

## Review Form 1.7

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| Journal Name:            | <b>International Journal of Plant &amp; Soil Science</b>                      |
| Manuscript Number:       | <b>Ms_IJPSS_104085</b>  |
| Title of the Manuscript: | <b>GGE Biplot Analysis in Mung bean genotypes under Zone-IIa in Rajasthan</b> |
| Type of the Article      | <b>Original Research Article</b>  |

### **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.journalijpss.com/index.php/IJPSS/editorial-policy> )

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**PART 1: Review Comments**

|   | <b>Reviewer's comment</b>   | <b>Author's comment</b> (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) |
|---|---|--|
| <p><b>Compulsory</b> REVISION comments</p> <p><b>1. Is the manuscript important for scientific community?</b><br/>(Please write few sentences on this manuscript)</p> <p><b>2. Is the title of the article suitable?</b><br/>(If not please suggest an alternative title)</p> <p><b>3. Is the abstract of the article comprehensive?</b></p> <p><b>4. Are subsections and structure of the manuscript appropriate?</b></p> <p><b>5. Do you think the manuscript is scientifically correct?</b></p> <p><b>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></p> <p><b><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></b></p> | <p>In part, Yes. The premise of the study can provide insight on the relationship between genotype and the environment that can improve yield and be applied to other species as well. However, upon reviewing the manuscript only year was the considered parameter to show interaction with genotype, or it is the only one presented as the environment for GEI. The test environment was not described that can be of use to the farmers. The paper must be clear about its scope, and what were the limitations of their analyses as well as parameters considered.</p> <p>Yes. However, the scientific name of the plant as well as the country where the study was conducted should be reflected</p> <p>Yes, but a little rationale prior to stating the objective will be able to improve the abstract.</p> <p>Yes. Just separate description of study area with genotype. A thorough description of experimental set up will also improve the materials and methods set up. Describe thoroughly how yield assessment was made as well. Paper only mentioned it in passing when in fact this was the major parameter for assessment.</p> <p>In part, yes, but they must clarify that the sole parameter tested against genotype was year. This has to be reflected in the paper. If Location will be included in GL and GLY, this must be elaborated further both in methods, and results and discussion. Test environments were not described in the paper, only years. Where was location described for it to be considered in the GEI and as a factor? The experimental design was also not clearly described. It is hard to visualize how the authors performed the experiment. There were also instances that terms are used interchangeably to refer to years as environment. This must be clarified in the manuscript.</p> <p>Partially yes, however, I hope the author/s use more recent references as most of those that were cited in the manuscript were published more than 10 years ago. There were only a handful of papers that were recently published.</p> |  |
| <p><b>Minor</b> REVISION comments</p> <p><b>1. Is language/English quality of the article suitable for scholarly communications?</b></p>  | <p>Yes. However, there are several sentences that have incorrect tenses and grammar. Please revisit. Several contexts were also not clearly explained particularly in the mid to latter part of the discussion.</p>   |  |
| <p><b>Optional/General</b> comments</p>   | <p>Line 2: Include scientific name of plant in the title.<br/>           Line 2: Include country where this is done since this is an international journal.<br/>           Line 5: Add brief rationale of the study.<br/>           Line 12: "Y2ear effect explained more than 89.11%" should be Year 2? Pls correct this.<br/>           Line 20: It should be Vigna radiata, not radiate.<br/>           Line 24: Indicate where Rajasthan is. Which country? This will be read by international readers.<br/>           Line 24: Why use "However"? There is nothing contradictory about these two statements?<br/>           Line 33: cannot be interpreted based on genotype<br/>           Line 33-34: "This is because in the presence of GEI, yield is less predictable and cannot be interpreted as based on genotype and environmental means alone." What does this mean?</p>   |  |

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|  | <p>Improve delivery.<br/>           Line 42-49: Univariate parametric/non-parametric and multivariate parametric were not clearly explained.<br/>           Line 65: For the methods, it would be nice if you could include a photo of the study area and the experimental set up to visualize how the mung bean were placed.<br/>           Line 67-68: Which country?<br/>           Line 68-69: A map showing the location of the site would improve the description of the study area.<br/>           Line 72: "The It comes under the agro-climatic Zone IIa". Remove "The".<br/>           Line 75: Can you describe the terrain? soil type? pH of the soil? and other agricultural parameters?<br/>           Line 75: Start a new paragraph as you describe the genotype.<br/>           Line 81: data were recorded on seed yield<br/>           Line 83: Why were the 4 central rows used for seed yield assessment?<br/>           Line 84: How were seed yield/grain yield assessed?<br/>           Line 84-85: For the methods, it would be nice if you could include a photo of the study area and the experimental set up to visualize how the mung bean were placed. A schematic diagram to show the position of the plants would also help to describe the experimental design (i.e. replicates and randomization).<br/>           Line 85: Were the environmental conditions monitored during the study?<br/> <b>Line 104: The multiple LOCATIONS were not described in the paper to establish GL and LY. Readers could not make inferences about their interaction. Test environments were not described in the paper.</b><br/>           Line 125: from by RMG-113(1053 kg ha-1) ..... What RMG-113?<br/> <b>General: **Test environments for each year were not described separately. Methods only mentions the range of temperature and rainfall in the entire region. It is hard to infer interpretation solely based on year as this will not be indicative of any substantial findings. Location factor in the plot were also not explored as they were not described in the paper.</b><br/>           Line 208: What are these 3 locations? Where was this described in the paper?<br/>           Line 251: Bartlett (1937) was not found in the text of the paper.<br/>           Line 288: MOA (1988) was not found in the text of the paper.<br/>           Line 309: Where was Asfaw et al. (2012) found in the manuscript? It is also not alphabetized.</p> |  |
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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) |
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| Are there ethical issues in this manuscript? | <i>(If yes, Kindly please write down the ethical issues here in details)</i> |   |

**Reviewer Details:**

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|----------------------------------|---|
| Name:                            | Larry V. Padilla                              |
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