

Name:	<a href="#"><b>UTTAR PRADESH JOURNAL OF ZOOLOGY</b></a>
Manuscript Number:	<b>Ms_UPJOZ_4610</b>
Title of the Manuscript:	<b>"Genetic and Environmental Factors Influencing Lactation Traits in Jersey x Sahiwal Crossbred Cattle: Variance Component Estimation"</b>
Type of the Article	

**PART 1: Comments**

	<b>Reviewer's comment</b> <b>Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.</b>	<b>Author's Feedback</b> <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<b>Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.</b>	<b>The study is of significant importance in assessing the prospects for maternal genetic improvement in dairy cattle production. For effective selection programme, it is essential to estimate the environmental variance component for the various traits of economic importance. Crossbreeding has been one of the cornerstone for improvement programmes in livestock production, hence it is important to evaluate their performances.</b>	
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>	<b>The title of the article is adequate</b>	

<p><b>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</b></p>	<p><b>The abstract is not adequate as there was no mention of the mean performances for the traits. Also the likely environmental factors were not stated</b></p>	
<p><b>Is the manuscript scientifically, correct? Please write here.</b></p>	<p><b>The Materials and Methods section were lacking in the following: Country of study, management practices, production systems in managing the herd. Data collection protocol and data analysis were not shared. For instance, were the data adjusted for any environmental factor like Year, season effects on the parameters. The breeding structure was not stated. Were there any reciprocal crossings? Were the bulls and cows purebreds such that the records were on only 50%Jersey x 50% Sahiwal crossbreds? Were there admixtures at various levels?</b></p> <p><b>Table 1 is unnecessary as it was a repetition of figures for all the items</b></p> <p><b>Model 4 has no “e” component</b></p> <p><b>There should be a table to inform on the mean performances and factors affecting the traits.</b></p> <p><b>We do know that crossbreds usually display higher heritability estimates than the purebreds. This was not brought to bare in this paper by comparing the values with the purebreds.</b></p>	
<p><b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b></p>	<p><b>Mrode R. (2013). Linear models for the prediction of animal breeding values. 3rd Edition</b>  <b>Paperback: ISBN : 978-1-84593-981-6343</b>  <b>pages2014</b></p> <p><b>Raphael A. Mrode, Ivan Pocrnic (2023). Linear Models for the Prediction of the Genetic Merit of Animals. 4th Edition</b>  <b>Paperback: ISBN : 978-1-80062-048-3412</b>  <b>pages2023</b></p>	

Is the language/English quality of the article suitable for scholarly communications?	The author(s) should work on the editing of the article. One single paragraph for results and discussion for each trait is not good enough.	
<b><u>Optional/General</u></b> comments		

## **PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <i>(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)</i>
<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>Idowu Kolawole Odubote</b>
Department, University & Country	<b>University of Zambia, Zambia</b>