

INTISARI

PT Transformasi Cita Infrastruktur berkerja sama secara operasional dengan PT Inticon, Yogyakarta dalam proyek pembangunan pemondokan dan rumah tinggal Graha Meena. Proyek gedung delapan lantai ini berlokasi di Kronggahan, Trihanggo, Gamping, Sleman, Daerah Istimewa Yogyakarta. PT Inticon sebagai owner, konsultan, dan kontraktor proyek ingin mengadakan penelitian *precast* gedung.

Pada proyek Graha Meena terdapat struktur *shearwall* untuk penanganan terhadap aktivitas gempa. Laporan Tugas Akhir ini disusun berdasarkan peninjauan langsung pelaksanaan *shearwall* pada kolom dan balok pracetak di lapangan dan meminta data sekunder. Alur penelitian dimulai dari melakukan pengamatan gambar *shop drawing*, pengamatan di lapangan, wawancara dengan pelaksana, dan membuat kesimpulan.

Bahan yang diperlukan untuk pelaksanaan *shearwall* yaitu beton *ready mix* K500, tulangan BJ 41, kawat pengikat, beton *decking*, kursi tulangan, bekisting, dan *scaffolding*. Alat yang digunakan yaitu *mobile crane*, *truck mixer*, *concrete bucket*, genset, las, beton vibrator, alat ukur, bor listrik, dan alat pendukung lainnya. Spesifikasi *shearwall* dengan tulangan D13-150, dinding beton, selimut beton 40 mm, panjang 3500 mm, lebar 200 mm, mutu K500, dan f_y 400 Mpa. Tahapan pekerjaan terdiri dari pemasangan kolom dan balok pracetak, pengecekan stek tulangan, pemasangan siku dan dinabolt, pembesian, pemasangan bekisting, pengecoran *in situ*, pelepasan bekisting, dan pengecekan akhir.

Kata kunci: alat, beton, metode pelaksanaan, *precast*, *shearwall*

ABSTRACT

PT Transformasi Cita Infrastruktur cooperates operationally with PT Inticon, Yogyakarta in the construction project of Graha Meena. This eight-story building project is located in Kronggahan, Trihanggo, Gamping, Sleman, Special Region of Yogyakarta. PT Inticon wants to conduct precast building research.

In Graha Meena project there is a shearwall structure for handling earthquake activities. This Final Project report was prepared based on a direct review of the implementation of shearwall on precast columns and beams in the field and requested secondary data. The research flow starts from observing shop drawings, field observations, interviews with implementers, and drawing conclusions.

The materials of shearwall are K500 ready mix concrete, BJ 41 reinforcement, tie wire, concrete decking, reinforcing chairs, formwork, and scaffolding. The tools used are mobile crane, truck mixer, concrete bucket, generator, welding, concrete vibrator, measuring instrument, electric drill, and other supporting tools. The shearwall specifications consist of D13-150 reinforcement, concrete wall, 40 mm concrete cover, 3500 mm long, 200 mm wide, K500 quality, and f_y 400 Mpa. The stages of work consist of installing precast columns and beams, checking reinforcement cuttings, installing elbows and dinabolt, reinforcement work, installing formwork, casting in situ, removing formwork, and final checking.

Keywords: concrete, implementation method, precast, shearwall, tools