

Review Form 1.7

Journal Name:	International Journal of Plant & Soil Science
Manuscript Number:	Ms_IJPSS_103247
Title of the Manuscript:	Integrated nutrient management on semi rabi green gram
Type of the Article	Original research paper

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:

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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)
<p>Compulsory REVISION comments</p> <ol style="list-style-type: none"> 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. <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<ol style="list-style-type: none"> 1. The manuscript adepts to the scope of International Journal of Plant & Soil Science and its importance is based on the analysis of nutrient management influencing the green gram development. 2. The title is suitable. 3. The abstract is comprehensive. 4. The subsections must be numbered. 5. The manuscript is scientifically correct. 6. The references are sufficient and most of them are recent. It is necessary to follow the Author Guidelines structure: 1. Hilly M, Adams ML, Nelson SC. A study of digit fusion in the mouse embryo. Clin Exp Allergy. 2002;32(4):489-98. Note: List the first six authors followed by et al. Note: Use of DOI number for the full-text article is encouraged. (if available). Note: Authors are also encouraged to add other database's unique identifier (like PUBMED ID). - In the reference list, correct 'Gohine' to 'Gohain' - In the text, citations must be indicated by the reference number in brackets [x]. 	
<p>Minor REVISION comments</p> <ol style="list-style-type: none"> 1. Is language/English quality of the article suitable for scholarly communications? 	<ol style="list-style-type: none"> 1. The language is suitable for scholarly communications. <p><u>Below are comments and suggestions to improve the text.</u></p> <p>Abstract - Format all "Rhizobium" to italics. - Format all '5ml' – separate number and unity. - "...nutrient management and bio-fertilizer treatments..." – biofertilizer.</p> <p>Introduction - "India is a largest producer of Pulses (Joshi et al., 2016 and Kavya et al., 2021) and its universally utilized as food legumes, which come in second position in terms of produce and utilization after cereals. Being an essential component of the food of the great majority of vegetarians and the foundation of sustainable agricultural production" - "India is a large producer of pulses [x], which are universally used as food and reach second position in terms of production and utilization after cereals; being an essential food of the great majority of vegetarians and the foundation of sustainable agricultural production". - "For livelihood activities, about 65-70 % ..." – 65-70%. - "Nearly agricultural contribute 17% of domestic growth" – "Nearly, agriculture contributes 17% of domestic growth". - "Pulses have a rich in protein..." – have a rich content in. - "...carbohydrate (51 %) and minerals..." – 51%. - "...zinc, magnesium and also having essential..." – "...zinc and magnesium; also having essential...". - "Due to its many uses, Green gram is a major..." – lowercase letter.</p>	

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	<ul style="list-style-type: none">- "...human consumption, mainly vegetarian peoples are used due to ani nutritional factors" – "...human consumption; mainly by vegetarian people due to nutritional factors.- "into soi and ultimately to improve soil fertility so, it's called as mini natural fertilizer factory (Makwana <i>et al.</i>, 2020)" – "...into soil and ultimately to improve soil fertility, being recognized as mini natural fertilizer factory [x]".- "Pulses are called "Marvel of Nature". Pulse are the fundamental sources of protein and having around 14% of the total protein in the typical Indian diet is provided by pulses. Pulses are cultivated in <i>kharif, rabi</i> as well as summer season" – "Pulses are called "marvel of nature" and are cultivated in <i>kharif, rabi</i> as well as summer season. They are pointed out as fundamental sources of protein, presenting 14% of total protein in the typical Indian diet".- "As a third important pulse crops, its utilized vegetable, pulse, fodder as well as green manuring in the India (Saravanan <i>et al.</i>, 2013)" – "As a third important pulse crops, can be used as vegetables, fodder and green manuring in India [x]".- "Its seed is more palatable..." – "Pulse seed is more palatable...".- "In current Agriculture system, based on chemical is not sustainable become of soil erosion, associated plant nutrient losses, surface, and ground water pollution from agro-chemical and sediment impending shortage of non-renewable resources so low farm income from higher cost (Joshi <i>et al.</i>, 2016)" – "In current agriculture system, chemical products can demonstrate a lack of sustainability and generate harmful effects such as soil erosion, associated plant nutrient losses, surface and ground water pollution from agrochemical and sediment; also affecting the low farm income from higher cost [x]".- "Green gram is a staple meal that is high in protein. It has a protein content of roughly 25%, which is about..." – "Green gram is a staple meal that has a protein content of roughly 25%, which is about...".- "...without the use of bio-fertilizers or any other supplemental..." – biofertilizers.- "...yield as well as the physico chemical aspects..." - physicochemical/physico-chemical.- "...output and, ultimately soil health (Mishra <i>et al.</i>, 2023)" - "...output and, ultimately, soil health [x]".- "Organic manure involves both micro..." – No bold formatting.- "...population balance. Reduce soil erosion and increase..." – "...population balance. Furthermore, reduce soil erosion and increase...".- "As a result, this research was designed to examine ..." – "This research was designed to examine (avoid repeating "as a result")".- "...production, quality, and economics ..." – "...production, quality and economics...". <p>Methodology</p> <ul style="list-style-type: none">- Fig. 1 should be presented next to the paragraph which it was cited.- "(T₁) 100% RDF(20:40:0 kg NPK ha⁻¹)" – spacing.- "(T₂) 100% N through FYM" – farmyard manure (FYM).- "The inputs nutrient was analyzed before sowing (FYM, vermicompost, Castor cake containing 0.32, 1.21 and 3.24 % N, respectively)..." – lowercase letter; 3.24%.- "...into the soil, Rhizobium was used as a seed treatment, and Bio NPK Consortium was applied..." – italics formatting; lowercase letter. <p>Results and Discussion</p> <p>Response on growth attributes</p> <ul style="list-style-type: none">- "(T₆) reported significantly higher plant height (52.32 and 54.33 cm at 60 DAS..." – DAS meaning. Days after seedling?- "By using organic manures and biofertilizers, which enhanced growth of green gram" - "The use of organic manures and biofertilizers enhanced green gram growth.- "...result, it is well recognized that organic..." – "...result; it is well recognized that organic...".- "According to the findings, Adding manure..." – lowercase letter.- "...improved due to higher microbial availability, and activities..." – "...availability and activities...". <p>Effect of treatment on yield attributes and yield</p> <ul style="list-style-type: none">- "...and their combinations. (Table 2 & Fig.1)" – "...and their combinations (Table 2 and Fig. 1).- "Significantly maximum seed (1481 kg ha⁻¹) and straw (2008 kg ha⁻¹) yield than rest of treatments (Fig.1)" – "...treatments (Fig. 1) were observed.	
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	<p>- "... (5ml kg⁻¹ seed) of <i>Rhizobium</i> + Bio NPK consortium 1L ha⁻¹) reported 12.48 % higher seed yield" – 12.48%.</p> <p>- "...better nitrogen fixation. (Shete <i>et al.</i>, 2010) and better development of plant growth leading to higher photosynthesis activity and translocation of photosynthesis to the sing which is turn resulted in better development of yield attributes and finally higher seed yield (Ravikumar <i>et al.</i>, 2012)" – "...better nitrogen fixation [x]. The development of plant growth leading to higher photosynthesis activity and translocation resulted in improvement of yield attributes and finally higher seed yield [y]"</p> <p>- "...test weight to improved yield resulted in a greater..." – resulting.</p> <p>Quality parameters</p> <p>- "...absorb more nutrients. resulted in higher..." – "...nutrients, resulting..."</p> <p>- "In general, The use of organic manure alone or combinations with <i>rhizobium</i> and PSB..." – "In general, the use of organic manure alone or combined with <i>Rhizobium</i> and PSB..."</p> <p>- "ascribed to improved soil fertility..." – Part of the phrase was cut out.</p> <p>- "Significantly higher protein content by application of integrated organic manures treatment. It might be due to the fact that nitrogen from organic manures was continuously available to the crop at all stages of the crop growth, due to slow release of nitrogen through organic sources. Then, resulting later stage nitrogen availability through increased protein content in seed" – "The significantly protein content by application of integrated organic manures treatments might be due to nitrogen levels are continuously available at all stages of the crop growth; culminating in slow release of nitrogen through organic sources and resulting in later increased protein content in seed".</p> <p>Economics</p> <p>- "Results presented in Table-2 indicated..." – Table 2.</p> <p>- "...respectively which could be due..." – "...respectively, which could be..."</p> <p>Conclusion</p> <p>- "...use of the organic sources for fulfilling..." – "...the use of organic sources..."</p> <p>- "...consortium 1L ha⁻¹ gave significantly, higher seed yield..." – "...significantly seed yield..."</p>	
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?	<u>(If yes, Kindly please write down the ethical issues here in details)</u>	

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