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| Journal Name: | [Asian Journal of Pure and Applied Mathematics](https://www.jofmath.com/index.php/AJPAM) |
| Manuscript Number: | **Ms\_AJPAM\_1977** |
| Title of the Manuscript: | **Advanced iterative methods for fixed point existence in Non-Standard Metric Spaces with stability and optimization applications** |
| Type of the Article |  |

PART 1: Comments

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|  | **Reviewer’s comment**  **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **Author’s Feedback** (It is mandatory that authors should write his/her feedback here) |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | **The manuscript addresses a critical and evolving area in mathematical analysis. By extending fixed point theory into non-standard metric spaces, it opens pathways for solving complex problems where traditional methods may fail. The proposed iterative techniques not only enhance theoretical understanding but also provide practical tools for stability analysis and optimization, making the work highly relevant to applied mathematics, engineering, and computational sciences.** | The manuscript addresses a significant and evolving area in mathematical analysis by exploring fixed point results in non-standard metric spaces such as rectangular, modular, and cyclic metric spaces. These generalizations extend classical fixed point theory and offer robust frameworks for analyzing problems where traditional metric assumptions are inadequate. The incorporation of Picard-type iterative sequences strengthens the theoretical foundation and facilitates practical applications in stability analysis, optimization, and computational mathematics. As such, the results presented hold substantial value for researchers in applied mathematics, engineering models, and  nonlinear system analysis. |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **yes** |  |
| **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.** | **yes** | Change |
| **Is the manuscript scientifically, correct? Please write here.** | ok |  |
| **Are the references sufficient and recent? If you have**  **suggestions of additional references, please mention them in the review form.** | No please add few latest references | Ok |
| **Is the language/English quality of the article suitable for scholarly communications?** | yes |  |
| **Optional/General** comments |  |  |

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| **PART 2:** | | |
|  | **Reviewer’s comment** | **Author’s Feedback** (It is mandatory that authors should write his/her feedback |

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|  |  | here) |
| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in details)* | No |