ABSTRACT

LANDSLIDE HAZARD MAPPING USING A GEOGRAPHIC INFORMATION SYSTEM (GIS) APPROACH IN TANGGAMUS REGENCY, LAMPUNG PROVINCE

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The landslide disaster that occurred in Tanggamus Regency, Lampung Province, at the end of May 2024 was caused by extreme rainfall. This event resulted in the loss of two lives and significant infrastructure damage. According to data from the National Disaster Management Agency (BNPB), eight districts were affected, with 385 houses damaged and over 1,098 hectares of agricultural land impacted. Infrastructure damage, including a collapsed bridge and seven landslide points, hindered evacuation efforts by Search and Rescue teams. The local government, along with relevant agencies, conducted emergency response operations and evacuated affected residents. Disaster mitigation and increasing public awareness were identified as critical needs. Education on disaster risks and emergency response training must be enhanced to better prepare communities for similar future events. Further research on the geological and climatic characteristics of the region is also deemed necessary to formulate more effective disaster management strategies. Through collaboration among the government, communities, and academics, Tanggamus Regency is expected to be better equipped to face future natural disaster challenges.

Keywords: *Geographic Information System, Landslide, Disaster Risk, Tanggamus Regency*