

Review Form 1.6

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_89430
Title of the Manuscript:	The Role of Nanozeolite and Biocapsule in improving growth, yield and fruit quality of low chilling Apple (Malus x domestica Borkh.) Cv. HRMN-99 in prayagraj Agro-climatic condition
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 '**l a c k o f N o v e l t y**', 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)
Compulsory REVISION comments	<p>2. METHODS AND MATERIALS</p> <p>Experimental Site: The experiment was conducted at the Research farm, Department of Horticulture, Naini Agricultural Institute, Sam Higginbottom University of agriculture, technology and sciences, Prayagraj, (Here it is suggested to reference the country or city) for a period lasting from January 2021 to July 2021.</p> <p>3. RESULT AND DISSCUSSION</p> <p>This section is well organized. Perhaps it could not repeat in each paragraph Table 1. and graph 1. and instead write once and then a paragraph for each case with bullet points.</p> <p>For instance : Growth Parameters</p> <p>In case of plant height, table 1. and graph 1. showed that the Treatment T8 ((NPK (RDF) + Nanozeolite 250 ppm + Biocapsule 500 ppm) have maximum plant height (2.8 m) after 3 years of transplanting followed by T9 (NPK (RDF) + Nanozeolite 250 ppm + Biocapsule 250 ppm) (2.76 m) and minimum plant height (2.47 m) was observed in treatment T3 (Nanozeolite 250 ppm) after 3 years of transplanting. Increment in plant height might be due to Biocapsules and nanozeolite with the combination of NPK. Biocapsules increases the nutrient fixation in the root and nanozeolite played an important role to make availability of nutrient in the soil. These results are in support with Bandana and Chandel (2017) and Padhan et. al. (2019).</p> <p>Table 1. and graph 1.: Showed that the Treatment T8 ((NPK (RDF) + Nanozeolite 250 ppm + Biocapsule 500 ppm) have maximum plant height (2.8 m) after 3 years of transplanting followed by T9 (NPK (RDF) + Nanozeolite 250 ppm + Biocapsule 250 ppm) (2.76 m) and minimum plant height (2.47 m) was observed in treatment T3 (Nanozeolite 250 ppm) after 3 years of transplanting. Increment in plant height might be due to Biocapsules and nanozeolite with the combination of NPK. Biocapsules increases the nutrient fixation in the root and nanozeolite played an important role to make availability of nutrient in the soil. These results are in support with Bandana and Chandel (2017) and Padhan et. al. (2019).</p> <p>Showed that the maximum primary branches (3.66) were observed in treatment T8 (NPK (RDF) + Nanozeolite 250 ppm + Biocapsule 500 ppm) followed by treatment T9 (NPK (RDF) + Nanozeolite 250 ppm + Biocapsule 250 ppm) which was (3) and the lowest primary branches (2) was recorded in treatment T3 after 3 years of transplanting. Increased number of primary branches, might be due to the application of Biocapsule and nanozeolite with the combination of NPK. Biocapsule has an antipathogen effect and nanozeolite reduces the disease incidence to the Apple plant. These findings are in accordance with Treder (2007) and Padhan et. al. (2019).</p> <p>. Table 2. and graph 2.</p> <p>Flowering And Fruiting Parameter</p> <p>Table 1. and graph 1.: Table 2. and graph 2.</p>	

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Table 2. and graph 2.

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Fruit Quality Parameters

Table 2. and graph 2.

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It is only a suggesting.

* In the Fig 1 - Apple flower and fruit.

It is suggested with the same font and point than the letter of the Table and Graphic.

4. REFERENCES:

* **The reference: Hany et. al. (2020) is not in the References, but the author cite in the manuscript.**


Emadpour, M., Gharevazie, B., Kalaj, Y. R., Entesari, M., & Bouzari, N. (2015). Effect of the potassium permanganate coated zeolite nanoparticles on the quality characteristic and shelf life of peach and nectarine. *Int J Agric Technol*, **11**, 1263-1273.

Fediala Abd El-Gleel Mosa W., Sas Paszt L., Frac M., Trzciński P., Treder W., Klamkowski K. (2018) The role of biofertilizers in improving vegetative growth, yield and fruit quality of apple. *Hort. Sci. (Prague)*, **45**: 173-180.

Padhan A., Mishra S. and Bahadur V. (2019) Effect of growing media on growth, development and establishment of low chilling variety of apple “HRMN-99” under Prayagraj agro climatic conditions. *Journal of Pharmacognosy and Phytochemistry*. **8**(3): 1227-1230

Pirlak L., Turan M., Sahin F. & Esitken A.(2007) Floral and Foliar Application of Plant Growth Promoting Rhizobacteria (PGPR) to Apples Increases Yield, Growth, and

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	<p>* The reference: (NIF, Database) is not in the References, but the author cite in the manuscript.</p> <p>* The reference: <i>Malus Domestica</i>, with italic letter, is a scientific name.</p> <p>Sharma, S.D., Sharma, N., Sharma, C.L., Sood, R. and Singh, R.P. (2005) Studies on correlations between endomycorrhizal and Azotobacter population with growth, yield and soil nutrient status of apple (<i>Malus domestica Borkh</i>) orchards in Himanchal Pradesh. <i>Acta Horticulture</i> 696, 283-287.</p> <p>Singh S.R., Zargar M.Y., Najar G.R., Peer F.A. and Ishaq M.I. (2011) Integrated Use of Organic and Inorganic Fertilizers with Bio-inoculants on Yield, Soil Fertility and Quality of Apple (<i>Malus domestica</i>) <i>Journal of the Indian Society of Soil Science</i>, 59 (4) 362-367.</p>	
<p>Minor REVISION comments</p>	<p>Title: It is suggested to write Prayagraj with capital letter, is a city.</p> <p>1. INTRODUCTION</p> <p>* The author said: The "King of Temperate Fruit," the Apple (<i>Malus X domestica Borkh</i>), originated in Central Asia near Turkey.</p> <p>It is suggested to said: The "King of Temperate Fruit," the Apple (<i>Malus X domestica</i> Borkh), originated in Central Asia near Turkey. With italic letter, because is a scientific name.</p> <p>* The author said: Its attractive look, crispy flesh, agreeable flavour, and sweet taste entice customers and bring in premium prices (Ali et al., 2004).</p> <p>It is suggested to put "et al." or in italic letter o no italic letter, but throughout the manuscript place in the same way. Maintain uniformity.</p> <p>* The author said: organisations. It is ok? Or is organizations ?.</p> <p>* The author said: Farmers in Manipur, Madhya Pradesh, Uttar Pradesh, Bihar, Maharashtra, Gujarat, Dadra and Nagar Haveli, Karnataka, Haryana, Rajasthan, Jammu, Kerala, Uttarakhand, Telangana, Himachal Pradesh, and Delhi have reported successful fruiting, resulting in an increase in the demand for saplings on a large scale. (NIF, Database).</p> <p>It is suggested not to put point (.) here. </p>	
<p>Optional/General comments</p>	<p>The figure 1, enrich the work. If the authors have more photos about Malus or the variety, they should publish them for a greater enrichment of the work.</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:	María Irma de las Mercedes
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