Review Form 1.7

Journal Name:	**Asian Journal of Research in Crop Science**
Manuscript Number:	**Ms_AJRCS_112545**
Title of the Manuscript:	**Impact of Phosphorus Fertilization on Growth, Yield and Economic Efficiency of Cotton (Gossypium spp.) in Northeast Climate of Afghanistan**
Type of the Article	

Review Form 1.7

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** **2. Yes** **3. Yes** **4. Yes** **5. Yes** **6. Yes**	
Minor REVISION comments **1. Is language/English quality of the article suitable for scholarly communications?**	1. **Yes**	
Optional/General comments	**Impact of Phosphorus Fertilization on Growth, Yield and Economic Efficiency of Cotton (*Gossypium spp.)* in Northeast Climate of Afghanistan** During the 2023 cropping season, an extensive field experiment was conducted at Kunduz University's agronomic research farm, with the primary objective of investigating the effects of phosphorus fertilization on the growth, yield, and economic efficiency of cotton (Gossypium spp.) in the challenging Northeast Climate of Afghanistan. The experimental design employed was a Randomized Complete Block Design, incorporating three replications. Diverse treatments were implemented, spanning from the absolute control group to the application of 30 kg P2O5/ha, 60 kg P2O5/ha, and 90 kg P2O5/ha. The outcomes of the study unveiled that the treatment with 90 kg P2O5/ha exhibited the most favourable results across multiple parameters. This treatment demonstrated superior characteristics, including the highest values for plant height (98.44 cm), Leaf Area Index (2.78), Sympodial Branches/plant (12.88), Bolls/plant (27.66), lint cotton yield (1750 kg/ha), seed cotton yield (3979 kg/ha), lint cotton yield (182,742 AFN/ha), seed cotton yield (77,964 AFN/ha), gross return (260,707 AFN/ha), net return (209,867 AFN/ha), and B: Cost ratio (6). Following this, the phosphorus applications of 60 kg P2O5/ha, 30 kg P2O5/ha, and the absolute control treatment exhibited descending levels of performance. In conclusion, this extensive study underscores the critical importance of effective phosphorus fertilization in enhancing cotton production within the designated region. The findings strongly suggest that adopting optimal phosphorus application rates has the significant potential to improve overall cotton cultivation practices, leading to increased economic returns for farmers grappling with the formidable challenges posed by the Northeast Climate of Afghanistan. Given the positive impacts observed across diverse growth and yield parameters, there is a compelling case for considering this paper as a promising candidate for publication. The noteworthy insights derived from this research not only contribute to the existing body of knowledge but also hold practical	

	implications for agricultural practices in similar agro-climatic conditions. As such, the paper's potential to make a valuable and impactful contribution to the field warrants serious consideration for publication.	

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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