

Review Form 3

Journal Name:	Advances in Research
Manuscript Number:	Ms_AIR_122582
Title of the Manuscript:	Geo-sustainability Issues and Remediation: Sripur Coalmine Areas West Bengal, India
Type of the Article	

General guidelines for the Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guidelines for the Peer Review process, reviewers are requested to visit this link:

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PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<p>Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.</p>	<p>This manuscript is important for the scientific community as it addresses critical geo-sustainability challenges in coal mining areas, a topic with significant environmental, social, and economic implications. By using GIS-based assessment, the study provides valuable insights into the environmental impact of mining activities and offers practical remediation strategies that can be applied not only in West Bengal but also in similar regions globally. I appreciate the manuscript's comprehensive approach, combining field surveys with advanced GIS techniques, which enhances the robustness of the findings.</p>	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>The current title of the article, "Geo-sustainability Issues and Remediation: Sripur Coalmine Areas West Bengal, India," is generally suitable as it captures the key focus of the study. However, the title could be made more specific and engaging to better reflect the scope and methods of the research.</p> <p>Suggested Alternative Title: "Geo-sustainability Challenges and Remediation Strategies: A GIS-based Assessment of Sripur Coalmine Areas, West Bengal, India"</p>	
<p>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</p>	<p>The abstract should briefly mention the key findings of the study. For instance, it could include specific results related to subsidence areas, water contamination levels, or health impacts observed in the miners and local population. While the abstract mentions the use of GIS and remote sensing, it would benefit from a more detailed description of the methodologies employed, such as the types of data collected (e.g., satellite imagery, field surveys) and the specific GIS analyses performed. The abstract should briefly discuss the implications of the findings for policy, environmental management, or public health. It could also highlight any recommendations made in the study, such as the need for stricter environmental regulations or improved safety measures in mining operations.</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>The subsections and structure of the manuscript are generally appropriate and well-organized.</p>	
<p>Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.</p>	<p>The manuscript is scientifically robust and technically sound due to its comprehensive approach to investigating the geo-sustainability issues in the Sripur coal mining area. The use of GIS and remote sensing technologies to generate detailed maps, such as aspect, hillshade, and land use/land cover maps, demonstrates a methodologically rigorous approach to analyzing environmental impact. The study's incorporation of field surveys, satellite imagery, and environmental data ensures that the findings are based on a well-rounded and multi-faceted dataset.</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p> <p>-</p>	<p>The references in the manuscript are generally sufficient, covering a broad range of studies relevant to the topic</p>	

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<p>Minor REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>The manuscript contains several language issues that need to be addressed for clarity and conciseness.</p> <p>First, the text suffers from redundancy and wordiness, as seen in the original sentence, "The present study envisages the health, risk and safety aspects of coal mining in the Sripur area, especially in the Bhanora west block patch, one among the 14 operational coal extraction mines of Eastern Coalfields Limited areas in Asansol, with increasing risks of accidents, fires, subsidence, in the coal mines, and storage yards in active, geriatrics and closed mines." This can be more succinctly rewritten as, "This study examines the health, risk, and safety aspects of coal mining in the Sripur area, focusing on the Bhanora West Block, one of the 14 operational mines of Eastern Coalfields Limited in Asansol. The study addresses the increasing risks of accidents, fires, and subsidence in active, aging, and closed mines and storage yards."</p> <p>The manuscript also contains complex and ambiguous sentences. For example, the original sentence, "The extraction and storage of coal are always risky. However, there is always a gap between the demand and supply of coal Never the Coal (the black diamond) production growth is economical and also availability is assured," can be clarified as, "Coal extraction and storage are inherently risky. Despite these risks, coal production has continued to grow to meet the demand, ensuring its availability remains economical." Similarly, in the statement, "The present study is conducted to: a. Reporting geology, petrology, and stratigraphy of the area," the language can be improved to, "This study aims to report on the geology, petrology, and stratigraphy of the area."</p> <p>Grammar and punctuation errors are also present. For instance, "It is observed that a vast area is under subsidence in Sripur areas, with cracks even near residential areas," can be corrected to, "A vast area in Sripur is observed to be under subsidence, with cracks appearing even near residential areas."</p> <p>Issues with clarity are evident in statements like, "The flow of the Nunia nallah is nearby, and old closed mines are not adequately backfilled, so the chance of seepage cannot be neglected," which can be more clearly expressed as, "The Nunia Nallah flows nearby, and the old closed mines are not adequately backfilled, increasing the risk of seepage."</p> <p>The formal tone of the manuscript can be improved by refining sentences.</p> <p>Transitions between sections can be inadequate, as seen in, "Present study: The present study is conducted to: a. Reporting geology, petrology, and stratigraphy of the area," which could be improved to, "This study aims to: a) Report on the geology, petrology, and stratigraphy of the area."</p> <p>Lastly, miscellaneous language improvements are necessary, such as changing, "Quality of life (QoL) and the ecosystem due to rehabilitation and ousters of the Project affected people (PAPs) of the coal mining area, if not adequately cared for during the project in the production stage, may make their lives worse," to, "The quality of life (QoL) and ecosystem for project-affected people (PAPs) in coal mining areas may deteriorate if their needs are not adequately addressed during the production stage."</p>	
<p>Optional/General comments</p>	<p>The introduction could benefit from a brief mention of the methodologies used in the study, such as GIS and remote sensing, and how these methods are particularly suited to addressing the research questions. This would provide a clearer transition to the subsequent sections of the manuscript. While the introduction touches on various issues related to coal mining, it does not clearly articulate the research gap or the specific objectives of the study early on. Explicitly stating the gap in knowledge that this study addresses and clearly outlining the research objectives would strengthen the introduction.</p> <p>The conclusion would be stronger if it briefly summarized the key findings of the study. While the conclusion offers several recommendations, it could be enhanced by making these suggestions more actionable. For example, instead of just stating the need for legislation, specify what kind of legislation is needed and who should be responsible for implementing it. Discuss the limitations of the study and future research prospects in the Conclusion section.</p> <p>There are several issues with the in-text citations in the manuscript. Standardize the citation style, choosing either parentheses or square brackets, and apply it consistently throughout the manuscript.</p>	

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PART 2:

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

Reviewer Details:

Name:	Asif All Azad
Department, University & Country	Bangladesh