

## ABSTRAK

Proyek Pembangunan Gedung SBSN Fakultas Tarbiyah dan Ilmu Keguruan Institut Agama Islam Negeri (IAIN) yang terletak di Desa Rowolaku, Kecamatan Kajen, Kabupaten Pekalongan dilaksanakan menggunakan metode konvensional. Biaya anggaran proyek yaitu Rp. 36.262.076.613,48.

Pada penelitian ini akan dilakukan perbandingan biaya antara metode pelat konvensional dan *precast half slab* pada pekerjaan pelat lantai. Penelitian ini bertujuan untuk mengetahui perbandingan biaya yang dibutuhkan pada pekerjaan pelat lantai metode konvensional dan metode *precast half slab*. Data pada penelitian ini didapat dari pihak pelaksana berupa Rencana Anggaran Biaya (RAB) dan gambar pelaksanaan. Setelah mendapatkan data, dilakukan perencanaan pada pekerjaan *precast half slab* meliputi dimensi pelat, mutu, beban, dan kebutuhan tulangan. Lalu pada perhitungan analisa harga satuan pekerjaan baik metode konvensional maupun metode *precast half slab* digunakan Peraturan Menteri Pekerjaan Umum dan Perumahan Rakyat Republik Indonesia Nomor 26 tahun 2016.

Biaya pekerjaan pelat lantai metode konvensional adalah Rp 2.585.660.123,55, sedangkan pada metode *precast half slab* adalah Rp 3.005.274.783,93. Jika dibandingkan didapat selisih Rp 419.614.660,38. Perbedaan biaya sebesar 16,23% terhadap metode konvensional. Kesimpulan dari penelitian ini adalah penggunaan metode konvensional lebih murah dibandingkan metode *precast half slab*.

**Kata Kunci** : Metode, Pelat Konvensional, *Precast Half Slab*, Biaya

## ABSTRACT

*The Building Construction of SBSN Tarbiyah Faculty and Teaching Sciences of the State Islamic Religious Institute Project located in Rowolaku Village, Kajen District, Pekalongan Regency was implemented using conventional methods. Project budget costs are Rp. 36.262.076.613,48.*

*In this research, author would do a comparison of conventional slab and precast half slab method on the floor slab. This research aims to determine the cost comparison of conventional slab and precast half slab method. The data in this research are in the form cost budget plan and detail engineering design obtained from contractor. After getting the data, an author make design of precast half slab including slab dimensions, quality, load and reinforcement requirement. And then in the calculation of the unit price analysis of work both of conventional slab and precast half slab method using Ministerial Regulation about Public Works and Public Housing of the Republic of Indonesia Number 26 of 2016.*

*The cost comparison of conventional slab and precast half slab method result obtained for conventional slab method require cost of Rp 2.585.660.123,55, while precast half slab require cost of Rp 3.005.274.783,93. If being compared between conventional slab and precast half slab method obtained the difference of Rp 419.614.660,38. The difference in cost is 16,23% over the conventional method. The conclusion of this research is using conventional method more cheaper than precast half slab method.*

**Keyword** : Cost, Conventional Slab, Precast Half Slab