

## Review Form 1.7

Journal Name:	<a href="#">Asian Journal of Advanced Research and Reports</a>
Manuscript Number:	Ms_AJARR_118777
Title of the Manuscript:	AVIATION SAFETY: HELIDECK SURFACE FRICTION MANAGEMENT AND MAINTENANCE FOR SAFE HELICOPTER OPERATIONS
Type of the Article	Short communication

### **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:

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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> <p>1. <b>Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</p> <p>2. <b>Is the title of the article suitable?</b> (If not please suggest an alternative title)</p> <p>3. <b>Is the abstract of the article comprehensive?</b></p> <p>4. <b>Are subsections and structure of the manuscript appropriate?</b></p> <p>5. <b>Do you think the manuscript is scientifically correct?</b></p>	<p>1. The manuscript titled "AVIATION SAFETY: HELIDECK SURFACE FRICTION MANAGEMENT AND MAINTENANCE FOR SAFE HELICOPTER OPERATIONS" holds significant importance for the scientific and aviation community. It addresses critical safety considerations related to helideck operations, particularly in offshore environments. By exploring the challenges of maintaining adequate surface friction, the manuscript highlights essential strategies for risk mitigation and operational efficiency, which are vital for ensuring the safety of helicopter landings and take-offs. Furthermore, the incorporation of advanced materials like graphene presents innovative solutions that could potentially revolutionize helideck maintenance practices. This manuscript contributes valuable insights and practical approaches that can enhance safety standards and operational protocols within the aviation industry, making it a pertinent addition to existing literature.</p> <p>2. The title "AVIATION SAFETY: HELIDECK SURFACE FRICTION MANAGEMENT AND MAINTENANCE FOR SAFE HELICOPTER OPERATIONS" is suitable as it clearly conveys the main focus of the manuscript, which is on the safety aspects of helideck surface friction and maintenance in relation to helicopter operations. However, it could be made more concise and specific. An alternative title could be: "Enhancing Helideck Safety: Friction Management and Maintenance for Helicopter Operations"</p> <p>3. The abstract of the article is comprehensive and provides a clear overview of the key points discussed in the manuscript. It outlines the importance of helideck surface friction, the challenges associated with it, and the strategies for effective management and maintenance. It also briefly mentions the benefits of using graphene to improve helideck surface characteristics. The abstract effectively sets the stage for the detailed exploration within the manuscript, highlighting the relevance of the topic to safety and operational performance in the aviation industry.</p> <p>However, the abstract could be improved by summarizing the specific methodologies or findings in a bit more detail to give readers a clearer expectation of the content. Including a brief mention of the evaluation methods and key conclusions would enhance its comprehensiveness.</p> <p>4. The subsections and structure of the manuscript are appropriate for the topic. The manuscript is logically organized, starting with an abstract that summarizes the key points, followed by an introduction that sets the context. The subsequent sections detail the importance of surface friction, evaluation methods, and maintenance strategies, including innovative approaches like the use of graphene. The inclusion of figures and references supports the content effectively. Each section builds on the previous one, leading to a coherent conclusion. This structured approach ensures that the manuscript is easy to follow and understand, making it suitable for scholarly communication.</p> <p>5. Based on the content provided in the manuscript, it appears to be scientifically correct. The manuscript discusses important aspects of helideck safety, including the significance of surface friction, maintenance strategies, and the use of advanced materials like graphene. The references to established standards (e.g., UK CAA CAP 437) and the inclusion of specific testing methodologies (e.g., using the Findley Irvine Micro Grip Tester) lend credibility to the scientific accuracy of the manuscript.</p>	

**Review Form 1.7**

<p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>The manuscript correctly emphasizes the critical role of surface friction in preventing accidents during helicopter operations and provides practical solutions for maintaining and enhancing friction. Additionally, it acknowledges environmental factors and incorporates recent research findings, such as the benefits of graphene, which are supported by appropriate citations.</p> <p>While the manuscript appears scientifically sound, a detailed review of the experimental methods, data analysis, and conclusions would be necessary to fully confirm its scientific accuracy. However, based on the overview provided, the manuscript seems to adhere to scientific principles and industry standards.</p> <p>6. The references provided in the manuscript are relevant and cover important aspects of helideck surface friction and maintenance. They include a mix of recent sources (such as Zeng et al., 2018 and UK CAA CAP 437, 2023) and foundational studies (such as El-Reedy, 2015 and Park et al., 2008). This combination ensures that the manuscript is grounded in both established knowledge and current advancements in the field.</p> <p>However, to further strengthen the manuscript, it would be beneficial to include additional recent studies or reviews on the application of advanced materials like graphene in safety-critical surfaces, as well as more current research on helideck safety and maintenance practices.</p>	
<p><b>Minor</b> REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>The language and English quality of the article are generally suitable for scholarly communications. The manuscript is clear and mostly well-structured, with appropriate use of technical terms and industry-specific language. However, there are a few areas where improvements could be made:</p> <ul style="list-style-type: none"> <li>• Some sentences are long and could be broken down into shorter, more concise statements for better readability. For example, the sentence in the abstract about the types of helicopters and offshore sites could be more concise.</li> <li>• Ensure consistency in terminology and style. For example, "graphene" is sometimes written in lowercase and other times capitalized.</li> </ul>	
<p><b>Optional/General</b> comments</p>	<p>Reviewer's comment:</p> <p>Overall, the manuscript provides a comprehensive overview of the critical aspects of helideck safety, emphasizing the importance of surface friction management and maintenance. The inclusion of advanced materials like graphene adds a forward-looking perspective, showcasing innovative solutions to enhance safety and operational efficiency. While the manuscript is well-researched and informative, minor improvements in language clarity and grammatical precision would further enhance its readability and impact. Additionally, incorporating a few more recent references could provide a broader context and strengthen the discussion. This manuscript is a valuable contribution to the field of aviation safety and helideck operations, offering practical insights and recommendations for industry stakeholders.</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>	

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