

Review Form 1.6

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_92462
Title of the Manuscript:	Effect of Rice Straw Mulching and Irrigation Regimes on Yield and Yield Attributes of Sunflower (<i>Helianthus annuus</i> L.) in Rice Fallow
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<https://www.journalijecc.com/index.php/IJECC/editorial-policy>)

Review Form 1.6

PART 1: Review Comments

	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)
Compulsory REVISION comments	<p>Effect of Rice Straw Mulching and Irrigation Regimes on Yield and Yield Attributes of Sunflower (<i>Helianthus annuus</i> L.) in Rice Fallow</p> <p>The objective is to evaluate the effects of irrigation and straw mulch on seed yield of sunflower in rice fallows during <i>rabi</i> season.</p> <ul style="list-style-type: none"> • Agriculture Research Institute, PJTSAU – expand the short form. • Under section introduction: general things are filled/given. It would be better if the problem in those areas are highlighted. (Sunflower is an important oil seed crop gaining paramount importance in the world – is it needed for this research paper). • Highlight the significance of Factorial randomized block design (FRBD) in three replications with eight treatments with reference to other design/approach that people attempted. • What is the average cover thickness (straw) above the soil cover/surface. Will it vary with geographic location • Rainfall and supportive irrigation needs of this site, based on which this study was initiate? • Higher amount of irrigation water (how much with reference of normal) by more number (how much with reference of normal) of irrigations <u>under that treatment than the rest of the treatments?</u> Without explanation or discussion with the experiment's observation, it is hollow and irrelevant line to readers • The interaction effect of different levels of straw mulch and irrigation regimes on seed yield of sunflower was found non-significant. Explain. • Explain micro-climatic conditions are favourably affected by optimum degree of soil moisture at this site. Explain why mulch assisted irrigation is essential in December – March. • Figure 1 indicates the increase in seed yield with use of quantum of mulching (7.5t/ha over 1.5t/ha). What happens if there is no mulching or higher mulching (>7.5 t/ha). Photograph showing field set up could enhance the reader's appreciation. • Table 1 is missing in manuscript. • Information from the presented table and figures are not effectively discussed and concluded. • Conclusion – having done an experiment for a year, conclusions are vague and appears to be not based on generated data. • References – Inadequate. Reference 5 is of Nepal, where different climate conditions is referred but experiences from sun flower grown areas of similar weather conditions and contribute to production of the country (Karnataka, Telangana, Tamilnadu etc) not referred. Revision of references relevant to this aim is required. <p>Recommendation</p> <ol style="list-style-type: none"> 1. Major revision keeping in view that readers are looking for – approach to be adopted in their studies. 	
Minor REVISION comments	Major revision and technical report writing approach is required.	
Optional/General comments		

[Review Form 1.6](#)

PART 2:

	Reviewer's comment	Author's comment <i>(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)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

Name:	Nagarajan Ramakrishnan
Department, University & Country	Apollo Hospitals, India