Review Form 1.6

Journal Name:	**International Journal of Plant & Soil Science**
Manuscript Number:	**Ms_IJPSS_92999**
Title of the Manuscript:	**Effect of Irrigation Methods, Nutrient Management and Intercropping System on Grain Yield, Maize Equivalent Yield, Protein Content and Economics of Maize (Zea mays 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	**Please correct 10 errors in the abstract** **An experiment was conducted during the rabi season of 2020-21 at Tirhut College of Agriculture, Dholi (Dr. Rajendra Prasad Central Agricultural University, Pusa, Bihar). To study the effect of irrigation methods, nutrient management and intercropping system on grain yield, MEY, protein content and economics of maize (Zea mays L.). The growing of maize under drip irrigation recorded significantly higher grain yield (94.24 q/ha), MEY (116.72 q/ha), protein content (8.7%), gross returns (215942 ₹/ha), net returns (146679 ₹/ha) and B: C ratio (2.11) over furrow and surface irrigation. Application of nutrients as par STCR, recorded higher grain yield (92.38 q/ha), MEY (111.53 q/ha), protein content (8.57 %), gross returns (206343 ₹/ha) and net returns (134893 ₹/ha) as compared to RDF and SSNM whereas, highest B: C ratio was noticed under RDF (1.94). Increment in grain yield (5.50 % and 12.14 %), MEY (18.16% and 18.84%), protein content (4.58 % and 7.87%), gross returns (15.85% and 15.37%), net returns (19.8% and 21.59%) and B: C ratio (13.10% and 19.41%) were observed under vegetable pea over lentil and rajmash intercropping respectively. Overall results revealed that irrigation applied through drip method, nutrient management through STCR and maize + vegetable pea intercropping system is a promising option for higher productivity, quality and profitability of maize.** **Keywords: - Drip irrigation, Furrow irrigation, Soil test crop response, Site-specific nutrient management, Maize and Intercropping** **Introduction: -** **Globally, the area, production and productivity of maize are 184.8 million hectares (Mha), 1,070 million tonnes (Mt) and 5.62 tonnes/ha (t/ha), respectively (FAOSTAT, 2020)**	

Minor REVISION comments	The title is related to our journal framework. The entire manuscript must first be adjusted to the exact format of the journal. The abstract should be brief and useful. Rewrite the introduction.it is very poor Literature review means what studies have been done on the topic and what are you saying now. . The research method and data collection method should be clarified. *References should be written based on* *APA and powered*. Research limitations and suggestions for further studies should also be presented. The all text should be correction about grammar mistakes.	

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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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