

BPI Review Form 070520

Book Name:	<u>Emerging Issues in Environment, Geography and Earth Science</u>
Manuscript Number:	Ms_BP_2796G
Title of the Manuscript:	Assessment of Groundwater Potential Zones using GIS Technique
Type of the Article	Book Chapter

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PART 1: Review Comments

	Reviewer's comment	Author's comment <i>(If agreed with the reviewer, correct the manuscript and highlight that part in the manuscript. Authors must write his/her feedback here)</i>
Is the manuscript important for the scientific community? Please write a few sentences explaining your answer	Yes. The provided search result is a manuscript titled "Assessment of Groundwater Potential Zones using GIS Technique". The manuscript describes a case study conducted to find out the groundwater potential zones in Kattakulathur block, Tamil Nadu, India with an aerial extent of 360.60 km ² . The study used remote sensing and GIS tools to generate information in spatial and temporal domains, which is crucial for successful analysis, prediction, and validation. The study concludes that the groundwater potential zones have been derived for the entire Kattankulathur block and it has been divided into three categories as good, moderate, and poor zones.	
Is the title of the article suitable? Do you have any alternative Title in your mind?	The title effectively communicates the main objective of the research, which is to apply GIS techniques to assess groundwater potential zones.	
Is the abstract of the article comprehensive? If your answer is No, please provide suggestions	<p>The abstract is relatively strong, but minor improvements could enhance its clarity and readability further.</p> <p>The abstract begins with a general statement about groundwater, which is relevant but does not directly relate to the specific aims of the study. To improve readability, it might be beneficial to introduce the problem statement immediately after the introduction of groundwater, focusing specifically on the challenges faced in managing groundwater in hard rock terrains.</p> <p>Next, the abstract presents the study area and its spatial extent, which is necessary but can be improved by including the names of nearby towns or districts to help nonlocal readers better understand the context.</p> <p>The description of materials and methods is detailed and informative, mentioning the sources of data, software used, and the process of generating thematic maps and performing weighted overlay analysis. However, it might benefit from a brief summary of the overall analytical framework, allowing readers to grasp the study design quickly.</p> <p>The presentation of results focuses primarily on the classification of groundwater potential zones and their distribution across the study area. While this is valuable, it would also be helpful to include a sentence indicating the number of villages included in the study and their relative distribution among the various groundwater potential classes.</p> <p>Finally, the conclusion states that groundwater potential zones have been derived for the entire Kattakulathur block and divided into three categories. Although this is true, it would be useful to add a sentence summarizing the practical implications of the study, such as the benefits of identifying groundwater potential zones for local communities and policymakers.</p>	
Do you think the English quality of the article is suitable for scholarly communications? If your answer is No, please provide suggestions	The English quality appears to be suitable for scholarly communications.	
Please provide your comments regarding the appropriateness of different sections of the manuscript.	The manuscript is well-organized and contains sufficient information to evaluate the proposed methodology and its outcomes. If accepted for publication, the manuscript should make a significant contribution to the body of knowledge related to groundwater assessment in hard rock environments.	

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<p>Do you think that the references in the manuscript are proper, recent and sufficient? If you have any suggestions, please write here.</p>	<p>The references in the manuscript appear to be appropriate, relevant, and from reputable sources. These sources cover topics related to geographical information systems, GIS-based decision support systems for groundwater assessment, demarcation of groundwater potential zones using remote sensing and GIS, and integrated remote sensing and GIS for groundwater exploration.</p>	
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PART 2:

	<p>Reviewer's comment</p>	<p>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>
<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>	

Reviewer Details:

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