

Review Form 3

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| Journal Name: | International Journal of Plant & Soil Science |
| Manuscript Number: | Ms_IJPSS_122826 |
| Title of the Manuscript: | CAN SOIL SPECTROSCOPY BE A STRONG ALTERNATIVE TO THE CONVENTIONAL METHODS OF ANALYSIS? |
| 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> |
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| 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. | | |
| 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><u>Optional/General</u> comments</p> | <p><u>Comments on the Review Paper:</u></p> <p>CAN SOIL SPECTROSCOPY BE A STRONG ALTERNATIVE TO THE CONVENTIONAL METHODS OF ANALYSIS?</p> <p>Submitted to Journal: International Journal of Plant & Soil Science</p> <p>The topic discussed in this paper is interesting to the academic community. The Review paper is easily readable concerning language, style and presentation. The Title of the paper is comprehensive, but not too long.</p> <ol style="list-style-type: none">1) As in Introduction it is clearly mentioned that Soil is an important and essential environmental resource to produce both food and Earth's life. Studying a detailed investigation about Physical, Chemical and Biological characteristics of soil is very important as it carried by both Conventional and Spectroscopy methods. The information provides insight of both qualitative and quantitative is very essential for soil properties in order to enrich all essential constituents. Using Conventional methods of soil analysis are also has it drawback such as consuming time as well as cost, slow, destructive. Meanwhile Using soil spectroscopy techniques are much faster and cheaper in estimating soil organic matter.2) The study reveals that still there is substantial knowledge gap remain in the field of quantitative evaluation of soil attributes using spectral reflectance models. The comprehensive understanding is very much requiring for achieving better accuracy and predictability of soil parameters. In enhance to this information using the hyper spectral data collected by the satellites or airborne sensors are not highly accurate and not suitable for estimating the soil parameters.3) Diffuse Reflectance spectroscopy in estimating soil parameters is this technique is real promising? The answer reliable on efficiency of soil parameter estimation.4) For the past 40 years a detailed investigation is going on soil spectroscopy. From two decades, a significant number of researches carried out by using spectroscopic techniques which is much reliable and efficient in soil mapping and land use management.5) Despite of many advantage in spectroscopic methods it is need for improved theoretical calibrations and standardized protocols. To enhance this by improving soil spectral libraries we can meet the requirement in near future.6) Figure 2. Methodology is very informative.7) References are very much related and accurate. <p>Based on studying in detail the paper, I being one of the reviewer I can write strongly that Spectroscopic Technique and Methods are more reliable and then conventional method of Soil Analysis.</p> | |

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| | I Strongly recommend this Review paper for the Publication in your esteem Journal "International Journal of Plant and Soil Science." | |
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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> |
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| Are there ethical issues in this manuscript? | <i>(If yes, Kindly please write down the ethical issues here in details)</i> | |

Reviewer Details:

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