Review Form 3

Journal Name:	**South Asian Journal of Social Studies and Economics**
Manuscript Number:	**Ms_SAJSSE_130633**
Title of the Manuscript:	**The Impact of the Karo-Langkat Bypass Road Development on Land Cover Dynamics and Suitability Evaluation**
Type of the Article	**Research Article**

<mark>PART 1:</mark> Comments

	Reviewer's comment	Author's Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)*
Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.	The manuscript is important for the scientific community as it provides valuable insights into the environmental impacts of road infrastructure development on land cover dynamics. By integrating remote sensing, GIS, and predictive modeling, the study offers a data-driven approach to understanding deforestation trends and their alignment with spatial planning policies. The findings contribute to sustainable land management strategies and inform policymakers on mitigating adverse environmental effects. This research is particularly relevant for regions facing similar challenges of balancing infrastructure expansion with conservation efforts.	
Is the title of the article suitable? **(If not please suggest an alternative title)**	Yes, the current title, "The Impact of the Karo-Langkat Bypass Road Development on Land Cover Dynamics and Suitability Evaluation," is suitable as it accurately reflects the study's focus on land cover changes and spatial planning compliance. No changes are necessary.	
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.	The abstract is well-structured and provides a clear overview of the study's objectives, methodology, key findings, and conclusions. However, it could be improved by explicitly mentioning the policy implications and potential mitigation strategies for land cover changes. Additionally, including a brief statement on the significance of the Markov Chain modeling approach in predicting future land cover conditions would enhance clarity.	
Is the manuscript scientifically, correct? Please write here.	Yes, the manuscript is scientifically sound, employing appropriate methodologies such as remote sensing, GIS analysis, and Markov Chain modeling for land cover change assessment. The study follows a systematic approach in data collection, classification, and validation. However, additional validation of the Markov Chain predictions and accuracy assessment (e.g., confusion matrices or Kappa statistics) would further strengthen the scientific rigor. Clarifying the selection criteria for ground truth points and discussing potential uncertainties in land cover classification would also enhance the study's credibility.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	The references are generally sufficient and relevant, covering key studies on land cover change, GIS applications, and spatial planning. However, incorporating more recent studies (from the last five years) on land change modeling, road development impacts on conservation areas, and policy-driven land use planning would improve the literature review. Additionally, including global case studies on similar bypass road developments and their environmental effects would provide a broader context.	

Is the language/English quality of the article suitable for scholarly communications?	The English quality of the article is generally suitable for scholarly communication, but minor refinements are needed for clarity and readability. Some sentences are overly complex and could be simplified for better comprehension. The abstract would benefit from clearer articulation of policy implications and methodological significance. Additionally, improving sentence structure and ensuring consistency in terminology would enhance the overall academic rigor. While the manuscript maintains a formal tone and appropriate technical language, minor revisions would further improve its readability and precision.	
Optional/General comments	The manuscript is well-structured and scientifically sound, offering valuable insights into land cover dynamics and spatial planning. However, minor refinements in language clarity, sentence structure, and terminology consistency would enhance readability. Strengthening the discussion on policy implications and ensuring methodological transparency, particularly in the validation of predictions, would further improve the manuscript's impact. Additionally, incorporating recent studies and global case comparisons could provide a broader perspective. Overall, the study is a significant contribution to sustainable land management research, with minor revisions recommended for improved scholarly communication. Based on the manuscript's clarity, structure, methodology, and relevance to the research field, I would assign an overall score of 8.5 (Minor Revision).	

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?	*(If yes, Kindly please write down the ethical issues here in details)*	

Reviewer Details:

Name:	**S. M. Tahmidur Rahman**
Department, University & Country	**Bangladesh**