

Review Form 3

Journal Name:	Journal of Engineering Research and Reports
Manuscript Number:	Ms_JERR_122212
Title of the Manuscript:	ANALYSIS OF 4G/LTE NETWORK PERFORMANCE IN NORTH-CENTRAL NIGERIA: A COMPREHENSIVE DRIVE TEST APPROACH
Type of the Article	Original Research Article

General guidelines for the 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 guidelines for the Peer Review process, reviewers are requested to visit this link:

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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>May be</p> <ol style="list-style-type: none"> 1.It provides a comprehensive evaluation of 4G/LTE network performance in North-Central Nigeria using rigorous drive test methodology. This fills a gap in understanding network quality in this specific region. 2. The study compares multiple key performance indicators (network speed, latency, packet loss, uptime, coverage, signal power) across major mobile network operators. This multi-faceted analysis gives a holistic view of network performance. 3. The findings highlight significant disparities in network quality between operators, with implications for user experience and satisfaction. This information is valuable for stakeholders to improve service delivery. 4.The methodology employing generalized metrics and drive tests across multiple cities provides a robust approach that could be replicated in other regions or countries. 	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>yes</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>Yes</p> <p>It covers the key aspects of the study including objectives, methodology, results, and implications. However, it could be improved by:</p> <ol style="list-style-type: none"> 1. Briefly mentioning the specific cities/locations where drive tests were conducted. 2. Including a sentence on the practical implications or recommendations based on the findings. 3. Specifying the time period over which the study was conducted. 	
<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>Yes</p> <p>Demonstrates scientific robustness and technical soundness in several ways:</p> <ol style="list-style-type: none"> 1. It employs a well-established drive test methodology using industry-standard tools and software. 2. The study evaluates multiple key performance indicators, providing a comprehensive assessment of network quality. 3. The analysis uses descriptive statistics to summarize and compare performance metrics across operators. 4. The findings are contextualized within existing literature, demonstrating consistency with previous 	

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	studies while highlighting new insights.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. :	Yes 1. Shabbir, N., Sadiq, M. T., Kashif, H., & Ullah, R. (2023). Performance evaluation of 5G, 4G and 3G wireless networks in Pakistan. PLOS ONE, 18(1), e0279371. 2. Adediran, Y. A., Olawoyin, L. A., Ojo, O. A., & Sikiru, K. K. (2022). Drive test analysis and quality of service evaluation for 4G LTE networks: A case study of Ilorin, Nigeria. International Journal of Information Technology, 14(4), 2001-2013.	
<u>Minor REVISION</u> comments Is the language/English quality of the article suitable for scholarly communications?	yes	Check for typo errors
<u>Optional/General</u> comments	The references appear sufficient and relatively recent, with many from the past 5 years. However, a few additional recent references on 4G/LTE performance evaluation in other developing countries could strengthen the literature review and discussion.	

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:

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