

Review Form 1.7

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| Journal Name: | Asian Journal of Geological Research |
| Manuscript Number: | Ms_AJOGER_102860 |
| Title of the Manuscript: | Recruiting the Very Low Frequency Electromagnetic Geophysical Technique for the analysis of Tunnel Erosion: A Case Study of Awka, Anambra State, Nigeria |
| 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:

(<https://journalajoger.com/index.php/AJOGER/editorial-policy>)

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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) |
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| <p>Compulsory REVISION comments</p> <ol style="list-style-type: none"> 1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript) 2. Is the title of the article suitable? (If not please suggest an alternative title) 3. Is the abstract of the article comprehensive? 4. Are subsections and structure of the manuscript appropriate? 5. Do you think the manuscript is scientifically correct? 6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p> | <ol style="list-style-type: none"> 1. Manuscript gives a good example of the implementation of the VLF-EM method and better knowledge of two sites of Awka, Anambra State, Nigeria 2. The title is suitable but can be improved to mention that the article helps to feature two know soil pipes : "<i>Recruiting the Very Low Frequency Electromagnetic Geophysical Technique for the characterisation of two eroded soil pipes in Awka, Anambra State, Nigeria</i>" 3. The abstract is comprehensive but mentions elements not properly presented in the article 4. The organization of the document respects international standards. 5. The manuscript is scientifically correct but must be completed for a better contextualization of the geophysics surveys 6. References presented are correct, some few errors are observed, and the form of the list of references must be adjusted 7. Please fix the following reference : they are misinformed [2] (misspelled), [3] (error on year), [4] (misspell), [12] (bad year), [14] (bad year, bad journal), [16] (add doi), [17] (missing elements), [18] (add doi) , [19] (add doi), [21] (add doi), [23] (add doi), [24] (add doi), [25] (add doi), [27] (add doi), [36] (complete the reference with name and doi), [37] call twice used in [3] remove the last one, [38] (add the year), [39] can find this reference, it should be removed, [40] can find this reference, it should be removed 8. On FIGURE 1 PLEASE ADD THE SOURCE The four (4) complete profiles should be plotted on the right map of Figure 2. There is an error in reference [3], which pertains to the climate aspect rather than the geophysics survey. 9. To facilitate comparison, the following improvements can be made on figures 3 and 4: <ol style="list-style-type: none"> 1. The colorbar scale representing the real component in Figures 3b, 3d, 4b, and 4d should be the same. To ensure consistency, the recommended scale is -10 to 100. 2. Additionally, the limits used for the colorbar in all four figures should also be the same (-10 to 100). 3. For the figures depicting Frazer filtering and Karous-Hjelt, it would be beneficial to superimpose the plots instead of placing them side by side. This modification will enhance the reader's ability to compare and analyze the results effectively. Specifically, consider placing Figure 3a over 3b, 3c over 3d, 4a over 4b, and 4c over 4d. 10. In order to provide a comprehensive overview, it would be beneficial to present the full | |

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| | <p>profile (with or without Fraser filtering) before zooming in on the two study areas. This will give readers a better understanding of the context and allow for a smoother transition when focusing on the specific areas of interest.</p> <p>11. The end of the abstract needs to be rewritten to align with the content presented in the article. It should accurately summarize the key findings or conclusions from the study, ensuring that it accurately reflects the research conducted.</p> <p>12. The article should include a discussion section to address data interpretation related to the size of the pipes observed in the fields. This section should provide insights, analysis, and interpretations of the findings in relation to the observed pipe sizes. By incorporating a comprehensive discussion, the article will offer a more thorough analysis of the data and its implications. That will be good to present at least the full profile (with or without Fraser filtering) before zooming in the two study areas</p> <p>13. The end of the abstract does not relate to what was presented in the article it must be rewritten. The article misses a discussion aspect on data interpretation related to the size of the pipe observed on the fields. Thus the discussion section must be completed</p> | |
| <p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p> | <p>The language quality of the article is suitable for scholarly communications</p> | |
| <p>Optional/General comments</p> | | |

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) |
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| <p>Are there ethical issues in this manuscript?</p> | <p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p> | |

Reviewer Details:

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