

Review Form 1.7

Journal Name:	Journal of Geography, Environment and Earth Science International
Manuscript Number:	Ms_JGEESI_114176
Title of the Manuscript:	An Overview of Geomorphological Mapping: A Case Study of Rimbi Chhu River Basin, Sikkim
Type of the Article	Research paper

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PART 1: Review Comments

	Reviewer's comment	Author's comment <i>(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)</i>
<p><u>Compulsory</u> 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>	<ol style="list-style-type: none"> 1. I find the manuscript to be important for the scientific community. The study addresses a significant gap in the existing literature by providing a detailed analysis of the topographic characteristics of the Ramganga River Basin using digital elevation models (DEMs) and GIS techniques. 2. "Exploring the Geomorphology of the Ramganga River Basin: A Digital Elevation Model and GIS Approach." 3. I find the abstract of the article "Topographic Characteristics of Ramganga River Basin: Digital Elevation Model and GIS Based Study" to be comprehensive. It provides a clear overview of the study's purpose, methods, results, and conclusions. The abstract effectively summarizes the use of digital elevation models (DEMs) and GIS in analyzing the topographic characteristics of the Ramganga River Basin. It also highlights the significance of the study for understanding the basin's geomorphology and hydrology. Overall, the abstract is well-structured and informative. 4. I recommend restructuring the manuscript for better clarity and coherence. The introduction should offer a concise summary of the study's aims and importance, with clearly defined research goals. A more thorough literature review is needed, covering prior research on river basin geomorphology and the use of DEM/GIS techniques, while identifying any gaps in the current understanding. The methodology section requires more detailed explanations of data sources, processing methods, and analysis procedures. Overall, these changes will enhance the readability and impact of the manuscript. 5. Yes, it appears to be scientifically correct. The use of a digital elevation model (DEM) and GIS technology to study the topographic characteristics of the Ramganga River Basin is a valid approach in geomorphological research. 6. The references provided in the manuscript seem to cover a wide range of relevant sources, including recent publications. However, it may be beneficial to ensure that the references are the most up-to-date and include any significant studies or developments in the field of geomorphology related to digital elevation models (DEMs) and GIS technology. <p>The manuscript presents a comprehensive analysis of the topographic characteristics of the Ramganga River Basin using digital elevation models (DEMs) and GIS techniques, which is a significant strength. The study's methodology is robust and well-documented, enhancing its credibility. The research findings are detailed and provide valuable insights</p>	

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	<p>into the geomorphology of the basin, which could be beneficial for land use planning and environmental management.</p> <p>However, there are some areas that could be improved. The manuscript lacks clarity in certain sections, making it challenging for readers unfamiliar with the topic to understand the key points. Additionally, while the study's findings are interesting, the implications for practical applications and future research could be more explicitly stated. Providing more context on why the study is important and how the findings contribute to existing knowledge would strengthen the manuscript's impact.</p> <p>The manuscript offers valuable contributions to the scientific community through its detailed analysis of the Ramganga River Basin's topographic characteristics. With some revisions to improve clarity and emphasis on the study's significance, this research could have a broader impact on the field of geomorphology.</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>The language quality is acceptable, some improvements could enhance the clarity and impact of the article.</p>	
<p>Optional/General 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)
<p>Are there ethical issues in this manuscript?</p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

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