

PEMBANGUNAN CHECKDAM BATANG TAMPO

LAPORAN TEKNIK

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ABSTRAK

Pembangunan checkdam pada Batang Tampo, Kabupaten Tanah Datar, merupakan bagian dari program Pengembangan, Pengelolaan, dan Konservasi Sungai, Danau, dan Sumber Daya Air Lainnya yang bertujuan untuk mengendalikan aliran debris (galodo) atau pengendalian sedimen, mengurangi erosi, serta meningkatkan konservasi sumber daya air. Kegiatan ini dilaksanakan oleh PT. Bratautama Roda Mandiri berdasarkan kontrak resmi dengan Dinas PSDA Provinsi Sumatera Barat. Metodologi dalam laporan ini meliputi kajian teori tentang aliran debris, checkdam, dan teknologi sabo; pengumpulan data lapangan dan dokumentasi; serta analisis teknis yang mencakup spesifikasi umum, data teknis, peralatan, bahan, organisasi kerja, hingga pengendalian mutu berbasis standar ISO 9001:2007.

Hasil pembahasan menunjukkan bahwa pekerjaan persiapan, pelaksanaan konstruksi (galian tanah, timbunan, bekisting, pasangan batu kali, pembesian, pengecoran beton K-225, pemasangan weep hole, hand rail, pintu stang, hingga cobblestone dan gebalan rumput) telah dilaksanakan sesuai spesifikasi teknis yang berlaku. Analisis standar mutu pekerjaan memperlihatkan bahwa material, metode pelaksanaan, dan hasil konstruksi memenuhi standar kontrak serta spesifikasi umum. Dokumentasi akhir menunjukkan keberhasilan penyelesaian pembangunan checkdam 100% pada bagian sayap kanan, sayap kiri, main dam, dan sub dam.

Dengan demikian, pembangunan checkdam Batang Tampo dapat disimpulkan berhasil dalam mencapai tujuan perencanaan, yaitu meningkatkan fungsi konservasi air, menahan sedimen, serta mengendalikan potensi banjir bandang di kawasan sekitar.

Kata Kunci : Checkdam, Galodo, Sabo, Pengendalian Sedimen, Batang Tampo

CONSTRUNCTION OF TAMPO RIVER CHECKDAM

ABSTRACT

The construction of a checkdam at Batang Tampo, Tanah Datar Regency, is part of the Development, Management, and Conservation Program of Rivers, Lakes, and Other Water Resources, aimed at controlling debris flow (galodo) or sediment control, reducing erosion, and improving water resource conservation. This project was carried out by PT. Bratautama Roda Mandiri under an official contract with the Department of Water Resources of West Sumatra Province. The methodology in this report includes theoretical reviews on debris flow, check dams, and sabo technology; field data collection and documentation; as well as technical analysis covering general specifications, project technical data, equipment, materials, work organization, and quality control based on ISO 9001:2007 standards.

The results indicate that preparatory works and construction activities (earth excavation, backfilling, formwork, stone masonry, reinforcement, K-225 concrete casting, installation of weep holes, hand rails, gate valves, cobblestones, and turfing) were implemented in accordance with the applicable technical specifications. The quality standards analysis confirms that the materials, construction methods, and outcomes complied with project contract requirements and general specifications. Final documentation demonstrates the successful completion of 100% of the check dam construction, including the right and left wings, as well as the main and sub structures.

In conclusion, the Batang Tampo check dam construction successfully achieved its planned objectives by enhancing water conservation, retaining sediment, and mitigating the risk of flash floods in the surrounding area.

Keywords: Checkdam, Debris flow, Sabo, Sediment control, Batang Tampo