

Review Form 3

Journal Name:	Journal of Scientific Research and Reports
Manuscript Number:	Ms_JSRR_126673
Title of the Manuscript:	A state-of-the-art Review on vortex induced vibrations phenomenon Bladeless Wind Turbine Technology
Type of the Article	Review

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PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<p>Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.</p>	<p>This manuscript is important for the scientific community as it explores the innovative use of vortex-induced vibrations (VIV) in bladeless wind turbines, offering a cost-effective and low-maintenance alternative for wind energy. Its multidisciplinary approach, combining fluid dynamics and engineering, paves the way for advancements in sustainable energy solutions and inspires further research in renewable technologies.</p>	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>Yes, the title "A State-of-the-Art Review on Vortex Induced Vibrations Phenomenon Bladeless Wind Turbine Technology" is suitable as it accurately reflects the content of the manuscript.</p>	
<p>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</p>	<p>The abstract of the article provides a solid overview of the topic by introducing the vortex bladeless wind turbine (VBWT) technology and explaining its basis in vortex-induced vibrations (VIV). It effectively highlights the key points of bladeless technology, its mechanism, and its potential advantages over traditional wind turbines.</p> <p>However, some improvements could enhance its comprehensiveness: Suggestions for Improvement: Clarify Specific Benefits: While the abstract mentions cost savings and other advantages, more detail on why these benefits matter in practical applications (e.g., lower maintenance requirements or suitability for urban settings) could be helpful. Field Test Results: If the paper discusses specific field test results or data, mentioning them briefly in the abstract would strengthen the summary and add credibility. Applications and Limitations: Including a brief note on the ideal scenarios or conditions for using VBWTs and any limitations could make the abstract more balanced.</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>Yes</p>	
<p>Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.</p>	<p>The manuscript appears to be scientifically robust and technically sound due to its detailed and multidisciplinary analysis of vortex-induced vibrations (VIV) in the context of bladeless wind turbines. It thoroughly references established theories and research, such as Von Kármán's work on vortex streets and studies on fluid dynamics, which supports the scientific basis of its claims. The manuscript integrates numerical modeling, theoretical frameworks, and practical applications, demonstrating a comprehensive understanding of the subject. Additionally, the use of reliable sources, equations, and empirical data lends credibility and supports the technical accuracy of its discussions.</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. :</p>	<p>Including more recent studies, especially from the past decade, on VIV and advancements in bladeless wind turbine technology could further strengthen the manuscript's relevance and support the latest innovations in the field.</p> <p>Suggestions for Additional References:</p> <ul style="list-style-type: none"> • Recent Review Articles on bladeless wind turbines or VIV in renewable energy applications from 2015 onwards. • Current Case Studies or Field Research related to the practical deployment and efficiency of bladeless wind turbines. • Innovative Engineering Solutions in fluid-structure interaction and their modern applications in energy harvesting. <p>For a thorough review of the research article, the number of references should be in the range of 80-100.</p>	

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Minor REVISION comments Is the language/English quality of the article suitable for scholarly communications?	The language quality of the article is generally suitable for scholarly communications, as it employs technical terminology and a formal tone appropriate for an academic audience. However, there are areas where the writing could be refined for improved clarity and flow. Some sentences in the manuscript are complex or may include minor grammatical inconsistencies that could be simplified or revised for better readability. Ensuring consistent use of technical terms and revising for conciseness would enhance the manuscript's overall quality. Minor edits in punctuation, grammar, and transitions between sections would also improve the readability and professional standard of the manuscript.	
Optional/General comments	Overall, the manuscript makes a valuable contribution to the study of renewable energy by exploring innovative bladeless wind turbine technology and the mechanics of vortex-induced vibrations. However, a few areas could benefit from refinement: <ol style="list-style-type: none">1. Abstract Enhancement: Adding more specifics on test results and applications could make the abstract more informative.2. Recent References: Including more recent literature would enhance the manuscript's modern relevance.3. Language Refinement: Minor edits to improve readability and clarity would elevate the quality of scholarly communication.	

PART 2:

	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)
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

Name:	Farooq Shaik
Department, University & Country	Vignan's Foundation for Science Technology and Research University, India