

Review Form 1.7

Journal Name:	Journal of Engineering Research and Reports
Manuscript Number:	Ms_JERR_110869
Title of the Manuscript:	Numerical analysis study on seismic performance of semi-rigid steel frame infilled with prefabricated composite wall panels
Type of the Article	Study Protocol

Review Form 1.7

PART 1: Review Comments

	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)
<p>Compulsory REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>The article discuss the Numerical analysis study on seismic performance of semi-rigid steel frame infilled with prefabricated composite wall panels which is an interesting topic of research. In this paper semi-rigid steel frame, the composite wall panel is separated by foam concrete mortar and the frame, and the effective connection between the composite wall panel and the frame is realized by tension-reinforced steel. ABAQUS finite element analysis software is used to conduct separate numerical modeling of semi-rigid connected steel frame and composite wall panel.</p> <p>Some concerns regarding the introduction, numerical analysis, descriptions of numerical model, conclusions and references.</p> <ul style="list-style-type: none">• Please check the linguistic correctness with the help of a Native Speaker.• Scope of the work is very limited and experimentation should have done with some more improvisation.• The composite wall panel and the semi-rigid connected steel frame are effectively connected through the tensioned steel reinforcement to jointly resist the earthquake action Literature review part could have reduced as more concentration was needed for the current experimentation elaborate• The foamed concrete composite wall panels move each other in the process of lateral force, resulting in discontinuity of stress between the wall panels, so the composite wall panels are less damaged by compression. Any serious action on dislocation of walls?• The whole loading process of the semi-rigid steel frame infilled with prefabricated composite wall panels is simulated by the distributed modeling, and the reliability of the model is verified. Bending moment-rotation curves with different loading schemas shows same representation any specific reason?? <ul style="list-style-type: none">• In opinion of Reviewer this paper is a good work of research.• Overall, this is a clear, concise, and well-written manuscript.• It is limited work literature part should be minimized and experimental part should be elaborated insufficient information about the study is presented for readers.• The paper can be accepted.	<p>Thank for your feedback and review of this article. In response to these problems, I have made the following modifications:</p> <ul style="list-style-type: none">● I went over the manuscript again and corrected some grammatical errors and inappropriate expressions.● I reduced the literature review and increased the content of the test, including the structure and detailed size of the semi-rigid frame, the test loading system and so on.● Through the addition of the detailed structure of the wall panels, the wall panels are connected by groove and groove to prevent the wall panels from moving outside the plane during the loading process.● It may be my level. I don't quite understand the meaning of the last point, and I didn't find the bending moment-rotation curve in the article. If it is the stiffness degradation curve, in the early loading stage, the wallboard structure is a whole, so the initial stiffness is relatively close. After the integral wallboard is separated, the stiffness declines at different rates, but the final stiffness is similar.

Review Form 1.7

Minor REVISION comments		
1. Is language/English quality of the article suitable for scholarly communications?		
Optional/General comments		

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)	