

Review Form 1.7

Journal Name:	Asian Journal of Geological Research
Manuscript Number:	Ms_AJGER_111510
Title of the Manuscript:	Assessment of Aquifer Vulnerability and Groundwater Prospects Using Electrical Resistivity Method in parts of Nnewi Southeastern Nigeria.
Type of the Article	Original Research Article

Review Form 1.7

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)
<p>Compulsory REVISION comments</p> <ol style="list-style-type: none"> Is the manuscript important for scientific community? (Please write few sentences on this manuscript) Is the title of the article suitable? (If not please suggest an alternative title) Is the abstract of the article comprehensive? Are subsections and structure of the manuscript appropriate? Do you think the manuscript is scientifically correct? 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>	<p>I have systematically undergone the manuscript "Assessment of Aquifer Vulnerability and Groundwater Prospects Using Electrical Resistivity Method in parts of Newi Southeastern Nigeria."</p> <p>Overall, the manuscript are presented in an appropriate manner. However, in my opinion there are some modifications required with this R1 (revision stage). Please consider the following:</p> <p>Abstract:</p> <p>1): The Abstract of the study is not well designed. Please connect the sentences, because the connection between them is not clear to understand.</p> <p>2): There is no need of coordinates in Abstracts, only place name is right to put here rest of the information are kept under the section heading study area.</p> <p>3): How Abstract justifying your work, With the glimpse. Do make it catchier.</p> <p>Introduction:</p> <p>In Paragraph-1, The background is justified and seems ok.</p> <p>In Paragraph-2, Start and end of the sentences is not clearly framed and repeating in some cases. <i>For example-</i> Groundwater occurs in porous and permeable geologic units termed aquifer. An aquifer is a saturated porous and permeable geologic unit which can transmit significant quantities of water under ordinary hydraulic gradients (Todd and Mays, 2005). It should be- Groundwater occurs in porous and permeable geologic units termed as aquifer, which allow water to transmit in a significant quantities under ordinary hydraulic gradients (Todd and Mays, 2005). Please reframe the Introduction (after Paragraph 1)</p> <p>Study area description has been repeatedly mentioned in Abstract, Introduction, and methodology. Kindly.</p> <p>Methodology:</p> <p>Please incorporate flowchart of the study in this section.</p> <p>Please reframe and rewrite the Figure 4 Caption.</p> <p>Reframe the para 4 of 'groundwater potential of the study area.' Meaning is not clear to understand. Overall, link between the sentences are not clear.</p> <p>How the positive correlation in the section "Characterization of the Aquifer Vulnerability" was drawn? Is there any analysis conducted for the same (statistical?).</p> <p>Conclusion:</p> <p>Conclusion should be more elaborative with scientific, crisp language. Try to add all your outcomes in the conclusion because, it looks very general.</p> <p>Below are some references, author can check the similar kind of work with international authors mentioned below?</p> <p>Reference</p> <ol style="list-style-type: none"> Pranjal, P., Chatterjee, R.S., Kumar, D., Dwivedi, S., Jally, S.K., Kumar, B., 2023. Satellite gravity observation and hydrological modelling-based integrated groundwater storage change in Northwestern India, Journal of Hydroinformatics, 17p (Available online). DOI: 10.2166/hydro.2023.072 Chatterjee, R.S., Pranjal, P., Jally, S., Kumar, B. Dadhwal, V.K., Srivastav, S.K., Kumar, D., 2020. Potential groundwater recharge in north-western India vs spaceborne GRACE gravity anomaly based monsoonal groundwater storage change for evaluation of groundwater potential and sustainability, Groundwater for Sustainable Development Journal (Elsevier), 10. https://doi.org/10.1016/j.gsd.2019.100307 Gyeltshen, S., G., Tran, T.V., Gunda, G.K.T., Kannaujiya, S., Chatterjee, R.S., Champatiray, P.K., 2019. Groundwater potential zones using a combination of geospatial technology and geophysical approach: a case study in Dehradun, India, Hydrological Sciences Journal, 65(2), 169-182. hariya, D., Shrivastava, S., Nage, S.K., Chatterjee, R.S., 2015. Integrated remote sensing and 	

Review Form 1.7

	GIS approach to groundwater potential delineation in the Doon valley, Uttarakhand, India, SSARSC International Journal of Geo-Science and Geo-Informatics, 2 (1), 1-12. 5. http://dx.doi.org/10.5004/dwt.2022.28107	
Minor REVISION comments 1. Is language/English quality of the article suitable for scholarly communications?	Overall it is good, But connection between the sentences requires revision.	
Optional/General comments	Figures should be catchier.	

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>	

Reviewer Details:

Name:	Harish Khali
Department, University & Country	Graphic Era Deemed to be University, India