

### Review Form 3

Journal Name:	<b>Journal of Scientific Research and Reports</b>
Manuscript Number:	<b>Ms_JSRR_123202</b>
Title of the Manuscript:	<b>Transformation of cropping pattern through the intervention of potato variety ACI Alu-10 (Valencia) to ensure food security in Bangladesh</b>
Type of the Article	

#### **General guidelines for the 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 guidelines for the Peer Review process, reviewers are requested to visit this link:

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#### **Important Policies Regarding Peer Review**

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### PART 1: Review Comments

<b>Compulsory</b> REVISION comments	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.	This manuscript is very important in so far as the scientific community is concerned as it validates the use of the variety in providing food security in a developing country like Bangladesh. Developing countries face poor productivity of crops due to their use of traditional varieties of seeds which are not disease resistant, have longer harvesting periods leading to higher costs, as well as their unsuitability for industrial use. This manuscript is especially important in the light of climate change as it uses lesser water due to shorter harvesting period.	
Is the title of the article suitable? (If not please suggest an alternative title)	The article is not exactly suggesting a change in cropping pattern as that would entail production of different types of crops.  A more appropriate title would be 'Adoption of potato variety ACI Alu-10 (Valencia) to ensure food security in Bangladesh'.	
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.	The Abstract is comprehensively written. The number of farmers selected for the study is incorrectly written as 136 in the abstract. The actual number in the methodology mentions 139.  'The findings may be helpful to policymakers in the decision to include Valencia in the current cropping pattern to increase potato production and food security in Bangladesh.' This sentence can be replaced with, 'The findings may be helpful to policymakers in the decision to promote the adoption of Valencia to increase potato production and food security in Bangladesh.'	
Are subsections and structure of the manuscript appropriate?	Yes. However, the subsection on Literature Review is missing.	
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.	Farmers favour the cultivation of crops which are economically viable to them. Since the Valencia variety is low cost, disease resistant, fetches higher price and has industrial uses, it is definitely economically viable. At the same time, due to lower harvesting period, it uses lesser water and hence is also environmentally sustainable. However, the yield of the Valencia variety does not show much difference vis a vis the traditional variety; in fact, it is lower. Hence, a more detailed analysis, for example calculating tonnage per acre a year for both Valencia and traditional varieties and comparing returns from both crops will help to arrive at a better understanding.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	The references are recent enough. However, a few references pertaining to literature review are also required.	
<b>Minor</b> REVISION comments		
Is the language/English quality of the article suitable for scholarly communications?	Unfortunately, no. Though the subject matter is good, the language calls for large scale revision.	
<b>Optional/General</b> comments	It will help if data is presented on the four parameters – Selling Price, Yield, Harvesting period, and Cost of Production. Simply presenting the mean and standard deviation is not giving the full picture. The data for the four varieties can be presented in tabular form as Appendix for those who would like to go into details.  The statement in the Introduction section, 'If the cropping pattern increases, the cropping intensity will also increase.', can be rephrased to 'The cropping pattern can be changed to increase cropping intensity.'	

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#### **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:**

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