Review Form 1.7

Journal Name:	**Journal of Scientific Research and Reports**
Manuscript Number:	**Ms_JSRR_117051**
Title of the Manuscript:	**Assessment of Biochemical Parameters and Yield Performance in Rice under Different Crop Establishment Methods**
Type of the Article	**Original Research Article**

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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)*
Compulsory REVISION comments 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.** **(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)**	Strengths: The methodology provides clear and detailed procedures for measuring biochemical parameters such as Total Soluble Sugar Content (TSS), Starch Content, Malondialdehyde (MDA) content, and Superoxide Dismutase (SOD) activity, ensuring reproducibility and reliability of the results. The study utilizes well-established methods for biochemical analysis, referenced from previous studies (Dubois et al., Hodges et al., Dhindsa et al.), which enhances the credibility of the research. The procedures outline specific steps for sample preparation, extraction, and analysis, contributing to the standardization of measurements and minimizing experimental variability. The study employs appropriate statistical techniques, including two-way analysis of variance (ANOVA) and Duncan's Multiple Range Test (DMRT), to assess the significance of treatments and period of sampling, ensuring robust statistical inference. The use of a split-plot layout with three replications and five rice varieties as sub-plots enhances the reliability of the findings by reducing experimental error and increasing the generalizability of the results. Weaknesses: The methodology does not explicitly address potential limitations or sources of error associated with the experimental procedures, which could affect the interpretation and validity of the results. While the methods used are established in the literature, there is no mention of validation studies or quality control measures to ensure the accuracy and precision of the analytical techniques employed. The methodology does not mention the inclusion of positive or negative controls in the experimental procedures, which could help validate the accuracy and reliability of the measurements. The selection criteria for sampling goat farmers may introduce bias, as it relies on subjective judgments of minimum goat numbers and years of experience, potentially excluding certain segments of the population. The study focuses on a specific district and population of goat farmers in Odisha, limiting the generalizability of the findings to other regions or populations with different socio-economic characteristics.	
Minor REVISION comments 1. **Is language/English quality of the article suitable for scholarly communications?**		
Optional/General comments		

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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)*	

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