

Review Form 1.7

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_111646
Title of the Manuscript:	EFFECT OF DI-TERT BUTYL PEROXIDE ON DIESEL ENGINE PERFORMANCE FUELLED BY BIODIESEL BLENDS
Type of the Article	Original Research Article

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)
Compulsory REVISION comments 1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript) 2. Is the title of the article suitable? (If not please suggest an alternative title) 3. Is the abstract of the article comprehensive? 4. Are subsections and structure of the manuscript appropriate? 5. Do you think the manuscript is scientifically correct? 6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u>	 1. The introduction should be elaborate, as well as the introduction of biodiesel, needs, advantages, literature findings, and the study's objective. 2. Generally, Jatropha curcus oil has a high FFA value (i.e., above 2%). Therefore, a pretreatment acid-catalyzed esterification process is required to reduce the free fatty acid content. However, this work shows no evidence of the esterification process with H2SO4 acid. 3. In materials and methods , details of materials such as oil source, chemicals used and their specifications are not mentioned. 4. Engine specifications should be mentioned. 5. Properties of Biodiesel blends of various proportions are not mentioned. 6. Properties of Di-Tetra Butyl peroxide must be included. 7. Biodiesel characterization such as GC, FTIR, and 1HNMR (any one analysis is required to know the conversion of esters) 8. In the result and discussion , B100, which has a low BSFC compared to B50 in this study, needs an explanation for this decrease. 9. CO and HC emissions have incremental trends with load as per your result; how is it possible that when complete completion occurs automatically, CO & HC will decrease? It Needs a proper explanation. 10.Sound-level data in your results also need clear explanations. 11.Need to discuss the outcomes and proper explanation in all parameters analysis. 12. In Conclusion , the Narration of the results and conclusion must be rewritten as results and their reasons	Noted
Minor REVISION comments 1. Is language/English quality of the article suitable for scholarly communications?	Writing Can be crisp and specific	
Optional/General comments	 1. In References , Very few literatures are included (only 4), need more references	

[Review Form 1.7](#)

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>	