

# Review of: "Groundwater Potential Zone Assessment Using Remote Sensing, Geographical Information System (GIS), and Analytical Hierarchy Process (AHP) Techniques in Fogera Woreda, South Gondar Zone, Ethiopia"

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**Potential competing interests:** No potential competing interests to declare.

The authors have conducted a study on groundwater potential modeling using GIS, Remote Sensing, and AHP. In order to enhance the manuscript and publish it, some major comments should be taken into consideration, which are as follows:

1. Most of the references cited are not up to date. Authors are suggested to add newer references and elaborate the introduction part with more relevant studies of a similar type. The authors need to update the literature.
1. Authors have not shown any rainfall data for the period of 2011-2022, as well as the number of rainfall stations which cover the study area. If these rainfall station numbers are enough to represent the study area!
2. The abstract lacks a concluding sentence that summarizes the overall significance of the research.
3. It is better to include more detailed statistical analysis results. The results section should be supported with findings of similar research.
4. The methodology section must contain a more detailed explanation of the AHP analysis, remote sensing data processing, and used GIS techniques. This will improve the reproducibility and credibility of the research work.
1. To enhance the generalizability of the study's conclusions, it is better to mention how the research findings can be compared with other watersheds that have similar geographical and climatic conditions.
2. There should be validation of results with actual data on groundwater potential like measurement of water from deep wells or boreholes.
3. The quality of the Figures and Tables should be improved.