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Journal Name:	International Journal of Plant & Soil Science
Manuscript Number:	Ms_IJPSS_106625
Title of the Manuscript:	STUDY ON GENETIC DIVERGENCE USING D2 ANALYSIS IN GREENGRAM (Vigna radiata (L.)Wilczek)
Type of the Article	Original Research 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:

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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"> Is the manuscript important for scientific community? (Please write few sentences on this manuscript) Is the title of the article suitable? (If not please suggest an alternative title) Is the abstract of the article comprehensive? Are subsections and structure of the manuscript appropriate? Do you think the manuscript is scientifically correct? 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>The manuscript is important for the scientific community,</p> <p>The authors of the study evaluate the genetic variability parameters as well as to study genetic divergence and identify suitable parents for divergence among 53 different Greengram genotypes, including one check variety. The experiment was conducted during the kharif season of 2022-23 at the experimental farm of the Department of Genetics and Plant Breeding, Naini Agricultural Institute, (Uttar Pradesh) A randomized block design with three replications was employed for the study. Thirteen characteristics were observed and recorded, (i.e. days to 50% flowering, days to 50% pod initiation, etc). among all the genotypes, IPM-2-14 exhibited the highest mean performance in terms of seed yield per plant, followed by MGG-385. The phenotypic coefficients of variation were consistently higher than the corresponding genotypic coefficients of variation for all traits, indicating the influence of environmental factors on trait expression. The number of pods per plant and number of clusters per plant recorded the highest GCV and PCV values. The number of pods per plant exhibited both high heritability and genetic advance. The 53 genotypes were categorized into six clusters through D2 analysis. Cluster I had the maximum number of genotypes, the maximum intra cluster distance was observed in cluster IV, inter cluster distance between cluster III and cluster VI. The highest cluster mean was recorded by Cluster VI for plant height. The Percentage contribution of characters was maximum by seed yield per plant followed by the number of pods per plant and number of clusters per plant towards genetic divergence.</p> <p>The title of the article is suitable.</p> <p>The abstract of the article is comprehensive.</p> <p>The manuscript is scientifically correct.</p> <p>The references sufficient and recent</p>	
<p>Minor REVISION comments</p> <ol style="list-style-type: none"> Is language/English quality of the article suitable for scholarly communications? 	<p>The English quality of the article is suitable for scholarly communications</p>	
<p>Optional/General comments</p>	<p>MATERIALS AND METHODS It remains to describe all the formulas used and the references. Please cite the software.</p>	

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

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