Review Form 1.7

Journal Name:	**International Journal of Environment and Climate Change**
Manuscript Number:	**Ms_IJECC_98675**
Title of the Manuscript:	**Source-Sink Alterations in Rice Fallow Adaptive Blackgram Variety ADT3 for Enhancement of Yield and Quality of Seed**
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.journalijecc.com/index.php/IJECC/editorial-policy)

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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)**	**1-** Yes, this manuscript is important to the scientific community because it shows how foliar spraying of macro and micronutrients can help improve the yield and seed quality of the ancient black pea variety ADT3. The manuscript also explores the role of macro and micronutrients in plant development and their impact on seed yield and quality, which can be very useful for farmers. The results can also help in making decisions to improve seed yield and quality in relay crops and increase food production and security worldwide. **2-** Suggested title: Improving seed production and quality of the heat-sensitive variety ADT3 of rice pea with fallow cover by source-sink modifications **3-** No, the summary is not complete. The abstract does not provide enough detail on the methods and results of the study. Nor does it conclude on the implications of the study for food and nutrition security and the sustainability of the rice-lentil crop rotation. **4-** Yes, the subsections and structure of the manuscript are appropriate. The article begins with an introductory section that provides background and introduction to the topic. The next section presents the materials and methods used to conduct the study. The results are then presented and discussed. Finally, an overall conclusion is given. **5-** Yes, the manuscript seems to be scientifically correct. **6-** Additional suggestions: Bhagam P, Rao IM, and Merchant A. A Review of Source-Sink Relationships in Crop Plants and Their Influence on Yield Development, Nutrient Uptake, and Nutritional Quality. Frontiers in Plant Science. 2019; 10: 306. Rashmi P, PB Zareen, and J. Pretty. Sustainable Intensification of Agricultural Systems: A Global Perspective. Agricultural and Environmental Letters. 2020; 5(1): 1–6. Singh V, Nambiar P, and J. Singh. Sustainable Intensification of Agriculture in India: Challenges and Opportunities. Sustainability. 2017; 9(1): 126. Subramanian G, and M. Marimuthu. Effect of organic and inorganic sources of nutrients on growth and yield of blackgram (Vigna mungo L.) in a new delta zone, India. International Journal of Chemical Ecology. 2010; 8(2): 135–139. Kamble S, and K. Pandharipande. Effect of integrated nutrient management on growth and yield of blackgram (Vigna mungo L.) in vertisols. International Journal of Agriculture and Crop Sciences. 2018; 11(16): 799–803. Mukesh M, and P. Dubey. Effect of integrated nutrient management on growth, yield and quality of blackgram (Vigna mungo (L.) Hepper) in vertisols of Raigarh district, Chhattisgarh. Asian Journal of Agricultural Research. 2017; 11(4): 214–220. Kumar P, and V. Sharma. Effect of integrated nutrient management on growth, yield and economics of blackgram (Vigna mungo L.). International Journal of Agricultural Sciences and Research. 2016; 2(2): 8–12.	
Minor REVISION comments **1. Is language/English quality of the article suitable for scholarly communications?**	Yes, the quality of the language and English of the article is suitable for scholarly communication.	
Optional/General comments		

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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Reviewer Details:

Name:	**El Kbiach Mohammed L'bachir**
Department, University & Country	**Abdelmalek Essaadi University, Morocco**