

## Review Form 1.7

Journal Name:	<b>International Journal of Environment and Climate Change</b>
Manuscript Number:	<b>Ms_IJECC_95786</b>
Title of the Manuscript:	<b>Morphological Characterization and Identification of new traits of Soybean [Glycine max (L.) Merrill] Germplasm</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.journalijecc.com/index.php/IJECC/editorial-policy> )

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### 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)
<p><b>Compulsory</b> REVISION comments</p> <p><b>1. Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</p> <p><b>2. Is the title of the article suitable?</b> (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>	<ul style="list-style-type: none"> <li>○ Soybean [<i>Glycine max</i> (L.) Merrill] is considered as a renowned "Wonder crop" of the twentieth century.</li> <li>○ The crop is prominent as the "Wonder crop" of the twentieth century. The seed of soybean is a prodigious source of protein, necessary edible oil, several minerals, nutrients, amino acids, antioxidants and health-beneficial compounds for human consumption besides serving as a globally rich protein quintessence for animal, poultry, and fish feed.</li> <li>○ The present study demonstrated Distinctness, Uniformity, and Stability (DUS) characterization of ninety newly evolved soybean genotypes together with three national checks were carried out at JNKVV, Jabalpur, during <i>Kharif</i> 2021.</li> <li>○ Whereby, sixteen DUS traits were appraised as described by National DUS test guidelines. The observations which were made on the leaves, stems, flowers, seeds, and pods of plants at various phases, revealed a large portion of the variation in the soybean genotypes for DUS characters.</li> <li>○ Therefore, the investigation would be highly beneficial in identifying, conserving, and developing model plant type based on distinctive morphological characteristics in addition to employing them in breeding programmes to generate improved varieties.</li>   <li>○ Yes, the title of the manuscript is suitable enough.</li>   <li>○ Yes, the abstract written is comprehensive.</li>   <li>○ Yes, they are appropriate enough depicting the general sub-sections viz., Abstract, Introduction, Materials and Methods, Results and Discussion and Conclusion as well.</li> <li>○ Furthermore, figures illustrating the Frequency distribution pie chart for different morphological traits, variation in leaf shape, Pubescence, Pod pubescence, and Flower colour, besides figures depicting New trait variation in foliage, Flower colour and hilum colouration have been well presented.</li> <li>○ Moreover, Dendrogram showing the relationship among soybean genotypes based on different morphological trait adds flavor to the manuscript.</li>   <li>○ According to the previous findings, Exploration and Characterization of soybean genotypes are constantly advantageous as germplasm forms the foundation of any crop improvement programme and plays a crucial role in crop growth.</li> <li>○ Moreover, it has been shown that the essential conditions for granting protection to different</li> </ul>	

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	<p>varieties/germplasm variations are novelty, distinctiveness, uniformity, and stability.</p> <ul style="list-style-type: none"><li>○ The references are moderately adequate and recent as well.</li></ul>	
<b>Minor</b> REVISION comments  <b>1. Is language/English quality of the article suitable for scholarly communications?</b>	<ul style="list-style-type: none"><li>• Abstract, 6<sup>th</sup> line: exhibited <b>the</b> presence-correct determiner usage.</li><li>• Abstract, 10<sup>th</sup> line: in <b>the</b> present-add an article.</li><li>• Abstract, last 4<sup>th</sup> line: <b>were</b> dominating-correct word choice.</li><li>• Results and Discussion, 5<sup>th</sup> line: these <b>characteristics</b>-correct word choice.</li></ul>	
<b>Optional/General</b> comments	<ul style="list-style-type: none"><li>○ The English quality is of modest and fine standards.</li><li>○ The manuscript has been succinctly described, remarkable, and well-presented with related figures and Dendrogram as well.</li></ul>	

## 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?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

## Reviewer Details:

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