

## Review Form 1.6

Journal Name:	<a href="#">Journal of Advances in Mathematics and Computer Science</a>
Manuscript Number:	Ms_JAMCS_81453
Title of the Manuscript:	<b>An Inventory Analysis for Deteriorating Items Incorporating The Effect of Preservation Technology Investment When Demand Is Time Dependent</b>
Type of the Article	<b>Original Research Article</b>

### **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:

(<https://www.journaljamcs.com/index.php/JAMCS/editorial-policy> )

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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)
<b>Compulsory</b> REVISION comments		
<b>Minor</b> REVISION comments	<p><b>ABSTRACT</b></p> <ul style="list-style-type: none"> <li>• Include a summary of results in the abstract such that when someone reads abstract alone, he/she will be able to understand everything about the research even without reading the document. (Summarize in the results in one sentence or two)</li> </ul> <p><b>INTRODUCTION</b></p> <ul style="list-style-type: none"> <li>• The second sentence where Phrase Inventory is defined should be cited. Cite the source of your definition.</li> <li>• In the third paragraph, Definition of Preservation technology should also be cited.</li> <li>• <b>Grammar and sentence structure improvement in the introduction section</b></li> </ul> <p><i>"The goal of inventory management is to keep stock levels as low as possible while <del>yet</del> ensuring that....."</i> (remove 'yet')</p> <p><i>"They improved on HSU et al [8] model by <del>include</del> including time-varying degradation and....."</i> (replace 'include' with 'including')</p> <p><i><del>"In this research, we look at</del> This research focuses on how a retailer's non-instantaneously deteriorating items affect preservation technology, investment and inventory decisions. Besides, it analyzes the <del>as well as a</del> sensitivity analysis to <del>see</del> investigate how they are affected by cost factors."</i> (Avoid use of first person such as 'we').</p> <p><i>"Also <del>we have considered</del> this research considers time dependent deterioration rate which cannot be constant in real situation. <del>In real situation, deterioration rate cannot be constant.</del> Due to various causes deterioration rate can be changed and shortages cannot be allowed in the model of the present research. <del>In our model shortages are not allowed. We have</del> The model is solved <del>the model</del> to optimize the total cost which is to be minimized. A numerical example is analyzed to check the validity of the model and the sensitivity of different parameter is observed graphically. <del>Also the sensitivity of different parameter is observed graphically.</del>"</i> (Improve sentence structure as indicated)</p> <p><b>ASSUMPTIONS</b></p> <p>VII: Shortages <del>is</del> are not allowed.</p> <p><b>MATHEMATICAL FORMULATION</b></p> <ul style="list-style-type: none"> <li>• State the source of the governing differential equation and why it was chosen for this particular problem.</li> </ul> <p><b>RESULTS, DISCUSSION AND COMPUTATIONAL ANALYSIS</b></p>	

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	<ul style="list-style-type: none"> <li>The equation was solved using which method or which software? Clearly indicate it.</li> </ul> <p><b><u>TABLES AND FIGURES</u></b></p> <ul style="list-style-type: none"> <li>Explain a bit about your tables after each and refer each table in the text.</li> <li>For all graphical presentations, they are referred as “graph above” instead, mention the figure number. For example in the first figure “.....the total cost per unit time decreases, as <del>seen</del> illustrated in figure 1 <del>the graph above.</del>” <b>(Do the same for all figures)</b></li> </ul> <p><b><u>CONCLUSION</u></b></p> <ul style="list-style-type: none"> <li>As indicated in the reviewed document. Corrections on sentence structure and grammar.</li> </ul>	
<p><b><u>Optional/General</u></b> comments</p>	<ul style="list-style-type: none"> <li>Go through again to further improve grammar and sentence structures. For instance, some sentences can be combined to form one sentence.</li> </ul>	

**PART 2:**

	<p><b>Reviewer’s comment</b></p>	<p><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></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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<p>Department, University &amp; Country</p>	<p><b>Moi University, Kenya</b></p>