

# **PREPARATION OF BILLS OF QUANTITIES AND COSTING TO THE SUB-STRUCTURE WORK TO A SEMI-DETACHED BUNGALOW**

Prepared by: Koo Yik How

## **ABSTRACT**

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Sub-structural work is the work below finishes ground level. The structure above ground level of a house is support by sub-structure. Sub-structure is a structure work below ground level. All building started with sub-structure including damp proof course and to transfer safety down to a suitable load bearing layer of ground after receive the loads from the main building. All the construction project start construct the sub-structure, sub-structure must be able to support above all the load, if the sub-structure is not good or construction process unwell will cause of settlement and collapse. So that sub-structure is very import for a building.

The sub-structure of a semi-detached bungalow house will be discussed in every chapter below. For this project, it is important to understand the definition of sub-structure work and covers bills of quantities such as measurement and costing. The project will do the taking-off and make build up rate for earthwork, concrete, steel bars and formwork.

After the taking off have done will do the bill of quantities by using the Buildsoft software. For the description are according to the Standard Method of Measurement (SMM2) . The unit rate of each item will include profit and overhead, wastages and shrinkage.