



**SDI Review Form 1.6**

Journal Name:	<a href="#">International Journal of Plant &amp; Soil Science</a>
Manuscript Number:	Ms_IJPSS_51266
Title of the Manuscript:	INFLUENCE OF ORGANIC AND INORGANIC SOIL AMENDMENTS ON SOIL MOISTURE CONTENT AND MICRONUTRIENTS
Type of the Article	Original Research Article

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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)
<b>Compulsory</b> REVISION comments	See The Attached File	
<b>Minor</b> REVISION comments		<p>Abstract</p> <p>-Deleted in abstract: with an aim of soil water retention and nutrients improvement</p> <p><b>2.3 Preparation of Soil Amendments</b></p> <p>Fresh leaves of cabbage plant residues (Brassicaceae Tissue) (Glucosinolate), were finely chopped and incorporated into the soil at a depth of 20 cm, at the rate of 3969 g per 2.4 m x3.75 m plot (4355.56 kg/ha), The inoculated soil was thoroughly mixed with the finely chopped cabbage plant residue, ensuring that all the residues were well incorporated in the soil. Freshly dried finely chopped peels of orange plant (90 % monoterpenes and d-limonene) residues were incorporated into the soil at a depth of 20 cm, at the rate of 3969 g per 2.4 m x3.75 m plot (4355.56 kg/ha). The inoculated soil was thoroughly mixed with the finely chopped orange peels residues; ensuring that all the residues were well incorporated in the soil. Metham sodium (dithiocarbamate), a chemical fumigant was applied in 12 plots of 2.4 m x 3.75 m at the rate of 200 ml/m<sup>2</sup> i.e. (1800 ml in 9 L of water). This was the positive control. This was done in each of the 6 furrows where each furrow received 1800 ml of the mixture (10.800 L), approximately 2000 L/ha. The sprayed furrows were thereafter covered with soil awaiting three weeks to the planting of the test crops. Chalim™ (Calcium hypochlorite) effect was assessed in the inoculated field after application at the rate of 227.81 g per 2.4 m x 3.75 m plot (250 kg/ha). Super-hydro-grow polymer (sodium polyacrylate) was applied in 12 plots of 2.4 m x 3.75 m at the rate of 200 ml/m<sup>2</sup> using knap-sack sprayer. Combination of Chalim™ (Calcium hypochlorite) + Super-hydro-grow polymer (sodium polyacrylate) was applied at the rate of 227.81 g per 2.4 m x3.75 m plot (250 kg/ha) and 2.4 m x 3.75 m at the rate of 200 ml/m<sup>2</sup> respectively. Metham sodium (dithiocarbamate) + Super-hydro-grow polymer (sodium polyacrylate) was applied in a 2.4 m x 3.75 m plot at the rate of 200 ml/m<sup>2</sup> and 3969 g per 2.4 m x3.75 m plot (4355.56 kg/ha). Metham sodium (dithiocarbamate) + Orange peel (90 % monoterpenes and d-limonene) treatment was applied in a 2.4 m x 3.75 m at the rate of 200 ml/m<sup>2</sup> and Orange peel rate of 3969 g per 2.4 m x3.75 m plot (4355.56 kg/ha). Brassica tissue + Orange peel treatment were applied at a rate of 3969 g per 2.4 m x3.75 m plot (4355.56 kg/ha) and Orange peel (90 % monoterpenes and d-limonene) at a rate of 3969 g per 2.4 m x3.75 m plot (4355.56 kg/ha) respectively. Pre-determined concentrations of all the amendments were applied per furrow and the crop of interest planted.</p> <p>Moved to conclusion:</p> <p>It is therefore recommended that Metham sodium should not be applied in very dry soil to avoid reduction of the moisture content.</p>



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Optional/General comments		
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**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>	