

Review Form 1.6

Journal Name:	International Journal of Plant & Soil Science
Manuscript Number:	Ms_IJPSS_89045
Title of the Manuscript:	Effect of Phosphorus and Boron levels on growth and yield of chickpea (Cicer arietinum L.)
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.journalijpss.com/index.php/IJPSS/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	<p>-Results obtained that Plant height (53.11 cm), number of nodules (44.56), dry weight (30.36 g/plant), number of pods/plant (52.67), number of seeds/pod (1.80), seed yield (2109.93 kg/ha), straw yield (3428.07 kg/ha), Test weight (225.67 g),</p> <p>-Harvest index (38.10%), were significantly influenced with treatment combination of Phosphorus 60 kg/ha + Boron 3 kg/ha.</p> <p>-Maximum net return of 84,516.0 INR/ha and B:C ratio 2.01 was recorded in treatment combination of phosphorus 60 kg/ha + Boron 3 kg/ha.</p> <p>-Therefore, treatment combination of phosphorus 60 kg/ha + Boron 3 kg/ha was most productive and cost effective.</p>	Noted and corrected
Minor REVISION comments	<p>-Chickpea crop meets 80% of its nitrogen (N) requirement from symbiotic nitrogen fixation and can fix up to 140 kg N ha from air. It leaves a substantial amount of residual nitrogen for subsequent crops and adds plenty of organic matter to maintain and improve soil health. Because of its deep tap root system, chickpeacan withstand extended periods of drought by extracting water from deeper layers of the soil (Gaur <i>et al.</i>, 2010)</p> <p>-Sufficient supply of phosphorus to plant, hastens the maturity and increases the rate of nodulationand pod development. Phosphorus also imparts hardline to shoot, improves the quality and regulates the photosynthesis and covers other physico-biochemical process. Most of the phosphors present in the soil is unavailable to plants which are made available through the activities of efficient micro-organisms like bacteria, fungi and even cyanobactin with production of organic acid and increasing phosphatase enzyme activity (Rajneesh Singh <i>et al.</i>, 2018)</p> <p>-Boron is a micronutrient plays an important role in increasing yieldof pulse legumes. It is very important in cell division and in pod and seed formation. Boron ranksthir d places among micronutrients in its concentration in seed and stem as well as its total amountafter zinc. Boron significantly affected the seed yield of chickpea. . Seed yield of chickpea increased with the application of boron @ 1.5- 2.5 kg ha. The application of boron resulted in a higher production of dry matter, due to an increaseof the dry weight of pods including seeds. (Alam <i>et al.</i>, 2017)</p>	Revision made
Optional/General comments	<p>-The treatments consisted of viz. Phosphorus 20 kg/ha, 40 kg/ha, 60 kg/ha and Boron 1 kg/ha, 2 kg/ha, 3 kg/ha.</p> <p>-The experiment was laid out in Randomized Block Design, nine treatments replicated thrice</p> <p>-The observations were recorded on different growth parameters at harvest viz. plant height (cm), number of nodulesper plant, plant dry weight, number of pods per plant, number of seeds per pod, test weight, seed yield and straw yield</p>	Corrected all mistakes

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?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	