

ABSTRACT

Vera Ardiningrum, 17318213

Mix Used Project at Transpark Juanda, Bekasi. Implementation Method and Volume Requirements of the Calculation for Concrete on Beam Structure at Elevated Road Type 2 Partial 1.

Department of Civil Engineering. Faculty of Civil Engineering and Planning. Gunadarma University.

(XIV+70+Attachment)

The Mix Used Project at Transpark Juanda, Bekasi is located at Jalan Ir. H. Juanda No. 180, Margahayu, Bekasi Timur, Bekasi, West Java. This project is built on an area approximately 47.400 m², with a building area approximately 358.200 m². The Mix Used Area has shopping center, indoor snow playground, apartment, hotel, soho and university. PT. Alfa Retailindo as the project owner, PT. DavySukamta Konsultan as structural consultant, PT. Arkonin as an architectural consultant, PT. Mecosystech Internusa as a consultant for Mechanical, Electrical & Plumbing (MEP), PT. Quanta QS Constindo as a Quantity Surveyor consultant and PT. Adhi Persada Gedung as the main contractor. The type of contract used is a lump slump with a contract value for structural work that is Rp. 863.000.000.000,00 and architectural work and Mechanical, Electrical & Plumbing (MEP) is Rp. 930.393.402.463,00. The Mix Used Project at Transpark Juanda, Bekasi construction is planned for 28 months with a maintenance time of 12 months. The observation that gathered in the area is the upper structure works include column, beam, floor slabs and stairs. The methods of implementing beam and floor slab work is the determination of beam and floor slab axles, scaffolding installation, formwork installation, beam and floor slab reinforcement fabrication, beam and floor slab reinforcement installation, beam and floor slab casting, formwork dismantling, and beam and floor slab concrete maintenance. The volume requirement for concrete beam structures on the Elevated Road Type 2 Partial 1 is 15.4363 m³ same as 3 concrete truck mixers.

Keywords: Beam, Method, Concrete Volume