

## **ABSTRAK**

Embung Semar yang terletak di Desa Mlatirejo, Kabupaten Rembang dibangun di Sungai Serojeh dengan luas daerah aliran sungai 10,62 km<sup>2</sup>. Embung Semar berfungsi untuk memenuhi kebutuhan air baku dan kebutuhan air irigasi. Embung Semar didesain dengan kapasitas genangan air sebesar 240.449 m<sup>3</sup> pada elevasi +67. Volume tampungan efektif Embung Semar sebesar 137.384 m<sup>3</sup> mampu melayani kebutuhan air baku dan air irigasi masing – masing sebesar 0,002 m<sup>3</sup>/detik dan 0,08 m<sup>3</sup>/detik. Bangunan pelimpah yang didesain mampu mereduksi debit banjir rencana periode ulang 50 tahunan sebesar 121,091 m<sup>3</sup>/detik menjadi 43,47 m<sup>3</sup>/detik. Desain tubuh embung direncanakan menggunakan urugan tanah homogen dengan tinggi 15 meter dan panjang 158 meter. Rencana waktu pelaksanaan proyek adalah 28 minggu dengan rencana anggaran biaya sebesar Rp 8.469.864.600,00.

**Kata kunci :** Sungai Serojeh, Embung Semar, Irigasi.

## **ABSTRACT**

*Semar small dam which is located in Mlatirejo village of Rembang Regency is built on Serojeh River with 10.62 km<sup>2</sup> of watershed. The function of Semar small dam is to fill the needs of raw water and irrigation water requirement. Semar small dam was is designed with 240.449 m<sup>3</sup> of water capacity in +67 elevations. The effective volume of Semar small dam is 137.385 m<sup>3</sup> which provides the needs of raw water and irrigation of them are 0.002 m<sup>3</sup>/sec and 0.08 m<sup>3</sup>/sec. This spillway is designed to reduce the flood of reissue 50 years period of 121.091 m<sup>3</sup>/sec into 43.47m<sup>3</sup>/sec. The small dam was a homogeneous soil with its 15 meter in height and 158 meter in length. This project implementation is scheduled for 28 weeks with a budget plan of Rp 8.469.864.600,00.*

**Kata kunci :** *Serojeh River, Semar Small Dam, irrigation.*