

Review Form 1.7

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_104250
Title of the Manuscript:	Optimization of Operational Parameters for Tractor-Operated Boom Sprayer for Field Crops
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:

(<https://www.journalijecc.com/index.php/IJECC/editorial-policy>)

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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> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>1. Yes. There are many tractor operated commercial boom sprayers are available in Indian market and elsewhere. Need to justify why this study was carried out.</p> <p>2. The title of the article may be modified as 'Development and Optimization of Operational Parameters for Tractor-Operated Boom Sprayer for Field Crops</p> <p>3. Yes</p> <p>4. Yes</p> <p>5. Yes</p> <p>No. In Introduction, some references on boom sprayers of Indian subcontinent may be added to justify of the present study.</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	Yes	
<p>Optional/General comments</p>	<p>This is a good piece of research work relevant to the field of farm machinery. The farmers/users may be benefitted using this boom sprayer. However, the reviewer observes the following limitations during reviewing the article.</p> <ol style="list-style-type: none"> Where and when the study was conducted, need to be describe Not tested in crop field, so efficacy of the equipment could not be evaluated Spraying uniformity, efficiency and wastage reduction were not measured but claimed in the Abstract. If data available, may be added otherwise deleted. Which type of spray nozzle used for testing? may specify. Overlap is high as 43%, if it is acceptable justify with reference. Important parameters of sprayer testing are droplet size, spray pattern, spray uniformity, etc. If data available, may be added to improve the quality of the paper. Some comments/suggestions are given in the body of the paper, should be addressed. 	

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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