Review Form 1.7

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_110218
Title of the Manuscript:	Integrated management of Charcoal rot and its influence on seed yield and quality in soybean
Type of the Article	Original Research Article

Created by: DR Checked by: PM Approved by: MBM Version: 1.7 (15-12-2022)

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PART 1: Review Comments

Communicative DEVICION communication	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			Formatted: Font: (Default) Arial, 1
Is the manuscript important for scientific community? (Please write few sentences on this manuscript)	Yes, it is an important for scientific community and soybean procedures.		Formatted: Font: (Default) Arial, 1
2. Is the title of the article suitable?			Formatted: Font: (Default) Arial, 1
(If not please suggest an alternative title)	The title of the article seemed good, but need to add causal organism of the disease like 'Integrated management of macrophomina phaseolina (charcoal rot) and its influence on seed yield and quality		Formatted: Font: (Default) Arial, 1
	in soybean'.		Formatted: Font: (Default) Arial, 1 (United Kingdom)
3. Is the abstract of the article comprehensive?	The abstract part seemed good, but it needed some clarity on its methodology, design, place		Formatted: Font: (Default) Arial, 1
	and duration of study or year. Please improve these separately.		Formatted: Font: (Default) Arial
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	I have tr <u>iedy</u> to improve the abstract as:		Formatted: Font: (Default) Arial
	The Ccharcoal rot (Macrophomina phaseolina) causes high grain yield loss in top soybean-growing		Formatted: Font: (Default) Arial, 1
	nations worldwide. The present study aimed to reveal the effect of stage-wise charcoal rot incidence and their root and stem severity index on the yield criteria of soybean varieties Additionally, an attempt was made to derive integrated management practices and their influence		
	en seed quality. Please add here some information regarding methodology, design, place and		Formatted: Font: (Default) Arial, 1
	<u>duration of study or year,</u> —All the twelve varieties were affected by charcoal rot, and its incidence and root and stem severity index were high in Shivalik (48.5% and 3.7, respectively). In		Formatted: Font: (Default) Arial
	yield estimation, the percentage of yield loss ranged from 8.7% (JS 20-98) to 53.9% (Shivalik). the		Formatted: Font: (Default) Arial, 1
	percent Per cent yield loss had a strong, significant positive relation with to per-cent of incidence (0.912**) and Reet root and setem severity index (0.813**) of charcoal rot. The Seed treatment of Penflufen 13.28% + Trifloxystrobin 13.28% FS @ 1ml/kg followed by spraying of tebuconazole 25% EC @ 0.1% spraying at 45,60 and 75 days was significantly superior in reducing charcoal rot (19.7%) in comparison to untreated (37.3%). The highest seed germination (80.0 %) and least association with M. phaseolina (13.33%), Aspergillus flavus (3.33%), Fusarium sp., (13.34%) in comparison to control (50, 36.67, 23.33 and 36.67%, respectively) were also resulted from the seed obtained from above treatment. In bio-agent, seed treatment of T. harzianum @ 10 gm/kg followed by foliar spray of tebuconazole-Tebuconazole 25% EC @ 0.1% at 45,60,75 days was the		Formatted: Font: (Default) Arial, : Highlight
	second-best combination among all treatments in all respects. Please improve this sentance		Formatted: Font: 10 pt, Bold
	The effect of these fungicides and bio agents as seed treatment also improved the number of branches, pods, 100 seed weight and yield. Hence, these combinations could be applied to		Formatted: Font: (Default) Arial, 1
	minimize charcoal rot and yield losses in soybean.		Formatted: Font: (Default) Arial, 1
	Keywords: Associated mycoflora; charcoal rot; incidence; management; yield loss		Formatted: Font: (Default) Arial, N Italic
	Negwords. Associated ingeomora, graneoarrot, greatence, management, gett loss		Formatted: Font: (Default) Arial
4. Are subsections and structure of the manuscript appropriate?	The subsections and structure of the manuscript looks appropriate, but please fallow the journal guidelines while writing the subsections, <i>i.e.</i> 1. INTRODUCTION , 2. MATERIALS AND METHODS ,		Formatted: Font: (Default) Arial, 1 Bold, Italic
	<u>2.1</u>		Formatted: Font: (Default) Arial, 1
	Though it looks good, but need to write separately the results and discussion parts.		Formatted: Font: (Default) Arial, 1
	Please add the missing information, as: acknowledgements and funding sources, ethical approval,		Formatted: Font: (Default) Arial, 1
	competing interests, etc. in the article.		Formatted: Font: (Default) Arial, 1
5. Do you think the manuscript is scientifically correct?	Yes, it is scientifically correct, but needs some minor correction/revision on it.		Formatted: Font: (Default) Arial, 1
6. Are the references sufficient and recent? If you have suggestion of	References are sufficient and most of are recent, but need to write according to journal guidelines.		Formatted: Font: (Default) Arial, 1
additional references, please mention in the review form.	Additionally, an attempt was made to derive integrated management practices and their		Formatted: Font: (Default) Arial, 1

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(Apart from above mentioned 6 points, reviewers are free to provide	influence on seed quality no need to. All the twelve varieties were affected by charcoal rot, and	
additional suggestions/comments)	its incidence and root and stem severity index were high in Shivalik (48.5% and 3.7, respectively).	
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	could be applied to minimize charcoal rot and yield losses in soybean.	
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Mirror DEVICION Assessment		
Minor REVISION comments		
Is language/English quality of the article suitable for scholarly		
communications?	Its' fine, but would like to request for correction on it, if needed.	
Optional/General comments	Please, follow the referencing style of the journal. References style should be consistent.	
optional contract	Also, revisit the manuscript and made necessary correction for improving the sentences. Please	•
	fallow the journal guidelines/format,	

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PART 2:

		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)	

Reviewer Details:

Name:	Anil Pokhrel
Department, University & Country	Nepal

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