

Review Form 3

Journal Name:	Asian Journal of Advanced Research and Reports
Manuscript Number:	Ms_AJARR_126868
Title of the Manuscript:	Evaluation of Wavelet Orthogonal Frequency Division Multiplexing Massive MIMO (W-OFDM mMIMO) for Enhancing Spectral and Energy Efficiencies in Digital Wireless Communication System
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:

<https://r1.reviewerhub.org/general-editorial-policy/>

Important Policies Regarding Peer Review

Peer review Comments Approval Policy: <https://r1.reviewerhub.org/peer-review-comments-approval-policy/>

Benefits for Reviewers: <https://r1.reviewerhub.org/benefits-for-reviewers>

PART 1: Review Comments

<u>Compulsory</u> 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>
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.		
Is the title of the article suitable? (If not please suggest an alternative title)		
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.		
Are subsections and structure of the manuscript appropriate?		
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.		
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.		

Review Form 3

<p>Minor REVISION comments Is the language/English quality of the article suitable for scholarly communications?</p>		
<p>Optional/General comments</p>	<p>The article is about Wavelet-based Orthogonal Frequency Division Multiplexing (W-OFDM) combined with Massive MIMO technology, which discusses the benefits of performance although fails to precisely convey the novelty or uniqueness that the work presents over already developed studies.</p> <ol style="list-style-type: none"> 1) Author is required to include a section which may precisely tell the unique contributions that this article offer. Author is also required to include its novel aspects in the abstract section as well. 2) In the introduction section, the assertion that "communication technology evolves faster than any other technology" is an overgeneralized statement. The author should refrain using such statements. 3) The paper contains minor grammatical errors and inconsistent tenses and could benefit from proofreading. 4) The literature on OFDM and Massive MIMO technology is relevant but may not cover recent innovations. Author is advised to include some more recent works in the domain. 5) Motivation for the research work, which pushed authors to introduce the suggested method, is missing from the article. 6) In Method Section some equations need a bit of more discussion like, equations 6 and 7 are mathematically sound, but brief explanations of terms like H and HH and inverse operation in Massive MIMO will make concepts more accessible. 7) In Equation (10) The vector representation of power allocation was defined, but its application in practical cases should be discussed. Similarly, Equation (12) describes the efficiency of PA but remains silent concerning the manner in which the values obtained influence overall energy efficiency. 8) In the result section, some figures need more clarity. For instance, in fig 6, legends are not visible clearly. In fig 7, y-label is missing. Quality of figures can be improved. 9) References in the text are used haphazardly, they do not follow the order they appear (cited) in the text. 10) Why Result and Discussion on Result Section are made separate, though they can make a common Section? 11) Future research direction of the presented work is missing that can benefit the readers and scholars and motivate them to add some significant work to the domain. 12) Several key performance indicators (KPIs) and terms (e.g., Energy Efficiency, Area Power Consumption) are briefly defined but lack in-depth explanation. Elaborating on these definitions and providing context for their selection will enhance understanding. 13) The simulation parameters in Table 1 and 2 lack specific reasoning for their values. Providing rationale for each parameter, especially those that differ from standard configurations, will clarify experimental choices and improve reproducibility. 14) The comparison between Wavelet-OFDM and FFT-OFDM mMIMO is essential. A deeper discussion on why Wavelet-OFDM outperforms FFT-OFDM in specific scenarios, perhaps including a theoretical basis, would add value to the comparison. 	

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)
<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>	

Reviewer Details:

<p>Name:</p>	<p>Ishan Budhiraja</p>
<p>Department, University & Country</p>	<p>Bennett University, India</p>