

INTISARI

Embung kalimati merupakan bangunan air yang memanfaatkan bekas aliran sungai. Lokasi embung terletak di wilayah Desa Bapangan Kabupaten Jepara. Pembangunan embung berfungsi untuk memenuhi kebutuhan air baku bagi masyarakat. Embung kalimati dam memiliki panjang 820 m, kedalaman galian hulu rata-rata 4,80 m dan di bagian hilir rata-rata 2,60 m dengan luas kolam tampungan 22.950 m². Embung kalimati mampu menampung 115.890 m³ volume air, kapasitas daya tampung air 107.000 m³. Studi ini bertujuan untuk menghitung biaya pembangunan embung, mengetahui nilai manfaat dan menganalisis kelayakan ekonominya. Kelayakan ekonomi dihitung dengan membandingkan nilai manfaat dan biaya ditinjau terhadap nilai rasio manfaat dan biaya (B/C), tingkat pengembalian internal (IRR), Payback Periode dan analisis sensitivitasnya. Dari perhitungan yang sudah dilakukan dapat diketahui total biaya pembangunan Rp. 21.964.132.000,00 Dasar perhitungan yang digunakan dalam perhitungan harga air ini adalah B/C>1, diperoleh harga air sebesar Rp 2.280/m³ besarnya B/C 1,07, IRR 11%, Analisis sensitivitas biaya naik 10% dan manfaat turun 10% yang dianggap sensitif terhadap nilai biaya dan manfaat. Untuk (Payback periode) kembali pada tahun ke 8. Sehingga dapat disimpulkan proyek pembangunan .Embung kalimati dam ini layak secara ekonomi.

Kata kunci : Biaya pembangunan, Harga air, B/C,IRR

Abstrac

Kalimati is small dam was a water building which utilize the stream water remains. Small dam is located in Bapangan village, Jepara district. Small dam establishment is functionate to supply people needs of water sources. Small dam kalimati has 280 m of length with depth excavation upstream between 4,80 m and downstream about 2,60 m with wide of pool storage 22.950 m². Kalimati small dam could save 115.890 m³ of water volume. The capacity of water storage is 107.000m³. this study is purpose to calculate the costs of small dam establishment, to find out the benefits and analixing the economic feasibility. Economic feasibility is calculated by comparing the benefits and the costs of benefits and costs rasio (B/C). The result of this study found that the costs of establishment is Rp 21.964.132.000,00. The calculate of the costs based on the price tag of water is B/C>1, it can be obtained the costs water Rp2.280/m³ for B/C 1,07, IRR 11%, the sensitivity is increase up to 10% and the benefits decrease up to 10% which is can be said that it was impact to the value of the costs and benefits. The Payback Period is still the same with the 8th year. So, it can be concluded that the project of Kalimati's small dam establishment project was appropriate for economics.

Keywords: Costs of establishment, Price tag of water, B/C, IRR