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## Ask about the manuscript status

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Sun, Dec 26, 2021 at 5:01 PM

# The Acta Montanistica Slovaca journal

## COVER LETTER

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Editorial The Acta Montanistica Slovaca Journal

Faculty of Mining, Ecology, Process Control and Geotechnologies, The Technical University of Košice, Slovakia

Dear Prof. Beata Gavurova, PhD., MBA,

Following up on the review results from the two reviewers who informed me on Tuesday, December 20, 2021, I have revised according to the direction of the reviewer. The details of the repairs I have made are:

**ABSTRACT should contain the background, research objectives, methodology, and research results. Research background needs to be added.**

Answer: Improvements to the abstract have been adjusted by clarifying the background, research objectives, methodology, and research results. In the repair manuscript, it has been highlighted in yellow.

**Eliminate "personal pronouns" such as we, you, me, etc. This article still uses "personal pronouns".**

Answer: The personal pronouns "we" in the last paragraph of the introduction have been removed.

**The "Hydrogeological setting" chapter does not describe the hydrogeological conditions but contains a description of the geological conditions. Both Geology and Hydrogeology items should be discussed because this information will support the research results.**

Answer: the geological and hydrogeological setting has been added with supporting information such as lithology, aquifer productivity, and aquifer type, addition of hydrogeology map.

**The chapter "Sampling and analysis" should be renamed to "Research Method," which describes research procedures, methodologies, sampling techniques, and methods of analysis.**

Answer: "Sampling and Analysis" has been changed to "Research Method" and contains an explanation of the data used (primary or secondary), the sampling method, the basis for determining the sampling location, and the analytical method in the laboratory.

**Figure 3 and Figure 4 should be able to be combined into one image/figure.**

Answer: Figure 3 and Figure 4 in the manuscript have been adjusted according to the reviewer's directions.

**To discuss the origin of groundwater, groundwater flow pattern data is needed to support the analysis of the origin of groundwater, so this article absolutely needs to add a map of the direction of groundwater flow.**

Answer: groundwater flow pattern data has been presented in the form of a map accompanied by an explanation.

**Determination of recharge area based on topographic maps and land use maps is a big mistake. Determination of recharge area should be based on geological and hydrogeological conditions. I suggest using the existing groundwater recharge area map.**

Answer: I am well aware of my mistakes in the manuscript regarding this. There is no relationship between topographic maps and land use maps determining recharge area. So I have revised it by replacing it with a map of groundwater flow patterns based on groundwater level at several locations in Denpasar based on secondary data. I have also added a hydraulic conductivity map as a basis for groundwater flow processes. The explanation of groundwater movement is also explained in The Discussion on the origin of groundwater and groundwater recharge area.

**Figure 8 and figure 8 are irrelevant figures to use in determining the recharge area**

Answer: Figure 8 I have adjusted.

**The recharge area determined by the isotope technique still needs to be validated by analysis of geological conditions and hydrogeological conditions. A review of the geological and hydrogeological conditions is required to provide an overview of the hydraulic properties of rocks in the recharge area**

Answer: I have adjusted a review of the geological and hydrogeological setting. I have also submitted additional data in the revised manuscript.

**Authors should clearly define the main objectives and specific objectives of the work**

Answer: I have sharpened the research's main objectives and specific objectives in the introduction.

**The research area needs to be supplemented with additional information that is important for readers from outside Bali, e.g. the amount of annual precipitation totals and their distribution during the year, air temperature, population inhabiting a given area. The land use map is presented only in Fig. 9 and is illegible, as is the topographic map 9. I consider the main mistake to be the lack of a geological profile that shows the groundwater level and the nature of the geological structure. The hydroisohips map is missing. The period of the conducted research should be characterized against the background of many years.**

Answer: Additional general information about Denpasar has been added with the aim that readers can find out initial information about the climate, geography, and population characteristics of Denpasar City. Additional information regarding the geological and hydrogeological setting has also been described.

**Research methodology requires explanation. Perhaps the methodology should be presented in the form of a diagram. Indicate what decided about the selection of the measurement points,**

Answer: The research flow chart has been added in Figure 5.

**The presented maps (fig. 1 and 2) lack explanations, some maps repeat or are illegible**

Answer: there are changes in Figure 1 and Figure 2 and an explanation has been added.

Therefore, we are sure that readers will be interested in this topic so that it will have implications for the increasing number of citations to this paper. We believe after this manuscript revised, it is appropriate for publication by The Acta Montanistica Slovaca Journal.

Please address all correspondence concerning this manuscript to me at [doddyhekaardana@unr.ac.id](mailto:doddyhekaardana@unr.ac.id)

Thank you for your consideration of this revised manuscript.

We wish you a Merry Christmas and a Happy New Year 2022!

Sincerely,

**Putu Doddy Heka Ardana**

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## 2 attachments



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