

**Review Form 1.7**

Journal Name:	<b>International Journal of Environment and Climate Change</b>
Manuscript Number:	<b>Ms_IJECC_107331</b>
Title of the Manuscript:	<b>ESTIMATION OF GENETIC VARIABILITY, HERITABILITY AND GENETIC ADVANCE AMONG THE CHARACTERS OF GLADIOLUS (<i>Gladiolus grandiflorus</i> L.)</b>
Type of the Article	<b>Original Research Article</b>

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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 REVISION comments</b></p> <ol style="list-style-type: none"> <li><b>Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</li> <li><b>Is the title of the article suitable?</b> (If not please suggest an alternative title)</li> <li><b>Is the abstract of the article comprehensive?</b></li> <li><b>Are subsections and structure of the manuscript appropriate?</b></li> <li><b>Do you think the manuscript is scientifically correct?</b></li> <li><b>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></li> </ol> <p><b>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</b></p>	<ol style="list-style-type: none"> <li>Manuscript is very important for the scientific community in view of the economic importance of the Gladiolus flower and its usefulness especially as a cut flower for income generation. There is the need to breed for improved varieties with suitable traits to meet the demands of the market.</li> <li>The original title is suitable.</li> <li>Abstract is ok but a bit of introduction to the studies must be added. Other suggestions in text and comments have been made.</li> <li>Subsections and structure of the manuscript is appropriate. However, the results and discussions must be revised following authors quoted below and in the comments. The conclusion was suggested to be revised since it seemed like a repetition of the results. Other suggestions have been made in text and comments section for appropriate action.</li> <li>The manuscript is scientifically correct subject to minor corrections and suggestions made.</li> <li>The references are sufficient but some are very old. Other relevant references have been suggested below especially literature on Genetic variability, Genotypic coefficient of variation, phenotypic coefficient of variation, genetic advance and genetic advance as percentage of mean. Their implications must be mentioned so that they could be used in the discussions. Additional suggestions are found in the text and comments section.</li> </ol> <p>Abhishek Kumar, Ashok Kumar and Abhinav Kumar. 2019. Genetic Variability, Heritability, Genetic Advance and Genetic Divergence for Yield and its Contributing Traits in Gladiolus (<i>Gladiolus grandiflorus</i> L.). <i>Int.J.Curr.Microbiol.App.Sci.</i> 8(01): 689-701. doi: <a href="https://doi.org/10.20546/ijcmas.2019.801.077">https://doi.org/10.20546/ijcmas.2019.801.077</a></p> <p>SuvigyaGautam, Anita Kerketta and Sarvanan, S. S. 2020. Genetic Variability and Heritability Studies in Gladiolus (<i>Gladiolus grandiflorus</i> L.). <i>Int.J.Curr.Microbiol.App.Sci.</i> 9(12): 2337- 2344. doi: <a href="https://doi.org/10.20546/ijcmas.2020.912.277">https://doi.org/10.20546/ijcmas.2020.912.277</a></p> <p>Kispotta, L.M., Jha, K.K., Horo,P., Tirkey, S.K., Misra, S. and Sengupta, S. (2017). Genetic variability and heritability in <i>Gladiolus hybridus</i>. <i>International Journal of Science Environment and Technology</i>, 6(1):519 – 528. Kumar, A., Kumar, A. and Kumar, A. (2019).</p> <p><b>Additional suggestions and comments</b></p> <p>Indicate clearly your study objectives. Also include in your introduction expanded literature on Heritability, GCV, PCV and GAM with references which will help you in the discussions.</p> <p><b>Materials and Methods:</b>A table describing the 25 different Gladiolus genotypes with their sources could also help.</p> <p>Authors should include the method for calculating the Genotypic coefficient of variation, phenotypic coefficient of variation, genetic advance and genetic advance as percentage of mean for the sake</p>	

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	of repeatability of the study. Please check references suggested above. A brief description of how the parameters were measured could also help for repeatability of the study..  <b>Other suggestions and comments are in the text.</b>	
<b>Minor</b> REVISION comments  <b>1. Is language/English quality of the article suitable for scholarly communications?</b>	Language /English quality of the article is suitable for scholarly communications. However, there were few construction mistakes and corrections have been suggested	
<b>Optional/General</b> comments	Most of the comments are in the text and comment section	

**PART 2:**

	<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)
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

**Reviewer Details:**

Name:	<b>Manfred Bondzie Ewool</b>
Department, University & Country	<b>Ghana</b>