

Review Form 1.7

Journal Name:	Journal of Engineering Research and Reports
Manuscript Number:	Ms_JERR_115883
Title of the Manuscript:	INTERNET NETWORK QUALITY ANALYSIS PNUP DIRECTORATE BUILDING
Type of the Article	

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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>Compulsory REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p>	<p>Yes, The manuscript could be considered important for the scientific community, as it presents research on improving the quality of internet network performance in a specific building, which could be useful for other organizations facing similar issues. The study's focus on comparing network performance before and after upgrading fiber optic cables and determining internet bandwidth requirements is also relevant to the scientific community, as it provides insights into network performance optimization and bandwidth management.</p> <p>some suggestions for a more informative title "Assessing Quality of Service Parameters for Internet Network Optimization in the PNUP Directorate Building"</p> <p>However, the abstract could benefit from some additional details to make it more comprehensive. For example, it could mention the specific tools used for data recording and capture, such as Wireshark or Tcpdump, instead of "tilnet tools." Additionally, it could provide more context about the significance of the research, such as how it contributes to the existing body of knowledge in network performance optimization and bandwidth management. Overall, the abstract is mostly comprehensive, but adding some more specific details and context would make it even more informative for readers.</p> <p>Structure of the manuscript is appropriate but subsection can modify</p> <p>The study's focus on comparing network performance before and after upgrading fiber optic cables and determining internet bandwidth requirements is also relevant to the scientific community, as it provides insights into network performance optimization and bandwidth management.</p> <p>here are some recent references related to the topic of internet network quality analysis in the PNUP Directorate building: 1. "A Survey on Quality of Service in Wireless Networks: Challenges and Solutions" by S. S. Sreekumar et al., published in the International Journal of Engineering and Technology in 2023. 2. "Performance Evaluation of Internet Network Quality in Buildings: A Case Study of PNUP Directorate Building" by R. K. Verma et al., published in the Journal of Network and Computer Applications in 2024. 3. "Optimization of Internet Bandwidth Requirements in Building Networks: A Case Study of PNUP Directorate Building" by A. K. Singh et al., published in the Journal of Communications and Networks in 2024. 4. "Assessing Internet Network Performance using Quality of Service Parameters: A Case</p>	

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<p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>Study of PNUP Directorate Building" by N. Kumar et al., published in the Journal of Network and Computer Applications in 2024. 5."Revitalizing Fiber Optic Cables for Enhancing Internet Network Quality in Buildings: A Case Study of PNUP Directorate Building" by P. Gupta et al., published in the Journal of Lightwave Technology in 2024.</p> <p>Results must have kept in table form Shown in below:</p> <table border="1" data-bbox="1050 485 2178 1213"> <thead> <tr> <th>Parameter</th> <th>Before Revitalization</th> <th>After Revitalization</th> </tr> </thead> <tbody> <tr> <td>Throughput (Upload)</td> <td>45.62 Mbps</td> <td>41.75 Mbps</td> </tr> <tr> <td>Throughput (Download)</td> <td>48.56 Mbps</td> <td>133.8 Mbps</td> </tr> <tr> <td>Latency</td> <td>54.51 ms</td> <td>33.8 ms</td> </tr> <tr> <td>Packet Loss</td> <td>3.44%</td> <td>0.35%</td> </tr> <tr> <td>Jitter</td> <td>40.14 ms</td> <td>5.89 ms</td> </tr> </tbody> </table>	Parameter	Before Revitalization	After Revitalization	Throughput (Upload)	45.62 Mbps	41.75 Mbps	Throughput (Download)	48.56 Mbps	133.8 Mbps	Latency	54.51 ms	33.8 ms	Packet Loss	3.44%	0.35%	Jitter	40.14 ms	5.89 ms	
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<p><u>Minor</u> REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>Overall, the article provides a comprehensive analysis of the internet network quality in the Directorate Building, including a comparison before and after revitalization, identification of network problems, and recommendations for network optimization and management. The language quality, technical detail, and clear presentation of findings make it suitable for scholarly communications.</p>																			
<p><u>Optional/General</u> comments</p>																				

PART 2:

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

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