

Review Form 3

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| Journal Name: | International Journal of Environment and Climate Change |
| Manuscript Number: | Ms_IJECC_120337 |
| Title of the Manuscript: | Proposed optimized cropping pattern for different water availability scenarios in Markonahalli reservoir for Upper Shimsha Irrigation Project, Karnataka, India |
| Type of the Article | |

Review Form 3

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> |
|--|---|--|
| Please write few sentences regarding the importance this manuscript for scientific community. Why do you like (or dislike) this manuscript? Minimum 3-4 sentences may be required for this part. | Development of optimization model, Linear programming, use of google earth engine. Use of this methods and process is unique in this paper. | |
| Is the title of the article suitable? (If not please suggest an alternative title) | yes | |
| Is the abstract of the article comprehensive? Do you suggest addition (or deletion) of some points in this section? Please write your suggestions here. | yes | |
| Are subsections and structure of the manuscript appropriate? | NO, IT SHOULD BE IMPROVED | |
| Please write few sentences regarding the scientific correctness of this manuscript. Why do think that this manuscript is scientifically robust and technically sound? Minimum 3-4 sentences may be required for this part. | The author used some technical process like Development of optimization model, Linear programming, use of google earth engine. Makes the paper technically sound good | |
| Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. = | No, Author should add more and more reference, the number of references is very few. | |

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| <p>Minor REVISION comments</p> <p>Is language/English quality of the article suitable for scholarly communications?</p> | <p>Quality should be improved seriously.</p> | |
| <p>Optional/General comments</p> | <p>Work idea is good but paper is not fully structured. Paper need a serious revision. The part of Classification is not good</p> <p>Reviewer's comment</p> <ol style="list-style-type: none"> 1. Location map of study area and LULC map both should be separate from each other. 2. Why the author didn't mention about satellite dataset . 3. The methodology for LULC classification is not sufficient. 4. Why the author merge methodology for classification and result, it should be separate 5. How did the author has got data about seasonal variation in single image only, it cant be possible. Please use different seasonal satellite data for classification of Rabi , Kharif and summer crop. 6. If author used seasonal data then why there is missing of seasonal data classification. 7. The part of classification is very poor quality explanation, please improved it. 8. Why the author not explain about any ground truth of field data . there is requirement to add ground truth in the form of point in map, serious need of field observation, without field observation the data shows less accuracy. 9. Which method is used for classification is used was not mention, is it supervised or unsupervised 10. Colour code of legend should be changed. | |

PART 2:

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| | <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> | |

Reviewer Details:

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|---|---|
| <p>Name:</p> | <p>Mayank Pandey</p> |
| <p>Department, University & Country</p> | <p>Guru Ghasidas Central University, India</p> |