



SDI Review Form 1.6

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| Journal Name: | Current Journal of Applied Science and Technology |
| Manuscript Number: | Ms_CJAST_54269 |
| Title of the Manuscript: | Effect of Zn and B on the growth and nutrient uptake in groundnut |
| 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:

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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) |
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| Compulsory REVISION comments | | |
| Minor REVISION comments | <p>Abstract "To investigate the effect of combination between foliar zinc and boron on growth, nutrient uptake and its accumulation in pods and ultimately the yield of groundnut."....I suggest to reformulate the objective as : To investigate the effect of combination between foliar zinc and boron on groundnut growth, yield, nutrient uptake and its accumulation in pods. Too much space in text. Delete additional space in ... of Zn (0, 0.5 and 0.75 % Zn),.....; ... Zn increased.....;(18.8 %),... and other parts in the text highlighted in yellow color</p> <p>Introduction "The main constraint for low yield of groundnut is connected with the deficiency of micronutrients." Quote this statement. There are many constraints for low yield of groundnut but state that low yield of groundnut is due to the deficiency of micronutrients mainly should be referenced. I propose authors "One of the major constraints for low yield of groundnut relates to deficiency of micronutrients." Now-a days zinc deficiency is virtually an all India problem and in West Bengal 9-68 % of soils are Zn deficient [3]. Spelling error...Nowadays</p> <p>MATERIAL AND METHODS In Table 1, there is a typing error... "capacity" instead of capacity</p> <p>2.3. Treatments Any explanation why the authors decided to use only those ranges of fertilizer dose applied in this study? Please add the reason of these choices to be more precise Better to present the list of treatments in table It is missing in material and methods, information (data) on soil moisture, irrigation water quantity applied and temperature during experiment.</p> <p>2.4.6. Leaf area The green leaf portions were separated and the area of the leaves was measured in graphical method. Mean value per plant was multiplied with leaf number to get total leaf area of the plant. Multiply the mean value with leaf number indicates that the measurement was made on a sample of leaves. Clearly state this in the text. And at which stage this parameter was recorded?</p> <p>2.4.7. Chlorophyll content Chlorophyll a = .0127*663-.00269*645 Chlorophyll b = .0229*645-.00468*663 The meaning of .0127, 00269, .0229, .00468 in the formula? Are they constants? Mention it under formula</p> <p>3. RESULTS AND DISCUSSION 3.1. Plant height The effect of Zn and B on plant height of groundnut is depicted in Fig. 1 the plant height of groundnut increased with the age of the crop and attained maximum at harvest. It misses a punctuation in the sentence, "." after Fig.1 ... though, the sole application of B did not have any effect on plant height during the entire growth phase[17]. Uppercase letter at the beginning of the sentence</p> | <p>Corrected as : Aims: To investigate the effect of combination between foliar zinc and boron on groundnut growth, yield, nutrient uptake and its accumulation in pods.</p> <p>Inappropriate space has been removed</p> <p>Corrected as : One of the major constraints for low yield of groundnut relates to deficiency of micronutrients.</p> <p>Corrected as : Nowadays</p> <p>Corrected as: Capacity</p> <p>As in most of the study Zn and B were applied 0.5% and 0.3 %, respectively; we want to show the effect of less and elevated dose with different combinations on groundnut.</p> <p>Corrected as: Soil moisture content in all pots was kept at field capacity (25-30% v/v basis) during the experiment. Mean maximum and minimum temperature during the study were 35°C and 18°C, respectively.</p> <p>Corrected as: The leaf area of each plant was taken during vegetative, flowering and harvesting stages. First, the green leaf portions were separated and the area of the leaves was measured in graphical method. Mean value of three leaf samples collected from top middle and lower portion of plant was calculated. Then this mean value per plant was multiplied with leaf number to get total leaf area of the plant.</p> |



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| | <p>Fig.1, Please make more space between histogram and letter for comparison. Put a legend under the figure (define Z0, Z1,). The comparison is made considering each growing stage. It should be better to mention it in the legend. This will allow reader to avoid confusion in the comparison since the same letters are used both for flowering and harvest stages</p> <p>3.2. Leaf area per plant ... This might be due to positive interaction between Zn, B and S which was corroborated... Where does "Sulfur, S" come from? Your study focused on Zn and B.</p> <p>3.3. Chlorophyll content ... Duyingqiong et al. (2002) similarly found that B significantly improved chlorophyll content and photosynthetic activity in leaves[20]... No need to quote again Duyingqiong et al. (2002) at the end of the sentence. ... Saini et al. (1975) that application of Zn increased chlorophyll content in leaves[21]... Same remark. Is it the journal instruction to cite authors like this? Citation number should replace the year. Ex : Duyingqiong et al. [20] similarly found that B significantly improved chlorophyll content and photosynthetic activity in leaves</p> <p>3.6. Yield should be 3.7 Yield, please correct it.</p> <p>4. CONCLUSION This study investigated that the omitting of Zn and B retarded plant growth, reduced nutrient uptake and ultimately the yield. Investigated is not appropriate, please use "showed".</p> | <p>Corrected as: 0.0127, 0.00269, 0.0229 and 0.00468 formed by the extinction coefficients of chlorophyll a and chlorophyll b</p> <p>Corrected as: The effect of Zn and B on plant height of groundnut is depicted in Fig. 1. The plant height of groundnut increased with the age of the crop and attained maximum at harvest.</p> <p>Corrected as: Though, the sole application of B did not have any effect on plant height during the entire growth phase [17].</p> <p>Fig. 1 has been modified as said.</p> <p>This sentence has been removed and the following has been added: This might be due to the synergistic interaction between Zn and B which was corroborated with findings of Sinha et al. (2000) in mustard [18].</p> <p>Corrected as: Duyingqiong et al. [19] similarly found that B significantly improved chlorophyll content and photosynthetic activity in leaves .</p> <p>Corrected as: This is supported by the result of Saini et al. [20] that application of Zn increased chlorophyll content in leaves.</p> <p>This has been corrected.</p> <p>Corrected as: This study showed that the omitting of Zn and B retarded plant growth, reduced nutrient uptake and ultimately the yield.</p> |
| <p>Optional/General comments</p> | <p>Good contribution, suits the journal's aim and scope well.</p> | |

PART 2:

| | <p>Reviewer's comment</p> | <p>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> |
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| <p>Are there ethical issues in this manuscript?</p> | <p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p> | |