

Review Form 3

Journal Name:	Journal of Scientific Research and Reports
Manuscript Number:	Ms_JSRR_124901
Title of the Manuscript:	Entomopathogenic nematodes as bioindicator of soil health
Type of the Article	Review Article

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PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.	Please see the general comments section and the attachment.	
Is the title of the article suitable? (If not please suggest an alternative title)		
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.		
Are subsections and structure of the manuscript appropriate?		
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.		
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.		

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<p>Minor REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>		
<p>Optional/General comments</p>	<ul style="list-style-type: none"> ➤ Title should be changes as- Entomopathogenic nematodes as bioindicators of soil health ➤ There are many grammatical errors which need be corrected. Comment box has been inserted wherever correction is required. ➤ It is important to mention in a paragraph or two about why specifically EPNs and not any other nematodes as bioindicators at the beginning of the manuscript. <p>The manuscript is missing the connections. So, to make it more organised, a structure can be maintained. Some of the important sections can also be included or added in the manuscript to make it more justifiable.</p> <p>1. Introduction to Entomopathogenic Nematodes (EPNs)</p> <ul style="list-style-type: none"> • Overview of what EPNs are, including their life cycle, common genera (e.g., <i>Steinernema</i> and <i>Heterorhabditis</i>), and their symbiotic relationship with bacteria (e.g., <i>Xenorhabdus</i> and <i>Photorhabdus</i>). • Role of EPNs in biological pest control. <p>2. EPNs as Bioindicators</p> <ul style="list-style-type: none"> • Definition and significance of bioindicators in soil health. • Why EPNs can serve as bioindicators (e.g., their sensitivity to soil disturbances, ability to reflect soil biodiversity, and response to environmental changes). <p>3. Factors Affecting EPN Populations</p> <ul style="list-style-type: none"> • Soil properties: pH, texture, organic matter content, and moisture. • Soil biodiversity: Interactions with other nematodes, microbes, and invertebrates. • Agricultural practices: Effect of pesticide use, organic farming, crop rotation, and tillage on EPNs. <p>4. Role of EPNs in Assessing Soil Contamination</p> <ul style="list-style-type: none"> • How EPNs respond to chemical contaminants (e.g., heavy metals, pesticides) and their use in monitoring soil pollution. • Studies showcasing EPNs' response to various soil contaminants as bioindicators. <p>5. EPNs and Soil Health Indicators</p> <ul style="list-style-type: none"> • Correlation between EPN abundance and diversity with indicators of soil health like soil fertility, structure, and microbial activity. • Use of EPNs to assess the impact of ecosystem services, such as nutrient cycling and pest suppression. <p>6. EPNs and Ecological Disturbances</p> <ul style="list-style-type: none"> • Impact of soil compaction, deforestation, climate change, and urbanization on EPN populations. • EPNs as indicators of soil recovery in restoration and reclamation projects. <p>7. EPNs in Sustainable Agriculture</p>	

Comment [CR1]: bioindicators

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	<ul style="list-style-type: none">• Role of EPNs in promoting sustainable farming practices through natural pest control.• Potential of EPNs in integrated pest management (IPM) and organic farming as an indicator of soil health and sustainability. <p>8. Methodologies for Using EPNs as Bioindicators</p> <ul style="list-style-type: none">• Techniques for isolating and identifying EPNs from soil samples.• Molecular tools for monitoring EPN diversity and abundance in the soil.• Experimental setups and bioassays to evaluate EPN health in relation to soil conditions. <p>9. Challenges and Future Prospects</p>	
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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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