

# **CONSTRUCTION OF RETAINING WALL AT HILL SLOPE USING REINFORCED CONCRETE RETAINING WALL AND PREPARE BQ**

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## **ABSTRACT**

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Retaining wall is a structure that to retain the soil behind the wall or support the structure above ground level. The retaining wall is able to retain the earth behind it by virtue of its internal strength and rigidity. Reinforced concrete retaining walls are made from reinforced concrete and they are made up of a thin stem and a base slab. The base slab is also divided into two parts – a heel and a toe. The heel is located under the backfill.

The costing, bills of quantities and elements of reinforced concrete retaining wall will be discussed in following chapters. In this project, it is important to understand the definition of retaining wall and it also covered bills of quantities such as measurement and cost estimation for retaining wall. After that, this project will make build up rates for excavation and backfilling, concrete works, reinforced steel bars and formwork.

The cost of the reinforced concrete retaining wall in selayang will also be included in this project report. With taking of quantities and unit rates that author have researched, bills of quantities will be done completely by using Global Estimating software. For the quantities, the descriptions are all taken down based on Standard Method of Measurement 2 (SMM2).