PERBANDINGAN KAJIAN KELAYAKAN EKONOMI TEKNIK TERHADAP PEMBANGUNAN INFRASTRUKTUR PADA DUA PORT YANG BERBEDA DI TEPI SUNGAI BARITO, KALIMANTAN TENGAH

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The discourse from the ESDM Ministry to increase coal production to 1 5.7% to a total op177,91 million tons affects to ail coal company in Indonesia, As a result of the increase in coal production target, the barging capacity should also increased. PT BBB is one of the companies that affected by this policy is trying to increase the barging capacity. PT BBB's' barging activities are currently conducted at Port PT AAA. There are two alternatives two increase the barging capacity. The first alternative is building a new set of Barge Loader in Port PT BBB and the second alternative is activating the existing barge loader in Port PT AAA (but currently there is no access road from pit to port PT AAA). To determine the feasibility of this investment, economic analysis is carried out and accompanied by sensitivity analysis on exchange rate and coal price. And Pr the decision making using Analysis Hierarchy Process. The results of the economic analysis show that NPV of $ 949,068 for the first alternative and S 19,109,303 for the second alternative, IRR of 13.08% for the first alternative and 26.758% for the second alternative, Payback Period of 6.567 years for the first alternative and 4.180 years for alternative second, and B/C ratio of 1.0007 for the first alternative and 1.0136 for the second alternative. All the results are exceeding the target of the investment. Meanwhile, the results of the sensitivity analysis show that the investment is declared feasible for the selling price of coal is above $ 80.

Keywords: barge loader, economic analysis, NPV, IRR, Payback period, B/C ratio, feasible.