

# Review of: "Exploration of Quartz, Feldspar, and Mica Minerals Using Geophysical Resistivity, Self-Potential, and Natural Electrical Field Techniques"

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Potential competing interests: No potential competing interests to declare.

1. **Abstract:** Justification of this research was not identified in the abstract's opening statement. The need for these geophysical techniques (Geophysical Resistivity, Self-Potential, & Natural Electrical Field) must be identified briefly. At least three (3) opening sentences are highly recommended prior to mentioning the study aim.
2. **Abstract:** All sentences must not exceed 20 words. The sentence, "The aim of the present study is examined by various modeling and self-potential (SP) techniques which are useful for the exploitation of shallow and deep deposits", is greater than 20 words.
3. **Abstract:** Please mention the exact study area/region in your abstract. The sentence, "In the present study area, 12 areas conducted the self-potential techniques.", was poorly constructed and should be carefully evaluated for typographic errors. Is "Self-Potential" the only technique utilized in this work? The abstract must capture all techniques utilized in this work.
4. **Abstract:** The modeling techniques utilized in this research were not mentioned as indicated by the author.
5. **Abstract:** Please categorically summarize your results with the various geophysical techniques utilized in this research.
6. **Abstract:** All sentences should not be more than 20 words.
7. **Introduction:** All sentences should not be more than 20 words. Please carefully review each sentence for grammatical correctness. First paragraph was too short. This paragraph should cover mineral identification in relation to quartz, feldspar, & mica. Their corresponding conventional geophysical techniques should be mentioned relative to quartz, feldspar, & mica. The first paragraph should terminate with a statement addressing geophysical resistivity, self-potential, & natural electrical field techniques.
8. **Introduction:** The following in cite references cannot be found in the REFERENCE Section – "Golla et al., 2014", "Golla et al., 2022".
9. **Introduction:** Subsequent paragraphs should technically address relevant issues in relation to geophysical resistivity, self-potential, & natural electrical field techniques respectively.
10. **Introduction:** More recent citations must be captured in this section to buttress recent trends in earth sciences' mineral identification.
11. "Study Area" & "Method of Exploration" should be combined as "Research Methodology". The study region with all adopted features must be clearly stated alongside with relevant citations. A relevant map with aforementioned features

of the study region is highly recommended. Identification of all tools and their corresponding method of application to each technique must be written in this section. All software application and analysis must be clearly stated.

12. Is the anomaly identified in Figure 1 the reason for this study?
13. **Results & Discussion:** Please clearly identify results according to their respective geophysical technique applied. State values with citations to support claims for various mineral identification.
14. **Results & Discussion:** If the study area shows low self-potential values due to schist rocks, please provide basic information from other investigations to support the claim.
15. **Results & Discussion:** Figures were not properly labeled. Each Figure in this section should be discussed accordingly.
16. **Conclusion:** Please re-organize your relevant conclusions into various bulletins. Your study region and data sampling fails to identify any cardinal orientation. How did you deduce “North-South” & “East-West” directions?
17. **Conclusion:** Clearly state the technique used to measure the density of the rock.
18. **References:** Please stick to only one style of reference. Avoid applying multiple reference styles.