chemical preservatives in plywood production, highlighting the innovative approach and ecological consideration of the study.</li> <li>3. Yes, the short part at the start of the piece gives a full look. It quickly goes over the big ideas of the study, like the want for green wood safe stuff, using a copper mix from Karanj seeds instead, the steps they took, main points about how well it works and how strong it is, and the big thoughts they got from the work. On the whole, the first short part gives a sharp view of the study's aims, ways, and what they found, making it easy for people to get the main bit of the research.</li> <li>4. Yes, the manuscript's subsections and structure seem to be suitable. In the manuscript, the sections of Introduction, Literature Review, Materials and Methods, Testing, Results and Discussion, Conclusion, and References are clearly defined. The main objective of any subsection within these core parts is to create a natural flow pattern of the research journey that starts from the general knowledge to the specific information related to what is being researched empirically.</li> <li>5. The script, therefore, seems to be scientifically correct, considering that the research applies a structured approach to it, right from appropriate methods of extraction, synthesis, and testing, adhering to its set standards and procedures in place in the form of Indian Standards. The results obtained from the experiments are well presented with appropriate data, and the conclusions drawn based on these results are logically drawn and lie in line with the study's objectives.</li> <li>6. The references provided in the manuscript include a mix of both historical and relatively recent sources, covering various studies relevant to wood preservatives and the properties of Karanj (Pongamia pinnata). While the references seem adequate to support the context and findings of the study, the most recent reference appears to be from 2008. Given the rapid advancements in sustainable materials and eco-friendly preservatives, it would be beneficial to include more recent references from the past decade to ensure the study is grounded in the latest research developments.</li> </ol>	
<p><b>Minor</b> REVISION comments</p> <ol style="list-style-type: none"> <li>1. <b>Is language/English quality of the article suitable for scholarly communications?</b></li> </ol>	<p>The language and English quality of the article appear to be mostly suitable for scholarly communication</p>	

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<p><b>Optional/General</b> comments</p>	<p>Here are some observations and suggestions:</p> <p><b>Grammar and Syntax:</b></p> <p>Ensure that the sentences are grammatically correct and clear. For instance, the sentence "Wood, which is the basic raw material for plywood manufacture, being ligno-cellulosic material is liable to degradation due to microbiological organisms and other biological wood destroying organisms causing significant loss." could be revised for clarity: "Wood, the basic raw material for plywood manufacture, is a lignocellulosic material prone to degradation due to microbiological and other wood-destroying organisms, causing significant loss."</p> <p><b>Punctuation:</b></p> <p>Proper punctuation can help in making sentences clearer. For example, "The process of treating wood with chemicals and other biochemical substances is called 'wood preservation'" could be clearer with a comma: "The process of treating wood with chemicals and other biochemical substances, known as 'wood preservation', ..."</p> <p><b>Technical Terminology:</b></p> <p>Ensure that technical terms are used consistently and correctly throughout the manuscript. For example, "Karanj or Pongamia pinnata is known for its anti-fungal and pesticide properties" might be better as "Karanj (Pongamia pinnata) is known for its antifungal and pesticidal properties."</p> <p><b>Flow and Structure:</b></p> <p>The flow of the manuscript can be improved by ensuring that each section transitions smoothly to the next. For example, make sure the Literature Review section clearly leads into the Materials and Methods section by summarizing key points and stating the objectives of the current study.</p> <p><b>Clarity and Conciseness:</b></p> <p>Some sentences could be made more concise without losing meaning. For instance, "Therefore, it is necessary to develop an alternate naturally available preservative which will be effective for plywood manufacture." could be streamlined to "Therefore, developing an effective, naturally available preservative for plywood is necessary."</p> <p>Overall, while the manuscript's English is generally understandable and communicates the scientific content, careful proofreading and editing to address these points would enhance its quality and readability for scholarly communication.</p>	

**PART 2:**

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

**Reviewer Details:**

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