

### Review Form 3

Journal Name:	<b>International Journal of Plant &amp; Soil Science</b>
Manuscript Number:	<b>Ms_IJPSS_130044</b>
Title of the Manuscript:	<b>Viricidal activity of silicon dioxide nanoparticles against cowpea aphid borne mosaic virus</b>
Type of the Article	<b>Original Research Article</b>

#### **PART 1: Comments**

	<b>Reviewer's comment</b>	<b>Author's Feedback</b> <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<b>Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.</b>	This manuscript offers significant insights into the potential application of silicon dioxide nanoparticles (SiO <sub>2</sub> NPs) as a novel viricidal agent against the Cowpea aphid-borne mosaic virus (CABMV), which affects leguminous crops, including cowpeas. The study provides valuable data on the antiviral properties of SiO <sub>2</sub> NPs, which could pave the way for new, eco-friendly strategies for managing viral diseases in agriculture. Given the increasing need for sustainable plant protection methods, this research could contribute to the development of alternative antiviral treatments, reducing reliance on chemical pesticides. Furthermore, it opens up avenues for further exploration of nanomaterials in combating plant viruses, enhancing crop yield, and ensuring food security.	
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>	<b>Yes</b>	
<b>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</b>	<b>Yes. Good work</b>	
<b>Is the manuscript scientifically, correct? Please write here.</b>	Yes	
<b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b>	Yes, if possible add more recent references	
<b>Is the language/English quality of the article suitable for scholarly communications?</b>	Yes	
<b>Optional/General</b> comments	<input type="checkbox"/> The study effectively demonstrates the potential of SiO <sub>2</sub> nanoparticles as a viricidal agent against CABMV, though further research on long-term efficacy is needed. <input type="checkbox"/> The experimental setup needs more details, particularly regarding nanoparticle concentration, exposure duration, and statistical analyses. <input type="checkbox"/> Environmental and safety concerns related to SiO <sub>2</sub> nanoparticles' use in agriculture should be addressed in more depth. <input type="checkbox"/> A comparative analysis with other antiviral agents would strengthen the manuscript's context and relevance.	

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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>	

**Reviewer Details:**

Name:	<b>J. Albino Wins</b>
Department, University & Country	<b>Holy Cross College, India</b>