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| Journal Name: | [**Journal of Engineering Research and Reports**](https://journaljerr.com/index.php/JERR) |
| Manuscript Number: | **Ms\_JERR\_137709** |
| Title of the Manuscript: | **An Experimental Study on the Effect of Foamed Concrete Bulk Density on its Thermal and Mechanical Properties** |
| Type of the Article | **Original Research Article** |

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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** (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 explains how dry density (****d) of foamed concrete are related to the thermal conductivity, thermal resistance and compressive strength, the quantities which are very important in scientific community, especially in Physics. The properties of these quantities are further explained using mathematical relations. It also uses an analytical approach to further explain the relationship.** |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | **The title of the article is suitable.** |  |
| **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.** | **The abstract of the article is comprehensive; however, it can be on the same page rather than splitting it.** |  |
| **Is the manuscript scientifically, correct? Please write here.** | **The manuscript is scientifically correct because it employs mathematical relations, graphs and tables to analyse the relationship between the different parameters. Various tests were carried out to determine the****properties of the foamed concrete.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | **The references are sufficient; however, a few most recent references can still be added.** |  |
| **Is the language/English quality of the article suitable for scholarly communications?** | **Yes, the English quality of the article is suitable for scholarly communications.** |  |
| **Optional/General** comments | **Kindly include the meaning of ASTM.****Let the abstract be on the same page.****Let the Table 2 title be on the same page with the Table 2.** |  |

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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)* |  |

**Reviewer details:**

**Kehinde Marvellous Ajekiigbe, Federal University Oye-Ekiti, Nigeria**