

Review Form 1.7

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_97253
Title of the Manuscript:	Standardizing Drip Irrigation and Fertilizer levels on yield, economics and energy efficiency of Mentha (Mentha arvensis) in Tarai region of Uttrakhand
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>)

UNDER PEER REVIEW

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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. (Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</p>	<p>This type of research is very meagre, definitely useful for scientific community.</p> <p>Suitable title</p> <p>Covered entire research information but need to mention the year of the experiment.</p> <p>Well presentation of information</p> <p>More appropriate</p> <p>Ok</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>Nicely presented with good quality language</p>	
<p>Optional/General comments</p>	<p>Herbage is the harvestable product of mint thus irrigation and fertilization are the key inputs for securing optimum productivity and quality. Mint requires 10-12 irrigations depending on soil texture and weather conditions during the crop growing period. It is a shallow rooted crop and its active growth period coincides with pre- monsoon hot summer months, higher soil and air temperatures are high leading to high ET. Mint being a leafy herb, responds to frequent irrigations during dry season months.</p> <p>Mint is a heavy feeder of nutrients and removes substantial quantities of N, P and K . Adequate supply of nutrients increased herbage and oil yields due to production of taller plants, more branches and leaves, superior leaf- stem ratio and increased dry matter. Among various nutrients, nitrogen is the most effective and important nutrient, which regulates vegetative growth, herbage and oil yields. It is the essential component of cell molecules including chlorophyll, nucleic acids, amino acids, ATP and a number of plant hormones. Phosphorus is a nutrient largely used in energy transfer processes in cells, mainly as a component of ATP. Adequate P fertilization in mint helps in ramification of the root system which increased the number of suckers in plants and finally enhanced the herbage and oil yields. Mint also has a constant growing demand for potassium during the growing season. Potassium is known to play as essential role in enzyme activation, protein synthesis, photosynthesis, osmo-regulation, stomatal opening, energy transfer, cation-anion balance and stress resistance.</p>	

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	With this background author has conducted experiment, well planning, layout, execution, compilation and presentation of data. Article is recommended for publication.	
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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>	

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