Review Form 1.6

Journal Name:	**International Journal of Environment and Climate Change**
Manuscript Number:	**Ms_IJECC_76394**
Title of the Manuscript:	**Evaluation on the effect of silica (DE) for growth and quality of Mango Kesar**
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:

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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	The manuscript deals with studying the effect of silica (DE) on the growth and quality of Mango Kesar. The work is impressive, and the results are interesting. However, some points deserve to be clarified before publication. I recommend the publication with minor revisions as follows: The abstract seems too long and I recommend taking out some of the unnecessary parts. The introduction is well-written and the area of the work is adequately discussed. The methodology was adequately discussed and the results have been perfectly shown via adequate numbers of tables, however, I highly recommend that to compare achieved data with some of the published ones in the past and highlight the importance of this research to readers. All the references are outdated, please cite some of the newly published articles in this area. Various typo errors should be rectified. Punctuation is not done properly too. Please, provide a new revision of the English language for typing and grammar errors. **General comments:** the Effect of Silicon on yield and quality…. the Effect of Silicon on the yield and quality. It was found that, the highest yield…. It was found that the highest yield. 600 kg per hectare which significantly more than the compared… 600 kg per hectare which is significantly more than the compared. DE 300 kg per hectareas RDF + DE 300 kg/ha… DE 300 kg per hectares RDF + DE 300 kg/ha. physical characteristics like increased in length, diameter and volume of… physical characteristics like increase in length, diameter, and volume of. Kesar that helped in increasing the quality… Kesar helped in increasing the quality. compared to control during 2012-2013, 2013-2014 and pooled…. compared to control during 2012-2013, 2013-2014, and pooled. cultivation in the sub-continent from the past 4000 years…. cultivation in the sub-continent for the past 4000 years. It is named as the 'King of the fruits'…. It is named the 'King of the fruits'. captivating flavour, delicious taste and an excellent source… captivating flavour, delicious taste and excellent source. India ranks first both in area (25.00 million hectares)… India ranks first both in the area (25.00 million hectares). In the state of Karnataka the leading fruit crop is mango… In the state of Karnataka, the leading fruit crop is mango. twenty of them are grown under commercial scale…. twenty of them are grown on a commercial scale. In the recent past numerous investigations have showed that…. In the recent past, numerous investigations have shown that. Mango being a highly heterozygous and cross pollinated crop, has resulted in…. Mango being a highly heterozygous and cross-pollinated crop has resulted in. variations in the yield, quality and physico-chemical characteristics in mango resulting to lesser… variations in the yield, quality and, physicochemical characteristics in mango resulting in lesser. Silica is considered as an important beneficial element as it helps in growth… Silica is considered an important beneficial element as it helps in the growth. Silicon improves the cell wall due to deposition of silicon… Silicon improves the cell wall due to the deposition of silicon. thus increases the thickness and erectness of plant…. thus increases the thickness and erectness of the plant. and plants takeup directly as silicic acid…. and plants take up directly as silicic acid.	

	many important functions in environment, although Si is not considered as an essential plant…. many important functions in the environment, although Si is not considered an essential plant. Kesar orchard with nine treatments which were imposed as soil applications…. Kesar orchard with nine treatments were imposed as soil applications. Mean maximum temperature during 2013 was 29.83^{0}C… The mean maximum temperature during 2013 was 29.83^{0}C. for each replication and totally eighty one trees… for each replication and a total of eighty-one trees. the package of practice of UHS, Bagalkot. Fertilizer dose of 750 g… the package of the practice of UHS, Bagalkot. A fertilizer dose of 750 g. No severe pest and diseases were recorded during research period (2012-2013 and 2013-2014).. No severe pests and diseases were recorded during research period (2012-2013 and 2013-2014). Immediately after the harvest of the fruit the stalk was removed… Immediately after the harvest of the fruit, the stalk was removed. t the time of harvest and the data expressed as number of fruits per tree…. t the time of harvest and the data was expressed as a number of fruits per tree. converted to hectare basis based on number of trees per hectare (100)… converted to a hectare basis based on a number of trees per hectare (100). The length of the fruit from stalk end to the apex of fruit was determined… The length of the fruit from the stalk end to the apex of the fruit was determined. The peel of ten fruits from each treatment were separated… The peel of ten fruits from each treatment was separated. fruit length, diameter of fruit and volume of fruit… fruit length, the diameter of fruit, and volume of fruit. recorded in T_7 and lowest was recorded…. recorded in T_7 and the lowest was recorded. Silica (DE) had positive effect on yield characters…. Silica (DE) had a positive effect on yield characters. it was also showed that Si influence…. it was also showed that Si influences. sunlight leading to higher photosynthetic activity of plant…. sunlight leading to the higher photosynthetic activity of the plant. The diameter of fruit was significantly influenced by soil application of silicon… The diameter of the fruit was significantly influenced by the soil application of silicon. the cell wall leads to lesser respiration…. the cell wall lead to lesser respiration. extended its shelf life up to maximum of 18 days…. extended its shelf life up to a maximum of 18 days. the cell wall of epidermal cells therefore increased their…. the cell wall of epidermal cells, therefore, increasing their. Silica gave significant difference in the total soluble…. Silica gave a significant difference in the total soluble. The decrease in acidity might be due to increase in the total soluble… The decrease in acidity might be due to an increase in the total soluble. Similar, observations was made by Ahmed…. Similar, observations were made by Ahmed. nutrients which led to faster conversion of starch…. nutrients which led to the faster conversion of starch. Su *et al*. (2011) in apple also reported same…. Su *et al*. (2011) in apple also reported the same. colour of fruit, colour of pulp, Taste of the fruit, aroma of the fruit and overall acceptability…. colour of the fruit, the colour of pulp, Taste of the fruit, the aroma of the fruit, and overall acceptability.	

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Minor REVISION comments		
Optional/General comments		

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?	*(If yes, Kindly please write down the ethical issues here in details)*	

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