

QUANTITY SURVEY AND VALUATION

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ESTIMATE

An estimate of the cost of a construction job is the probable cost of that job as computed from plans and specifications.

- For a good estimate the, actual cost of the proposed work after completion should not differ by more then 5 to 10 % from its approximate cost estimate, provided there are no unusual, unforeseen circumstances

NEED FOR ESTIMATE

It help to work out the approximate cost of the project in order to decide its feasibility with respect to the cost and to ensure the financial resources, it the proposal is approved.

- 2. Requirements of controlled materials, such as cement and steel can be estimated for making applications to the controlling authorities.**
- 3. It is used for framing the tenders for the works and to check contractor's work during and after the its execution for the purpose of making payments to the contractor.**
- 4. From quantities of different items of work calculated in detailed estimation, resources are allocated to different activities of the project and ultimately their durations and whole planning and scheduling of the project is carried out.**

Rough cost estimate

➤ following basis for different types of projects:

1. **Cost per square foot of covered area (plinth area) is the most commonly adopted criterion for preparing rough cost estimate for most of the residential buildings.**

2. **For public buildings, cost. Per person (cost per capita) is used. For example,**

Students hostel—————cost per student

Hospitals—————Cost per bed

Hotel—————Cost per Guest

SEPARATE OR INDIVIDUAL WALLS METHOD

first step of the brick wall, subtract two offsets ($2 \times 6" = 12"$) in foundation concrete from the length of the trench or concrete.

For the second footing subtract from the length of the 1st footing two offsets ($2 \times 2.25" = 4.5"$), for 3rd footing subtract from the length of the 2nd footing 2 offsets ($4.5"$) and in this way deal with the long walls up to the super-structure.

DETAILED ESTIMATE

- Detailed estimates are prepared by carefully and separately calculating in detail the costs of various items of the work that constitute the whole project from the detailed working drawings after the design has been finalized.
- The mistakes, if any, in the rough cost estimate are eliminated in the detailed estimate.
- Detailed estimates are submitted to the competent authorities for obtaining technical sanction