

SBQ 2423

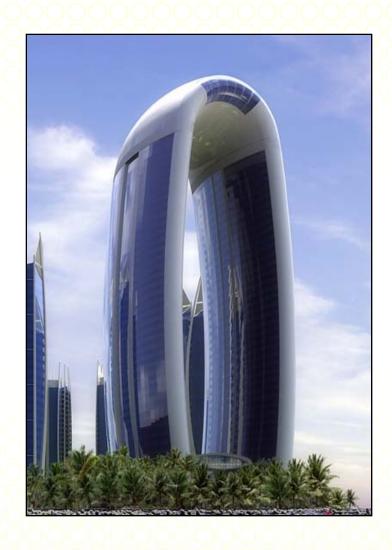
General Components of Construction Costs

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General components of construction costs







Construction Development costs

- Construction development consists of 2 types of development costs;
- Initial/Capital costs
- Maintenance and opera







Initial/Capital Costs

- Land costs (land costs, stamp duty, lawyers')
- Site clearance & earthworks
- infrastructure
- Building works
- External works
- Landscape works
- Preliminaries





Initial/Capital Costs (cont'd)

- Design risks & contingencies
- Professionals Fees & Lawyers Fees
- Administrations
- Marketing (depends on government/private project)
- Financial (for loan purposes)
- Contribution to Local Authorities





Maintenance and operations costs

- Insurance
- Tax (land/bldgs)
- Repair & replace
- Cleanings
- Depreciations of fixed asset (built-in, machineries)
- Administration and managing costs (manager's & staff's salaries)





Components of building costs

There are several construction items that make up the total costs of a building. The followings are some of the common items;

- Preliminaries
- Earthworks site clearance, demolotion
- Piling works
- Main building works (elemental)
- Infrastructure works





Components of building costs (cont'd)

- Ancillary buildings
- Recreational facilities (parks, playgrounds, therapeutic park)
- PC and Provisional Costs)
- All other works not explicitly mentioned but deemed to be necessary in the overall execution and successful implementation of the contract





Components of building costs (cont'd)

- Within the building works, it constitutes of several elements.
- The following slide depicts the most common building elements in any typical building.





Elemental Main buildings work

I. Work below lowest floor finish

VII. Windows & external doors

II. Frame

VIII. Internal walls & partitions

III. Upper floors

IX. Internal doors

IV. Roof

X. Internal wall finishes

V. Stairs

XI. Internal floor finishes

VI. External walls



Elemental Main buildings work (cont'd)

XII. Internal ceiling finishes

XIII. External finishes

XIV. Fittings & furnishings

XV. Sanitary appliances

XVI. Plumbing installation (water, soil, waste and vent)

XVII. Special installations including AC & ventilation, electrical, fire protection, lift & conveyor and communication

XVIII. Builder's profit & attendance on services

XIX. Builder's work in connection with services

XX. External works(within the boundary of the premises) including retaining walls, roads & footpaths, car park, turfing, landscaping, fencing & gates, surface water drainage, foul drainage etc.

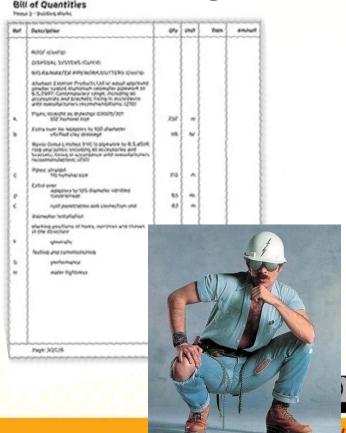


Final stage of estimating a construction project

 Once each of the construction items has been calculated, the next steps will be the filling in

costs in tender document

- Prepare company's profile
- Submit tender document





Concluding Remarks

 All of the costs within the construction developments need to be carefully prepared, plan and monitored in order to ensure success execution of project.





Reference and further readings

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 Estimating Construction Costs, 5th Edition Mc-Graw-Hill, 2002.
- Popescu, C.M, Phaobunjong, K, Ovararin, N Estimating Building Costs, Marcel DekkerInc 2003.