

Review Form 3

Journal Name:	Asian Journal of Geological Research
Manuscript Number:	Ms_AJGER_121130
Title of the Manuscript:	Comparative Analysis of Foundation Materials Bearing Capacity Using MASW Techniques in Opolo and Amassoma, Bayelsa State, Nigeria
Type of the Article	

General guidelines for the Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**Jack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guidelines for the Peer Review process, reviewers are requested to visit this link:

<https://r1.reviewerhub.org/general-editorial-policy/>

Important Policies Regarding Peer Review

Peer review Comments Approval Policy: <https://r1.reviewerhub.org/peer-review-comments-approval-policy/> Benefits for Reviewers: <https://r1.reviewerhub.org/benefits-for-reviewers>

Review Form 3

PART 1: Review Comments

<u>Compulsory</u> 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</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.	The paper discussed on the comparative analysis of foundation materials bearing capacity using MASW techniques in Opolo and Amassoma, Bayelsa State, Nigeria, has provided valuable information into the geotechnical characteristics, whereby the shear wave velocity (Vs) profiles obtained through MASW surveys reveal significant differences in soil stiffness and bearing capacity between Opolo and Amassoma. Moreover, the strong correlation coefficients (R ²) between seismic refraction (shear wave velocity) and SPT-N values in both locations validate the reliability of MASW techniques in assessing soil properties. This consistency enhances confidence in using MASW alongside traditional geotechnical	
Is the title of the article suitable? (If not please suggest an alternative title)	YES	
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.	YES	
Are subsections and structure of the manuscript appropriate?	YES	
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	The shear wave velocity (Vs) profiles obtained through MASW surveys reveal significant differences in soil stiffness and bearing capacity between Opolo and Amassoma.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	YES	
<u>Minor</u> REVISION comments Is the language/English quality of the article suitable for scholarly communications?	Good	
<u>Optional/General</u> comments		

Review Form 3

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

Reviewer Details:

Name:	Hj. Saurdi Bin Hj. Ishak
Department, University & Country	Universiti Teknologi Mara Sarawak, Kota Samarahan Campus, Malaysia