

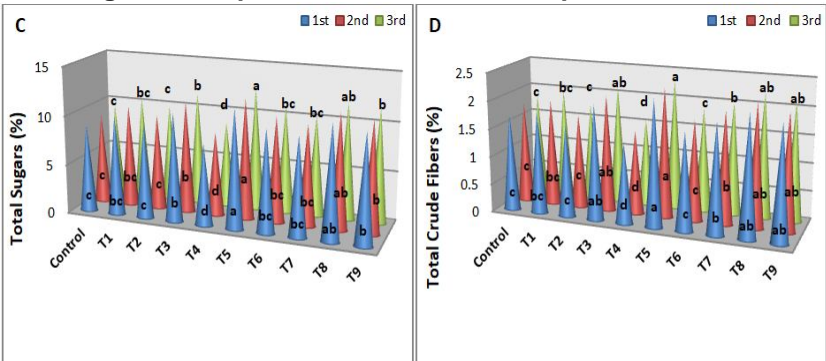
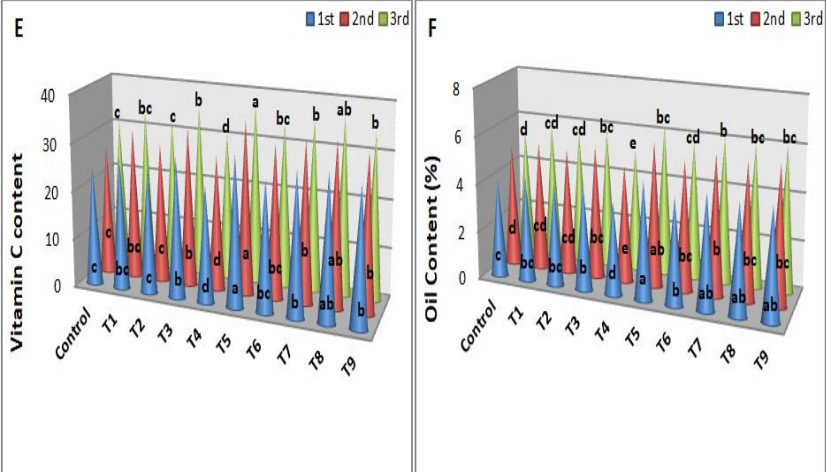
Review Form 3

Journal Name:	Current Journal of Applied Science and Technology
Manuscript Number:	Ms_CJAST_130720
Title of the Manuscript:	Influence of Organic Amendments on Prickly Pear (Opuntia ficus-indica L.) Productivity and Essential Oil Accumulation of in a Semi-Arid Region
Type of the Article	Original Research Article

PART 1: 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. A minimum of 3-4 sentences may be required for this part.	The article addresses the important issue of increasing the productivity and economic value of plants using the example of prickly pear ( <i>Opuntia ficus-indica</i> L.) through the use of organic fertilizers obtained from natural sources. In this article, the authors investigate the effect of combined application of vermicompost and chicken manure on the growth, yield and fruit quality of prickly pear. These bioorganic options not only supply essential nutrients, but also improve soil structure, enhance microbial activity and promote long-term soil health. In addition, they reduce the risks associated with chemical runoff, groundwater pollution and soil acidification. The experimental results presented cover a range of morphological characteristics and soil properties and reflect the relevance and prospects of using vermicompost and chicken manure for growing a valuable crop of pear cactus, which efficiently utilize water and nutrients.	This manuscript addresses a critical need for sustainable agricultural practices in semi-arid regions by investigating the effects of vermicompost and chicken manure on prickly pear productivity and essential oil accumulation. The research provides valuable insights into the potential of these organic amendments to enhance both yield and the production of valuable essential oils, offering a promising approach for improving the economic viability of prickly pear cultivation. By exploring the relationship between organic fertilization and essential oil accumulation, this study contributes to a deeper understanding of the factors influencing essential oil production in this important crop. These findings have significant implications for growers seeking to optimize prickly pear production while minimizing reliance on synthetic fertilizers, promoting environmentally sound and economically sustainable agricultural practices.
Is the title of the article suitable? (If not please suggest an alternative title)	At the authors' request, I would advise adding a clarification of the organic residues used to the title. For example, «Influence of Vermicompost and Chicken Manure on Prickly Pear ( <i>Opuntia ficus-indica</i> L.) Productivity and Essential Oil Accumulation in a Semi-Arid Region». Or add them to the keywords.	All the authors convinced with changing and improving the title to the suggested one.
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.	The abstract of the article is comprehensive and reflects the essence of the work done.	The abstract provides a concise yet thorough overview of the study's objectives, methodology, key findings, and main conclusions.
Is the manuscript scientifically, correct? Please write here.	The manuscript is scientific, presents experimental results for 3 years of field experiments. A comprehensive study of the object was conducted. Analysis of the obtained data was carried out. Detailed discussion and comparison with the data obtained by other authors was carried out.	We agree that the study appears comprehensive in its investigation of the subject, and the detailed discussion and comparison with existing literature contribute significantly to the field.
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	The references are sufficient and recent. However, check the formatting of the references - in some places the journals are in italics, in others they are not, in some places the DOI is given, in others they are not, in some places the full data is not given, for example, pages are missing.	We will revise all the references and make the required amendments

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Is the language/English quality of the article suitable for scholarly communications?	The language of the article is suitable for scientific communication.	The same
Optional/General comments	<p>Despite the overall positive impression of the manuscript and the recommendation to accept the new data in the next issue of the journal, there remain several small questions that I would like to clarify in the manuscript:</p> <ul style="list-style-type: none"><li>- How many plants were taken per variant?</li><li>- Table 5-11 does not provide a confidence interval, and some values do not have letter indices (Table 5 – column 4, Table 6 – columns 6, 7).</li></ul>	<p>for the numbers of plant we will add it However, figure 5 we have sent our original manuscript contains all the figures completed as it shown in this pic</p> <div></div> <p>Figure 5. Impact of various treatments on total sugars and total crude fibers of prickly pear during three seasons 2022, 2023, and 2024.</p> <p>And the same for figure 6</p> <div></div> <p>Figure 6. Impact of various treatments on vitamin C content and total oil content of prickly pear during three seasons 2022, 2023, and 2024.</p>

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)	