

# DOWNLOAD PDF ESTIMATION AND COSTING IN CIVIL ENGINEERING NOTES

## Chapter 1 : Estimating and costing in civil engineering notes pdf

*Detailed Estimation and Costing Lecturer Notes topic wise in PDF We have shared the Detailed Estimation and Costing lecturer notes in Topic wise pdf. It is more helpful to revise the basic in quick manner.*

Following requirements are necessary for preparing an estimate in civil engineering. Techniques of Estimating and costing in civil engineering Long and short wall technique Center line technique Combination of both techniques Long and short wall technique In this particular method the length of room is assumed to be long and perpendicular to long wall considered to be short wall. In this method, first mark the center line of both the walls and long wall calculation to be done first taking full length into account. For short wall each half breadth of long wall shall be deducted from both ends. Basic Engineering of Hume pipe Center line technique It is suitable where cross section area is similar. Total center line length is multiplied by breadth and depth to determine the quantity. Combination of both techniques It is combination of the both above mentioned techniques. It is adopted when outer wall and the inner walls are having different thickness. In that case, a center line technique is applied to outer walls and long & short wall techniques for internal walls. This is one of the practical methods as most of the estimation and costing in civil engineering can be done using this technique. How to prepare an estimate Preliminary estimate is required for budgetary approval from higher authorities and many other aspects. Now days, estimation are also made to understand the Investment return of the project. The estimate is prepared from the practical knowledge and cost of the similar project works in nearby area. Following are the methods used for preparation of estimates, Plinth area Unit base Plinth area The cost of construction is calculated by multiplying plinth area with plinth area rate. Cubical contents method Cubical contents method is used for high rise buildings. It is rather accurate and practical method to determine building cost. The cost of structure is calculated approximately as the volume of buildings multiplied by cubic rate local. Unit Base method In this method the cost of building is calculated by multiplying the total number of units with unit rate of each separate item. But you cannot get accurate rate due to fluctuation in material price with respect to current rate. Therefore better to compare material rate of latest completed projects. If you have any question related to Estimating and costing in civil engineering, please ask below in comment section.

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There are different types of estimates which are as follows: This is an inexact estimate to find out a rough cost in a short time which enables the authority concerned to consider the financial aspect of the scheme, for according sanction to the same. Such an estimate is framed after knowing the rate of similar works and from practical knowledge in various ways for various types of works such as: Plinth area or square-meter method, 2 Cubic rate or cubic meter method, 3. Service until or until rate method, 4. Approximate quantities with bill method, 6. Cost comparison method, 7. The cost of materials and labor. This consists of detailed particulars of the quantities, rates, and costs of all the materials required for satisfactory completion of a project. Quantities of all materials of work are calculated according to their respective dimensions on the drawings on a measurement sheet. Multiplying these quantities by their respective rates in a separate sheet, the cost of all items of work are figured out individually and then summarized, i. All other expenses required for satisfactory completion of the project are added to the above cost to frame the total of a detailed estimate. A detailed estimate is accompanied by 1. Detailed drawings showing plans, different sections, Key or Index plan etc. Design data and calculations 5. The basis of rates adopted in the estimate. Such a detailed estimate is prepared for technical sanction, administrative approval and also for the execution of a contract with the contractor. Quantity Estimates Or Quantity Survey: This is a complete estimate or list of quantities for all materials of work required to complete the concerned project. The quantity of each individual item of work is worked out from respective dimensions on the drawing of the structure. To find the cost of an item its quantity is multiplied by the rate per unit for that item. The purpose of the bill of quantities is to provide a complete list of quantities necessary for the completion of any engineering project and when priced gives the estimated cost of the project. If you liked this article then please subscribe to our newsletter.

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