ABSTRACT

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Implementation Method and Calculation of Reinforcement Requirements for 4th Floor Beams for the Tedja Indonesia Tourism Institute Building Construction Project

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(xiv + 60 + *Attachments*)

The Indonesian Tedja Tourism Institute (IPTI) Building Construction Project at Mercu Buana University is on Jalan Kanal Hankam Headquarters, RT. 01/RW. 03, Setu Village, Cipayung District, East Jakarta City, Special Capital Region of Jakarta. The owner of the Indonesian Tedja Tourism Institute (IPTI) Building Construction Project at Mercu Buana University is the Menara Bhakti Foundation, the main contractor of PT. Tribangun Pilar Persada, construction management PT. Buana Alam Megah Sentosa, and planning consultant PT. Arsita Interkreasi. The implementation time for the Indonesian Tedja Tourism Institute (IPTI) Building Construction Project at Mercu Buana University is 540 calendar days. The upper structural work observed in the Indonesian Tedja Tourism Institute (IPTI) Building Construction Project at Mercu Buana University was column work, beam work and floor plate work. The method of carrying out beam work consists of installing scaffolding, measuring the elevation of beams and floor plates, formwork work, steel work, casting beams, curing/maintaining concrete and removing formwork. The calculations carried out are the calculation of the beam reinforcement requirements. Based on the calculations obtained, the beam reinforcement requirement is 1884,000 kg.

Keywords: Beam, Implementation Method, Reinforcement Volume.