

ABSTRACT

Prakasa, Iman. 2008. *Geology of Linggapada, Tonjong district, Brebes regency, Central Java Province*. Geological Mapping Report, Unpublished, Geological Engineering Department, Engineering Faculty, Diponegoro University, Semarang, Central Java, Indonesia.

Administratively, research area belongs to tonjong district, brebes regency, central java province. this mapping aims to do geology mapping in larger scale. geology mapping method is used observation method that determining outcrops in the field and field data analysis at laboratory. The result of this research are geomorphology, geology, georesources and geodisaster analysis. Geomorphology this area are divided into 4 units landforms i.e. structural steep hilly unit, denudational steep hilly unit, denudational undulating hilly unit and fluvial sediment unit. there are 10 rock units, from oldest to youngest are Carbonaceous sandstone, fine sandstone, volcanic breccias 1, carbonaceous sandstone, coral limestone, carbonaceous siltstone, coarse sandstone, volcanic breccias 1, laharic deposit and alluvium deposit. Geology history is begun precipitation of carbonaceous sandstone in miosen , then laminated sandstone, volcanic breccia, carbonaceous coarse sandstone, coral limestone in Pliocene, carbonaceous siltstone, coarse sandstone. Then, tectonic process has made tilting of the rocks and faulted. Afterward, andesite breccias deposited, lava deposit and alluvium deposit. There are two kinds potential geology e.g georesources and geodisaster. Georesources are springs, sand and gravel mining, alluvium for bricks material and surface water for irrigation. Geodisaster are flood and mass movement.

keywords: Linggapada, structural geology, mass movement.