



SDI Review Form 1.6

Journal Name:	British Journal of Mathematics & Computer Science
Manuscript Number:	2014_BJMCS_11299
Title of the Manuscript:	Evaluating numerical- mathematical model of base-isolated rectangular liquid tanks under Bi-directional seismic excitation
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



SDI Review Form 1.6

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)
Compulsory REVISION comments	The main deficiency of the manuscript is that it is not clear the sufficient novelty which give reason to rate it as an original research paper. Additional shortcomings are listed below: - Explain why analysis with four seismic excitations is sufficient for a reliable statistical analysis (p-value). Otherwise, increase the number of considered seismic records. - Details about the used finite element program are not presented. - Details about the used seismic records should be given (e.g. station, component). - Details about the used seismic isolation device and its positions should be provided. - If the seismic excitation is bi-directional, what is the meaning of (X) and (Y) directions in Figures 7 and 8? - The English language must be improved. - Check the spelling, e.g.: - The word "Tank" in the abstract must be written as "tank". - After semicolon follows a low character. - Write, "P-value" instead of "P_value" in page 4.	-The statistical analysis was applied just for evaluating comparison between experimental and numerical results in verification process. -Modified according to referee comment. -Modified according to referee comment. -Modified according to referee comment. And the position of seismic isolation was inserted around of outside tank. -the seismic isolation subsystem is simulated by two lead rubber bearings that are modeled in two horizontal directions, The base shear values for both of isolators in x and y directions and the sloshing height for two nodes of fluid element In the vicinity of Longitudinal and transversal walls of liquid tank, point A and point B, are calculated. -Modified according to referee comment. -Modified according to referee comment. -Modified according to referee comment. -Modified according to referee comment.



SDI Review Form 1.6

	- All Figures should be referred in the text as "Figure" and not as "figure". - Write, "Kobe" instead of "kobe". - Write, "Properties" instead of "properties" in the titles of Tables 4 and 5. - Check the punctuation, e.g.: - Let a blank space only after a punctuation mark. - Delete the ":" after "Introduction". - The correct SI-metric symbol for second is "s", not "S" and not "sec". - Let a blank space between the numerical value and the unit of a quantity. - Table 2 is incomplete. I suppose that the first line (header of each column) of Table 2 is missing. In addition, Table 2 has several undefined lines and signs. - Part of Figure 5 has too small font size and in unreadable. - The reference data should be complete and uniform in accordance to the Journal's guide for authors. - Reference [16] is missing in the manuscript.	-Modified according to referee comment. -Modified according to referee comment. -Modified according to referee comment. -Modified according to referee comment. -Modified according to referee comment.
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments		