|  |  |
| --- | --- |
| 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** |

|  |  |  |
| --- | --- | --- |
| **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.** | *We appreciate the reviewer’s positive assessment of our work* |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **The title of the article is suitable.** | *We appreciate it* |
| **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.** | We thank the reviewer for their positive feedback on the comprehensiveness of the abstract. Regarding the formatting issue, we have revised the manuscript to ensure the entire abstract appears on a single page (Page 1) for better readability. The updated version has been carefully checked to avoid any unnecessary page breaks in this section." |
| **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.** | *We appreciate the reviewer’s positive assessment of our work* |
| **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.** | We sincerely appreciate the reviewer's positive assessment of the scientific rigor of our manuscript, we have carefully incorporated the two recommended into the revised manuscript. |
| **Is the language/English quality of the article suitable for scholarly communications?** | **Yes, the English quality of the article is suitable for scholarly communications.** | *We appreciate it* |
| **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.** | We sincerely appreciate the reviewer's valuable comments to enhance the clarity and presentation of our manuscript. We have carefully addressed all points as follows:   1. Regarding the ASTM clarification: We have *added the full meaning of ASTM (American Society for Testing and Materials) upon its first mention.* 2. *Concerning the abstract formatting: We have adjusted the document layout to ensure the entire abstract now appears on a single page* 3. *For Table 2 presentation: We have reformatted the document to keep the table title and Table 2 content together on the same page, as suggested.*   *These modifications have been implemented in the revised manuscript while maintaining all journal formatting guidelines.* |

|  |  |  |
| --- | --- | --- |
| **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)* |  |