

**Review Form 1.7**

Journal Name:	<b>International Journal of Environment and Climate Change</b>
Manuscript Number:	<b>Ms_IJECC_111799</b>
Title of the Manuscript:	<b>Effect of phytohormones on shoot proliferation of Doubled haploid lines of African marigold (Tagetes erecta L.)</b>
Type of the Article	

**PART 1: Review Comments**

	<b>Reviewer's comment</b>	<b>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>
<p><b>Compulsory</b> REVISION comments</p> <ol style="list-style-type: none"> <li><b>Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</li> <li><b>Is the title of the article suitable?</b> (If not please suggest an alternative title)</li> <li><b>Is the abstract of the article comprehensive?</b></li> <li><b>Are subsections and structure of the manuscript appropriate?</b></li> <li><b>Do you think the manuscript is scientifically correct?</b></li> <li><b>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></li> </ol> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<ol style="list-style-type: none"> <li><b>Diploidization of haploid plants is very important to raise homozygous diploid plants. Mutation are difficult to detect in higher plants because they are usually recessive and do not express themselves in the presence of their dominant alleles on the homologous chromosomes. Sometimes selfing is not possible , where selfing is possible one individual out of four would bear the recessive character and where more recessive mutations are present the possibility of getting an individual showing all the mutations is extremely low. On the other hand mutations induced in haploids can be easily detected because they have only a single set of genes and there is no interference by their dominant alleles.Haploids with desirable mutations can be picked up and their chromosomes duplicated to get fertile diploids with all the desirable mutations in a single generation.Besides the convenience in detecting recessive mutations , haploidy offers an easier and faster approach for raising isogenic pure lines.Though during current investigation transfer of these doubled haploid plants in soil condition was not tried</b></li> <li>yes</li> <li>yes</li> <li>yes</li> <li>how the author get confirmed about the diploidized haploid plants without doing some suitable assays. May be already done and not mentioned.</li> <li>No need to add more references</li> </ol>	
<p><b>Minor</b> REVISION comments</p> <ol style="list-style-type: none"> <li><b>Is language/English quality of the article suitable for scholarly communications?</b></li> </ol>	Yes, language and English quality of the article is suitable for scholarly communications	
<b>Optional/General</b> comments		

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**PART 2:**

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

**Reviewer Details:**

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