



SDI Review Form 1.6

Journal Name:	International Journal of Plant & Soil Science
Manuscript Number:	Ms_IJPSS_44298
Title of the Manuscript:	Effect of molybdenum on nitrate reductase and glutamine synthetase in greengram (Vigna radiata) grown in acidic low land soils of Pudukottai region in Tamil Nadu
Type of the 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:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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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	Title: I suggest reducing the title of the paper to facilitate the reader's understanding. Abstract: Explain the acronym "SAT". Keywords: It is not recommended to use the words used in the title in the keywords. Introduction: Some information in the introduction was not clear: 1) What is the importance of molybdenum for the culture of the greengram; 2) What is the economic / social importance of the culture of the greengram for the country / region and 3) What is the area cultivated and the average production in the country / region. In addition, the introduction needs to be totally redesigned as far as its structure is concerned. Materials and Methods: Authors should classify the soil according to an international system (eg USDA). The soil particle size analysis was not presented. There are loose figures that should be referenced in the text as to their importance. In addition, it would be important to know the soil organic matter content. The authors did not indicate the experimental design used. Results and Discussion: The authors report that they did the statistical analysis of the data, but did not discuss whether or not there was a significant difference in the data. Discuss more about the positive effect of molybdenum in the increase in root length and increasing the number of nodules. Explain better and discuss based on literature data the following sentence: "The correlation ($r^2 = 0.95$) between glutamine synthetase (GS) activities and Mo application is comparable to that of NR activity (fig. 3)." I suggest the authors indicate with arrows figure 2 the nodules. Conclusion: I suggest to the authors based on the results of this study, indicate a Mo doses for application in the greengram culture	
Minor REVISION comments		
Optional/General comments	The article discusses the effect of molybdenum on nitrate reductase and glutamine synthetase in greengram (Vigna radiata) grown in acidic low land soils of Pudukottai region in Tamil Nadu. The article is interesting as to its purpose, but there are problems mainly in the materials and methods and in the results and discussion that must be explained.	

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:

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