

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)
Compulsory REVISION comments 1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript) 2. Is the title of the article suitable? (If not please suggest an alternative title) 3. Is the abstract of the article comprehensive? 4. Are subsections and structure of the manuscript appropriate? 5. Do you think the manuscript is scientifically correct? 6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u>	<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>yes</p> <p>yes</p> <p>yes</p> <p>yes</p> <p>I would suggest read this (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>	<p>Suggestion accepted and corrected as such in revised article 1</p>
Minor REVISION comments 1. Is language/English quality of the article suitable for scholarly communications?	<p>Few sentences need to be improved please see in the manuscript.</p>	<p>Corrected effected as suggested in revised article 1</p>
Optional/General 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 ≥ 6.0 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>	<p>The results have been compared with related studies shown in revised article 1</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)
Are there ethical issues in this manuscript?	<u>(If yes, Kindly please write down the ethical issues here in details)</u>	