

Review Form 1.6

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_79886
Title of the Manuscript:	Performance of Super Absorbent Polymer and Humic Acid on Maize Yield and Uptake under Rainfed Alfisols
Type of the 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.journalijpss.com/index.php/IJPSS/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>This paper actually relates to soil physical, and chemical perspective. Hydrogel is associated to soil physics, and Humic acid is attributed to soil chemistry point of view. Both aspects should be considered to make this paper more valuable and high grade</p>	<ul style="list-style-type: none"> ❖ It would be so comprehensive information, if author could add extra information on how hydrogel can improve soil water holding capacity, on sandy or clay soils (put on Introduction, as well as on Discussion) ❖ Experiment was conducted on slight acid Alfisols, and it had indicated positive effect on nutrient uptake , particularly N and P. It would be so interesting discussion, if author put extra explanation why and how organic acid and hydrogel can increase solubility and availability of phosphate and nitrogen in soils particularly Alfisols. In this case the soils was slightly acid (PH<7.0) which is reasonable for Alfisols. ❖ It seems that there was interaction between Hydrogel and Humic acid. If it was the case, then author could explore how is mechanism of the interaction. For sure readers will get scientific advantages from this article. ❖ LSD-test was used to prove the difference between treatments. In presenting the output of ANOVA on results, It is common to put NOTATION using latter (a, b, c, ab or abc) after mean value of each treatment. This system is to make it easy for readers to recognize which treatment are statistically similar or different. ❖ Academic reader are commonly interested in reading papers which are written in a simple sentence and straight forward. Please do effective writing to make it easy for reader to pick the point. 	
<p>Minor REVISION comments</p> <p>Title of paper is one of the most attractive part of scientific writing. Therefore, Every single word on title must be precise and meaningful.</p>	<p>In this article, word “Performance” of was in appropriate in regard to parameters, such as nutrient uptake or nutrients in plant tissues and crop yield components. Except if the parameter were related to soil characteristics which are directly affected by hydrogel and humic acid. In this case, use “ EFFECT of would be relevant with parameters.</p>	
<p>Optional/General comments</p> <p>Topic of this article is important for mitigation of climate change and for soil water management in dryland agriculture.</p>	<p>This paper was produced through a properly designed field experiment by trusty researchers on their field (expertise) . Academic readers and practical agriculturalists would get benefit from reading a such valuable paper which is well organized and straight forward .</p>	

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PART 2:

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

Reviewer Details:

Name:	Mahrup Warige
Department, University & Country	Mataram University, Indonesia