Comments on Paper 12:

Farmers perception and adoption of climate smart agricultural technologies: a case study of Farmer Producer Organization (FPO) from arid zone

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Summary

• The paper chose an interesting topic, which is regarding the association between farmer producer organization (FPO) and farmers perception and adoption of climate smart agricultural technologies in India’s arid area.

• The paper uses case study method

• The paper achieves results and discussions based on descriptive statistics and correlation analysis.
Introduction part

“...This will result in less unpredictability and production stability, as well as higher resilience to hazards, shockwaves, and ongoing climatic variability, Climate smart agriculture (CSA) methods are widely acknowledged as the most acceptable options for achieving these goals” (by which literature?)

CAS is a key variable of this study, what is the definition of CSA? References are missed here.
Data

“For the study, we chose Sresta Natural Bio-products Ltd., a farmers producer organisation (FPO) with 900 active members in Sari ki Dhani village, Rohat block, Pali district.”

“A household questionnaire study from chosen villages included sixty randomly selected families (40 FPO farmers and 20 non FPO farmers)”

Why did the authors choose this FPO as the studying site? Need some explanation and background information of this FPO.
Among the 900 active members, only 40 members are selected to conduct the survey, is the sample sufficiently representative?
Descriptive statistics

I would recommend to change the figures into tables, which conduct the T-tests of mean values differences between FPO farmers and Non FPO farmers in terms of key variables such as farmers perception on changes in climatic parameters, land utilization patters etc.
Descriptive statistics

Similar comment with the previous one, t-tests serve as preliminary tests of the difference between FPO farmers and non-FPO farmers.
Results

Correlation matrix does not lead to robust results on the association between FPO and farmers’ CAS behavior. It’s recommended to collect more data and more rigorous methods to achieve more findings.
Mechanism discussions

To make the research more constructive, it is recommended to add some discussions on mechanisms (channels) of why FPO could change farmers CSA behavior.

Possible mechanisms:
1. Technology trainings
2. Inputs purchasing
3. Access to credit
4. Etc.
Other comments

I would suggest to add more literature, especially the ones which are highly related such as:


Thank you!

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