

# **ANALISA STABILITAS TANGGUL SUNGAI CIKAO BANDUNG – PURWAKARTA**

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## **ABSTRAK**

Banjir yang terjadi setiap tahun di Desa Cikao Bandung telah mengakibatkan rusaknya infrastruktur yang ada, rusaknya areal pertanian, kerugian harta benda, dan terganggunya aktifitas perekonomian masyarakat, sehingga benar-benar banjir menjadi permasalahan utama di Desa Cikao Bandung yang harus segera ditanggulangi. Memperhatikan urgennya pengendalian banjir di Desa Cikao Bandung, dan juga melihat kondisi topografi dan situasi sistem sungai yang ada maka pekerjaan sipil yang dapat disarankan untuk melakukan usaha pengendalian banjir dan salah satunya dengan pembangunan tanggul. Serangkaian penelitian lokasi dilakukan guna mengetahui kondisi lapangan secara detail dan menghasilkan perencanaan tanggul yang baik dan tepat sasaran. Pada perhitungan stabilitas tubuh tanggul dilakukan dengan metoda irisan bidang luncur bundar (slice method on circular slip surface) serta perhitungan analisa stabilitas tanggul terhadap gelincir dihitung dengan program GEOSLPOE 2004.

**Kata Kunci :** Stabilitas, Banjir, Tanggul Sungai Cikao

## **STABILITY ANALYSIS OF CIKAO RIVER EMBANKMENT BANDUNG – PURWAKARTA**

### **ABSTRACT**

Floods that occur every year in Cikao Bandung Village have resulted in damage to existing infrastructure, damage to agricultural areas, loss of property, and disruption of community economic activities, so that flooding is a major problem in Cikao Bandung Village which must be addressed immediately. Taking into account the urgency of flood control in Cikao Village, Bandung, and also looking at the topographical conditions and the situation of the existing river system, civil works can be suggested to carry out flood control efforts and one of them is the construction of an embankment. A series of site studies were carried out in order to determine the field conditions in detail and produce good and targeted embankment planning. The stability calculation of the embankment body was carried out using the slice method on circular slip surface and the analysis of the stability of the embankment against slip was calculated using the GEOSLPOE 2004 program.