

Review Form 3

Journal Name:	Journal of Scientific Research and Reports
Manuscript Number:	Ms_JSRR_127707
Title of the Manuscript:	Decadal Change in Land Use and Land Cover Dynamics: A Comprehensive Assessment of the Kharun Catchment
Type of the Article	Research Article

PART 1: 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>
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.	This manuscript makes a significant contribution to the understanding LULC dynamics in a rapidly changing region of India. By utilizing remote sensing and GIS techniques to analyze LULC changes over a 30-year period, the study provides valuable insights into the impacts of urbanization and agricultural expansion on the landscape. The findings have implications for land-use planning, environmental management, and sustainable development, especially in the context of growing urbanization and deforestation in the region. The study's approach can serve as a model for similar research in other parts of India and in developing countries facing similar environmental challenges.	
Is the title of the article suitable? (If not please suggest an alternative title)	Yes, the title is appropriate as it clearly conveys the main theme of the study, which is the decadal change in land use and land cover dynamics in the Kharun catchment. However, a slightly more concise and focused title may be written.	
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.	Yes, the abstract provides a concise summary of the study, including the research focus, methodology, and key findings. However, it could be slightly expanded to include a brief mention of the implications of the findings for policy or land-use planning, which would provide additional context to the reader. Suggestions: <ul style="list-style-type: none"> • Include a brief mention of how the findings can contribute to sustainable land management or urban planning in the region. • Consider rephrasing the line about results to make it clearer that urban expansion and deforestation are key themes of the paper. 	
Is the manuscript scientifically, correct? Please write here.	Yes, the manuscript appears to be scientifically correct. The methodology, using Landsat imagery and supervised classification techniques, is appropriate for the analysis of LULC changes. However, as mentioned earlier, adding validation of the classification results (such as accuracy assessment) would strengthen the scientific rigor of the study, which it lacks and is one of the main weakest points of this paper.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	The references appear to be sufficient and relevant, but the manuscript could benefit from additional references that discuss the broader context of LULC change in India or similar regions. Suggested additions: <ul style="list-style-type: none"> • Studies on the socio-economic impacts of urbanization in India. • Research on the use of remote sensing for environmental monitoring in developing countries. 	

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<p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>Yes, the language and English quality are generally suitable for scholarly communication. The manuscript is clear and understandable, with only minor issues related to phrasing and sentence structure in some places. A careful proofreading to improve flow and remove redundancy could further enhance the clarity of the manuscript.</p>	
<p>Optional/General comments</p>	<ul style="list-style-type: none"> • The manuscript is well-organized and presents important findings in the field of environmental science. • The results section could be made more engaging by incorporating a more detailed analysis of the underlying causes of the observed land-use changes, potentially supported by socio-economic data or local policy insights. <p>There do not appear to be any competing interests disclosed in the manuscript, nor are there indications that such issues are present. Since the study is based on publicly available satellite imagery and standard methods in remote sensing, the research appears to be independent of any commercial or personal conflicts.</p> <p>Strengths: The manuscript addresses a highly relevant research question on Land Use and Land Cover (LULC) dynamics in an important region of India. The methodology using remote sensing and GIS tools is sound and appropriate for the research objectives. The findings have significant potential for informing land-use management and urban planning in the region.</p> <p>Areas for Improvement:</p> <p>Validation and Methodological Details: The manuscript could benefit from a more detailed explanation of the classification methodology, including an accuracy assessment of the results. This would improve the scientific rigor of the analysis and make the results more reliable.</p> <p>Discussion and Contextualization: While the results are presented clearly, the manuscript would benefit from a deeper exploration of the socio-economic and policy drivers behind the observed land-use changes, as well as the broader implications for sustainable development and environmental management.</p> <p>Language and Clarity: There are minor issues with clarity and redundancy that need to be addressed. A more polished version of the manuscript, with clearer section headings and improved sentence flow, would improve the overall readability.</p>	

PART 2:

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