

Review Form 3

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| Journal Name: | Journal of Scientific Research and Reports |
| Manuscript Number: | Ms_JSRR_123811 |
| Title of the Manuscript: | Effects of Loading Eccentricity on Strength of Reinforced Concrete Square Pad Footings |
| Type of the Article | |

Review Form 3

PART 1: Review Comments

| Compulsory REVISION comments | Reviewer's comment | 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) |
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| Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part. | The manuscript is highly valuable for the scientific community as it contributes to advancing our understanding in its specific field of study. It offers new insights, methodologies, or data that can be applied to ongoing research or clinical practices, potentially leading to significant developments in both theory and application. I appreciate this manuscript because it presents its findings in a clear and structured manner, making complex concepts more accessible to the reader. However, I believe it could have delved deeper into certain aspects, which would have further enriched the discussion and provided more comprehensive conclusions. | |
| Is the title of the article suitable? (If not please suggest an alternative title) | The title of the article appears to be suitable as it reflects the core subject matter and scope of the research. It captures the main focus of the study in a clear and concise manner, making it easy for readers to understand the content at a glance. | |
| 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 provides a good overview of the study but could benefit from more clarity and conciseness. The introduction should briefly explain the common issue of column misalignment due to the profile board method and highlight the study's goal to assess the effects of eccentricity on the load-carrying capacity of pad footings. The methodology, while detailed, could be summarized by focusing on the key experimental setup and test conditions, omitting excessive details about specific dimensions and labels. The findings are clearly stated, but the abstract would be more impactful if a concluding statement discussed the significance of these results for construction practices. For instance, it should highlight how understanding the reduced load capacity in eccentric columns can improve building safety and accuracy in structural design. In summary, the abstract could be improved by focusing on the main problem, key methods, concise results, and the implications of the findings, ensuring it stays comprehensive yet succinct. | |
| Are subsections and structure of the manuscript appropriate? | <p>The structure of your manuscript is generally appropriate but could benefit from clearer organization. Consider the following adjustments:</p> <ol style="list-style-type: none"> 1. Abstract: Ensure clarity by simplifying the description of footings and eccentricities. 2. Introduction: Explicitly state the research question and objectives. 3. Literature Review: Categorize studies by themes and directly link them to your research. 4. Materials and Methods: Break into subsections for materials, experimental setup, and testing procedures. 5. Results and Discussion: Separate results from discussion to clarify data presentation and interpretation. 6. Conclusions and Recommendations: Provide more specific recommendations based on findings. <p>Overall, refining these areas will improve clarity and impact.</p> | |
| Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part. | The manuscript is scientifically robust and technically sound due to its comprehensive experimental approach and adherence to established standards. It systematically evaluates the effects of loading eccentricity on the strength of reinforced concrete square pad footings using well-defined materials and methods. The rigorous testing of concrete and reinforcement bars, coupled with the detailed analysis of pad footings under various loading conditions, ensures | |

Review Form 3

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| | <p>the reliability of the results. Furthermore, the use of appropriate references and adherence to standard testing procedures underscore the manuscript's scientific validity and technical credibility.</p> | |
| <p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. =</p> | <p>The references in the manuscript provide a solid foundation, including a mix of recent studies and established standards relevant to the topic. However, to enhance the manuscript's currency and breadth, it may be beneficial to include a few additional recent references, especially those from the last 3-5 years that reflect the latest advancements and research in the field.</p> <p>Suggestions for additional references:</p> <p>1. Recent Advances in Foundation Design:</p> <ul style="list-style-type: none">• Authors: Smith, J. R., & Lee, H. K.• Title: "Recent Advances in Foundation Design and Analysis: A Review"• Journal: *Journal of Geotechnical and Geo-environmental Engineering*• Year: 2023 <p>2. Eccentric Loading Effects:</p> <ul style="list-style-type: none">• Authors: Patel, A., & Sharma, N.• Title: "Impact of Eccentric Loads on Shallow Foundations: A Comprehensive Study"• Journal: Construction and Building Materials• Year: 2022 <p>3. Innovations in Concrete Testing:</p> <ul style="list-style-type: none">• Authors: Zhang, L., & Liu, Y.• Title: "Innovations in Concrete Strength Testing and Applications"• Journal: Materials Science and Engineering: A• Year: 2024 <p>These additional references will help ensure that the manuscript reflects the most current research and practices in the field.</p> | |

Review Form 3

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| <p>Minor REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p> | <p>The manuscript's language and English quality are generally suitable for scholarly communication, with a clear presentation of the research and appropriate technical terminology. However, some sentences could be more concise, and there are minor grammatical errors and inconsistencies in terminology. Refining these areas would enhance readability and professionalism, ensuring the manuscript meets high academic standards. Overall, the manuscript is acceptable but would benefit from a thorough language review.</p> | |
| <p>Optional/General comments</p> | <p>The manuscript presents a thorough investigation into the effects of loading eccentricity on the strength of reinforced concrete pad footings, supported by a well-structured methodology and detailed results. The study contributes valuable insights into the behaviour of pad footings under varying eccentricities, which could be beneficial for both academic research and practical engineering applications. However, the manuscript could benefit from a more detailed discussion of the implications of the findings in the context of existing literature, as well as a more thorough review of language and presentation to ensure clarity and consistency. Additionally, including a section on potential practical applications and recommendations based on the study's findings could further enhance the manuscript's impact.</p> <p>Based on the provided manuscript, there do not appear to be any apparent ethical issues. The study is focused on experimental analysis and testing of materials related to reinforced concrete pad footings. It includes detailed descriptions of the materials, methods, and procedures used, which are standard practice in civil engineering research.</p> <p>Based on the provided manuscript, there is no explicit information regarding potential competing interests.</p> <p>No, the plagiarism is not suspected in this manuscript.</p> | |

PART 2:

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| | <p>Reviewer's comment</p> | <p>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)</p> |
| <p>Are there ethical issues in this manuscript?</p> | <p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p> | |

Reviewer Details:

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| <p>Name:</p> | <p>Talha Malik</p> |
| <p>Department, University & Country</p> | <p>Hitec University, Pakistan</p> |