

**GEOLOGY, QUALITY AND CALCULATION RESERVE
MINERAL BAUXITE KUBING AND SURROUNDING AREA,
SANDAI AREA, DISTRICT KETAPANG, WEST
KALIMANTAN PROVINCE**

ABSTRACT

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Research area is located in Kubing Sandai, and Ketapang district. With coordinates $110^{\circ}23'07.15''\text{BT}$ - $110^{\circ}25'16.55''\text{BT}$ and $88^{\circ}45'50.49''\text{LU}$ – $88^{\circ}47'01.55''\text{LU}$ of ± 1000 ha with a map scale 1:12.500. The research method is by surface geological mapping, then performed laboratory analysis and studio to produce trajectory maps, geomorphological maps, geological maps, zone prospects maps, laterite profile and determine the quality and reserves of bauxite resources in the study area.

Geomorphological unit area is Denudasional Hills Unit Land Forms, Alluvial Plain, River Body and mine slope. Subdendritik drainage patterns form.

Stratigraphy of the study area is divided into three unofficial lithologies. Sequence from the young to the old as follows: Granite Stone Unit (Late Cretaceous), Granite modified stone units (Miosen-Pliosen) and Alluvial Deposition Unit (Resen). The research area is an area that has a lateritic weathering of high intensity.

Zone on the area carefully situations prospect consists of 3 zones, That is : Mikael Hill, Jamin Hill and Ateng Hill. Fe_2O_3 and SiO_2 influence in the bauxite quality and amount of carrier grade bauxite Al_2O_3 . Source rocks of the bauxite carrier in the area of research is Granite rocks are widespread in the area of research, in the study area are fairly good quality and has reserves of valuable.