

Review Form 1.7

Journal Name:	International Journal of Plant & Soil Science
Manuscript Number:	Ms_IJPSS_104275
Title of the Manuscript:	Estimates of genetic variability, heretability, genetic advance and genetic divergence in bottle gourd [Lagenaria siceraria (Mol.) Stadle.]
Type of the Article	

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

	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>Compulsory REVISION comments</p> <ol style="list-style-type: none"> 1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript) 2. Is the title of the article suitable? (If not please suggest an alternative title) 3. Is the abstract of the article comprehensive? 4. Are subsections and structure of the manuscript appropriate? 5. Do you think the manuscript is scientifically correct? 6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>1. Manuscript is very important for the scientific community in view of the value of the bottle gourd. It has several uses including food, medicinal, industrial, music, etc. There is therefore the need to breed for more improved varieties which are disease and pest resistance and other suitable traits to meet the demands of the market.</p> <p>2. The title of the article is ok.</p> <p>3. Abstract is ok but a bit of introduction and justification for the studies could help. Authors should also cross check their results with those stated in the abstract. Some suggestions have been made</p> <p>4. Subsections and structure of the manuscript was not very appropriate. Authors should kindly revise the introduction. It appears the whole introduction is about the botany of the plant. How are you going to discuss your results? Show some empirical report of other scientists in relation to your work. What are the implications of your studies in terms of breeding? The use of all the parameters stated in your title i.e genetic variability, heritability, genetic advance and genetic divergence. Let us know what they mean to us a breeders in your introduction. Expanded literature on Heritability, GCV, PCV, GAM, genetic divergence and their implications with references which will help you in the discussions. Mention also some of the side effects reported of cucurbitacins in the bottle gourd to justify the need to broaden your germplasm base for further breeding as reported by Ankur Verma and Sanjay Jaiswal. World J Emerg Med. 2015; 6(4): 308–309. doi: 10.5847/wjem.j.1920-8642.2015.04.011 PMID: PMC4677076 PMID: 26693268</p> <p>Also indicate clearly the justification of your study and any new innovations your work is bringing up. This is important because several studies have been conducted in this area.</p> <p>Materials and Methods: For repeatability briefly show how the 11 parameters were taken and what instruments used. Again for kindly indicate the formulae used in calculating , GCV, PCV, GAM, genetic divergence according to the suggested workers. The table 1 show same source. Brief description of the varieties would help otherwise delete table and indicate in text 32 genotypes since the entries appear in the divergence studies. Please this is very important for repeatability of your studies. The site must be well described. Also mention briefly the procedures for measuring the characters studied. What were the standard statistical procedures used? How were the genetic parameters estimated? Please let us know so we can repeat your studies.</p> <p>Results and discussions must be rewritten following some of the suggested authors There was no discussion of the results with support from other workers. This is why your introduction should include vital results of some empirical studies for your discussions.</p> <p>5. The manuscript is scientifically correct subject to major corrections and suggestions made.</p> <p>6. The references are sufficient but may need a bit to support literature on Genetic variability, Genotypic coefficient of variation, phenotypic coefficient of variation, genetic advance, genetic advance as percentage of mean and the genetic divergence. Their implications must be mentioned</p>	

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	<p>so that they could be used in the discussions. Additional suggestions are found in the text and comments section.</p> <p>Other suggestions have been made in text and comments section for appropriate action</p> <p>Suggested references: Endashaw Girma Seyoum, Alemnesh Sisay. Genetic Variability, Heritability and Genetic Advance Study in Bread Wheat Genotypes (<i>Triticum aestivum</i> L.). <i>Advances in Bioscience and Bioengineering</i>. Vol. 9, No. 3, 2021, pp. 81-86. doi: 10.11648/j.abb.20210903.13</p> <p>Ewool M. B. & Akromah R. 2017. Genetic Variability, Coefficient of Variance, Heritability and Genetic Advance of Pro-Vitamin A Maize Hybrids. <i>International Journal of Agriculture Innovations and Research</i>. 6 (1) 2319-1473.</p> <p>Dev Nidhi Tiwari et al. 2019. Genetic Variability and Correlation Coefficients of Major Traits in Early Maturing Rice under Rainfed Lowland Environments of Nepal. <i>Hindawi Advances in Agriculture</i> Volume 2019, Article ID 5975901, 9 pages https://doi.org/10.1155/2019/5975901</p> <p>Additional suggestions and comments</p> <p>Other suggestions and comments are in the text.</p>	
Minor REVISION comments		
1. Is language/English quality of the article suitable for scholarly communications?	Language /English quality of the article is suitable for scholarly communications. However, there were few construction mistakes and corrections have been suggested	
Optional/General comments	Some of the comments are in the text and comment section	

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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