

## **ABSTRACT**

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*Mahata Serpong Rawa Buntu Railway Station Apartments Development Project. Implementation Method and Monitoring of Concrete Temperature with a Thermocouple for the Raft Foundation B2 Tower.*

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*(xv+87+Attachment)*

*Mahata Serpong Rawa Buntu Railway Station Apartments Development Project is located on Rawa Buntu highway, South Tangerang, Banten. The purpose of this project was to integrate modes of interplanetary living, commercial, and mobilization in one or more familiar as TOD (Transit Oriented Development). Perum Perumnas as a owner depute PT. Adhi Karya (Persero) Tbk. as a the main contractor would build the project with an area of 35.068,800 m<sup>3</sup> consists 3 towers. Type of contract was a fixed price unit rated and lumpsum (fixed price) with the contract's total value is Rp. 226.589.000.000. The higher a building, the bigger a roll moment can happen. The risk is easily compromised by using a combination of foundations between the raft foundation and bored pile. The raft foundation is a raft-shaped foundation that widens to the bottom of the building to carry the building's weight evenly across the ground below. This type of foundation requires thermal control in order to overcome the overheated growth that can trigger a rift. The method of casting included excavation, bored pile cuts, anti termite work, installation of formwork, casting of the work floor, installation of rebars, casting, and curing. Based on thermal monitoring, it is said that the concrete temperature symptoms are normal and stable without any indication of extreme temperature.*

*Keywords: Raft Foundation, Monitoring of Concrete Temperature, Thermocouple*