

Review of: "Optimizing Agronomic Practices for Aerobic Rice under Calcareous Soil in Bihar"

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Potential competing interests: No potential competing interests to declare.

There exists a novelty in this study, but the paper requires a thorough revision. The authors have good knowledge of the subject area. The study has good flow, organisation, and structure. However, there are some observations for revisions to improve the quality of the paper which are listed below:

1. The abstract could be improved by including a concise summary of the methodology used in the study, which will help the reader understand the approaches adopted in the research.
2. In the introduction, in the 2nd paragraph, N₂O and N₂ should be written appropriately.
3. The statements made in the introduction need to be referenced to give the readers more confidence regarding where they are sourced. The introduction needs to be improved.
4. You may consider informing the readers of the depth at which the soil samples were collected, which provided the results of the properties of the soil reported, for e.g., 0 to 30 cm, 0 to 60 cm, 0 to 90 cm. The methods of the analysis of the soil properties are not stated.
5. The first statement in the result and discussion section needs to be reviewed. The date of sowing doesn't affect rainy and cloudy days; rather, it is the rainy and cloudy days that affect the date of sowing.
6. There is a lack of information on specific statistical methods used for data analysis, including details on, for instance, the formulae used in calculating parameters such as nitrogen uptake, statistical tests, and software used for analysis.
7. The significance level (whether highly or other forms) was not stated in the result section. There were fewer references to the tables and figures containing the results described in the result and discussion section than should be.
8. Absolutely, very little was reported on the benefit:cost analysis in the text section of the result and discussion.
9. There should be footnotes beneath the tables in order to define the abbreviated information about the treatments on the tables.