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Review Report

Paper ID: JCIET/09/01/2023/JCIET_57550

Date: 23-May-2022

Title: The Slope Stability of Water Canal and Landslide Management at

Dadahup Water Canal Construction in Central Kalimantan

Authors: Rusdiansyah, Riza Fahlefi, Arif Dhiaksa, Akhmad Fadqur Rahman and

Hari Nugraha Nurjaman

Harrivagrana ivarjaman							
Evaluation	Poor	Fair	Good	Very Good	Outstanding		
Originality					√		
Innovation				√			
Technical merit					√		
Applicability					√		
Presentation and English					√		
Match to Journal Topic					V		
Recommendation to Chief Ed	litors						

	Strongly Reject	Reject	Marginally Accept	Accept	Strongly Accept
Recommendation					√

Review Comments: This paper addresses the issue of slope failure in the Dadahup Swamp Irrigation Area in Central Kalimantan Province and proposes a solution using sheet pile reinforcement. The authors successfully analyze the soil characteristics and utilize PLAXIS software for slope stability analysis. Their findings indicate that the presence of thick soft clay in the area contributes to the slope instability. Through the implementation of an 18-meter-long sheet pile reinforcement, the authors effectively improve slope stability and exceed the safety factor requirements set by SNI 8460 of 2017. The conclusion highlights the significance of the chosen method in managing landslides in this specific site and emphasizes the successful increase in the safety factor for slope stability. Overall, this paper provides valuable insights into the geotechnical considerations and effective engineering solutions for slope management in the Dadahup Irrigation System. Paper Accepted for Publication In JCIET.





