Review Form 3

Journal Name:	**Journal of Engineering Research and Reports**
Manuscript Number:	**Ms_JERR_128161**
Title of the Manuscript:	**INDUCTION MOTOR FAULT RESISTANCE AND ADAPTATION ANALYSIS FOR INDUSTRIAL APPLICATION**
Type of the Article	

PART 1: Comments

	Reviewer's comment	**Author's Feedback** *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)*
Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.	**This manuscript offers significant insights into the fault resilience and adaptive limits of three-phase induction motors under varying under-voltage conditions. Its findings are pivotal for enhancing motor protection strategies, particularly in industrial applications where reliability is crucial. The study highlights the need for preventive measures at higher fault thresholds, contributing to the optimization of motor-driven systems in power networks prone to instabilities. It also addresses a critical gap in understanding adaptive behavior under severe voltage drops, which is valuable for researchers and industry professionals alike.**	
Is the title of the article suitable? (If not please suggest an alternative title)	**The title, *"Induction Motor Fault Resistance and Adaptation Analysis for Industrial Application"*, is clear and relevant. It effectively conveys the manuscript's focus. However, a refined alternative could be: *"Fault Resistance and Adaptive Analysis of Induction Motors Under Voltage Variations in Industrial Applications."***	
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.	**The abstract is comprehensive, detailing the objectives, methodology, and findings of the study. However, it can be enhanced by including a brief mention of the implications for industrial motor protection strategies. Suggested revision: *"This research underscores the importance of integrating advanced fault tolerance designs and adaptive mechanisms to improve system reliability in voltage-sensitive industrial applications."***	
Is the manuscript scientifically, correct? Please write here.	The manuscript appears scientifically sound, with well-defined simulations and clear analytical methodologies. The logical flow, from problem identification to results and conclusions, is well-structured. The use of MATLAB/Simulink strengthens the reliability of the findings.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	The references are extensive and relevant, covering recent studies and foundational works in the field. However, adding more recent studies from 2022–2024 could further strengthen the manuscript.	
Is the language/English quality of the article suitable for scholarly communications?	The language is clear and suitable for scholarly communication. Some minor grammatical improvements, particularly in the methodology and results sections, could enhance readability.	
Optional/General comments	**This manuscript effectively combines theoretical analysis and practical simulations to address a critical aspect of industrial motor operation. The detailed analysis of adaptive limits under voltage variations adds significant value to the field.** No ethical concerns were identified in the manuscript. There is no indication of plagiarism in the text, but it is advisable to verify originality using plagiarism detection tools for confirmation.	

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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?	*(If yes, Kindly please write down the ethical issues here in details)*	

Reviewer Details:

Name:	**R. Nithya**
Department, University & Country	**CK College of Engineering & Technology, Anna University, India**