

**Review Form 1.7**

Journal Name:	<b>International Journal of Environment and Climate Change</b>
Manuscript Number:	<b>Ms_IJECC_107628</b>
Title of the Manuscript:	<b>Effect of Different Weed Management Practices on Growth Characters of Chickpea in Mid-hills of Himachal Pradesh</b>
Type of the Article	<b>Original Research Article</b>

## Review Form 1.7

### 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><b>Compulsory</b> REVISION comments</p> <p><b>1. Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</p> <p><b>2. Is the title of the article suitable?</b> (If not please suggest an alternative title)</p> <p><b>3. Is the abstract of the article comprehensive?</b></p> <p><b>4. Are subsections and structure of the manuscript appropriate?</b></p> <p><b>5. Do you think the manuscript is scientifically correct?</b></p> <p><b>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></p> <p><b><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></b></p>	<p>=The soil of the experimental field was sandy loam in texture, slightly alkaline in reaction with EC in a safe range, medium in organic carbon, available nitrogen, potassium, and high in available phosphorus.</p> <p>=The experiment was laid out in randomized block design with three replications comprising ten weed management treatments viz. (T<sub>1</sub>) One hand weeding at 20 DAS, (T<sub>2</sub>) Two hand weeding at 20 and 40 DAS, (T<sub>3</sub>) Pendimethalin 30 EC @ 1.0 kg ha<sup>-1</sup> (PE), (T<sub>4</sub>) Imazethapyr 10 SL @ 1.0 kg ha<sup>-1</sup> (PoE) at 25 DAS, (T<sub>5</sub>) Pendimethalin 30 EC @ 1.0 kg ha<sup>-1</sup> (PE) + One hand weeding at 30 DAS, (T<sub>6</sub>) Imazethapyr 10 SL @ 1.0 kg ha<sup>-1</sup> (PoE) at 25 DAS + One hand weeding at 40 DAS, (T<sub>7</sub>) Fenoxaprop-p-ethyl 9.3 EC @ 60 g ha<sup>-1</sup> (PoE) at 25 DAS + One hand weeding at 40 DAS, (T<sub>8</sub>) Pendimethalin 30 EC @ 1.0 kg ha<sup>-1</sup> (PE) + Imazethapyr 10 SL @ 1.0 kg ha<sup>-1</sup> (PoE) at 25 DAS, (T<sub>9</sub>) Weed free and (T<sub>10</sub>) Weedy Check.</p> <p>=The recommended dose of fertilizer (30:60:30 kg ha<sup>-1</sup>) was applied through Urea, SSP, and MOP at the time of sowing. PBG-7 variety of chickpea was used for sowing.</p> <p>=Weed management practices were done as per treatment. Other crop management practices were followed as per the recommendation of the area.</p> <p>=Application of (T<sub>8</sub>) Pendimethalin 30 EC @ 1.0 kg ha<sup>-1</sup> (PE) + Imazethapyr 10 SL @ 1.0 kg ha<sup>-1</sup> (PoE) at 25 DAS registered higher growth parameters viz. plant height, number of branches plant<sup>-1</sup>, dry matter accumulation and crop growth rate</p> <p>The title of the article is suitable</p> <p>The abstract of the article is comprehensive</p> <p>Subsections and structure of the manuscript are appropriate</p> <p>The manuscript is scientifically correct</p> <p>The references are sufficient and recent</p> <p><u>Materials and Methods:</u> -Please add more clear experimental design -Please list parameters of growth and development -Please describe how to collect parameters</p>	
<p><b>Minor</b> REVISION comments</p> <p><b>1. Is language/English quality of the article suitable for scholarly communications?</b></p>	<p>English quality of the article is suitable for scholarly communications</p>	
<p><b>Optional/General</b> comments</p>	<p>= Chickpea (<i>Cicer arietinum</i>) is one of the most important pulse legumes in many parts of the world. India is largest producer of chickpea in the world, sharing 65 and 70 % of the total global area and production, respectively.</p> <p>=Different weed control practices use of herbicides were followed for better management.</p> <p>=Application of herbicide at critical growth stages followed by one or two hand weeding at proper time or manipulation of row spacing for improving the weed suppressing effect of crops gives marginal improvement in crop yield.</p> <p>=A field experiment titled "Effects of Different Weed Management Practices on Growth Characters</p>	

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	of Chickpea in Mid-hills of Himachal Pradesh” was conducted during <i>rabi</i> season of 2022 at Chamelti Agriculture Farm, MS Swaminathan School of Agriculture, Shoolini University of Biotechnology and Management Sciences, Solan. = Application of (T <sub>8</sub> ) Pendimethalin 30 EC @ 1.0 kg ha <sup>-1</sup> as pre emergence + Imazethapyr 10 SL @ 1.0 kg ha <sup>-1</sup> as post emergence at 25 DAS registered higher growth parameters viz. plant height, number of branches plant <sup>-1</sup> , dry matter accumulation and crop growth rate.	
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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>	

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