



SDI Review Form 1.6

Journal Name:	Current Journal of Applied Science and Technology
Manuscript Number:	Ms_CJAST_49049
Title of the Manuscript:	Effect of bio-fungicides on seed quality parameters and disease control in chilli seeds infected with Colletotrichum capsici
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:

(<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	<p>TITLE- Effect of bio-fungicides on seed quality parameters and disease control in chilli seeds infected with Colletotrichum capsici</p> <ul style="list-style-type: none"> - Use the term "seedling" rather than "seed" in the title. It is strongly suggested to rewrite the title according to the objective stated at the end of the INTRODUCTION. - Suggested title—"Efficiency of bio-fungicides (<i>Trichoderma spp</i> and <i>Pseudomonas fluorescens</i>) on seedling emergence, vigour and health of infected chilli seeds (<i>Capsicum annuum</i>) by <i>Colletotrichum capsici</i>". <p>ABSTRACT</p> <ul style="list-style-type: none"> - Provide more details about the experimental treatments and controls (nine total) and the response variables (seedling emergence, vigour and infection). - Summary conclusions should not imply production scenarios- only seedling emergence, health, and vigour. - Review English grammar and spelling across the manuscript (e.g. thrice - three times) <p>MATERIALS AND METHODS</p> <ul style="list-style-type: none"> - Explain both Blotter or Lab and Pot methods - Explain how sedes were infected with <i>Colletotrichum capsici</i> - Explain how sedes were treated with simple and combined bio-fungicides - Explain how sedes were treated with Carbendazim - Explain the 9 treatments - use a table to show the simple and combined treatments, and all controls, origin of bio-fungicides, dose, etc. Consider the term "non-infected" seed rather than "healthy" seed. Here the authors must distinguish among "treated", "infected" and "healthy" or "uninfected" seeds. Specify that healthy sedes only treated with bio-fungicides were not included in the study (these treatments are usually included to evaluate the beneficial effects of microorganisms (<i>Trichoderma spp</i> and <i>Pseudomonas fluorescens</i>) on uninfected seedlings). - Define BOD - Explain if the 16 petriplates (16 x 25 seeds = 400 seeds) were arranged as a complete block with 8 experimental treatments. It is not clear how many control treatments were included. - Pot experiment - 16 replications or 3 replications? Same with lab experiment. - Provide information of Soil characteristics in the pot experiment - Explain the formula for Disease control - units and meaning of Treatment & Control - Seed germination should be replaced by seedling emergence in the pot experiment - Include a section to explain Statistical data analysis and provide more details of the statistical tests. - Only ANOVAs were performed? The authors must focus on proper comparisons between simple and combined experimental treatments (bio-fungicides) and specific controls (untreated healthy seed, untreated infected seed, Carbendazim treated infected seed). <p>RESULT AND DISCUSSION</p>	<ul style="list-style-type: none"> - The term seed has been replaced with seedling. - The title has been modified as per the appropriate suggestion. - In the abstract, details have been provided about the seedling emergence, vigour and disease incidence. - Conclusions with production scenario have been deleted. - Grammar has been corrected and replaced thrice with three times. - The blotter and pot methods have been explained and incorporated accordingly in the text. - The seed infection with <i>Colletotrichum capsici</i> and seed treatment with bio-fungicides and carbendazim are explained clearly in the text. - The treatments are explained in the table 1. - Origin of the bio-fungicides and dose are incorporated in the table 1 and also given as footnote. - The "healthy" seed is renamed as "non-infected" seed. Infected refers to <i>Colletotrichum capsici</i> and treated refers to bio-fungicides or carbendazim treatment. - The healthy seed is non-infected with <i>Colletotrichum capsici</i> and also not treated with bio-fungicides. - 25 seeds were placed in petri dish and 16 petri dishes were maintained per replication. Similarly, 25 seeds were sown in each pot and 8 pots per replication were maintained. These are incorporated in the text. - The soil characteristics have been included in the text. - Explanation for formula for calculation of disease is incorporated. - Units have been included and seed germination has been replaced by seedling emergence in the pot experiment. - Statistical test followed was CRD as the two experiments are different and to compare the treatments, separate alphabets for significance have been incorporated in the tables. - Seed germination in blotter method and seedling emergence in pot culture has been used. - Significance level of P < 0.05 - Significance is incorporated with alphabets for easy differentiation of treatments. This refers to all the parameters.



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	<ul style="list-style-type: none"> Seed germination - use the term "seedling" emergence in pot experiment and seed germination in Lab experiment. Show the significance level or p-value for every comparison mentioned in the text Table 1 – must run and include statistical tests to compare experimental treatments against the controls within Lab and Pot Experiments. Define CD, SEM, and C.V. Seed quality parameters - must be seedling development and health Seedling vigour - Show the significance level or p-value for every comparison in the text. Table 2 – must run and include statistical tests to compare experimental treatments against the controls within Lab and Pot Experiments. Define CD, SEM, and C.V. Disease infection and Disease control - Show the significance level or p-value for every comparison in the text. Table 3 – must run and include statistical tests to compare experimental treatments against the controls within Lab and Pot Experiments. Define CD, SEM, and C.V. This manuscript provides interesting results, but proper statistical tests must be included as part of the data analysis to sustain the 'significant' differences and conclusions provided by authors. 	<ul style="list-style-type: none"> Significance is incorporated with alphabets for easy differentiation of treatments. This refers to all the parameters. Significance is incorporated with alphabets for easy differentiation of treatments. This refers to all the parameters. The data is provided with statistical significance using the CRD design as the experimental conditions are homogeneous both in blotter and pot culture experiments. However, for more clarity and easiness, alphabets for comparison have been incorporated in the tables.
Minor REVISION comments		
Optional/General comments	The information and results of this manuscript are very valuable and a great contribution to the scientific community. However, the results should be complemented and sustained with proper statistical tests and significant p-values. In addition, the authors should focus the analysis on specific research questions based on specific control treatments. Also, a revision of the whole manuscript should be performed for clear scientific English.	<ul style="list-style-type: none"> The manuscript has been revised with appropriate incorporations as suggested above.

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>	No ethical issues