Review Form2

Book Name:	Current Research Progress in Agricultural Sciences
Manuscript Number:	**Ms_BPR_2165**
Title of the Manuscript:	**GROWTH AND YIELD OF SUNFLOWER GENOTYPES TO SULPHUR FERTILIZATION GROWN UNDER VEERANAM AYACUT REGIONS**
Type of the Article	**Book chapter**

PART 1: Review Comments

Compulsory REVISION comments	**Reviewer's comment**	**Author's Feedback***(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)*
Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimumof 3-4 sentences may be required for this part.	This publication sheds light on the essential role of sulfur fertilization to improving sunflower yield and growth under certain agro-climatic conditions. The study provides farmers in the VeeranamAyacut region with practical recommendations after finding the superior genotype (KBSH 53) and appropriate sulphur application rate (40 kg S ha-1). However, the study would benefit from a more recent dataset to improve its applicability to current farming methods.	
Is the title of the article suitable? (If not please suggest an alternative title)	Some title suggestions: • Effect of Sulphur Fertilization on Growth and Yield of Sunflower Genotypes • Sulphur Nutrition and Sunflower Productivity under VeeranamAyacut Conditions • Maximizing Sunflower Productivity Through Sulphur Management in VeeranamAyacut	
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.	• Authors have done good job; here are some more suggestions. Consider including particular information regarding the region's soil and weather conditions. Quantify the increase in yield caused by sulfur application for a stronger impact. Mention any potential limitations or future research directions if space allows. The study had two replications. Increasing the number of replications in field research is frequently advised to improve the reliability and statistical power of the results.	
Are subsections and structure of the manuscript appropriate?	**Satisfactory , Include conclusion section**	
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimumof 3-4 sentences may be required for this part.	The study examines the effects of sunflower genotypes and sulfur fertilizer on growth, yield, and nutrient uptake. Using a factorial randomized block design with replications improves the reliability of the results. The addition of a control treatment (0 kg S ha-1) gives a useful reference point for comparison. Furthermore, the presentation of data on growth parameters, yield components, and yield across different treatment combinations reveals a thorough approach to data analysis.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. **-**	The given references add to the broader context, more recent studies should be included to increase the paper's relevancy. Authors are advised to replace some of the older references i.e. 1989, 1993, 1997, 1998 etc. with more recent research.	

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Minor REVISION comments **Is the language/English quality of the article suitable for scholarly communications?**	Introduction Section • The introduction to the manuscript is lacking in references. The references are required to establish the research background, highlight the study's significance, and strengthen the manuscript's trustworthiness. • The introduction of the manuscript lacks a clear research objective. While it touches upon several relevant issues such as sulfur deficiency, intensive cropping, and oilseed production, it fails to establish a direct connection between these issues and the specific goals of the study. The authors are advised to refine the introduction by defining a clear research question or hypothesis. This will enhance the manuscript's focus and overall clarity. Potential research objectives could include evaluating the impact of sulfur fertilization on sunflower yield and quality or comparing the performance of different sunflower genotypes under varying sulfur levels. • Why the current area is chosen for the study? Explain in the introduction. Materials and Methods • The study included two replications. Increasing the number of replications in field research is often recommended to improve the reliability and statistical power of the results. • The paper contains a substantial lack of methodological detail. There is a lack of critical information on chlorophyll determination, sulfur analysis, soil charactersitics, organic matter content, fertilizer use source, method, time, and irrigation procedures. These omissions make it difficult to assess experimental reliability and reproducibility, as well as interpret data overall. A detailed description of all experimental procedures and analytical methods is required to increase the study's credibility. Results and discussions: • To improve the results section, explain probable scientific explanations for the observed variations in parameter values between the December 2009 and June 2010 crops. Some relevant aspects to be considered and discussed in the findings section include climate conditions, soil conditions, physiological processes, pest and disease pressure. • The limitation of the work is not explained. Explain before the conclusion. • Use full descriptions instead of short forms in result tables which significantly enhances readability and clarity for the audience. Suggested Changes: Replace V1 and V2 with their full names, such as "Variety 1" and "Variety 2" or more specific descriptions like "CO4" and "DRSF108." Similarly, replace S1, S2, etc. with their corresponding sulfur levels, such as "0 kg S ha-1," "20 kg S ha-1," and so on. • The discussion section provides a cursory interpretation of the results and does not adequately integrate the findings into the current body of knowledge. • The study would be significantly strengthened by the inclusion of data on initial and residual soil nutrient levels (sulfur, nitrogen, phosphorus, and potassium), as well as plant nutrient content for different treatments. This would allow for a more thorough assessment of the effects of sulfur fertilizer on sunflower growth, yield, and nutrient uptake.	
Optional/Generalcomments	• The manuscript has multiple merged words, which are most likely due to the MS Word format. For example, in the introduction section, line 3: theseare, line 9: withdeficiency, etc. Check the complete manuscript for this. • Check again the language and grammar of the paper in manuscript	

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PART 2:

	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)*
Are there ethical issues in this manuscript?	*(If yes, Kindly please write down the ethical issues here in details)*	

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