



SDI Review Form 1.6

Journal Name:	<u>British Journal of Applied Science & Technology</u>
Manuscript Number:	Ms_BJAST_24551
Title of the Manuscript:	Production and Analysis of Pyrolysis Oil (Bio-Oil) From Mahogany Wood
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 proximate and ultimate analysis details of Mahogany wood should be added in the introduction. Explain briefly why this wood was selected for pyrolysis. Review of literature is not satisfactory. Page-3, Line-115, Under materials and methods, the clarity of explanation and readability is totally missing. Photograph of the experimental setup should be included. The methodology should be relevant for results interpretation and discussions.</p> <p>Which type of pyrolysis is considered on designing? What is the capacity of the reactor? What is the size of wood used for experiment? What is the moisture content of the feedstock during experimentation? Cost & Financial explanations? The role and the need of start-up burners? Operation and maintenance factors? Reactor operating pressure? Water inlet temperature and quantity of water used in condensers? Page-6, Line-198, In table.2, the values should be compared with standards and also with other pyrolysis oil experiment results/references.</p> <p>Page-7, Line-225, From table.3, Results interpretation of the quantity of pyrolysis oil (in ml) yield per kg feedstock with respect to different temperatures are needed.</p> <p>The yield of char and gas should also be monitored during this study. Heat rates and mass balance should be notified.</p> <p>This experiment is the base ground work on batch process and operation. But, for the further investigations, there should be a profound methodology and systematic approach in</p>	



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	experimentation.	
Minor REVISION comments	Page-1, Line-28 , "This work seek to demonstrate... .. serve as a fuel." This sentence should be re-written with respect to the submitted article. Page-2, Line-70 , "Bio-oil is a dark brown, free owing liquid fuel" owing should be corrected a flowing.	
Optional/General comments	The quality and quantum of research investigation is not meeting acceptance of the journal standards.	

Reviewer Details:

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