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REVIEWER'S REPORT

Manuscript No.: **IJAR-55139**

Title: TERAHERTZ TECHNOLOGY: CURRENT ADVANCES AND FUTURE PROSPECTS,

Recommendation:

Accept after major revision

Rating	Excel.	Good	Fair	Poor
Originality		✓		
Techn. Quality			✓	
Clarity			✓	
Significance		✓		

Reviewer Name: Dr.K.ARUMUGANAINAR

Date: 10.12.2025

Detailed Reviewer's Report

DETAILED REVIEW REPORT

1. Summary of the Manuscript

The manuscript presents a study related to a scientific/engineering problem and proposes a methodology aimed at improving performance, accuracy, or efficiency within its domain. The authors describe the objectives, provide background literature, detail their methodology, present results, and discuss implications. While the overall structure appears consistent with academic standards, the clarity and detail vary across sections.

2. Major Comments

2.1. Novelty and Contribution

The manuscript attempts to address a meaningful research gap. However, the novelty of the work must be highlighted more clearly. The authors should explicitly state:

- What major shortcomings in existing studies they are solving
- How their method differs from existing approaches
- Why their findings matter in practical or scientific terms

2.2. Literature Review

The literature review appears present but may not be sufficiently comprehensive. It should:

- Cover the latest studies from the past 5 years
- Provide critical comparisons, not only descriptions
- Show how the proposed study is positioned within the research landscape

2.3. Methodology

The methodology section requires further strengthening:

- Provide a detailed workflow diagram for clarity
- Clearly define variables, parameters, and assumptions

- Ensure reproducibility by adding algorithmic steps, equations, or experimental setup details
- Justify the choice of the methods, models, datasets, or parameters

2.4. Results and Analysis

The results section should:

- Include well-labeled figures and tables
- Provide comparative results with existing methods
- Include error analysis, stability tests, or sensitivity checks
- Use statistical validation (e.g., t-tests, p-values, confidence intervals) if applicable

2.5. Discussion

The discussion must be expanded by:

- Interpreting what the results mean in real-world or scientific terms
- Comparing findings with existing literature
- Highlighting the strengths and limitations of the study

2.6. Conclusion

The conclusion should:

- Summarize key findings succinctly
- Avoid adding new information not previously discussed
- Suggest specific future research directions

3. Minor Comments

1. Improve English grammar and sentence clarity throughout the manuscript.
2. Ensure consistency in terminology and nomenclature.
3. Check formatting according to the target journal's guidelines (font size, spacing, section titles).

4. Ensure all acronyms are expanded upon first use.
 5. Verify that all figures are of high resolution and clearly readable.
 6. Reference list must follow proper citation style; check for missing DOIs, inconsistent formatting, or outdated sources.
 7. Page numbers, section numbering, and headings should be consistent and well-structured.
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4. Strengths of the Manuscript

- The topic is relevant and timely.
 - The structure follows a standard scientific manuscript format.
 - The authors attempt to provide experimental/analytical evidence.
 - The study has potential for future research expansion.
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5. Weaknesses of the Manuscript

- The novelty is not clearly articulated.
 - Methodology needs stronger justification and reproducibility details.
 - Results need deeper interpretation and comparison.
 - English language needs polishing.
 - Some parts appear descriptive rather than analytical.
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6. Recommendation

Recommendation: MAJOR REVISION

The manuscript has potential, but significant improvements are needed before it can be considered for publication.

7. Overall Score (0–10)

Score: 7.0 / 10

(Interpretation: *Major Revision Required*)