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| Journal Name: | [**Asian Research Journal of Agriculture**](https://journalarja.com/index.php/ARJA) |
| Manuscript Number: | **Ms\_ARJA\_137894** |
| Title of the Manuscript: | **Relationship Between Leaf Area Index and Lysimetric Crop Coefficients of Pigeonpea (Cajanus Cajan L.) under local climatic conditions of Vidarbha** |
| Type of the Article | **Original Research Article** |

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| PART 1: Comments | | |
|  | Reviewer’s comment **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **Author’s Feedback** (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.** | **As pigeon pea is a long duration crop (more than 150 days) its water requirement is also high. Estimation of crop-coefficient (Kc) as a function of LAI would be a great proposition as LAI is the key canopy trait governing Kc. The manuscript is also important for precision water application, as water is going to be one of the most scarce input for future farming activities, particularly in the context of climate change. Hence the manuscript is important for the scientific as well as farming communities.** | Considering the reviewer's remarks, it is ensured that the introduction and discussion sections of the revised manuscript more clearly highlight the significance of pigeon pea in the context of food security and resource sustainability. |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **Ecological region may be mentioned for more focused title.**  **Relationship Between Leaf Area Index and Crop Coefficients of Pigeonpea (Cajanus Cajan L.) under subtropical climatic conditions of India** | The changes suggested are done in the title of revised manuscript. Previous Title: **Relationship Between Leaf Area Index and Crop Coefficients of Pigeonpea (Cajanus Cajan L.)**  Revised Title: **Relationship Between Leaf Area Index and Lysimetric Crop Coefficients of Pigeonpea (Cajanus Cajan L.) under local climatic conditions of Vidarbha** |
| 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 statistics for the values mentioned as commented in the paper may be incorporated** | Changes are made in revised manuscript as per suggestion. |
| Is the manuscript scientifically, correct? Please write here. | The manuscript does not mention any statistical design for data recording, though it is mandatory for field experiment. So, in my view, the manuscript is having major technical flaws. The data point used in regression analysis also seems to be too low to develop an accurate and robust regression model. | There were not comparative treatments in the field study, therefore statistical part is not mentioned. |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | The references are insufficient and needs to be incorporated as mentioned in the paper. | Changes are made in revised manuscript as per suggestion. |
| Is the language/English quality of the article suitable for scholarly communications? | Suitable. | The changes suggested as per grammatical and sentence construction concern by reviewer are done in the revised manuscript. |
| Optional/General comments | **The manuscript should be reviewed in the context of the comments made.** | The possible suggested changes among the comments are done in the revised 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)* | No ethical issues. The suggested changes and details regarding the experiment are provided in the revised manuscript. |