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| Journal Name: | [**Asian Journal of Advanced Research and Reports**](https://journalajarr.com/index.php/AJARR) |
| Manuscript Number: | **Ms\_AJARR\_133305** |
| Title of the Manuscript: | **Investigation on the Shear Performance of Concrete Beams Reinforced with Glass Fiber Reinforced Polymer (GFRP) Bars** |
| 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** *(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.** | **This research is important in that it reveals the positive effect of using GFRP bars as a longitudinal and shear reinforcement in improving the shear strength of concrete beams reinforced with these bars compared to concrete beams reinforced with steel bars.** |  |
| **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.** | **The abstract is comprehensive but lengthy. I suggest shortening the following paragraphs:**1. **“The research examined how these test variables affect failure modes, mid-span deflection, shear crack propagation, shear capacity, and strain energy dissipation in stirrups and longitudinal reinforcement of the RC beams subjected to a four-point monotonic loading test”**
2. **The estimated average experimental-to-predicted shear capacity ratio (VExp/VPred) was 1.44, with a standard deviation (SD) of 0.17 and a coefficient of variation (COV) of 11.79%, indi-cating that ACI 440 provided conservative shear predictions with reasonable consistency.**

**Avoid repeating the description of the samples at length.** |  |
| **Is the manuscript scientifically, correct? Please write here.** | **Yes, the manuscript is scientifically correct.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention****them in the review form.** | **Yes, the references are sufficient and recent.** |  |
| **Is the language/English quality of the article suitable for scholarly communications?** | **Yes, the language/English quality of the article is suitable for scholarly communications.** |  |
| **Optional/General** comments | 1. **The abstract needs to be brief and concise, yet comprehensive in its description of the manuscript and its results.**
2. **It is not mentioned why three identical models were used in their specifications: (BGF3, BGF4 and BGF5) as shown in Table 1.**
3. **The number of samples studied is small in order to obtain comprehensive results for the behavior of beams in general.**
4. **It would have been better to expand the study by studying different reinforcement ratios as well as different concrete resistance values instead of limiting it to only two values.**
5. **The researcher did not mention why the effect of changing the longitudinal reinforcement only was studied and the effect of changing the shear reinforcement was not studied.**
6. **It is preferable to create a steel rebar sample with a longitudinal reinforcement ratio of 1.13 to compare it with GFRP reinforced samples with the same longitudinal reinforcement ratio.**
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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:**

**Murtada Ameer Ismael, University of Diyala, Iraq**