

Interactive comment on “Seismic vulnerability and risk assessment of Kolkata City, India” by S. K. Nath et al.

Anonymous Referee #3

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The authors are trying to bring out the Seismic Risk of Kolkata City based on Geological, Geotechnical and Structural analysis. The overall approach of the manuscript is good. However it needs some minor revisions.

General Comments : All figures since bar scale used the text scale 1:25,000 can be removed.

Page No.2 Introduction - English correction needed. Page No. 3 Since it's an international journal, it's better to have a location of study area in the India map so that the readers can understand the seismic hazard of the study area.

Page no. 3. Line 18. The population details given as 11 and 14 million do not match with the data given in 3.1 Demography please check which is correct?

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Page No.3. Line 8. The Kolkata city is among the or One among the ? Check Page No.3. Line 22 and 23. 80% of the city has buildings are high rise buildings? Is there any proof or literature in this regard? It has mentioned that congested business districts ? how districts will form in cities?

It would be better to give area of the city so that it's easy to calculate back the density of population.

Page No.6 Line 11/ It has mentioned Congalton et.al in the text however in the reference only one author name is given which is correct?

Page No.8. Line 9. It has given ten major LULC units in the text however in the figure 5, in the legend there were only 9 classes. Please check? Also match the legend and text.

Page no.10. Line 25-28 on what basis the building categories are classified, Is there any reference on no of storey and building category?

Page 19. Conclusion . The objective of the manuscript is not rightly justified in the conclusion part. The authors are advised to rewrite the conclusion part correlating with the objective part.

Page 19. Line 8. It has mentioned artificial non engineered filled up regions. Where is the evidence of lakefill/marshy land filled up area ? match with the land use land cover area.

Page 23. Table 1. 2011 population is 14.11 million but in the figure 4. it has mentioned in the legend >150000. how?

Page 41. Figure 8. In legend the building year range can be added.

Page . 48. Figure 15. The Risk interval calculation what is the engineering base behind the interval. Explain?

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