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| Journal Name: | [**Journal of Engineering Research and Reports**](https://journaljerr.com/index.php/JERR) |
| Manuscript Number: | **Ms\_JERR\_131191** |
| Title of the Manuscript: | **Thermodynamic Analysis of Hydromagnetic Micropolar Nanofluid Flow with Viscous Dissipation and Non-Uniform Heat Source in a Porous Channel** |

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| **PART 1: Comments** | | |
|  | **Reviewer’s comment**  **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **Author’s Feedback** *(Please correct the manuscript and highlight that part in the manuscript. 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 results are important for developing technical applications where accurate control of heat and mass transfer is necessary, like increased oil recovery, thermal management systems, and groundwater remediation. This work advances our knowledge of non-Newtonian nanofluid behaviour under intricate physical circumstances by utilizing the Buongiorno model and adding thermal radiation and temperature-dependent thermal conductivity. | Ok |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | Yes | Ok |
| **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.** | Indicate the Numerical Method: Although the abstract claims that the model is solved numerically, it makes no mention of the precise numerical method that was employed. Clarity would be improved by mentioning the precise approach (such as the shooting method, finite difference method, etc.). | Noted |
| **Is the manuscript scientifically, correct? Please write here.** | Yes | Ok |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention**  **them in the review form.** | Yes | Ok |
| **Is the language/English quality of the article suitable for scholarly communications?** | Readability and professionalism can be increased by making small grammatical corrections, improving wording, and making sure terminology is consistent. | Improved |
| **Optional/General** comments | To guarantee accuracy and completeness, every reference mentioned in the document must be listed in the reference list. Some Reference list missing in Citation. | Ok |

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| **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)* |
| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in details)* |  |