Review Form 1.6

Journal Name:	**International Journal of Plant & Soil Science**
Manuscript Number:	**Ms_IJPSS_89913**
Title of the Manuscript:	**Studies on Genetic Variability in Ridge Gourd (Luffa acutangula L. Roxb.) under Prayagraj Agro-Climatic condition**
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:

(https://www.journalijpss.com/index.php/IJPSS/editorial-policy)

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)*
Compulsory REVISION comments	-Days to germination and plant height [30DAS] exhibited high estimates of GCV and PCV both. – -Genetic parameters revealed that high heritability (broad sense) was observed for fruit yield per hectare, plant height [30DAS], fruit length, plant height [60DAS], days to first harvest of fruits, days to germination, leaf length, sex ratio, fruit girth, fruit yield per plant, days to first male flowering, shelf life, leaf per plant [30DAS], Vitamin C content and number of primary branches per plant. -Fruit yield per hectare, fruit yield per plant, fruit girth, fruit length, leaf length, plant height [60DAS], plant height [30DAS] and days to germination exhibited high heritability broad sense coupled with high values for genetic advance as percent of mean. -This indicated that priority should be given to these characters during selection for improvement in ridge gourd.	
Minor REVISION comments	-Ridge Gourd (*Luffa acutangula* Roxb.) is a creeping vine plant in the *Cucurbitaceae* family that bears usually cylindrical fruits, which are used as vegetables. -The area under Ridge gourd production in India accounts to 10.03 thousand ha with production of 3.16 million tonnes in year 2018-19. The production of Ridge gourd in Uttar Pradesh is 427.81 tonnes for year 2018-19. The ridge gourd is used as cooked vegetable. It has many uses in ayurvedic medicines. According to 'Ayurvedic' medicines, the oil from its seed is god for the liver and the body -A proper understanding of classification of ridge gourd germplasm for qualitative and quantitative traits may serve as useful guidelines for plant breeders for selection and improvement of the crop. -Genetic variability and their quantification for qualitative and quantitative characters of economic importance are prerequisite for any crop improvement programme. -The knowledge of genetic advance and heritability guides the breeder to select superior parents to initiate fruitful breeding programme. -Thus, for any yield improvement programme superior parent possessing better heritability and genetic advance for various traits is essential (Khan *et al.,*2005)	
Optional/General comments	-The experiment was conducted in a Randomized Block Design with three replications during the *Kharif* season, 2021 at Sam Higginbottom university of Agriculture, Technology and Sciences, Prayagraj. -The data were recorded from five randomly selected plants for each genotype in all the replications for twenty one characters. -From the present investigation it is concluded that among 11 genotypes of ridge gourd on the basis of mean performance 3 genotypes namely; Dharidar, Anamika and Jaipur long had substantially higher yield and performed better for other desirable traits as compared to Pusa Nasdar **(Check).** **-**Analysis of variance showed the presence of significant variation among different genotypes for all characters studied.	

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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)*
Are there ethical issues in this manuscript?	*(If yes, Kindly please write down the ethical issues here in details)*	

Reviewer Details:

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