

## Review Form 1.7

Journal Name:	Asian Research Journal of Mathematics
Manuscript Number:	Ms_ARJOM_110441
Title of the Manuscript:	Estimation of Probability of Earthquakes in Zimbabwe Using Gumbel's Extreme Value Theory Method
Type of the Article	Original Research Article

### 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)
<b>Compulsory</b> REVISION comments  1. <b>Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)  2. <b>Is the title of the article suitable?</b> (If not please suggest an alternative title)  3. <b>Is the abstract of the article comprehensive?</b>  4. <b>Are subsections and structure of the manuscript appropriate?</b>  5. <b>Do you think the manuscript is scientifically correct?</b>  6. <b>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b>  <b>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</b>	<p>The paper is logically written and it is scientifically straightforward. Results may be used for future city planning for urban areas and structural mapping.</p> <p>I would suggest "Estimation of the probability of earthquakes return period in Zimbabwe Using Gumbel's Extreme Value Theory Method"</p> <p><b>yes</b></p> <p><b>yes</b></p> <p><b>yes</b></p> <p><b>yes</b></p> <p><b>I would suggest read this</b> (1) Probabilities for the occurrences of medium to large earthquakes in northeast India and adjoining region authors: RBS Yadav, JN Tripathi, D Shanker, BK Rastogi, MC Das, Vikas Kumar, Natural Hazards 2011/11 Vol 56 page 156-167</p> <p>Suggestions and comments are added in the manuscript</p>	
<b>Minor</b> REVISION comments  1. <b>Is language/English quality of the article suitable for scholarly communications?</b>	<p>Few sentences need to be improved please see in the manuscript.</p>	
<b>Optional/General</b> comments	<p>In this study, authors estimated return period 14 years with 100% probability of occurrence of earthquakes magnitude range 4-4.5. Also estimated 9.5% probability of earthquake magnitude <math>\geq 6.0</math> with return period about 51 years using Gumbel's Extreme Value Theory Method in the Zimbabwe. I would suggest compare the results with the previous published papers in the study area. Manuscript is logically written and can be accepted after including the suggestions/comments.</p>	

### 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)
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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