

Review Form 1.7

Journal Name:	Journal of Engineering Research and Reports
Manuscript Number:	Ms_JERR_102647
Title of the Manuscript:	Ultra-Wideband Metamaterial-based Rectangular Microstrip Antenna for Sub-6 GHz 5G and other Microwave Applications
Type of the Article	Original Research Article

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

(<https://www.journaljerr.com/index.php/JERR/editorial-policy>)

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><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>Yes, more review should be included.</p> <p>Ok</p> <p>There are several issues needing clarifications and comments. They are as follow: It is not explain why the SRR are cut at these location only, should be explain. An important drawback of the paper is its lacking discussion how the proposed antenna performs in terms of polarization? The authors focus only on one definition of antenna bandwidth: impedance match. It is widely used approach for small antennas. However it is used in pair with efficiency, but there is no plot of efficiency and gain. After reading the manuscript, the reviewer is not convinced to the compact adverb used, as antenna thickness is 1.5 mm. Such thick FR4 laminate is not in line with other components of modern electronic making use of FR4 laminate (e.g. main boards, memory cards, etc.). Mention the dimension in terms of lambda. The radiation patterns are missing, please discuss. The paper must be edited for English. References are not adequate, cite some recent references and compare with the work proposed. Below are some reference may be useful for your research: Iftikhar Ud Din, Sadiq Ullah, Syeda Iffat Naqvi, Raza Ullah, Shakir Ullah, Esraa Mousa Ali, Mohammad Alibakhshikenari, "Improvement in the Gain of UWB Antenna for GPR Applications by Using Frequency-Selective Surface", International Journal of Antennas and Propagation, vol. 2022, Article ID 2002552, 12 pages, 2022. https://doi.org/10.1155/2022/2002552 Nejdi IH, Bri S, Marzouk M, Ahmad S, Rhazi Y, Ait Lafkih M, Sheikh YA, Ghaffar A, Hussein M. UWB Circular Fractal Antenna with High Gain for Telecommunication Applications. Sensors. 2023; 23(8):4172. https://doi.org/10.3390/s23084172 May be accepted after incorporation of these major comments.</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	Revision required	
<p>Optional/General comments</p>		

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PART 2:

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

Reviewer Details:

Name:	Vijay Sharma
Department, University & Country	Govt Mahila ENGG College, India