

Review Form 1.7

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_105466
Title of the Manuscript:	Effect of nano fertilizers on growth, yield, nutrient uptake and soil microbiology of kharif sorghum
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:

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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.</p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<ul style="list-style-type: none"> • Sorghum, is regarded as the key for the sustenance of human and livestock populations. • In order to counterpart the nutritional needs of crops, foliar spraying of nutrients tied with basal applicational of conventional fertilizers provides a numerous benefits. ○ Yes, the title of the manuscript is suitable and appropriate enough. ○ Yes, the abstract written is comprehensive. ○ Yes, they are appropriate enough inscribing various significant aspects. ○ The presentation of the Abstract, Introduction, Materials and Methods, Results and Discussion, and Conclusion are exceptionally appreciable. ○ The data have been concisely documented in tabular forms. ○ The graphical presentations are vivid and sensitively represented. • The graphical presentation of Monthly meteorological data for experimental year (2022) against normal for 25 years at ARS, Hagari (Karnataka); Nutrient uptake (kg ha^{-1}) by <i>kharif</i> sorghum at harvest as influenced by different levels of chemical and nano fertilizers and Available nutrients in soil (kg ha^{-1}) at harvest as influenced by different levels of chemical and nano fertilizers in <i>kharif</i> sorghum depicted are rather exemplary. • The study has suggested that nano scale materials can enhance the fertilizer use efficiency, while foliar application can meet the crop nutrient requirement efficiently as per its need. • While, the nano fertilizers known as nutrient vectors are being developed by using nano scale raw material substrates that are ranging from 1-100 nm, and are capable of manipulating the materials to atom level, molecular and macromolecular scale. • Nano urea and DAP fertilizers have been developed indigenously, for the first time in the world at IFFCO Nano Biotechnology Research Centre (NBRC), Kalol, Gujarat through a proprietary patented technology. • The data collected from the experiment at different growth stages and at harvest were subjected to statistical analysis as described by Panse and Sukhatme (1967). • The level of significance used for 'F' test was $P=0.05$. Critical Difference (CD) values were calculated at 5 per cent probability level if the F test will find to be significant. • The references cited are adequate and recent enough. 	

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Minor REVISION comments		
1. Is language/English quality of the article suitable for scholarly communications?	<ul style="list-style-type: none">• Introduction, 1st line: crop of resource for poor, small-insert a preposition.• Introduction, 2nd line: (<i>Kharif</i>)- <i>change the capitalization</i>.• Introduction, 4th line: populations- fix the agreement mistake.• The usage of the English language is appropriate and well suitable for scholarly communications.	
Optional/General comments	<ul style="list-style-type: none">• Overall, the manuscript has been succinctly authored, noticeably accompanied by sleek documentation of the observations that has been illustrated in the associated Tabular forms, apart from depicting vivid and elegant graphs.	

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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